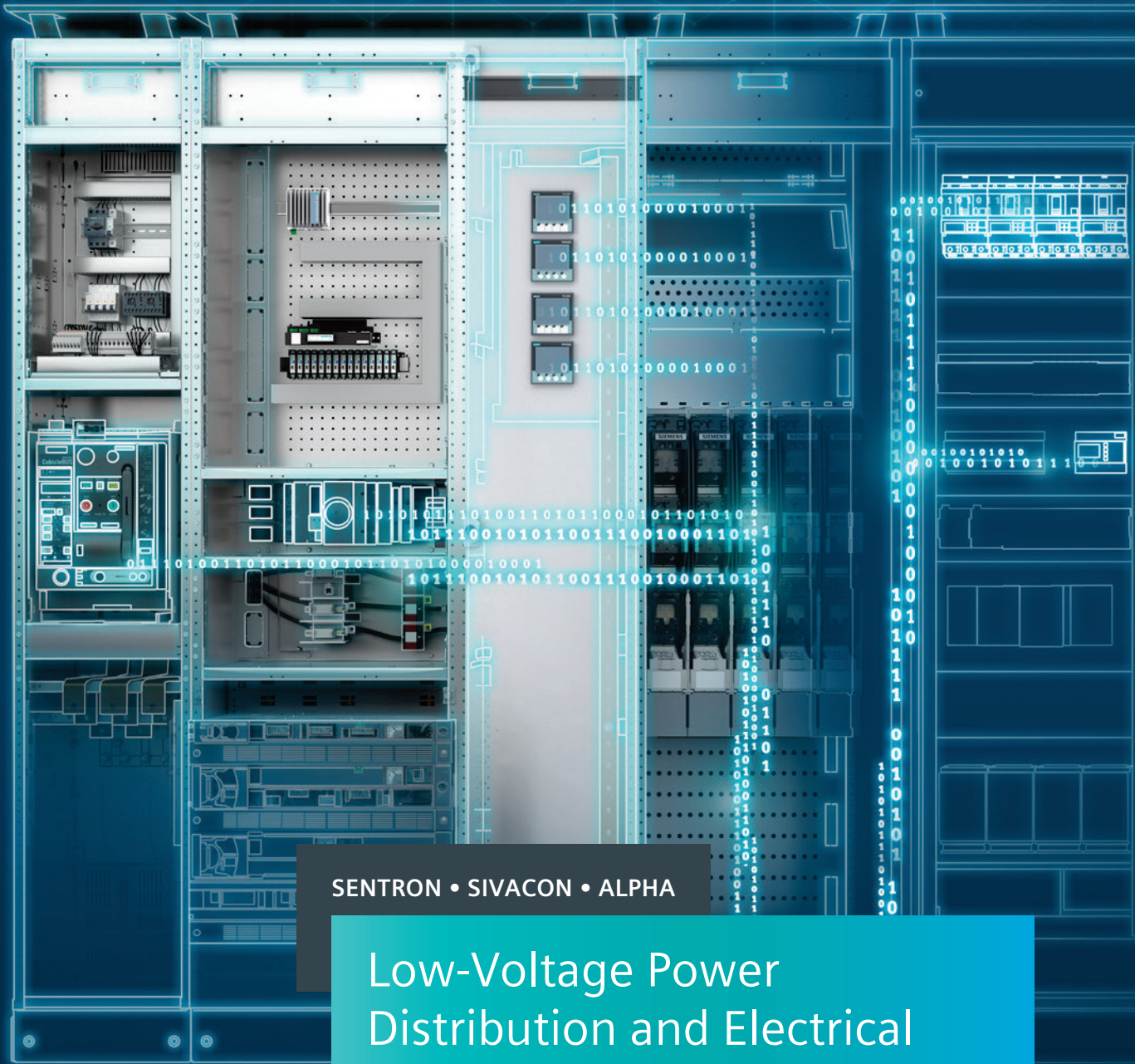


SIEMENS



SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Protection, Switching, Measuring and Monitoring
Devices, Switchboards and Distribution Systems

Catalog
LV 10

Edition
04/2020

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

Making sure power makes its way

Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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New products

3VA molded case circuit breakers size 1250 A



- Rated current 1250 A
- Breaking capacity 55 kA to 110 kA at 415 V AC

See chapter 1, page 2/22

SENTRON powermanager V4.x



- New platform with extended graphics capabilities
- Optimum workflows for system setup, device assembly, graphical display of data and processing in reports
- Standard SQL database

See chapter 10, page 10/12

5SV1 RCBOs



- Extension with type F and type A super-resistant [K] / [G]

See chapter 4, page 4/48

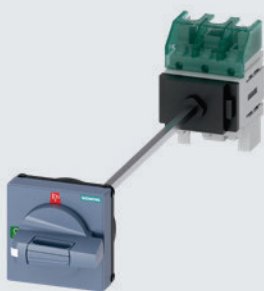
7KN Powercenter 3000



- Plug & operate solution as the central interface into the switchboard up to the cloud
- Local visualization via an integrated, user-defined web interface
- Notification function by email and web interface

See chapter 10, page 10/13

3LD5 UL main control and EMERGENCY-STOP switch



- Can be used as a UL/IEC main control switch
- Compact design
- Wide variety of accessories and suitable as a main disconnect switch for industrial machinery

See chapter 8, page 8/52

SENTRON powermind



- MindSphere application for monitoring and analysis of energy data
- Intuitive operation and installation
- Evaluation for the entire switchboard or individual loads

See chapter 10, page 10/14

7KM PAC3120 / PAC3220 power monitoring devices



- Compact devices for digital measurement and greater precision
- Integrated web interface for a direct and simple overview (7KM PAC3220)
- Aggregation stages 10-second / 15-minute average

See chapter 10,
page 10/16

LData system from the SIVACON 8PS portfolio



- Efficient solution with currents up to 2500 A
- Designed for economic efficiency due to space-saving and modular design, energy tapping over the entire system
- Future-oriented solution with powerline technology and integration in overarching systems and cloud-based solutions

See chapter 16,
page 16/4

ALPHA 3200 Eco power distribution boards



- Lower use of copper centrally placed busbar system (resource saving)
- Performance optimized – from transformer connection via busbar up to the feeder (practical)
- High packing density in small space due to flexible application of ALPHA assembly kids (modular)

See chapter 15,
page 15/16

The fast route to the product

Overviews and matrix tables for better orientation within the catalog

Products and their applications in infrastructure

Products and their applications in industry

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Overview of products and their applications

On pages [I/8](#) to [I/11](#) you can find an overview of the diverse portfolio of catalog LV 10.

Overview of protection, switching, measuring and monitoring tasks

The functions presented here are available in combination or individually. Details can be found in the respective chapter.

Introduction | Overview of protection, switching, measuring and monitoring tasks | Introduction

| Device class | Type | Rated current AC | Page | Line protection | Motor protection | Generator protection | Starter protection | Isolating function | Current limitation | Overload protection * | Short-circuit protection, category 2 | Short-circuit instantaneous ** | Ground-fault protection † | Metering function | Personal safety / Environment protection | Overvoltage protection | Preventative fire protection | Switching function |
|---|------------|------------------|---------------|-----------------|------------------|----------------------|--------------------|--------------------|--------------------|-----------------------|--------------------------------------|--------------------------------|---------------------------|-------------------|--|------------------------|------------------------------|--------------------|
| Air circuit breakers | 3NA | 16 - 1,600 A | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Modular case circuit breakers | 3NA | 16 - 1,600 A | 311 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Miniature circuit breakers (Automatic circuit breakers) | 5SY7 / 5SE | 0 - 80 A | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| RCCB | 5SY2 / 5SE | 16 - 125 A | 416 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| RCDs | 5SY1 / 5SE | 0 - 80 A | 416 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Arc fault detection devices, RFDs | 5SM6 | 0 - 80 A | 416 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Arc fault detection devices, AFCDs | 5S96 | 0 - 80 A | 416 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| ON/OFF switches | 5S11 | 32 - 125 A | 514 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Overvoltage protection | 5S07 | | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Fuses DO | 5S5 / 5S6 | | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Photovoltaic fuses | 3P6 | | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| LVW fuses | 3P6 | | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| SiC/SiC semiconductor | 3P6 | | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Switch disconnectors | 3SD | 16 - 2,000 A | 316 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Face switch disconnectors | 3SP | 0 - 630 A | 6178 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Switch disconnectors with fuse | 3SD | 0 - 630 A | 6172 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Transfer switching equipment | 3ST | 0 - 630 A | 6116 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Transfer switching equipment | 3ST | 16 - 3,200 A | 6116 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| PAC measuring device | 3WT | Any | 1022 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Motor starter protectors | 3MT | | Catalog IC 10 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| 3BT contactor | | | Catalog IC 10 | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

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Protection, switching, measuring and monitoring tasks

From page [I/14](#) onwards, the catalog LV 10 portfolio is dedicated to the most important protection, switching, measuring and monitoring tasks.

The fast route to the product

Overviews and matrix tables for better orientation within the catalog

5SY4 miniature circuit breakers
10 kA

| Rated current | 1P | | | | 1.5P | | | | 2P | | | | 3P | | | | 3PN | | | | 4P | | | |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| 1.5 A | 5SY4105-1 | 5SY4105-2 | 5SY4105-3 | 5SY4105-4 | 5SY4105-5 | 5SY4105-6 | 5SY4105-7 | 5SY4105-8 | 5SY4105-9 | 5SY4105-10 | 5SY4105-11 | 5SY4105-12 | 5SY4105-13 | 5SY4105-14 | 5SY4105-15 | 5SY4105-16 | 5SY4105-17 | 5SY4105-18 | 5SY4105-19 | 5SY4105-20 | 5SY4105-21 | 5SY4105-22 | 5SY4105-23 | 5SY4105-24 |

Mounting concept

Accessories

| Accessories | Article No. | Acc. fault detection device (AFDD) | Article No. |
|-------------------------|-------------|------------------------------------|-------------|
| Auxiliary switches (AS) | 5SY4105-1 | Acc. fault detection device (AFDD) | 5SY4105-2 |
| 1P0 V AC | 5SY4105-3 | For each unit (1P0 V AC) | 5SY4105-4 |
| 2P0 | 5SY4105-5 | For each unit (2P0 V AC) | 5SY4105-6 |
| 3P0 | 5SY4105-7 | For each unit (3P0 V AC) | 5SY4105-8 |
| 4P0 | 5SY4105-9 | For each unit (4P0 V AC) | 5SY4105-10 |

Product page
The article number matrix shows you on the spot which product variants are available. The matching accessories are clearly dedicated to each basic device – often directly on the same page.

Structure of the article numbers

Basic configuration

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/energy/voltage/3WL10 configurator.

3WL10

| Position | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------------------------------|---|---|---|---|----|----|----|----|----|----|----|
| Basic unit and ETU | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Motor | | | | | | | | | | | |
| Auxiliary releases, closing coils | | | | | | | | | | | |
| 2nd auxiliary release | | | | | | | | | | | |
| 1st auxiliary release | | | | | | | | | | | |

Basic unit and ETU

| Max. rated current | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------|---|---|---|---|----|----|----|----|----|----|----|
| 1500 A | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 2000 A | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 2500 A | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

Motor

| Operating mechanism | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------------------|---|---|---|---|----|----|----|----|----|----|----|
| Manual operating mechanism | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Spring charging motor | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

Auxiliary releases, closing coils

| Closing coil (CC) | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|----|----|----|----|----|----|----|
| Without closing coil (CC) and additional remote reset magnet (RM) | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Closing coil (CC) | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 2nd auxiliary release | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1st auxiliary release | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

Configurable products
For products which are conveniently configurable online, the structure of the article numbers is clearly displayed. A link takes you directly to the configurator which permits complete and verified configuration.

new Search function

Search for new products by entering new in the text field of the search function:

**Clickable article numbers**

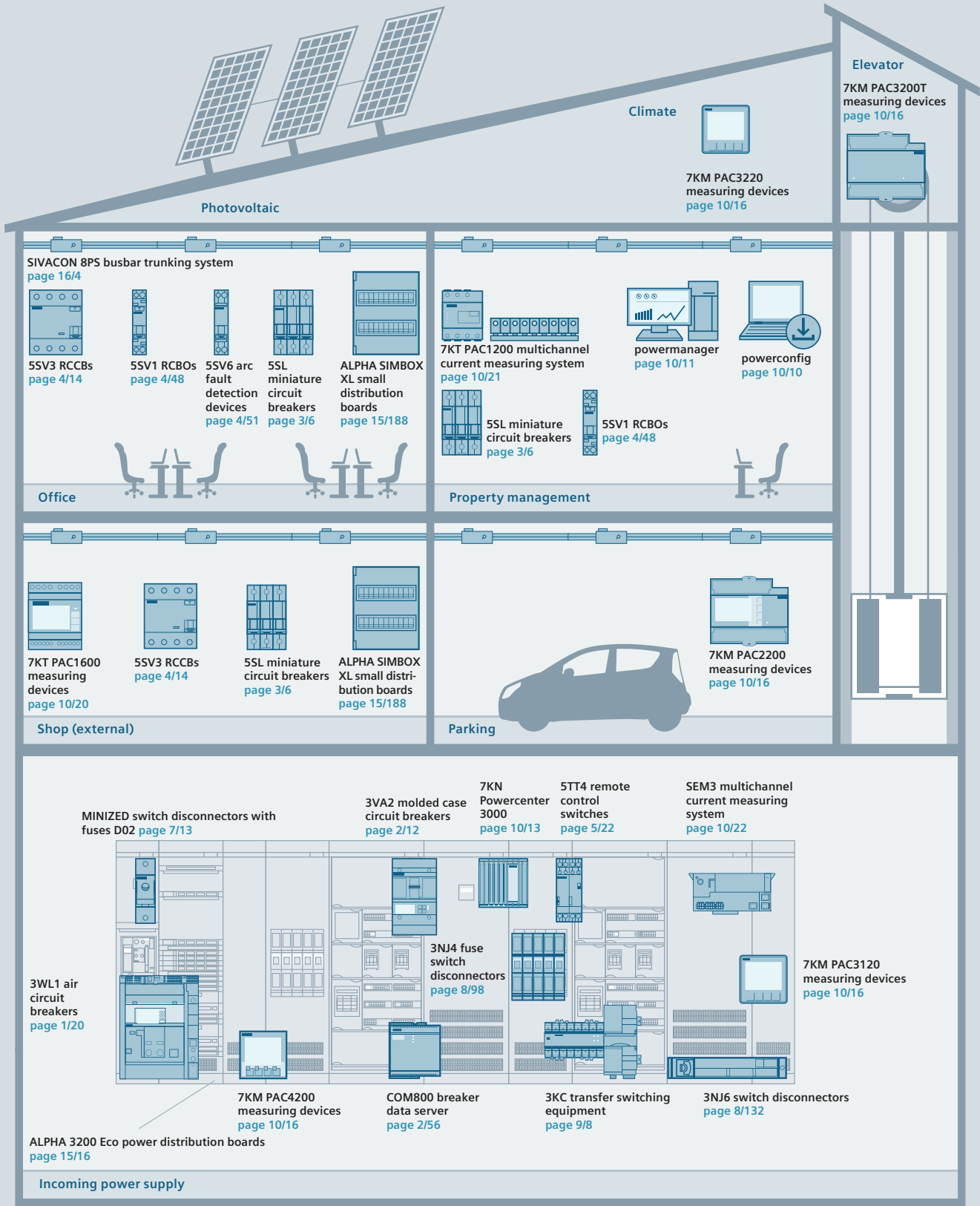
Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog

3VA9157-0EK11

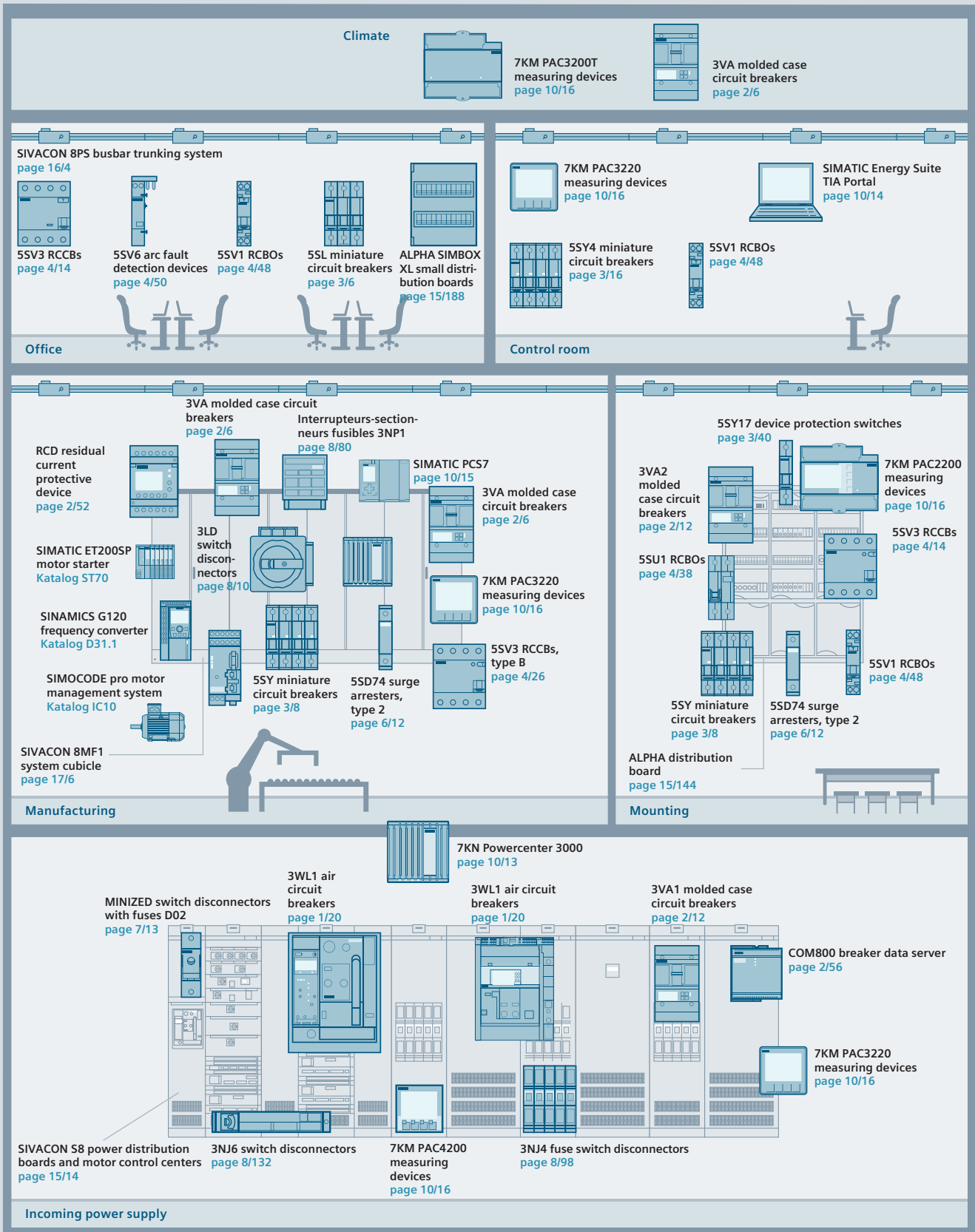


or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

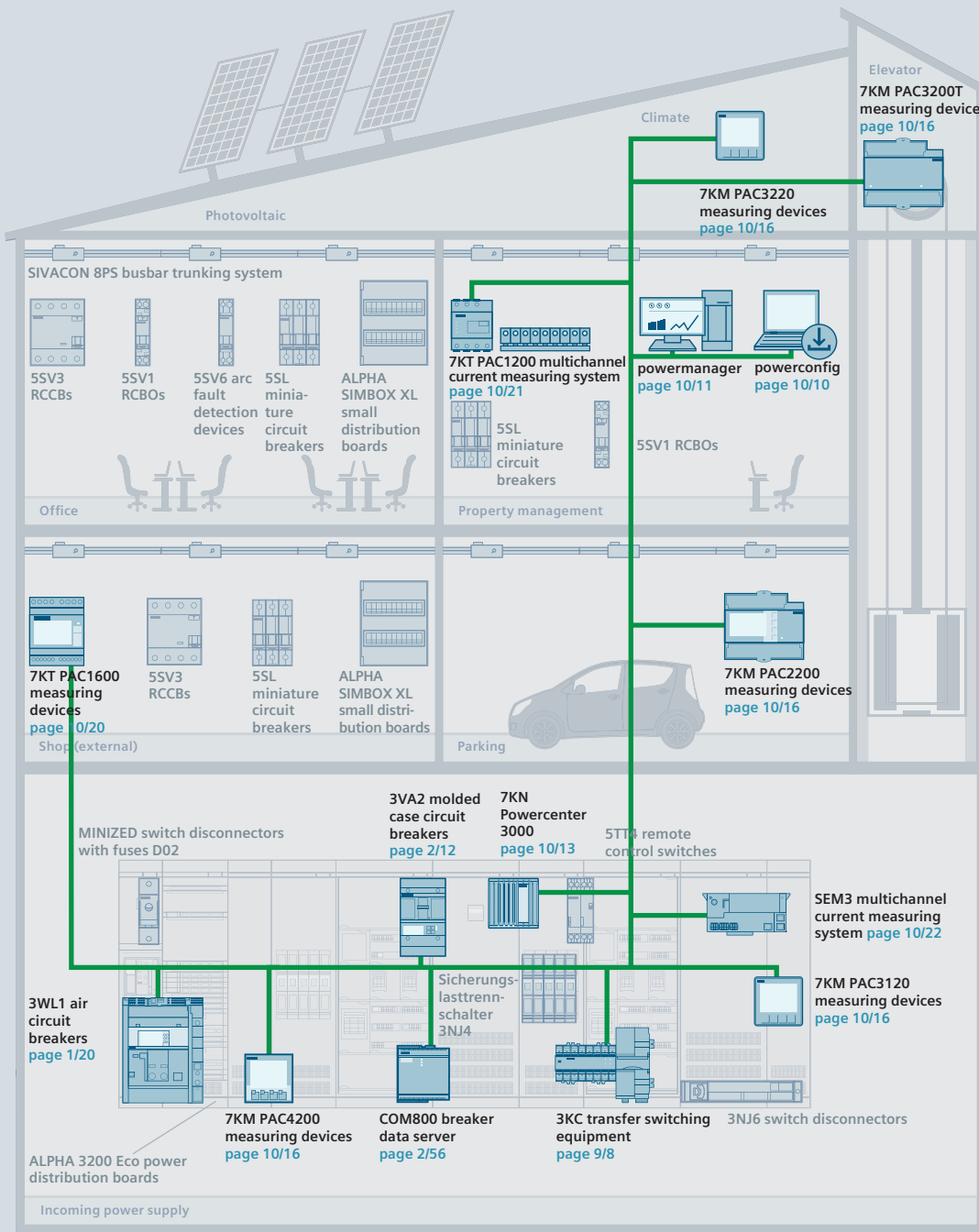
Products and their applications in infrastructure



Products and their applications in industry



Examples of digitalization in infrastructure



Cloud-based analysis

MindSphere

Condition Monitoring

Predictive maintenance

Power monitoring

On premises

Measuring, evaluating and controlling with powermanager / Desigo CC power monitoring software

Stand-alone

Central visualization of measured values, states and alarms via integrated web servers in measuring devices and Powercenter 3000

Examples of digitalization in industry

Cloud-based analysis



Condition Monitoring

Predictive maintenance

Power monitoring

On premises

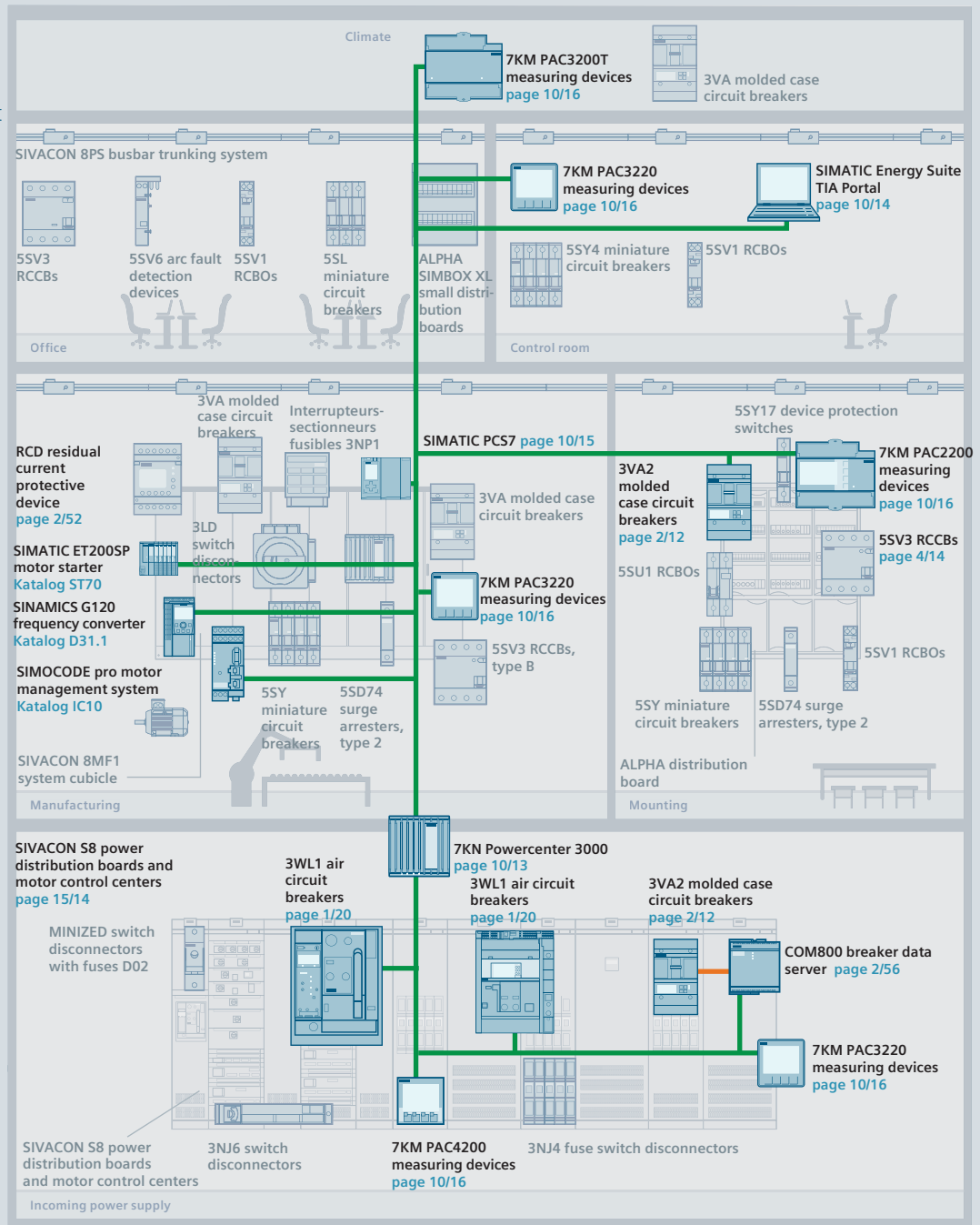


Measuring, evaluating and controlling with SIMATIC Energy Suite / TIA Portal

Stand-alone



Central visualization of measured values, states and alarms via integrated web servers in measuring devices and Powercenter 3000



Introduction to the topic of digitalization and Industry 4.0

In industrial automation, the demand for communication capability, data transparency and flexibility is growing constantly. To enable industrial switchgear technology to meet this demand, the use of bus systems and intelligent switching devices is unavoidable.

Digitalization

Switching, protection and measuring devices in power distribution systems can display important information on local visualization via integrated communication, e.g. in powercenter, or transmit it to energy data management systems (EDMS), e.g. powermanager, as well as to cloud systems and applications.

- Diagnostics management
- Fault management – SMS alarm
- Maintenance management – predictive maintenance
- Cost center management – MID

1. Visualization and plant transparency (HMI)



- Greater operational reliability thanks to remote access to the plant.
- Plant visualization for central and simple access to all device information.

2. Digital documentation



- Uniform access to digital data and documentation.
- Provision of extensive CAx data for systems and components during planning and operation.
- Support in planning and process creation using SIMARIS planning tools, product and system configurators.

3. Power monitoring



- Fulfilling the ISO 50001 by detecting and transparently presenting the energy flows within energy distribution.

4. Optimization and retrofit



- Retrofitting solutions such as SEM3 offer a simple option for integrating energy monitoring into existing systems.
- Energy monitoring and plant transparency help you efficiently plan plant expansion.

5. Maintenance management



- Maintenance support, even remotely, by transparently presenting the status of a switchgear and controlgear assembly.

6. Emergency management

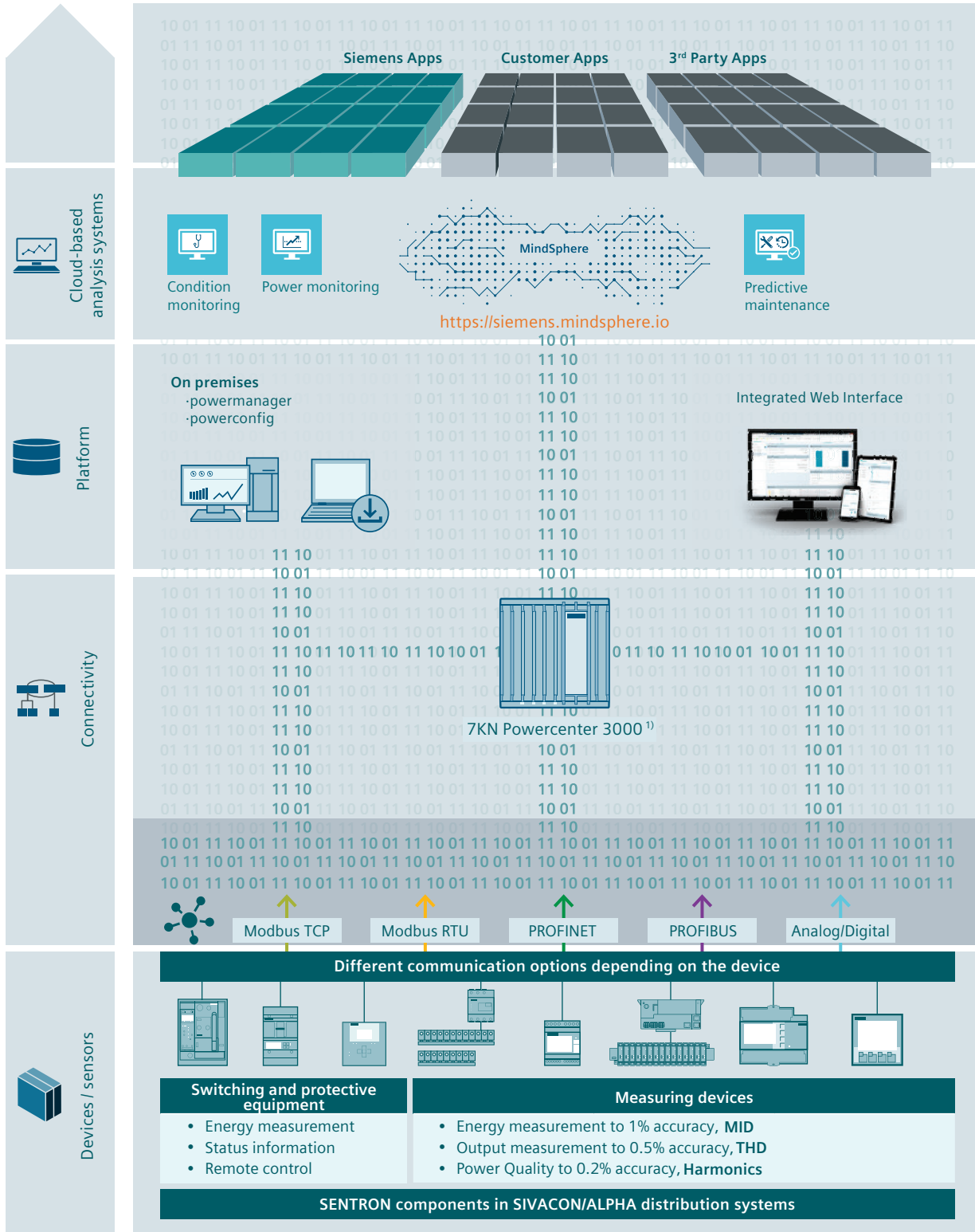


- Quick error localization which therefore leads to a minimization of outage times.

7. Cybersecurity



- Protection from unauthorized access and manipulation to switchgear and controlgear assemblies and devices ensures integrity, availability and confidentiality.



¹⁾ Modbus TCP

Overview of protection, switching, measuring and monitoring tasks

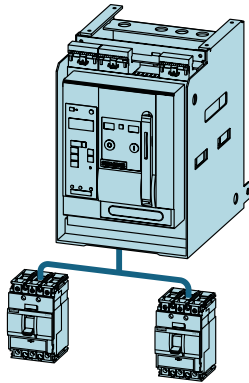
The functions presented here are available in combination or individually. Details can be found in the respective chapter.

| | | | | Line protection | Motor protection | Generator protection | Starter protection | Isolating function |
|---|-------------|------------------|---------------|-----------------|------------------|----------------------|--------------------|--------------------|
| Device class | Type | Rated current AC | Page | | | | | |
| Air circuit breakers | 3WL | 630 ... 6300 A | 1/4 | ■ | ■ | ■ | | ■ |
| Molded case circuit breakers | 3VA | 16 ... 1600 A | 2/1 | ■ | ■ | ■ | ■ | ■ |
| Miniature circuit breakers (automatic circuit breakers) | 5SY / 5SL | 0 ... 80 A | 3/6 | | | | | ■ |
| RCCB | 5SV3 / 5SM3 | 16 ... 125 A | 4/6 | ■ | | | | ■ |
| RCBOs | 5SU1 / 5SV1 | 0 ... 40 A | 4/6 | ■ | | | | ■ |
| Arc fault detection devices, AFDDs | 5SM6 | 0 ... 40 A | 4/6 | | | | | |
| Arc fault detection devices, AFDD-MCBs | 5SV6 | 0 ... 40 A | 4/6 | ■ | | | | ■ |
| ON/OFF switches | 5TL1 | 32 ... 125 A | 5/14 | | | | | |
| Overvoltage Protection Devices | 5SD7 | – | 6/6 | | | | | ■ |
| Fuses D0 | 5SG / 5SA | | 7/6 | ■ | | | ■ | |
| Photovoltaic fuses | | | 7/6 | ■ | | | | |
| LV HRC fuses | | | 7/6 | ■ | ■ | | ■ | |
| SITOR semiconductor fuses | | | 7/6 | ■ | | ■ | ■ | |
| Switch disconnectors | 3LD | 16 ... 250 A | 8/6 | | | | | ■ |
| | 3KD | 16 ... 1,600 A | 8/6 | | | | | ■ |
| Fuse switch disconnectors | 3NP | 0 ... 630 A | 8/78 | | | | | ■ |
| Switch disconnector with fuse | 3NJ | 0 ... 630 A | 8/132 | | | | | ■ |
| | 3KF | 0 ... 630 A | 8/116 | | | | | ■ |
| Transfer switching equipment | 3KC | 16 ... 3,200 A | 9/4 | | | | | ■ |
| PAC measuring devices | 7KT | Any | 10/22 | | | | | |
| Motor starter protectors | 3RV | | Catalog IC 10 | | ■ | | | ■ |
| Contactors | 3RT | | Catalog IC 10 | | | | | ■ |

| Current limitation | Overload protection "L" | Short-circuit protection, delayed "S" | Short-circuit protection, instantaneous "I" | Ground-fault protection "G" | Metering function | Personnel safety / fault current protection | Overvoltage protection | Preventative fire protection | Switching function |
|--------------------------|--------------------------|---------------------------------------|---|-----------------------------|-------------------|---|------------------------|------------------------------|--------------------|
| ■ | ■ | ■ | ■ | ■ | ■ | ■ / ■ | | | |
| ■ | ■ | | ■ | | | ■ / ■ | | | |
| ■ | ■ | | ■ | | | ■ / ■ | | | |
| ■ | ■ | | ■ | | | | | ■ | |
| ■ | ■ | | ■ | | | | ■ | ■ | |
| ■ | ■ | | ■ | | | | | | |
| ■ | ■ | | ■ | | | | | | |
| ■ | ■ | | ■ | | | | | | |
| With suitable fuse links | With suitable fuse links | | With suitable fuse links | | | | | | |
| ■ | ■ | | ■ | | ■ | | | | ■ |

Overview of protection, switching, measuring and monitoring tasks

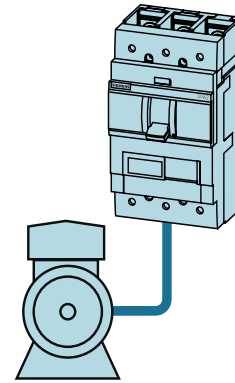
Line protection



The trip units for line protection are designed to provide overload and short-circuit protection for:

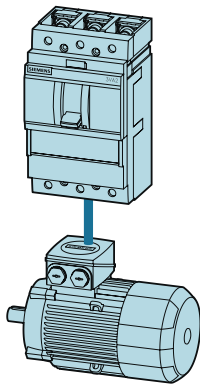
- Cables
- Leads
- Non-motor loads

Generator protection



The setting values of the trip units are matched to protecting generators.

Motor protection

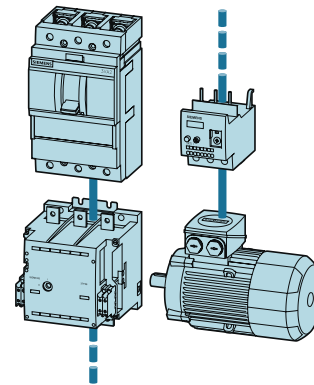


The overload and short-circuit releases are designed for optimal protection and direct starting of three-phase AC squirrel-cage motors.

The molded case circuit breakers for motor protection have phase-failure sensitivity and a thermal image that protects the motor against overheating.

The adjustable time lag class enables users to adjust the overload release to the startup conditions of the motor to be protected.

Starter protection



Starter combinations consist of:

Molded case circuit breaker + contactor + overload relay.

The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to the motor.

The molded case circuit breaker for the starter combination is therefore equipped with an adjustable and instantaneous short-circuit release.

Isolating function as per IEC 60947-3

According to DIN VDE 0100-200, functional switching is an operation intended to switch on or off or vary the supply of electric energy to an electrical installation or parts of it for normal operating purposes (See chapter 8,).



Metering function

There are two possibilities for selecting the metering function in low-voltage power distribution (See chapter 10):

- Measuring devices (stand-alone) combined with protection and switching devices



- Measuring devices and the protection function integrated into a single device



Current limitation

Current limitation means that the peak value of the prospective peak short-circuit current is limited to a smaller let-through current.

- Current-limiting devices include molded case circuit breakers (MCCB), motor starter protectors (MSP), miniature circuit breakers (MCB) and fuses



- Air circuit breakers (ACB) are non-current-limiting devices



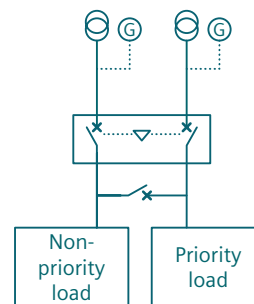
Transfer switching function

In the selection of transfer switch equipment, the following functions are distinguished (See chapter 9):

- Transfer control
- Load transfer

The following possibilities for transfer switching are available:

- MTSE = manual transfer switch equipment
- RTSE = remote transfer switch equipment
- ATSE = automatic transfer switch equipment



Tripping characteristics

The protection function of protection and switching devices in low-voltage power distribution systems is determined by the correct selection of the respective tripping characteristic (fuses, miniature circuit breakers) or TMTU/ETU trip units (air circuit breakers, molded case circuit breakers).

All current-limiting protection devices, such as MCCBs, MSPs, MCBs and fuses, can be described in terms of three characteristic curves:

- Tripping curve (time/current)
- Let-through current curve
- Let-through energy curve

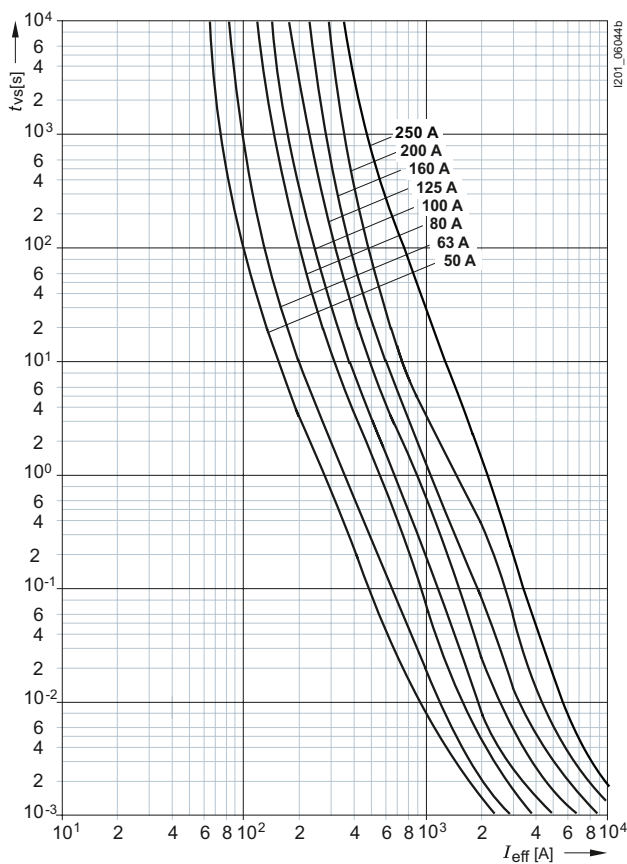
In the following, the functions of the tripping curves are presented as an example.

Fuses

The time-current characteristic curve of fuses denotes the virtual melting time as a function of the overload or short-circuit current.

Different characteristics must be considered in dimensioning depending on the protection requirement and operational class (e.g. gG, gR, aR, etc.).

See configuration manual – Fuse systems ([45314810](#))

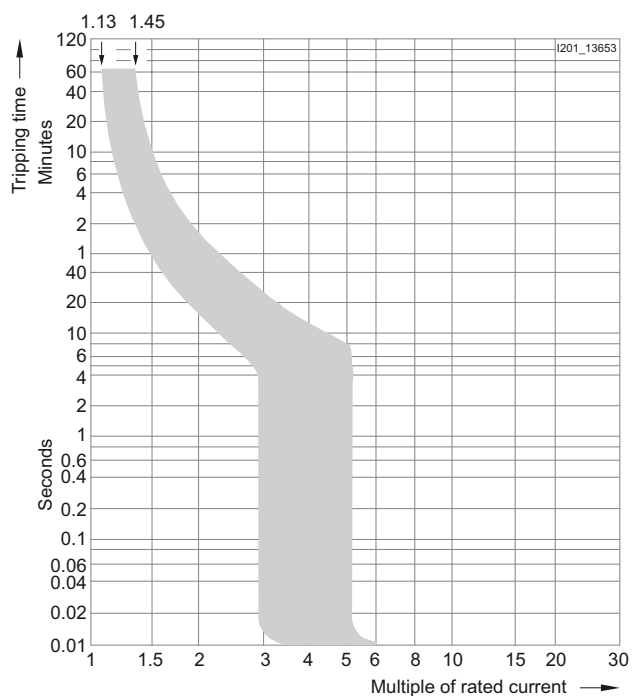


Miniature circuit breakers (MCB)

The characteristic curve is chosen based on the application and is classified, for example, as tripping characteristic A, B, C or D.

Tripping curve = tripping characteristics according to IEC / EN 60898-1

See configuration manual – Miniature circuit breakers ([45302792](#))



Molded case circuit breakers (MCCB)

The choice of electronic trip unit is based on the protection function required in power distribution.

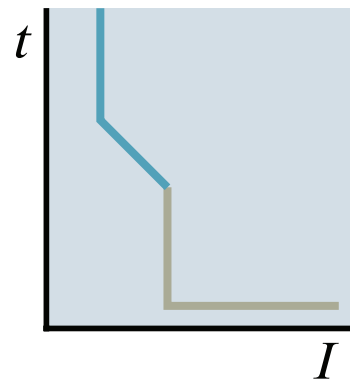
The trip units are classified as:

- thermal-magnetic trip units (TMTU; previously known as electromechanical trip units)
- electronic trip units (ETU).

Depending on the application and requirements, TMTUs are available with different protection setting options for both overload and short-circuit.

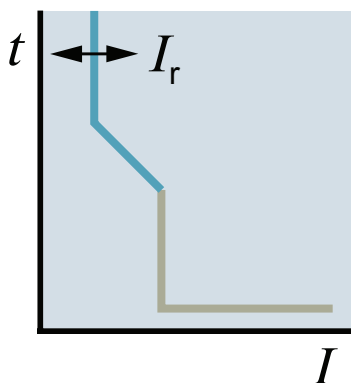
See equipment manual – 3VA molded case circuit breakers with IEC certificate ([90318775](#))

FTFM (Fixed Thermal, Fixed Magnetic Trip Unit)



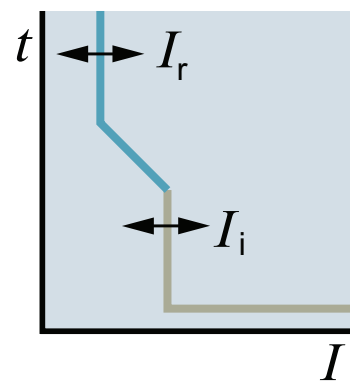
Permanently set thermal overload trip unit, permanently magnetic trip unit with short-circuit protection

ATFM (Adjustable Thermal, Fixed Magnetic Trip Unit)



Adjustable thermal overload trip unit, permanently set magnetic trip unit with short-circuit protection

ATAM (Adjustable Thermal, Adjustable Magnetic Trip Unit)



Adjustable thermal overload trip unit, adjustable magnetic trip unit with short-circuit protection

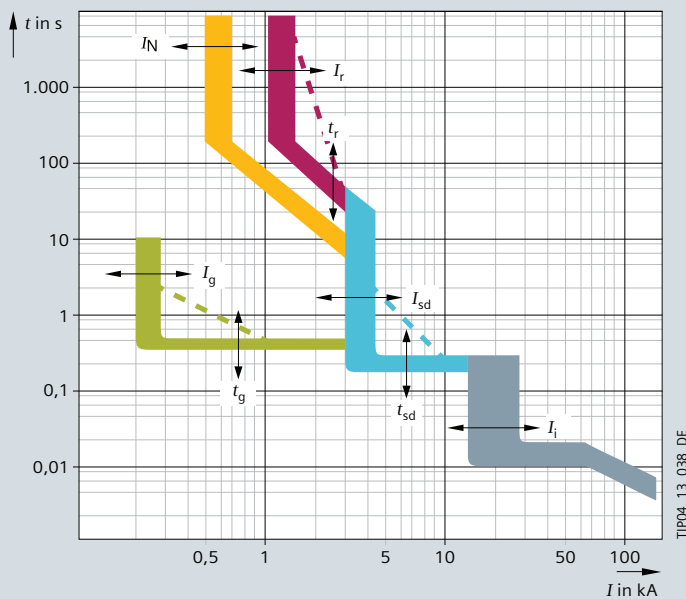
Tripping characteristics

Molded case circuit breakers (MCCB) / air circuit breakers (ACB) with ETU

The choice of electronic trip unit is based on the protection function required in power distribution. Electronic trip units offer the most extensive and variable protection settings of all protection and switching devices for low-voltage power distribution.

- See equipment manual – 3VA molded case circuit breakers with IEC certificate (90318775)
- See operating Instructions – SENTRON WL – 3WL1 circuit breaker (IEC) (109761064)

The graphs below show an overview of the the tripping curve (time/current).



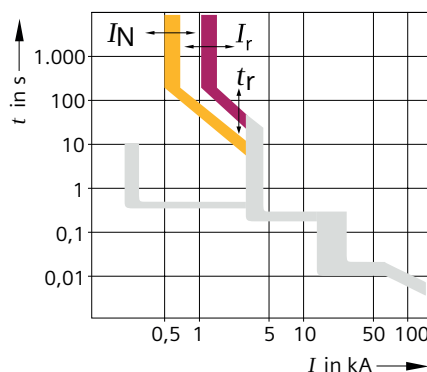
- L** **Overload protection "L"**
Standard I^2t
optional I^4t - - - -
- N** **Neutral protection "N"**
Option: OFF - $1,0 \times I_n$
(for selected trip units $1,6 / 2,0 \times I_n$)
- S** **Short-circuit protection, delayed "S"**
Standard $t_{sd} = \text{const.}$
optional I^2t - - - -
- I** **Short-circuit protection, instantaneous "I"**
- G** **Ground-fault protection "G"**
Standard $t_g = \text{const.}$
optional I^2t - - - -

Overload protection "L"

The ID letter for overload protection is L (stands for "Longtime delay"). The trip unit is inverse-time delayed and exhibits the following characteristics depending on the trip unit type:

- Bimetal characteristic with thermal-magnetic trip units
- I^2t characteristic with electronic trip units

The letters I_r refer to the current setting value, and t_r to the associated time delay.



Neutral protection "N"

The ID letter for neutral conductor protection is "N". This function protects the neutral conductor against overload. The letters I_N refer to the current setting value; the associated setting time is identical to t_r .

Possible reasons for implementing overload protection in the neutral conductor include:

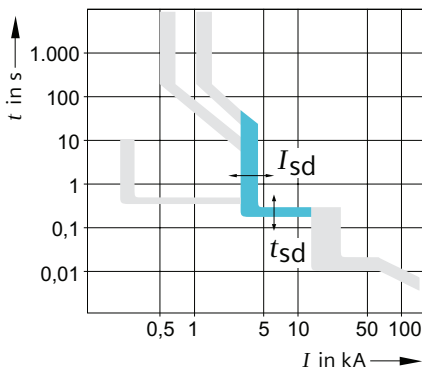
- The neutral conductor has a smaller cross-section than the phase conductors.
- Harmonic levels in the installation are expected to be higher than normal.
- A large number of loads, or predominantly single-phase loads I_N , are connected.

Short-circuit protection, delayed "S"

The ID letter for short-time delayed short-circuit protection is "S" (stands for "Short-time delay"). The S function of the trip unit can be used to implement time-selective short-circuit tripping in low-voltage networks in which multiple molded case circuit breakers are installed in series.

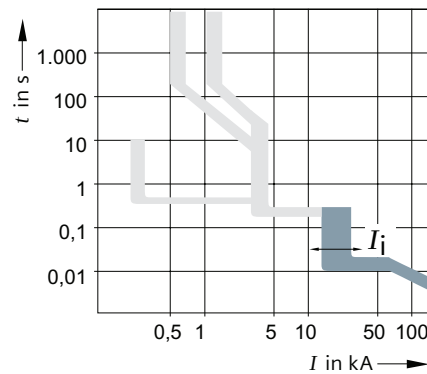
The short-time delayed short-circuit protection function protects phases L1 to L3 and the neutral conductor. The protection function responds if the current in at least one phase exceeds the set tripping current I_{sd} for the set delay period t_{sd} .

The S release has a characteristic curve with current-dependent I^2t , i.e. the delay time is dependent on the energy content of the short-circuit current present.



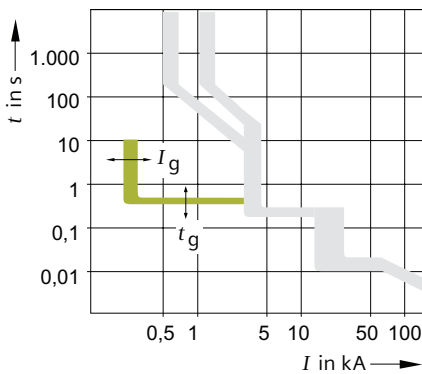
Short-circuit protection, instantaneous "I"

The ID letter for instantaneous short-circuit protection is "I" (stands for "Instantaneous"). This short-circuit protection function protects phases L1 to L3. The instantaneous short-circuit protection function responds if the instantaneous value equal to the rms of the current in at least one phase exceeds the instantaneous tripping current I_i .



Ground-fault protection "G"

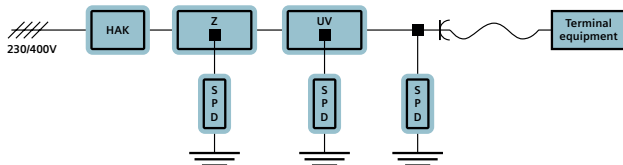
The ID letter for ground-fault protection is "G" (ground fault). The G release measures fault currents between phases and grounded, electrically conductive parts. The ground-fault protection function responds if the ground fault current exceeds the set tripping current I_g for the set delay time t_g . Ground-fault protection can be implemented as a current-independent and a current-dependent function (I^2t).



Overview of protection, switching, measuring and monitoring tasks

Overvoltage protection

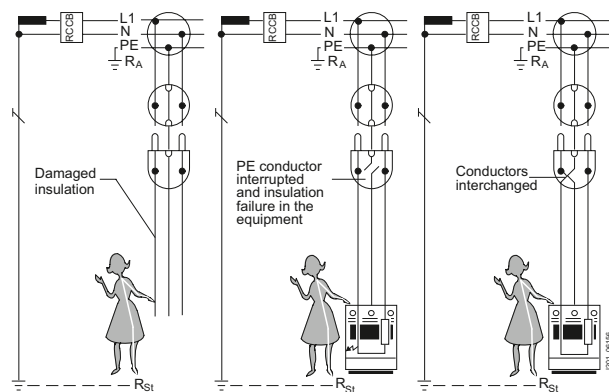
Overvoltage protection refers to the protection of electrical and electronic devices against excessively high electrical voltages. Overvoltage can be caused by switching operations or electrostatic discharging (ESD).



Personnel safety / fault current protection

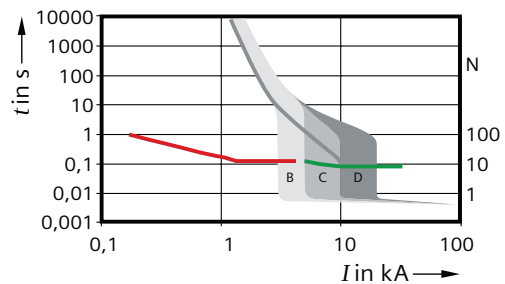
Protection in the event of direct contact:
Additional protection contact refers to direct contact with a part that is live under operating conditions.

Protection in the case of indirect contact:
Fault protection refers to contact with an electrically conductive part which is not live under operating conditions.



Preventative fire protection

Arc-fault detection devices evaluate occurring faults in the current and voltage wave using an electronic switch and shutting off the current when it recognizes a contact fault. This prevents overheating at poor contact points which can prevent fires.



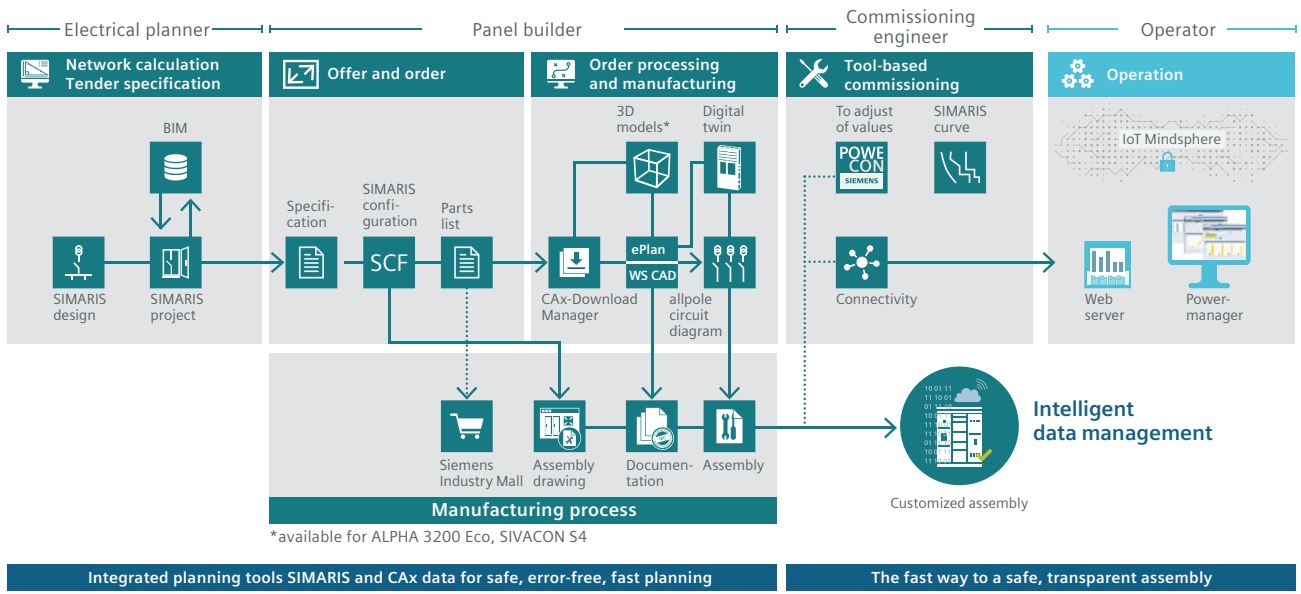
Potential failure causes

- Damaged cable insulation, e.g. by nails, screws or brackets
- The risk of a cable break exists for cables with a too-tight bending radius
- Cables which are laid through open doors and windows can be crushed when doors or windows are closed resulting in damaged insulation and arcing faults
- Environmental influences such as UV rays, temperature, humidity, gases can damage or age the insulation
- Damage caused by rodents
- Loose contact, e.g. caused by too low torque
- Conductor damaged by claw fixing

SIMARIS® planning tools

For planning and visualizing the power distribution system

From planning to operation



Highlights

- Thorough support of the engineering process with interlinked software tools
- Provision of extensive CAX data for systems and components
- Reduction of cost and time aspects during planning

Distribution systems

For industrial plants or in infrastructure

SIVACON S8 power distribution boards and motor control centers

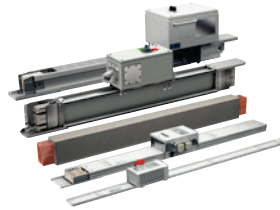
- Reliable, economical, flexible and communication-capable
- For all applications in infrastructure and process industry



[See page 15/14 for the overview](#)

SIVACON 8PS busbar trunking systems

- For economic and reliable power supply
- Space-saving and simple to install
- Low fire load, good electromagnetic compatibility



[See page 16/4 for the overview](#)

ALPHA 3200 power distribution boards

- Compact, space-saving construction
- Perfectly matched to the SENTRON components



[See page 15/16 for the overview](#)

ALPHA 3200 Eco power distribution boards

- **Saves resources:** lower use of copper with centrally positioned busbar
- **Practical:** optimized performance – from the transformer connection via the busbar to the outgoing feeders
- **Modular:** a high packing density in a compact space due to flexible use of ALPHA assembly kits



[See page 15/16 for the overview](#)

ALPHA distribution boards (DIN technology)

- Comprehensive portfolio with wall-mounted and floor-mounted distribution boards for currents between 160 A to 1,250 A



[See page 15/144 for the overview](#)

SIVACON S4 power distribution boards

- Modular system for safe, end-to-end, cost-efficient power distribution up to 4000 A
- System for creating design-verified switchgear assemblies in accordance with IEC 61439
- Flexible application, thanks to a range of installation methods and variable accessories
- Simplified installation and device connection makes assembly faster



[See page 15/18 for the overview](#)

ALPHA UNIVERSAL distribution boards (NF technology)

- Comprehensive portfolio with wall-mounted and floor-mounted distribution boards for currents between 125 A to 800 A
- Easy planning and assembly thanks to modular platform structure



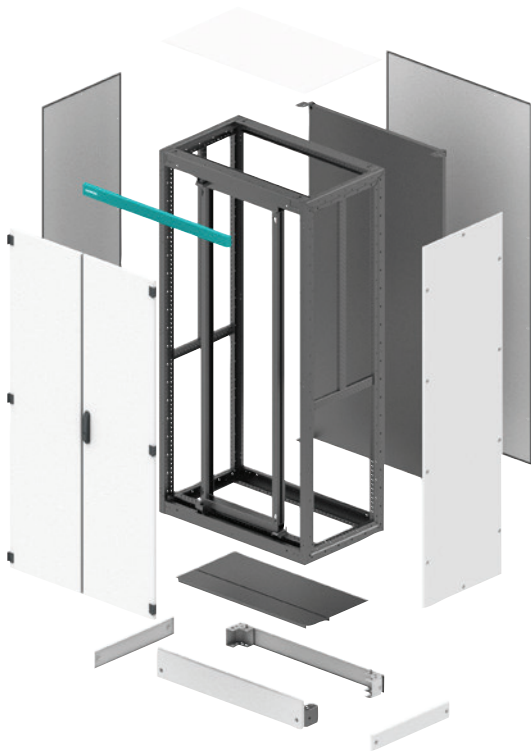
[See page 15/112 for the overview](#)

Control cabinets / System cubicles

For plant engineering, process control, network technology,
secondary systems / energy automation

SIVACON 8MF1 system cubicles

- Modular system
- Fully assembled, adapted according to your specifications, or entirely customized



See page 17/6 for the overview

SIVACON 8MR system air-conditioning

Ensures fault-free operation of the electrical and electronic built-in units installed in the cubicle, even under the harshest ambient conditions.



See page 17/36 for the overview

SIVACON 8MF/8MR system lighting

Offers optimum lighting conditions during installation or maintenance. The LED technology conserves energy and is maintenance-free.



See page 17/34 for the overview

Reliable, versatile and perfectly integrated

All power distribution systems rely on a secure infeed of electrical energy. The 3WL air circuit breakers reliably protect electrical equipment from damage or fire resulting from short circuit, ground fault or overload failures.

The 3WL air circuit breakers are used as incoming-feeder, tie, and outgoing-feeder circuit breakers in electrical installations in industry, buildings and infrastructure applications. They have the ability to communicate and can easily be integrated into higher-level control and energy management systems.

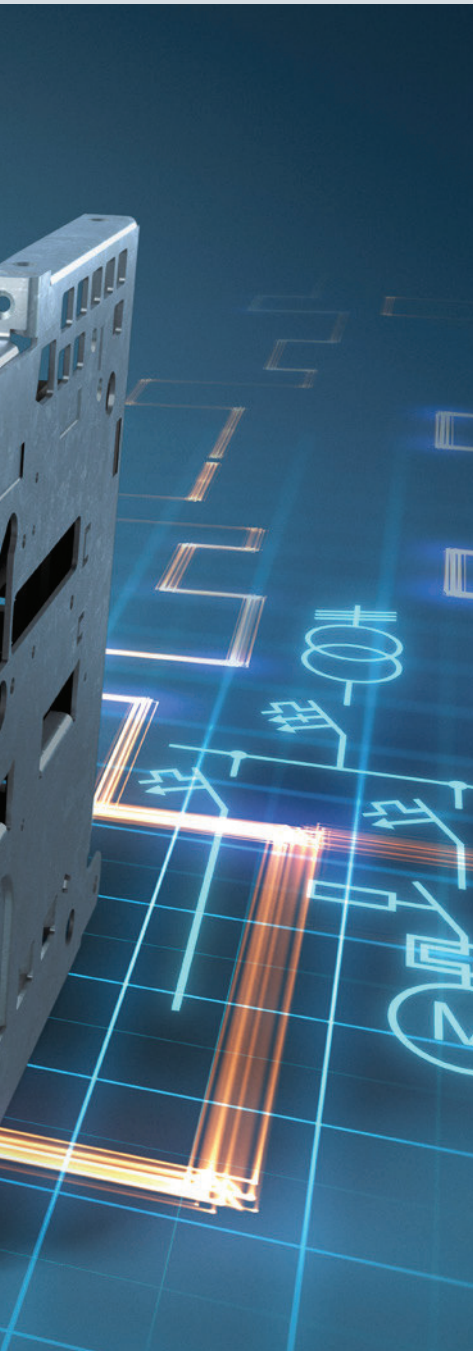
The 3WL air circuit breakers switch and protect motors, capacitors, generators, transformers, busbars and cables. The modular design and standardized range of accessories enable the circuit breakers to be adapted flexibly to different applications. UL 489-compliant versions are available for international use.

The 3WL air circuit breakers can optionally be equipped with a communication module and integrated into higher-level energy management systems. Auxiliary, signaling and position switches report status and fault diagnostics remotely to higher-level control systems.



Air Circuit Breakers

1



| | |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about air circuit breakers, please visit our website
www.siemens.com/3WL

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technical basic information – 3WL air circuit breakers ([109767789](#))
- Quick selection guide – 3WL air circuit breakers ([109751638](#))

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- 3WL air circuit breakers (general)
bit.ly/2ZH1rXH

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Air circuit breakers sie.ag/2IXiZjB

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3WL air circuit breaker at
www.siemens.com/lowvoltage/3wl10-configurator
www.siemens.com/lowvoltage/3wl-configurator

For your configured 3WL air circuit breaker, you can additionally find

- 3D views
- CAD data
- Unit wiring diagrams
- Dimension drawings

... can be found in our online services

Commissioning + operation

Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family.

www.siemens.com/powerconfig

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Protection systems in low-voltage power distribution (WT-LVAPS)
- 3WL air circuit breakers (WT-LVA3WL)
- Communication with SENTRON components (LV-COM)
- Maintenance and operation of 3WL circuit breakers (LV-CBMAIN)

Video tutorial on the 3WL air circuit breaker – descriptive supplement to Operating Instructions

www.lowvoltage.siemens.com/wcms/3wl-tutorial

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – 3WL1 air circuit breakers (35681108)
- Configuration manual – Low-voltage protection devices selectivity tables (109748621)
- System manual – 3WL/3VL circuit breakers with communication capability – Modbus (39850157)
- System manual – 3WL/3VL circuit breakers with communication capability – PROFIBUS (12560390)
- Equipment manual – 3VA27 molded case circuit breakers & 3WL10 air circuit breakers (109753821)
- Communications manual – 3WL air circuit breakers via COM35 – PROFINET IO, Modbus TCP (109757987)
- Communication manual – 3WL10 air circuit breakers & 3VA27 molded case circuit breakers (109760220)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Technical overview – Air circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on air circuit breakers

www.siemens.com/lowvoltage/product-support (109766020)

Basic units for AC and DC

IEC 60947-2

AC



3WL10

3WL11

| Basic data | | 3WL10 | | 3WL11 | | | | |
|--|-------|---------------------------|---------------|---------------------------------|---------------|------------------------------------|-------|----|
| Rated voltage | V | Up to 690 | | Up to 1000 | | | | |
| Rated currents | A | 630 ... 1250 | | 630 ... 2000 | | | | |
| Size | | 0 | | 1 | | | | |
| Installation type | | Withdrawable | Fixed-mounted | Withdrawable | Fixed-mounted | | | |
| Number of poles | | 3/4-pole | 3/4-pole | 3/4-pole | 3/4-pole | | | |
| Dimensions | | | | | | | | |
| Width (3-pole 4-pole) | mm | 278 348 | 210 280 | 320 410 | 320 410 | | | |
| Height (standard) A05, A15, A16, DC greater than 600 V) | mm | 363.5 | 296 | 468 518 | 462 | | | |
| Depth | mm | 271 | 183 | 471 | 357 | | | |
| Approvals | | | | | | | | |
| General product approvals | | VDE, EAC, CCC, CE, C-Tick | | VDE, EAC, CCC, CE, C-Tick | | | | |
| Marine / shipbuilding | | RMRS | | ABS, DNV, LR, BV, GL, PRS, RMRS | | | | |
| Breaking capacity | | B | N | S | N | S | H | |
| Rated short-circuit breaking capacity | | | | | | | | |
| Rated operational voltage U_e up to 415 V AC I_{cu} I_{cs} | kA | 42 42 | 55 50 | 66 50 | 55 55 | 66 66 | 85 85 | |
| Rated operational voltage U_e up to 500 V AC I_{cu} I_{cs} | kA | 42 42 | 50 50 | 50 50 | 55 55 | 66 66 | 85 85 | |
| Rated operational voltage U_e up to 690 V AC I_{cu} I_{cs} | kA | - - | 42 42 | 50 50 | 42 42 | 50 50 | 66 66 | |
| Rated operational voltage up to 690 V AC +20% ⁵⁾ , with Z option: A16 I_{cu} I_{cs} | kA | - - | - - | - - | - - | - - | 50 50 | |
| Rated operational voltage U_e up to 1000 V AC, with Z option: A05 I_{cu} I_{cs} | kA | - - | - - | - - | - - | - - | 50 50 | |
| Rated operational voltage U_e up to 1150 V AC, with Z option: A15 I_{cu} I_{cs} | kA | - - | - - | - - | - - | - - | - - | |
| Rated short-time withstand current I_{cw} ⁵⁾ | | | | | | | | |
| Rated short-time withstand current I_{cw} at U_e up to 500 V AC | 0.5 s | kA | - | - | - | 55 | 66 | 85 |
| | 1 s | kA | 42 | 42 | 50 | 50 | 66 | 85 |
| | 2 s | kA | - | - | - | 35 ¹⁾ /45 ²⁾ | 45 | 70 |
| | 3 s | kA | 24 | 24 | 36 | 35 ¹⁾ /45 ²⁾ | 35 | 60 |
| Rated short-time withstand current I_{cw} at U_e up to 690 V AC | 0.5 s | kA | - | - | - | 42 | 50 | 66 |
| | 1 s | kA | 42 | 42 | 50 | 42 | 50 | 66 |
| | 2 s | kA | - | - | - | 35 ¹⁾ /42 ²⁾ | 45 | 66 |
| | 3 s | kA | 24 | 24 | 36 | 30 ¹⁾ /45 ²⁾ | 35 | 60 |
| Rated short-time withstand current I_{cw} at DC | 1 s | kA | - | - | - | - | - | - |
| Rated conditional short-circuit current I_{cc} of the non-automatic air circuit breakers | | | | | | | | |
| Up to 500 V AC | kA | - | 42 | 50 | 55 | 66 | 85 | |
| Up to 690 V AC | kA | - | 42 | 50 | 42 | 50 | 66 | |
| Up to 1000 V/1150 V AC, with Z option: A05 | kA | - | - | - | - | - | 50/- | |
| Up to 1000 V/1150 V AC, with Z option: A15 | kA | - | - | - | - | - | - | |
| Up to 220 V/300 V DC | kA | - | - | - | - | - | - | |
| Up to 600 V/1000 V DC | kA | - | - | - | - | - | - | |

1) Size 1 with $I_{n\ max.} \leq 1250$ A
 2) Size 1 with $I_{n\ max.} \geq 1600$ A

3) Size 2 with $I_{n\ max.} \leq 2500$ A
 4) Size 2 with $I_{n\ max.} \geq 3200$ A

5) At a rated voltage ≥ 690 V the I_{cw} value of the circuit breaker corresponds with the I_{cu} or I_{cs} value

AC

DC



| 3WL12 | | | | 3WL13 | | | 3WL11 | | 3WL12 | | |
|--|------------------------------------|------------------------------------|-----------------|---|---------|---------------------------|--|-------------------------|--|--------------------------|---------------------------|
| Up to 1150 800 ... 4000 2 | | | | Up to 1150 4000 ... 6300 3 | | | 1000 DC 2000 1 | | Up to 600/1000 DC 1000 ... 4000 2 | | |
| Withdrawable 3/4-pole | | Fixed-mounted 3/4-pole | | Withdrawable 3/4-pole | | Fixed-mounted 3/4-pole | | Fixed-mounted 4-pole | | Withdrawable 3/4-pole | Fixed-mounted 3/4-pole |
| 460 590 | | 460 590 | | 704 914 | | 704 914 | | 410 | | 460 590 | 460 590 |
| 468 518 | | 462 | | 468 518 | | 462 | | 462 | | 468 518 | 462 |
| 471 | | 357 | | 471 | | 357 | | 357 | | 471 | 357 |
| VDE, EAC, CCC, CE, C-Tick ABS, DNV, LR, BV, GL, PRS, RMRS | | | | VDE, EAC, CCC, VDE, CE, C-Tick ABS, DNV, LR, BV, GL, PRS, RMRS | | | VDE, EAC, CCC, CE, C-Tick ABS, DNV, LR, BV, GL, PRS, RMRS | | VDE, EAC, CCC, CE, C-Tick ABS, DNV, LR, BV, GL, PRS, RMRS | | |
| N | S | H | C ⁷⁾ | H | C 3p | C 4p | DC | | DC | | |
| 66 66 | 85 85 | 100 100 | 130 130 | 100 100 | 150 150 | 130 130 | - | | - | | |
| 66 66 | 85 85 | 100 100 | 130 130 | 100 100 | 150 150 | 130 130 | - | | - | | |
| 50 50 | 75 75 | 85 85 | 100 100 | 85 85 | 150 150 | 130 130 | - | | - | | |
| - - | - - | - - | - - | - - | - - | - - | - | | - | | |
| - - | - - | 85 85 | - - | 85 85 | 125 125 | 125 125 | - | | - | | |
| - - | - - | 50 50 | - - | 70 70 | - - | - - | - | | - | | |
| 66 | 85 | 100 | 100 | 100 | 130 | 120 | - | | - | | |
| 66 | 85 | 85 | 100 | 100 | 130 | 120 | - | | - | | |
| 66 | 66 ³⁾ /85 ⁴⁾ | 66 ³⁾ /85 ⁴⁾ | 85 | 100 | 130 | 120 | - | | - | | |
| 55 ³⁾ /66 ⁴⁾ | 55 ³⁾ /75 ⁴⁾ | 55 ³⁾ /75 ⁴⁾ | 75 | 100 | 130 | 120 | - | | - | | |
| 50 | 75 | 85 | 100 | 85 | 130 | 120 | - | | - | | |
| 50 | 75 | 85 | 100 | 85 | 130 | 120 | - | | - | | |
| 50 | 66 ³⁾ /75 ⁴⁾ | 66 ³⁾ /85 ⁴⁾ | 85 | 85 | 130 | 120 | - | | - | | |
| 50 | 55 ³⁾ /75 ⁴⁾ | 55 ³⁾ /75 ⁴⁾ | 75 | 85 | 130 | 120 | - | | - | | |
| - | - | - | - | - | - | - | 20 | | 35 ⁸⁾ /30 ⁹⁾ /25 ¹⁰⁾ /20 ¹¹⁾ | | |
| 66 | 85 | 100 | 130 | 100 | 130 | 120 | - | | - | | |
| 50 | 75 | 85 | 100 | 85 | 130 | 120 | - | | - | | |
| - | - | 85/85 | - | 85/85 | - | - | - | | - | | |
| - | - | -/50 | - | 70/70 | - | - | - | | - | | |
| - | - | - | - | - | - | - | 20/20 | | 35/30 | | |
| - | - | - | - | - | - | - | 20/20 | | 25/20 | | |

Breaking capacity

- B Basic
- N ECO
- S Standard
- H High
- C Very high
- DC DC

⁶⁾ At 690 V AC +5% the $I_{cu} = I_{cs} = 85$ kA
⁷⁾ Up to 3200 A rated current.

⁸⁾ At $U_e = 220$ V DC
⁹⁾ At $U_e = 300$ V DC

¹⁰⁾ At $U_e = 600$ V DC
¹¹⁾ At $U_e = 1000$ V DC

Basic units for AC

IEC 60947-2

1

3WL10



3WL11



| | 630 A | 800 A | 1000 A | 1250 A | 1000 A | 1250 A |
|--|-------|-------|--------|--------|--------|--------|
|--|-------|-------|--------|--------|--------|--------|

| Rated current | | | | | | | | | |
|---|---|------------------|--|--------------------|--------------------|--------------------|--|--------------------|--|
| Isolating function acc. to EN 60947-2 | | | Yes | | | | | | |
| Utilization category | | | B | | | | | | |
| Permissible ambient temperature | During operation (in operation with LCD max. 55 °C) ¹⁾ | °C | -25 ... +70 | | | | -40 ... +70 | | |
| | Storage | °C | -40 ... +70 | | | | -40 ... +80 | | |
| Mounting position | | | | | | | | | |
| Degree of protection | | | IP20 without cabinet door, IP30 with door sealing frame, IP54 with cover | | | | IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover | | |
| Supply | | | | | | | | | |
| Voltage | | | | | | | | | |
| Rated operational voltage U_e at 50/60 Hz | 1000 V version | V AC | Up to 690 | | | | 690/1000 | | |
| Rated insulation voltage U_i | | V AC | 1000 | | | | 1000 | | |
| Rated impulse withstand voltage U_{imp} | Main conducting paths | kV | 12 | | | | 12 | | |
| | Auxiliary circuits | kV | 4 | | | | 4 | | |
| | Control circuits ⁹⁾ | kV | 2.5 | | | | 2.5 | | |
| Rated rotor operational voltage U_{er} | | V | | | | | 2000 | | |
| Permissible load for withdrawable versions ^{2) 4) 10)} | | | | | | | | | |
| At rear horizontal main connections | Up to 55 °C (Cu bare) | A | 630 | 800 | 1000 | 1250 | 1000 | 1250 | |
| | Up to 60 °C (Cu bare) | A | 630 | 800 | 1000 | 1250 | 1000 | 1250 | |
| | Up to 70 °C | A | 630 | 800 | 1000 | 1250 | 1000 ⁸⁾ | 1210 ⁸⁾ | |
| Power loss at I_n | | | | | | | | | |
| With three-phase symmetrical load, complete device (3/4p) | Fixed-mounted circuit breaker | W | 31 | 50 | 78 | 122 | 100 | 105 | |
| | Withdrawable circuit breaker | W | 62 | 100 | 156 | 244 | 195 | 205 | |
| Switching cycles | | | | | | | | | |
| Switching times | | | | | | | | | |
| Make time | | ms | <20 | <20 | <20 | <20 | 35 | | |
| Opening time | | ms | <20 | <20 | <20 | <20 | 38 | | |
| Electrical make time (through closing coil) ⁵⁾ | | ms | <50 | <50 | <50 | <50 | 80 | | |
| Electrical opening time (through shunt trip) | | ms | <35 | <35 | <35 | <35 | 73 | | |
| Electrical opening time (instantaneous undervoltage release) | | ms | <50 | <50 | <50 | <50 | 73 | | |
| Opening time due to ETU, instantaneous short-circuit release | | ms | 25 | 25 | 25 | 25 | 50 | | |
| Service life: Breaking capacity N and S, 3/4-pole | | | | | | | | | |
| Mechanical | Without maintenance | Operating cycles | 20000 | 20000 | 20000 | 20000 | 15000 | 15000 | |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | 25000 | 25000 | |
| Electrical | Without maintenance 440 V | Operating cycles | 8000 ⁷⁾ | 8000 ⁷⁾ | 8000 ⁷⁾ | 8000 ⁷⁾ | – | – | |
| | Without maintenance 690 V | Operating cycles | 8000 ⁷⁾ | 8000 ⁷⁾ | 8000 ⁷⁾ | 6500 ⁷⁾ | 10000 | 10000 | |
| | With maintenance ⁶⁾ | Operating cycles | – ⁷⁾ | – ⁷⁾ | – ⁷⁾ | – ⁷⁾ | 25000 | 25000 | |
| | | | | | | | | | |
| Service life: Breaking capacity H, 3-pole | | | | | | | | | |
| Mechanical | Without maintenance | Operating cycles | – | – | – | – | 10000 | 10000 | |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | 15000 | 15000 | |
| Electrical | Without maintenance 690 V | Operating cycles | – | – | – | – | 7500 | 7500 | |
| | Without maintenance 1000 V, with Z option: A05 | Operating cycles | – | – | – | – | 1000 | 1000 | |
| | Without maintenance 1150 V, with Z option: A15 | Operating cycles | – | – | – | – | – | – | |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | 15000 | 15000 | |
| | | | | | | | | | |

¹⁾ The LCD on the 3WL10 is always active.

²⁾ 4000 A, size 2 in fixed-mounted version, 3-pole

⁴⁾ ETU76B with graphics display can be used up to max. 55 °C.

⁵⁾ Make time through closing coil for synchronization purposes (short-time excited) 50 ms.

⁶⁾ Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual). Greasing the breaker mechanism on the 3WL10, no replacement of components.

3WL11



3WL12



3WL13



1600 A 2000 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3200 A 4000 A 4000 A 5000 A 6300 A

Yes

B

-40 ... +70

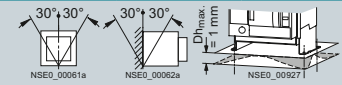
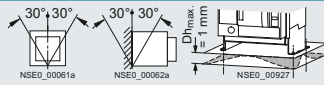
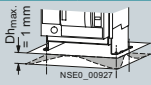
-40 ... +70

-40 ... +70

-40 ... +80

-40 ... +80

-40 ... +80



IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover

690/1000

690/1000

690/1000

1000

1000

1000

12

12

12

4

4

4

2.5

2.5

2.5

2000

2000

2000

| | | | | | | | | | | | | |
|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1600 | 2000 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3200 | 3950 | 4000 | 5000 | 5920 |
| 1600 | 1930 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3020 | 3810 | 4000 | 5000 | 5810 |
| 1490 ⁸⁾ | 1780 ⁸⁾ | 800 ⁸⁾ | 1000 ⁸⁾ | 1250 ⁸⁾ | 1600 ⁸⁾ | 2000 ⁸⁾ | 2280 ⁸⁾ | 2870 ⁸⁾ | 3600 ⁸⁾ | 4000 ⁸⁾ | 5000 ⁸⁾ | 5500 ⁸⁾ |

| | | | | | | | | | | | | |
|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 150 | 240 | 40 | 45 | 80 | 85 | 180 | 270 | 410 | 750 | 520 | 630 | 900 |
| 350 | 440 | 85 | 95 | 165 | 175 | 320 | 520 | 710 | 925 | 810 | 1050 | 1600 |

35

35

35

38

34

34

80

100

100

73

73

73

73

73

73

50

50

50

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|
| 15000 | 15000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | - | - | - |
| 25000 | 25000 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10000 | 10000 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 4000 | 2000 | - | - | - |
| 25000 | 25000 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | 17500 | - | - | - |

| | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 5000 | 5000 | 5000 |
| 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 |
| 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 4000 | 2000 | 2000 | 2000 | 2000 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| - | - | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 |

⁷⁾ Periodic greasing of breaker mechanism on 3WL10 (see Manual), components not to be replaced

⁹⁾ Motorized operating mechanism $U_{imp}=1.2$ kV

¹⁰⁾ For 3WL size 2 4000A and size 3 6300A with rear vertical main connections.

⁸⁾ Cu painted black

Basic units for AC

IEC 60947-2 (continued)

3WL10



3WL11



| | 630 A | 800 A | 1000 A | 1250 A | 1000 A | 1250 A |
|--|-------|-------|--------|--------|--------|--------|
|--|-------|-------|--------|--------|--------|--------|

| Switching cycles | | | 630 A | 800 A | 1000 A | 1250 A | 1000 A | 1250 A |
|--|--|------------------|----------|--|--|---|--|-----------|
| Service life: Breaking capacity H, 4-pole | | | | | | | | |
| Mechanical | Without maintenance | Operating cycles | – | – | – | – | 10000 | 10000 |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | 15000 | 15000 |
| Electrical | Without maintenance 690 V | Operating cycles | – | – | – | – | 7500 | 7500 |
| | Without maintenance 1000 V | Operating cycles | – | – | – | – | 1000 | 1000 |
| | Without maintenance 1150 V ⁷⁾ | Operating cycles | – | – | – | – | – | – |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | 10000 | 10000 |
| Service life: Breaking capacity C | | | | | | | | |
| Mechanical | Without maintenance | Operating cycles | – | – | – | – | – | – |
| | With maintenance ⁶⁾ | Operating cycles | – | – | – | – | – | – |
| Electrical | Without maintenance 690 V | Operating cycles | – | – | – | – | – | – |
| | With maintenance 690 V ⁶⁾ | Operating cycles | – | – | – | – | – | – |
| Switching frequency⁸⁾ | | | | | | | | |
| Mechanical / electrical | 690 V version | 1/h | 60/30 | 60/30 | 60/30 | 60/30 | – | – |
| | 1000 V / 1150 V version | 1/h | – | – | – | – | – | – |
| Connection | | | | | | | | |
| Minimum phase size | | | | | | | | |
| Copper bars, bare | Unit, mm ² | | 2× 40× 5 | 2× 50× 5 | 2× 50× 10 ¹²⁾ 2× 50× 8 ¹³⁾ | 2× 50× 10 ¹²⁾ 2× 50× 8 ¹²⁾ | 1× 60× 10 | 2× 40× 10 |
| Copper bars, painted black | Unit, mm ² | | – | – | – | – | 1× 60× 10 | 2× 40× 10 |
| Auxiliary conductor (Cu) max. number of auxiliary conductors × cross-section (solid/stranded) | | | | | | | | |
| Standard connection = screw | Without end sleeve | | | | – | | 2× 0.5 ... 2× 1.5 mm ² (AWG 20 ... 16); 1× 2.5 mm ² (AWG 14) | |
| | With end sleeve acc. to DIN 46228 Part 2 | | | | – | | 1× 0.5 ... 1× 1.5 mm ² (AWG 20 ... 16) | |
| | With twin end sleeve | | | | – | | 2× 0.5 ... 2× 1.5 mm ² (AWG 20 ... 16) | |
| Screwless connection technology | Without end sleeve | | | 0.5 ... 2.5 mm ² (AWG 20 ... 14) | | | 2× 0.5 ... 2× 2.5 mm ² (AWG 20 ... 14) | |
| | With end sleeve acc. to DIN 46228 Part 2 | | | 0.5 ... 1.5 mm ² (AWG 20 ... 16) | | | 2× 0.5 ... 2× 1.5 mm ² (AWG 20 ... 16) | |
| Position signaling switches | | | | | | | | |
| Screwless connection technology | | | | | 1× 0.5 ... 1× 2.5 mm ² (AWG 20 ... 14) | | 1× 0.5 ... 1× 2.5 mm ² (AWG 20 ... 14) | |
| Weights | | | | | | | | |
| 3-pole | Fixed-mounted circuit breaker | kg | | | 14 | | 43 | 43 |
| | Withdrawable circuit breaker | kg | | | 17.3 | | 45 | 45 |
| | Guide frames | kg | | | 21 | | 25 | 25 |
| 4-pole | Fixed-mounted circuit breaker | kg | | | 16 | | 50 | 50 |
| | Withdrawable circuit breaker | kg | | | 19.3 | | 54 | 54 |
| | Guide frames | kg | | | 25 | | 30 | 30 |

⁶⁾ Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual).

⁷⁾ Size 2 with order code "A15" and size 3. Data for very high breaking capacity.

⁸⁾ Minimum interval time between 2 tripping operations
⁹⁾ 3-pole switching with breaking capacity N and S: 45/h.

3WL11



3WL12



3WL13



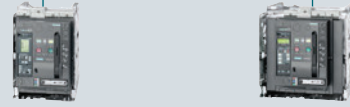
| 1600 A | | 2000 A | | 800 A | | 1000 A | | 1250 A | | 1600 A | | 2000 A | | 2500 A | | 3200 A | | 4000 A | | 4000 A | | 5000 A | | 6300 A | |
|--|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|
| 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 |
| 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 7500 | 4000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| – | – | – | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| 10000 | 10000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 |
| – | – | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | – | 5000 | 5000 | 5000 | 5000 | 5000 |
| – | – | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | – | 10000 | 10000 | 10000 | 10000 | 10000 |
| – | – | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | 5000 | – | 1000 | 1000 | 1000 | 1000 | 1000 |
| – | – | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | 10000 | – | – | – | – | – | – |
| – | 20/20 | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | 60/60 ¹²⁾ | |
| – | – | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 | 20/20 |
| 2x 50x10 | 3x 50x10 | 1x 50x10 | 1x 60x10 | 2x 40x10 | 2x 50x10 | 3x 50x10 | 2x 100x10 | 3x 100x10 | 4x 120x10 | 4x 100x10 | 6x 100x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | |
| 2x 50x10 | 3x 50x10 | 1x 50x10 | 1x 60x10 | 2x 40x10 | 2x 50x10 | 3x 50x10 | 2x 100x10 | 3x 100x10 | 4x 100x10 | 4x 100x10 | 6x 100x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | 6x 120x10 | |
| 2x 0.5 ... 2x 1.5 mm ² (AWG 20 ... 16); 1x 2.5 mm ² (AWG 14) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1x 0.5 ... 1x 1.5 mm ² (AWG 20 ... 16) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2x 0.5 ... 2x 1.5 mm ² (AWG 20 ... 16) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2x 0.5 ... 2x 2.5 mm ² (AWG 20 ... 14) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2x 0.5 ... 2x 1.5 mm ² (AWG 20 ... 16) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1x 0.5 ... 1x 2.5 mm ² (AWG 20 ... 14) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 43 | 56 | 56 | 56 | 56 | 56 | 59 | 64 | 85 | 82 | 82 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | |
| 45 | 45 | 60 | 60 | 60 | 60 | 60 | 63 | 68 | 121 | 88 | 88 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | |
| 25 | 25 | 31 | 31 | 31 | 31 | 31 | 39 | 45 | 52 | 60 | 60 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | |
| 50 | 50 | 67 | 67 | 67 | 67 | 67 | 71 | 77 | 103 | 99 | 99 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | |
| 54 | 54 | 72 | 72 | 72 | 72 | 72 | 76 | 82 | 146 | 106 | 106 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | |
| 30 | 30 | 37 | 37 | 37 | 37 | 37 | 47 | 54 | 62 | 84 | 84 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | |

¹²⁾ Horizontal
¹³⁾ Vertical

Basic units for DC

IEC 60947-2

3WL11 3WL12



2000 A 1000 A 2000 A 4000 A

| Rated current | | 1 | | 2 | | |
|--|--------------------------------|--|-------|-------------|-------|-------|
| Size | | 1 | | 2 | | |
| Isolating function acc. to EN 60947-2 | | Yes | | | | |
| Utilization category | | B | | | | |
| Permissible ambient temperature | Operation | °C | | -40 ... +70 | | |
| | Storage | °C | | -40 ... +80 | | |
| Mounting position | | | | | | |
| Degree of protection | | IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover | | | | |
| Supply | | | | | | |
| Voltage | | | | | | |
| Rated operational voltage U_e at 50/60 Hz | 1000 V version | V DC | 1000 | 600/1000 | | |
| Rated insulation voltage U_i | | V DC | 1000 | 1000 | | |
| Rated impulse withstand voltage U_{imp} | Main conducting paths | kV | 12 | 12 | | |
| | Auxiliary circuits | kV | 4 | 4 | | |
| | Control circuits | kV | 2.5 | 2.5 | | |
| Permissible load | | | | | | |
| At rear horizontal main connections | Up to 40 °C (Cu black painted) | A | 2000 | 1000 | 2000 | 4000 |
| | Up to 55 °C (Cu black painted) | A | 1910 | 1000 | 2000 | 3640 |
| | Up to 60 °C (Cu black painted) | A | 1850 | 1000 | 2000 | 3500 |
| | Up to 70 °C (Cu black painted) | A | 1710 | 1000 | 1950 | 3250 |
| Power loss at I_n | | | | | | |
| With symmetrical load | Withdrawable circuit breaker | W | 150 | 280 | 770 | 1640 |
| Switching cycles | | | | | | |
| Switching times | | | | | | |
| Make time | | ms | 35 | 35 | | |
| Opening time | | ms | 38 | 34 | | |
| Electrical make time (through activation solenoid) ¹⁾ | | ms | 100 | 100 | | |
| Electrical opening time (through shunt trip) | | ms | 73 | 73 | | |
| Electrical opening time (instantaneous undervoltage release) | | ms | 73 | 73 | | |
| Endurance³⁾ | | | | | | |
| Mechanical | Without maintenance | Operating cycles | 10000 | 10000 | 10000 | 10000 |
| | With maintenance ²⁾ | Operating cycles | 15000 | 17500 | 17500 | 17500 |
| Electrical | Without maintenance | Operating cycles | 1000 | 6000 | 6000 | 4000 |
| | Without maintenance 1000 V | Operating cycles | 1000 | 1000 | 1000 | 1000 |
| | With maintenance ²⁾ | Operating cycles | 2000 | 17500 | 17500 | 17500 |
| | | | | | | |

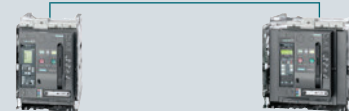
¹⁾ Make time through activation solenoid for synchronization purposes (short-time excited) 50 ms.

²⁾ Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).

³⁾ Further technical specifications on request.

⁴⁾ At $U_e = 220$ V DC

3WL11 3WL12



2000 A 1000 A 2000 A 4000 A

| Breaking capacity | | | | | | |
|--|--|---|----|---|----|----|
| Short-circuit breaking capacity I_{cc} | | | | | | |
| Up to 220 V DC | kA | 20 | | 35 | | |
| Up to 300 V DC | kA | 20 | | 30 | | |
| Up to 600 V DC | kA | 20 | | 25 | | |
| Up to 1000 V DC | kA | 20 | | 20 | | |
| Rated short-time withstand current I_{cw} | | | | | | |
| 0.5 s | kA | – | | – | | |
| 1 s | kA | 20 | | 35 ⁴⁾ / 30 ⁵⁾ / 25 ⁶⁾ / 20 ⁷⁾ | | |
| 2 s | kA | – | | – | | |
| 3 s | kA | – | | – | | |
| Breaking capacity | | | | | | |
| Switching frequency | | | | | | |
| 690 V version | 1/h | – | 60 | 60 | 60 | |
| 1000 V version | 1/h | 20 | 20 | 20 | 20 | |
| Connection | | | | | | |
| Auxiliary conductor (Cu) max. number of auxiliary conductors × cross-section (solid/stranded) | | | | | | |
| Standard connection = strain-relief clamp | Without end sleeve | 2 × 0.5 ... 2 × 1.5 mm ² (AWG 20 ... 16); 1 × 2.5 mm ² (AWG 14) | | | | |
| | With end sleeve acc. to DIN 46228 Part 2 | 1 × 0.5 ... 1 × 1.5 mm ² (AWG 20 ... 16) | | | | |
| | With twin end sleeve | 2 × 0.5 ... 2 × 1.5 mm ² (AWG 20 ... 16) | | | | |
| Optional connection = tension spring | Without end sleeve | 2 × 0.5 ... 2 × 2.5 mm ² (AWG 20 ... 14) | | | | |
| | With end sleeve acc. to DIN 46228 Part 2 | 2 × 0.5 ... 2 × 1.5 mm ² (AWG 20 ... 16) | | | | |
| Weights | | | | | | |
| 3-pole | Fixed-mounted circuit breaker | kg | 43 | 56 | 56 | 64 |
| | Withdrawable circuit breaker | kg | – | 60 | 60 | 68 |
| | Guide frames | kg | – | 31 | 31 | 45 |
| 4-pole | Fixed-mounted circuit breaker | kg | 50 | 67 | 67 | 77 |
| | Withdrawable circuit breaker | kg | – | 72 | 72 | 82 |
| | Guide frames | kg | – | 37 | 37 | 54 |

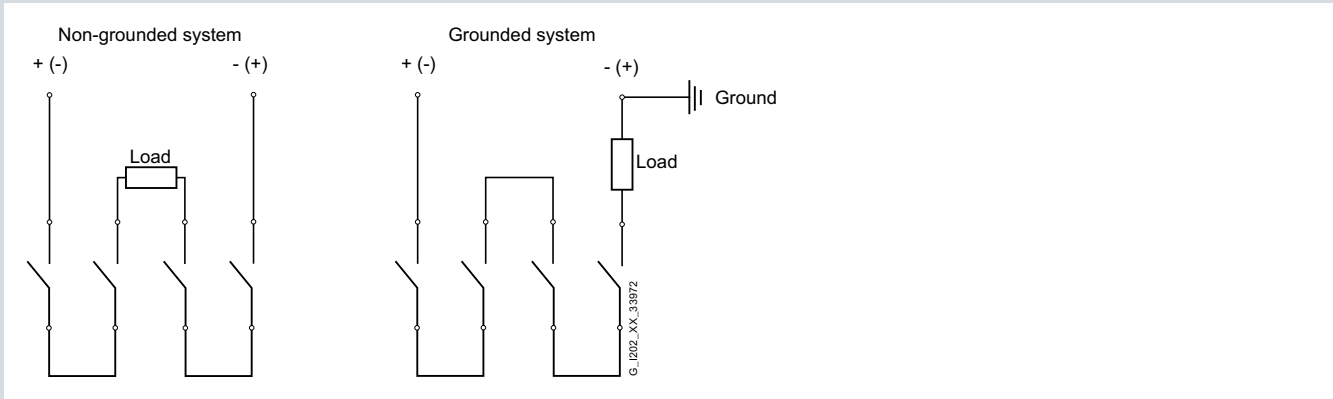
⁵⁾ At $U_e = 300$ V DC⁷⁾ At $U_e = 1000$ V DC.⁶⁾ At $U_e = 600$ V DC

Basic units for DC

Application examples size 1

Permissible interconnection circuit diagrams for size 1,
1000 V DC non-automatic air circuit breakers

1



Application examples size 2

The connection to the circuit breakers is not dependent on direction and polarity; the circuit diagrams can be adapted accordingly. If the parallel or series connections are made directly to the connecting bars, for thermal reasons the continuous load on the circuit breakers must only be 80% of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.

1

| Required contact gaps at rated voltage | For 3-pole non-automatic air circuit breakers | | For 4-pole non-automatic air circuit breakers | |
|--|---|--|--|---|
| | 1-pole | 2-pole | 1-pole | 2-pole |
| Rated operational voltage <300 V + 10% | | <small>NSS0_00539</small> only with grounded system ²⁾ | only with grounded system ³⁾ | only with grounded system ³⁾ |
| Rated operational voltage >300 V + 10% ... 600 V + 10% | | only with grounded system | only with grounded system ²⁾ | only with grounded system ²⁾ |
| Rated operational voltage >600 V + 10% ... 1000 V + 10%⁴⁾ | | only with grounded system | <small>NSS0_00595</small> only with grounded system | only with grounded system |

¹⁾ Conducting paths series-connected
²⁾ 2 parallel conducting paths
³⁾ 3 parallel conducting paths
⁴⁾ Version for 1000 V required, order with "-Z" and order code A05
 Grounded system
 Load

Electronic trip unit ETU

With watchdog monitoring

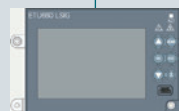
3WL10



| | | ETU320 (LI) | ETU350 (LSI) | ETU360 (LSIG) |
|---|--|--|--|---|
| Basic protection functions | | | | |
| L Overload protection (L tripping operation) | Setting range of operating value $I_r = I_n \times \dots$ | 0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4 | 0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4 | 0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4 |
| | Switchable overload protection (from I^2t - to I^4t -dependent function) | – | – | – |
| | Setting range of delay t_r at I^2t (Reference point $6 \times I_n$) | 0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s | 0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s | 0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s |
| | Setting range of delay t_r at I^4t (Reference point $6 \times I_n$) | – | – | – |
| | Thermal memory can be switched on/off | Permanently switched on | Permanently switched on | Permanently switched on |
| | Phase failure sensitivity / asymmetry | – | – | – |
| S Short-time delay short-circuit protection (ST tripping) | Setting range of operating value $I_{sd} = I_n \times \dots$ | – | 1 1.5 2 2.5 3 4 6 8 10 Default OFF | 1 1.5 2 2.5 3 4 6 8 10 Default OFF |
| | Setting range of delay time t_{sd} at I^2t | – | 0.1 0.2 0.3 0.4 0.5 (Ref. $10 \times I_n$) | 0.1 0.2 0.3 0.4 0.5 (Ref. $10 \times I_n$) |
| | Setting range of delay time t_{sd} ($t = \text{const.}$) | – | 0.08 0.15 0.22 0.3 0.4 s | 0.08 0.15 0.22 0.3 0.4 s |
| | ZSI function | – | – | – |
| I Instantaneous short-circuit protection (INST tripping operation) | Setting range $2 = I_n \times \dots$ | OFF 1.5 2 3 4 6 8 10 12 15 | OFF 1.5 2 3 4 6 8 10 12 15 | OFF 1.5 2 3 4 6 8 10 12 15 |
| N Neutral conductor protection | Neutral conductor setting range $I_N = I_n \times \dots$ | OFF 50% 100% 200% | OFF 50% 100% 200% | OFF 50% 100% 200% |
| G Ground-fault tripping (GF tripping) Detection of ground-fault current through summation current formation with internal or external N conductor transformer | Tripping function can be switched on/off | – | – | ■ |
| | Alarm function can be switched on/off | – | – | Permanently switched on |
| | Detection of ground-fault current through external current transformer | – | – | – |
| | Setting range of the operating current $I_g = I_n \times \dots$ | – | – | 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 1 |
| | Setting range of the operating current I_g for alarm | – | – | – |
| | Setting range of the delay time t_g | – | – | 0.1 0.2 0.4 0.6 0.8 s (fixed delay) |
| | Switchable grounding protection characteristic (I^2t -dependent function) | – | – | $t = \text{const.} / I^2t$ Default I^2t |
| | Setting range of delay time t_g at I^2t | – | – | 0.1 0.2 0.4 0.6 0.8 s (Ref. $2 \times I_n$) (I^2t dependent) Default 0.1 (I^2t) |
| ZSI-G function | – | – | – | |

¹⁾ Sizes 1 and 2 / size 3

3WL10



3WL11 – 3WL13



| ETU650 (LSI) | ETU660 (LSIG) | ETU15B (LI) | ETU25B (LSI) | ETU27B (LSIG) | ETU45B (LSIG) | ETU76B (LSIG) |
|---|--|---|--|--|--|---|
| 0.4 ... 1 Default 1 (in steps of 0.001) | 0.4 ... 1 Default 1 (in steps of 0.001) | 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 1 | 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1 | 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1 | 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1 | 0.4 ... 1 |
| ■ | ■ | – | – | – | ■ | ■ |
| 0.75 ... 36 s (in steps of 0.25 s) Default 36 s | 0.75 ... 36 s (in steps of 0.25 s) Default 36 s | 10 s fixed | 10 s fixed | 10 s fixed | 2 3.5 5.5 8 10 14 17 21 25 30 s | 2 ... 30 s |
| 0.75 ... 5 s (in steps of 0.25 s) Default 5 s | 0.75 ... 5 s (in steps of 0.25 s) Default 5 s | – | – | – | 1 2 3 4 5 s | 1 ... 5 s |
| ■ | ■ | – | – | – | ■ | ■ |
| 2% ... 90% (default 50%) | 2% ... 90% (default 50%) | – | At $t_{sd} = 20$ ms (M) | At $t_{sd} = 20$ ms (M) | At $t_{sd} = 20$ ms (M) | ■ (on/off) |
| 0.6 ... 10 OFF (in steps of 0.1) | 0.6 ... 10 OFF (in steps of 0.1) | – | 1.25 1.5 2 2.5 3 4 6 8 10 12 | 1.25 1.5 2 2.5 3 4 6 8 10 12 | 1.25 1.5 2 2.5 3 4 6 8 10 12 OFF | 1.25 × I_n ... 0.8 × I_{cw} OFF |
| 0.05 ... 0.5 s (Ref. 10 × I_n) | 0.05 ... 0.5 s (Ref. 10 × I_n) | – | – | – | 100 200 300 400 ms | 100 ... 400 ms |
| 0.05 ... 0.4 s | 0.05 ... 0.4 s | – | M (0.02 ms) 100 200 300 400 ms | M (0.02 ms) 100 200 300 400 ms | M (0.02 ms) 100 200 300 400 ms | M (0.02 ms) 80 ... 4000 ms |
| – | – | – | – | – | by CubicleBUS module | by CubicleBUS module |
| OFF 1.5 ... 15 (in steps of 0.1) | OFF 1.5 ... 15 (in steps of 0.1) | 2 3 4 5 6 7 8 | Fixed at $2 \geq 20 \times I_{nr}$ max. 50 kA | Fixed at $2 \geq 20 \times I_{nr}$ max. 50 kA | OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I_{cs} | OFF 1.5 × I_n ... 0.8 × I_{cs} |
| OFF 50% 100% 150% 200% | OFF 50% 100% 200% | – | – | 100% | OFF 50% 100% | OFF 20% ... 200% |
| – | ■ | – | – | ■ | ■ | ■ |
| – | ■ | – | – | – | – | ■ |
| – | Alternative Rc or G-ret ground-fault monitoring | – | – | – | ■ | ■ |
| – | 0.1 ... 1 (in steps of 0.001) $I_g = I_n \times$ | – | – | A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) | A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) | SZ 1, 2: 100 ... 1200 A SZ 3: 400 ... 1200 A |
| – | 50% ... 90% × I_n (in steps of 1%) PreAlarm | – | – | – | A ¹⁾ (100/400 A); B ¹⁾ (300/600 A); C ¹⁾ (600/800 A); D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A) | SZ 1, 2: 100 ... 1200 A SZ 3: 400 ... 1200 A |
| – | 0.1 ... 1 s Default 0.1 s (in steps of 0.05 s) | – | – | 100 200 300 400 500 ms | 100 200 300 400 500 ms | 100 ... 500 ms |
| – | t = const./I ² t Default const. | – | – | – | ■ | ■ |
| – | 0.1 ... 1 s (in steps of 0.05 s) (Ref. 2 × I_n) | – | – | – | 100 200 300 400 500 ms | 100 ... 500 ms |
| – | – | – | – | – | by CubicleBUS module | by CubicleBUS module |

Electronic trip unit ETU

With watchdog monitoring (continued)

3WL10



| | | ETU320 (LI) | ETU350 (LSI) | ETU360 (LSIG) |
|---|--|-------------|--------------|---------------|
| Parameter set changeover | Switchable between parameter set A and B | – | – | – |
| LCD | | – | – | – |
| Voltage tap on top/bottom | | – | – | – |
| Metering function | | – | – | – |
| Tripping operation as a result of extended protection function: (including: phase asymmetry current/voltage, harmonic distortion current/voltage, under/overvoltage, phase rotation direction, active power in/opposite to normal direction, under/over-frequency, protection functions dependent on direction of power flow) | | – | – | – |
| Mode of communication | | | | |
| Communication PROFIBUS PROFINET Modbus RTU Modbus TCP | | – | – | – |
| Output modules | | | | |
| Signals via relay: Overload warning, load shedding / load carrying, leading signal, overload tripping 200 ms, temperature alarm, phase asymmetry, instantaneous short-circuit release, short time-delayed short-circuit release, overload trip, neutral conductor trip, auxiliary relay, ETU faults, grounding protection tripping and grounding protection alarm (only with grounding protection module) | | IOM300 | IOM300 | IOM300 |

Increment size when settings are made for the ETU76B using the menu

| From ... to | Increment size |
|----------------|----------------|
| 0 ... 1 | 0.1 |
| 1 ... 100 | 1 |
| 100 ... 500 | 5 |
| 500 ... 1000 | 10 |
| 1000 ... 1600 | 50 |
| 1600 ... 10000 | 100 |
| 10000 ... max. | 1000 |

3WL10



3WL11 – 3WL13



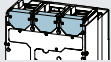
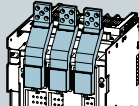
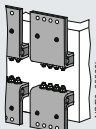
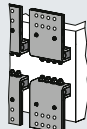
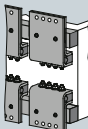
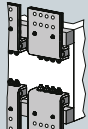
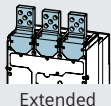
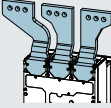
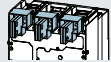
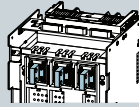
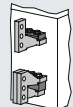
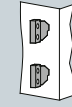
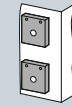
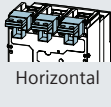
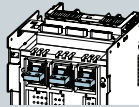
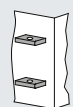
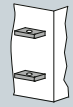
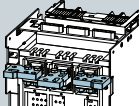
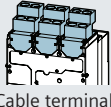
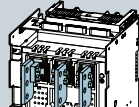
1

| ETU650 (LSI) | ETU660 (LSIG) | ETU15B (LI) | ETU25B (LSI) | ETU27B (LSIG) | ETU45B (LSIG) | ETU76B (LSIG) |
|----------------|----------------|-------------|--------------|---------------|------------------------|------------------------|
| ■ | ■ | – | – | – | – | ■ |
| Integrated | Integrated | – | – | – | Optional | Integrated |
| Optional | Optional | – | – | – | Optional | Optional |
| Basic/Advanced | Basic/Advanced | – | – | – | Metering function Plus | Metering function Plus |
| ■ | ■ | – | – | – | ■ | ■ |
| ■ | ■ | – | – | – | ■ | ■ |
| IOM040/IOM300 | IOM040/IOM300 | – | – | – | ■ | ■ |

Connection

Main circuit connection

1

| Connection | 3WL10 | | 3WL11 – 3WL13 | | | |
|------------|---|---|---|---|---|---|
| | Fixed-mounted | Withdrawable | Fixed-mounted | | Withdrawable | |
| Front |  Direct |  Extended |  1-hole |  2-hole |  1-hole |  2-hole |
| |  Extended | | | | | |
| |  Broadened | | | | | |
| Rear |  Vertical |  Vertical |  Vertical | |  Vertical |  Flanges |
| |  Horizontal |  Horizontal |  Horizontal | |  Horizontal | |
| | |  Broadened | | | | |
| cable |  Cable terminals |  Cable lug | | | | |

Auxiliary circuit connections

3WL 10: Withdrawable / fixed-mounted version

- Direct engagement of the auxiliary conductor vertically onto the circuit breaker or horizontally in the guide frame



Screwless connection technology (push in)

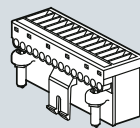
3WL11 – 3WL13: Withdrawable version

- Connection of the internal auxiliary switches to the male connector on the switch side
- When fully inserted, connection with the sliding contact module in the guide frame

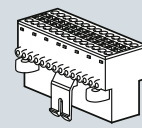
3WL11 – 3WL13: Fixed-mounted version

- Engagement of the auxiliary supply connectors directly onto the circuit breaker

Coding pins on the connectors prevent them being inserted in the wrong slots



Screw connection (SIGUT) (standard)



Screwless connection (tension spring) (optional)

Operating mechanism, auxiliary release, auxiliary switch

Operating mechanism

The circuit breakers are available with various optional operating mechanisms:

- Manual operating mechanism with mechanical closing (standard design)
- Manual operating mechanism with mechanical and electrical closing
- Motorized operating mechanism with mechanical and electrical closing

The operating mechanisms with electrical closing are suitable for synchronization tasks.

| | Available for air circuit breakers | |
|--|------------------------------------|---------------|
| | 3WL10 | 3WL11 – 3WL13 |
| Closing coils (CC) | ■ | ■ |
| Undervoltage releases (UVR) / shunt trips (ST) | ■ | ■ |
| Shunt trips (ST) | ■ | ■ |
| Remote reset magnets (RR) | ■ | ■ |
| Spring charging motor (MO) | ■ | ■ |
| Mechanical operating cycles counters | ■ | ■ |

3WL10 system overview

IEC AC ..

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

1

Basic units



Size 0

Trip units



Electronic trip units ETU (LI, LSI, LSIG)



Electronic trip units ETU (LSI, LSIG)

Accessories



Communication and I/O modules



Rating plugs



Breaker Connect modules



Metering function (Basic/Advanced)



External ground fault transformers

Main conductor connections



Fixed-mounted, withdrawable versions



Rear vertical/horizontal connections



Front connections



Front connections, extended



Terminals for CU/AL cable connection

Motors



Spring charging motor

Accessories



Remote reset magnets



Mechanical operating cycles counters

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Auxiliary releases / closing coils



Shunt trips, undervoltage releases



Closing coils

Auxiliary switches and signaling switches



Auxiliary, alarm, and signaling switches



Position signaling switches

Interlocking



Interlocking sets



Locking devices



Locking mechanisms



Door sealing frames



Protective covers

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Online configurator highlights

www.siemens.com/lowvoltage/configurators

Search function with global direct input

Searches for specific terms and jumps to MLFB based on input to the correct configurator



Log in Additional actions Support Language

Configurators for Low-voltage List of products

Search for (e.g. 3WL1110-4EB36-6EQ8-Z A05+R0...)

1 Select Type of Product 2 Select Category

1

Product list stores multiple configurations and can transfer them collectively to the shopping cart

List of products

Projectdata Load product list

Actions

| No. | Article | Quantity | Unit price: | Documents |
|-----|---|------------|-------------|----------------------------|
| 1 | 3WL1106-2EB62-1AA2 Fixed-mounted circuit breaker 3-pole, Size 1, IEC In=630 A to 690 V, 50/60 Hz AC Icu=55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt.... Further details | 1 Piece | on request | all documents for position |
| 2 | 3VA2450-6KP32-0AA0 3VA molded case circuit breaker circuit breaker 3VA2 IEC frame 630 breaking capacity class H Icu=85kA @ 415V 3-pole, line protection ETU850, LSI, In=500A overload protection Ir=200A...500A short-circuit protection Ibd=0.6...10x In,... Further details | 1 Piece | on request | all documents for position |

Recall of completed configurations for modification or additional configuration

List of products

Projectdata Load product list

Actions

| No. | Article | Quantity | Unit price: | Documents |
|-----|---|------------|-------------|----------------------------|
| 1 | 3WL1106-2EB62-1AA2 Fixed-mounted circuit breaker 3-pole, Size 1, IEC In=630 A to 690 V, 50/60 Hz AC Icu=55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt.... Further details | 1 Piece | on request | all documents for position |
| 2 | 3VA2450-6KP32-0AA0 3VA molded case circuit breaker circuit breaker 3VA2 IEC frame 630 breaking capacity class H Icu=85kA @ 415V 3-pole, line protection ETU850, LSI, In=500A overload protection Ir=200A...500A short-circuit protection Ibd=0.6...10x In,... Further details | 1 Piece | on request | all documents for position |

Duplicate Configure

Responsive Design



Log in Additional actions Support Language

Configurators for Low-voltage List of products

Search for (e.g. 3WL1110-4EB36-6EQ8-Z A05+R0...)

1 Select Type of Prod... 2 Select Category



www.siemens.com/lowvoltage/3wl10-configurator

Download an ePlan Selector for 3WL10

Mouseover display of characteristic curves to show the protection function

| Choose value... | Trip units | Protective function | Communication capability | Metering capability | Display |
|-----------------|-----------------------|---------------------|--------------------------|---------------------|---------|
| | Non-automatic breaker | - | - | - | - |
| | ETU120 | LF | - | - | - |
| | ETU250 | LF | - | - | - |
| | ETU360 | LF | - | - | - |
| | ETU450 | LF | yes | yes | yes |
| | ETU460 | LF | yes | yes | yes |

Direct entry of an already known MLFB or parts of an MLFB

3WL Air Circuit Breakers

Product Information | **Configurators**

Select a Configurator: 3WL10 Air Circuit-Breakers, F50

3WL10 Air Circuit-Breakers, F50

Selection - Tool for air circuit breakers (ACB) SENTRON 3WL10 from 630 A to 1250 A

- for selective line protection
- for motor protection
- non-automatic circuit breaker

Using this configurator, you can precisely select the optimum circuit breaker configuration for your application. Comprehensive CAX-data support of the device is provided after successful configuration.

MLFB direct input (complete): Start

1

Structure of the article numbers

Basic configuration

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|---|----------------------------|------------------------------|---|---|----|----|----|----|----|----|----|
| | | 3WL10 | | - | | | | | | | | |
| Basic unit and ETU | | | | | | | | | | | | |
| Max. rated current | 630 A | 0 | 6 | | | | | | | | | |
| I_n | 800 A | 0 | 8 | | | | | | | | | |
| | 1000 A | 1 | 0 | | | | | | | | | |
| | 1250 A | 1 | 2 | | | | | | | | | |
| Short-circuit breaking capacity I_{cu} at 415 V | B Basic (42 kA) | | | 1 | | | | | | | | |
| | N ECO (55 kA) | | | 2 | | | | | | | | |
| | S Standard (66 kA) | | | 3 | | | | | | | | |
| Non-automatic air circuit breakers | Without metering function, without a communication link | | | | A | A | | | | | | |
| Circuit breakers, ETU 3-series | Without metering function, without a communication link | With trip unit | ETU320 LI (N) ¹⁾ | | A | B | | | | | | |
| | | | ETU350 LSI (N) ¹⁾ | | A | C | | | | | | |
| | | | ETU360 LSI (N) ¹⁾ | | A | D | | | | | | |
| Circuit breakers, ETU 6-series | With trip unit | | ETU650 (LSI) | | | E | | | | | | |
| | | | ETU660 (LSIG) | | | F | | | | | | |
| | Without a communication link | Without metering function | | | | A | | | | | | |
| | | With a communication link | | | | | B | | | | | |
| | With a communication link | Without metering function | | | | | B | | | | | |
| | | Metering function Basic | Voltage tap on bottom | | | | C | | | | | |
| | | Metering function Advanced | Voltage tap on top | | | | D | | | | | |
| | Metering function Basic | Voltage tap on top | | | | D | | | | | | |
| | Metering function Advanced | Voltage tap on bottom | | | | E | | | | | | |
| | Metering function Advanced | Voltage tap on top | | | | F | | | | | | |
| Number of poles | Fixed-mounted versions | 3-pole | | | | | | 0 | | | | |
| | | 4-pole | Neutral left | | | | | 1 | | | | |
| | | Neutral right | | | | | | 2 | | | | |
| | Withdrawable | 3-pole | | | | | | | 3 | | | |
| | | 4-pole | Neutral left | | | | | | 4 | | | |
| | Neutral right | | | | | | | 5 | | | | |

¹⁾ Neutral conductor protection for 3-pole breakers with an external neutral conductor transformer or 4-pole breakers

Connection²⁾

| | | | |
|--------------------------|------------------------|---|---|
| Installation type | Withdrawable | Without frame | 0 |
| | | Rear vertical connection | 1 |
| | | Rear horizontal connection | 2 |
| | | Adapter for compression lug connection (rear) | 4 |
| | | Front-accessible, extended terminal for main circuit connection | 5 |
| | Fixed-mounted versions | Rear vertical connection | 1 |
| | | Rear horizontal connection | 2 |
| | | Front terminal for main circuit connection | 3 |
| | | Circular conductor terminals (front) | 4 |
| | | Front-accessible, extended terminal for main circuit connection | 5 |

²⁾ Broadened connections available as accessories.

3WL10

| | | | | | | | | | | |
|---|---|---|---|----|----|----|----|----|----|----|
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|----|----|----|----|----|----|----|

Motor

| | | | |
|-----------------------------|----------------------------|-------------------|---|
| Operating mechanisms | Manual operating mechanism | | 0 |
| | Spring charging motor | 24 ... 30 V AC/DC | 1 |
| | | 48 ... 60 V AC/DC | 2 |
| | | 110 V AC/DC | 3 |
| | | 230 V AC/DC | 4 |

Auxiliary releases, closing coils

| | | | |
|--|---|---------------------|---|
| Closing coil (CC), remote reset magnet (RR) | Without closing coil (CC), without remote reset magnet (RR) | | A |
| | Closing coils (CC) | 24 V AC/DC | B |
| | | 30 V AC/DC | C |
| | | 48 V AC/DC | D |
| | | 60 V AC/DC | E |
| | | 110 ... 120 V AC/DC | F |
| | | 120 ... 127 V AC/DC | G |
| | | 220 ... 240 V AC/DC | H |
| | | 240 ... 250 V AC/DC | J |
| | Closing coil (CC) and additionally a remote reset magnet (RR) | 24 V AC/DC | K |
| | | 110 V AC/DC | L |
| | | 220 V AC/DC | M |

| | | | | |
|------------------------------|---------------------------------|--|---------------------|---|
| 2nd auxiliary release | Without 2nd auxiliary release | | A | |
| | With undervoltage release (UVR) | 24 V AC/DC | B | |
| | | 30 V AC/DC | C | |
| | | 48 V AC/DC | D | |
| | | 60 V AC/DC | E | |
| | | 110 ... 120 V AC/DC | F | |
| | | 120 ... 127 V AC/DC | G | |
| | | 220 ... 240 V AC/DC | H | |
| | | 240 ... 250 V AC/DC | J | |
| | | 380 ... 400 V AC/DC | K | |
| | | 415 ... 440 V AC/DC | L | |
| | | With undervoltage release (UVR), delayable with external time-delay device; Scope of supply: UVR + time-delay device | 24 ... 30 V AC/DC | M |
| | | | 110 ... 127 V AC/DC | N |
| | | | 220 ... 250 V AC/DC | P |
| | With 2nd shunt trip (ST2) | | 24 V AC/DC | Q |
| | | 30 V AC/DC | R | |
| | | 48 V AC/DC | S | |
| | | 60 V AC/DC | T | |
| | | 110 ... 120 V AC/DC | U | |
| | | 120 ... 127 V AC/DC | V | |
| 220 ... 240 V AC/DC | | W | | |
| 240 ... 250 V AC/DC | X | | | |

| | | | |
|------------------------------|-------------------------------|---------------------|---|
| 1st auxiliary release | Without 1st auxiliary release | | 0 |
| | Shunt trip (ST) | 24 V AC/DC | 1 |
| | | 30 V AC/DC | 2 |
| | | 48 V AC/DC | 3 |
| | | 60 V AC/DC | 4 |
| | | 110 ... 120 V AC/DC | 5 |
| | | 120 ... 127 V AC/DC | 6 |
| | | 220 ... 240 V AC/DC | 7 |
| | | 240 ... 250 V AC/DC | 8 |

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL....-.....-.... -Z

Order code

Accessories for basic configuration

Mounting options for fixed mounting

- In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel; floor mounting is an option; in addition, the device must be modified if it is to be extended with functionalities such as external auxiliary switches or mechanical interlocks.¹⁾

| Mounting options for fixed mounting ¹⁾ | | | | | |
|---|---|---|---|---|--|
| Floor mounting | Mounting support standard | A | 0 | 7 | |
| | Mounting support extended ²⁾ | S | 5 | 6 | |
| Rear panel mounting onto mounting plate | Side wall extended ²⁾ | S | 5 | 7 | |

Accessories for electronic trip units ETU

Rating plugs

- The electronic trip units are equipped as standard with a rating plug for setting the rated current I_n , which is equal to the maximum rated circuit breaker current ($<I_{n\max}$). The rated current of the selected rating plug must be less than or equal to $I_{n\max}$.
- To downrate the circuit breaker, the rated current of less than $I_{n\max}$ is selected for the rating plug by means of a Z option.
- Other functions can also be activated using rating plugs (L = OFF or Rc protection).

| Rating plug | | | | | |
|--|------------------|--------|---|---|---|
| For setting the rated current I_n | For all ETU | 400 A | B | 0 | 4 |
| | | 630 A | B | 0 | 6 |
| | | 800 A | B | 0 | 8 |
| | | 1000 A | B | 1 | 0 |
| For setting the rated current I_n , with overload protection L = OFF | For ETU 6-series | 400 A | L | 0 | 4 |
| | | 630 A | L | 0 | 6 |
| | | 800 A | L | 0 | 8 |
| | | 1000 A | L | 1 | 0 |
| | | 1250 A | L | 1 | 2 |
| For setting the rated current I_n , For enabling of the residual current protection function. The residual current function is only possible with the MF Advanced metering function. | For ETU660 only | 400 A | G | 0 | 4 |
| | | 630 A | G | 0 | 6 |
| | | 800 A | G | 0 | 8 |
| | | 1250 A | G | 1 | 2 |

Communication modules

- No more than two different communication modules can be used at the same time.
- When using an IOM040 digital I/O module (Z option K56), only one communication module can be used.

| Communication modules | | | | | |
|-----------------------|------------|---|---|---|--|
| COM040 | PROFIBUS | F | 0 | 2 | |
| COM041 | PROFINET | F | 0 | 3 | |
| COM043 | Modbus TCP | F | 1 | 1 | |
| COM042 | Modbus RTU | F | 1 | 2 | |

Breaker Connect modules

- When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed.
- By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110–240 V AC/DC.

| Breaker Connect modules | 110 ... 240 V AC/DC | F | 2 | 6 | |
|-------------------------|---------------------|---|---|---|--|
| | | | | | |

I/O modules internal

| I/O modules internal | Digital I/O module IOM040 | 2 inputs, 2 outputs | K | 5 | 6 |
|----------------------|---------------------------|---------------------|---|---|---|
| | | | | | |

¹⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

²⁾ Not possible in connection with or as an alternative to the mounting support, standard (A07)

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-.... -Z

Order code

Accessories for the motor

Mechanical operating cycles counter, 5-digit

C 0 1

Auxiliary switches and signaling switches

- Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.
- For currents <100 mA for PLC connections, these auxiliary and signaling switches can be replaced.
- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
 - minimum load above 1 mA at 5 V DC and a
 - maximum breaking capacity of 100 mA at 24 V DC.

Position signaling switches for guide frames¹⁾ 2 CO | 2 CO | 2 CO (connected | test | disconnected position)

K 5 5

| Signaling switches | | | | |
|--------------------|---|-----------------------|---|-----|
| | Ready-to-close signaling switches | 1 CO digital, 24 V DC | K | 5 0 |
| | Tripped signaling switches (S24) | 1 CO digital, 24 V DC | K | 5 3 |
| | Spring charged signaling switches (S21) | 1 CO digital, 24 V DC | K | 5 4 |

Auxiliary switches ON / OFF AUX 4 CO digital, 24 V DC
2 CO 400 V AC + 2 CO digital, 24 V DC

K 5 1
K 5 2

Locking, blocking and interlocking

Locking devices¹⁾ To prevent movement of withdrawable circuit breaker Cylinder lock Made by Ronis
For no more than 3 padlocks, 8 mm

R 7 8
R 6 5

Locking mechanisms To prevent movement to disconnected position

R 7 9

Locking devices To prevent unauthorized activation in the operator panel (safe OFF) Cylinder lock, made by Ronis
For no more than 3 padlocks, plastic 4 mm
For no more than 1 padlock, metal 7 mm
For no more than 2 padlocks, metal 8 mm

S 0 8
S 2 2
S 2 3
S 0 7

Interlocking sets For mechanical ON and/or OFF on the operator panel For no more than 3 padlocks, plastic 4 mm
For no more than 1 padlock, metal 7 mm
For no more than 2 padlocks, metal 8 mm

S 4 2
S 4 3
S 4 4

Protective covers For mechanical ON/OFF, not lockable

S 4 1

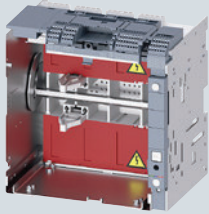
Door sealing frame IP30 IP3x

T 3 0

¹⁾ Can be used not only when guide frame is ordered separately, but also with complete order (breaker + guide frame).

Guide frames

Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1250 A
- **Note:** All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are included with the switching device. The PSS standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

| Number of poles | Connection type | Article No. |
|-----------------|--|---------------|
| 3-pole | Rear vertical | 3VW8112-0AA01 |
| | Rear horizontal | 3VW8112-0AB01 |
| | 4 × 240 mm ² Cu/Al cable connection, for compression lugs | 3VW8112-0AD01 |
| | Front connection bars, extended | 3VW8112-0AE01 |
| 4-pole | Rear vertical | 3VW8112-0BA01 |
| | Rear horizontal | 3VW8112-0BB01 |
| | 4 × 240 mm ² Cu/Al cable connection, for compression lugs | 3VW8112-0BD01 |
| | Front connection bars, extended | 3VW8112-0BE01 |

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3VW8.....-.....-..... -Z

Order code

Locking, blocking and interlocking

| Locking devices | To prevent movement of withdrawable circuit breaker | Cylinder lock, made by Ronis For no more than 3 padlocks, 8 mm | R | 7 | 8 |
|--------------------|--|---|---|---|---|
| Locking mechanisms | To prevent movement to disconnected position (only in combination with R78 or R65) | | R | 6 | 5 |
| | | | R | 7 | 9 |

Auxiliary/signaling switches

| Position signaling switch PSS for guide frame | For 24 V DC digital signals, for minimum currents | 2 CO 2 CO 2 CO (connected test disconnected position) | K | 5 | 5 |
|---|---|---|---|---|---|
|---|---|---|---|---|---|

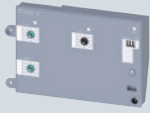

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard. For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified.

The auxiliary/signaling switches for 24 V DC digital signals are designed for


- a minimal load from 1 mA at 5 V DC and
- a maximum breaking capacity of 100 mA at 24 V DC.

Electronic trip units ETU and accessories


Electronic trip units (ETU)

| Version | With communications / metering function / enhanced protection functions | Type | Protective function | Article No. | |
|---|---|------|---------------------|-------------|---------------|
|  | With rotary coding switches | No | ETU320 | LIN | 3VW9011-5AA00 |
| | | | ETU350 | LSIN | 3VW9012-5AA00 |
| | | | ETU360 | LSING | 3VW9012-7AA00 |
|  | With display | Yes | ETU650 | LSIN | 3VW9017-5AA00 |
| | | | ETU660 | LSING | 3VW9017-7AA00 |

Metering functions for ETU650 or ETU660

| Description | Protective function / version | Arrangement | Article No. |
|---|--|---------------|---------------|
|  | Metering function | MF Basic | 3VW9011-0AT01 |
| | | MF Advanced | 3VW9011-0AT04 |
| Set of cables for voltage tap for MF | For 4-pole circuit breakers with neutral right | Top or bottom | 3VW9011-0AT08 |
| | | Top | 3VW9011-0AT75 |
| | For 4-pole circuit breakers with neutral left | Bottom | 3VW9011-0AT76 |
| | | Top | 3VW9011-0AT72 |
| For 3-pole circuit breakers | Bottom | 3VW9011-0AT73 | |

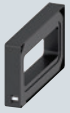
External current transformers for N conductor

| Accessory for | Purpose | Article No. |
|--|----------------------------------|---------------|
|  ETU320, ETU350, ETU360, ETU650, ETU660 | For 3-pole circuit breakers only | 3VW9011-0AA30 |


External current transformers for grounded transformer star point

| Accessory for | G_{ret} (ground return) | Article No. |
|---|---------------------------|---------------|
|  ETU660 | 100 A | 3VW9011-0GF30 |
| | 250 A | 3VW9011-0GF31 |

Summation current transformers external Rc-CT for residual current measurement

|  | <ul style="list-style-type: none"> Only with MF Advanced metering function and Rc rating plug | |
|---|--|---------------|
| Accessory for | Purpose | Article No. |
| ETU660 | For external residual current measurement | 3VW9011-0RC30 |

Remote reset magnets RR for the circuit breakers including tripped signal

|  | <ul style="list-style-type: none"> Remote reset magnet (RR) for resetting the circuit breaker after tripping as a result of overcurrent conditions | |
|---|---|---------------|
| Accessory for | Voltage | Article No. |
| ETU320, ETU350, ETU360, ETU650, ETU660 | 24 V DC | 3VW9011-0AK03 |
| | 110 V AC/DC | 3VW9011-0AK05 |
| | 250 V AC/DC | 3VW9011-0AK06 |

Replacement batteries for electronic trip units ETU

| Accessory for | Article No. |
|---|---------------|
|  ETU320, ETU350, ETU360, ETU650, ETU660 | 3VW9011-0AT38 |

Electronic trip units ETU and accessories

Rated current module / rating plug



- Only one module is possible per circuit breaker.

| Accessory for | Version | Rated current I_n | Article No. |
|--|--|---------------------|---------------|
| ETU320, ETU350, ETU360, ETU650, ETU660 | Rating plugs for setting ($< I_{n\max}$) the rated current I_n | 400 A | 3VW9011-0AA53 |
| | | 630 A | 3VW9011-0AA55 |
| | | 800 A | 3VW9011-0AA56 |
| | | 1000 A | 3VW9011-0AA57 |
| | | 1250 A | 3VW9011-0AA58 |
| ETU 6-series | Rating plugs without overload protection (L = OFF) and for setting ($< I_{n\max}$) the rated current I_n | 400 A | 3VW9011-0LF53 |
| | | 630 A | 3VW9011-0LF55 |
| | | 800 A | 3VW9011-0LF56 |
| | | 1000 A | 3VW9011-0LF57 |
| | | 1250 A | 3VW9011-0LF58 |
| ETU660 | Rating plug Rc for ETU660, for enabling the residual current protection function and setting ($< I_{n\max}$) of the rated current I_n . The residual current function is only possible with the MF Advanced metering function. | 400 A | 3VW9011-ORC53 |
| | | 630 A | 3VW9011-ORC55 |
| | | 800 A | 3VW9011-ORC56 |
| | | 1250 A | 3VW9011-ORC58 |

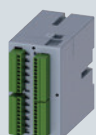
CB bus modules - communication modules



- Contains the communication module
- No more than two different communication modules can be used at the same time.
- When using a digital I/O module IOM040 (Z option K56) only one communication module can be used.
- Can only be used with ETUs of the 6-series and a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.

| Communication modules | Protocol | Article No. |
|-----------------------|------------|---------------|
| COM040 | PROFIBUS | 3VW9011-0AT15 |
| COM041 | PROFINET | 3VW9011-0AT14 |
| COM043 | Modbus TCP | 3VW9011-0AT16 |
| COM042 | Modbus RTU | 3VW9011-0AT17 |

CB bus modules - I/O modules external IOM300



- For snapping onto standard mounting rail

| Accessory for | Maximum switching current per contact | Inputs | Outputs | Article No. |
|---------------|--|--------|---------|---------------|
| ETU 6-series | <ul style="list-style-type: none"> 2 A at DC ≤ 30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC | 11 | 10 | 3VW9011-0AT20 |

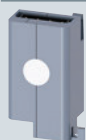
CB bus modules - I/O modules internal IOM040



- When using a digital I/O module IOM040, only one communication module can be used.

| Accessory for | Maximum switching current per contact | Inputs | Outputs | Article No. |
|---------------|--|--------|---------|---------------|
| ETU 6-series | <ul style="list-style-type: none"> 2 A at DC ≤ 30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC | 2 | 2 | 3VW9011-0AT30 |

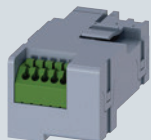
Actuator module COM ACT



- For switching the circuit breaker on/off remotely via communication
- Actuation of the closing coil (CC) and the 1st shunt trip (ST)
- Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt trip.
- Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.

| Accessory for | Article No. |
|---------------|---------------|
| ETU 6-series | 3VW9011-0AT10 |

Breaker Connect modules



- For the external power supply for the electronics components

| Voltage | Article No. |
|---------------------|---------------|
| 110 ... 240 V AC/DC | 3VW9011-0AT06 |
| 24 ... 48 V DC | 3VW9011-0AT07 |

Auxiliary contact signaling switch for communications interface



- Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions.
- Can only be used in combination with communication module.
- Can be combined with standard position signaling switches or ready-to-close signaling contacts.
- Note: Both signaling switches are automatically included in the basic circuit breaker if the communications interface of the ETU 6-series is selected (COM PSS only with withdrawable versions).

| Function | Article No. |
|--|---------------|
| Ready-to-close signaling switch for communication COM RTC | 3VW9011-0AT11 |
| Position signaling switch COM PSS (for withdrawable breakers only) | 3VW9011-0AT12 |

Test devices and Breaker Data Adapters



- Can be used for all ETU 3-series and 6-series

| Function | Type | Article No. |
|---|-------|---------------|
| Test device <ul style="list-style-type: none"> • For the trip test via ETU and tripping solenoid including release • The ETU and the tripping solenoids are activated by means of a battery built into the test device. • On activation in the ETU 6-series, the parameters can be configured on the display | TD310 | 3VW9011-0AT32 |
| Breaker Data Adapter <ul style="list-style-type: none"> • As gateway for parameterization of the ETU with powerconfig • For generation of a report of the set parameters with powerservice | TD410 | 3VW9011-0AT34 |
| Test devices and Breaker Data Adapters <ul style="list-style-type: none"> • As gateway for parameterization of the ETU with powerconfig <ul style="list-style-type: none"> – Testing a tripping operation using powerconfig • For use with the powerservice software <ul style="list-style-type: none"> – Testing of the basic protection functions LSING – Testing of the enhanced protection functions – Test data storage – Readout of ETU buffer – Generation of a report of the set parameters | TD420 | 3VW9011-0AT33 |

Accessories and spare parts

Accessories for connection

Front terminals for main circuit connections acc. to IEC 60947-2

- To be ordered separately for top and bottom



| Fixing | Version | Mounted onto | Number of poles / quantity | Article No. |
|--|--|--|---|------------------|
| Fixed-mounted | Front terminals for main circuit connection | Front terminals for main circuit connection | 3-pole / 3 units | 3VW9011-0AL01 |
| | | | 4-pole / 4 units | 3VW9011-0AL02 |
| | Extended main terminals, including insulating plate and phase barriers, standard | Front terminals for main circuit connection | 3-pole / 3 units | 3VW9011-0AL77 |
| | | | 4-pole / 4 units | 3VW9011-0AL78 |
| | Broadened main terminals, including insulating plate and extended phase barriers | Front terminals for main circuit connection, top | 3-pole / 3 units | 3VW9011-0AL73 |
| | | | Front terminals for main circuit connection, bottom | 3-pole / 3 units |
| Front terminals for main circuit connection, top, bottom | | | 4-pole / 4 units | 3VW9011-0AL74 |
| Withdrawable | Front-accessible terminals for main circuit connection | Flange of the guide frame | 3-pole / 3 units | 3VW9011-0AN01 |
| | | | 4-pole / 4 units | 3VW9011-0AN02 |
| | Broadened main circuit connections | Front-accessible terminals for main circuit connection | 3-pole / 3 units | 3VW9011-0AN73 |
| | | | 4-pole / 4 units | 3VW9011-0AN74 |

Rear terminals for main circuit connections acc. to IEC 60947-2

- To be ordered separately for top and bottom



| Fixing | Version | Mounted onto | Number of poles / quantity | Article No. |
|---------------|--|----------------------------------|----------------------------|---------------|
| Fixed-mounted | Rear terminals for main circuit connection; rotatable for horizontal / vertical connection, including terminal cover | | 3-pole / 3 units | 3VW9011-0AL32 |
| | | | 4-pole / 4 units | 3VW9011-0AL33 |
| Withdrawable | Rear terminals for main circuit connection; rotatable for horizontal / vertical connection, including terminal cover | | 3-pole / 3 units | 3VW9011-0AN32 |
| | | | 4-pole / 4 units | 3VW9011-0AN33 |
| | Broadened main circuit connections | Rear horizontal main connections | 3-pole / 3 units | 3VW9011-0AN75 |
| | | | 4-pole / 4 units | 3VW9011-0AN76 |

Cu-/Al cable connections

- To be ordered separately for top and bottom



| Fixing | Version | Mounted onto | Number of poles / quantity | Article No. |
|---------------|---|---|----------------------------|---------------|
| Fixed-mounted | Circular conductor terminals 4 × 240 mm ² for front cable connection, including insulating plate and high, extended terminal cover | Front terminals for main circuit connection | 3-pole / 3 units | 3VW9011-0AL71 |
| | | | 4-pole / 4 units | 3VW9011-0AL72 |
| Withdrawable | Set of circular conductor connection pieces 4 × 240 mm ² for compression lugs, rear cable connection | Rear vertical main connections | 3-pole / 3 units | 3VW9011-0AN71 |
| | | | 4-pole / 4 units | 3VW9011-0AN72 |

Auxiliary supply connectors in push-in version

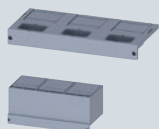


- Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames.
- The device is always fitted at the factory with the exact number of auxiliary conductor terminals required.

| Version | Article No. |
|---------|---------------|
| Push-in | 3VW9011-0AB11 |

Accessories for connection

Terminal covers for fixed circuit breakers



- Finger-proof for front main circuit connection for fixed-mounting
- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.

| Version | Number of poles / quantity | Article No. |
|----------|----------------------------|---------------|
| Standard | 3-pole / 2 units | 3VW9723-OWD30 |
| | 4-pole / 2 units | 3VW9724-OWD40 |
| Extended | 3-pole / 2 units | 3VW9723-OWF30 |
| | 4-pole / 2 units | 3VW9724-OWF40 |

Phase barriers for fixed breakers



- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.
- For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.

| Height | Number of poles / quantity | Article No. |
|----------------------|----------------------------|---------------|
| 100 mm (Standard) | 3-pole / 4 units | 3VW9723-OWA00 |
| | 4-pole / 6 units | 3VW9724-OWA10 |
| 200 mm (extended) | 3-pole / 4 units | 3VW9723-OWA01 |
| | 4-pole / 6 units | 3VW9724-OWA11 |

Support for mounting the fixed-mounted breaker on the floor



- For fixed-mounted versions

| Version | Purpose | Article No. |
|--|---|---------------|
| Mounting support standard (circuit breaker feet) (= Z option A07) | | 3VW9011-0BB51 |
| Mounting support extended (circuit breaker feet), including mechanical transmission of switch position on circuit breaker side panel (= Z option S56) | <ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) • Mutual mechanical interlockings for 3WL3VA (for 3VW9011-0BB21) | 3VW9011-0BB52 |

Extension kit for modification of the side wall of the fixed-mounted breaker



- For fixed-mounted versions
- Rear wall fixing on mounting plate
- For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57)

| Version | Purpose | Article No. |
|-----------------------------|---|---------------|
| Extension kit for side wall | <ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) • Mutual mechanical interlockings for 3WL3VA (for 3VW9011-0BB21) | 3VW9011-0BB53 |

Accessories and spare parts

Motor

Spring charging motor (MO)



| Description | Voltage | Article No. |
|---|---------------------|---------------|
| For automatic charging of the stored-energy operating mechanism | 24 ... 30 V AC/DC | 3VW9011-0AF01 |
| | 48 ... 60 V AC/DC | 3VW9011-0AF02 |
| | 100 ... 130 V AC/DC | 3VW9011-0AF03 |
| | 220 ... 250 V AC/DC | 3VW9011-0AF04 |

Mechanical operating cycles counters



| Description | Version | Article No. |
|---|----------|---------------|
| In combination with a spring charging motor | 5 digits | 3VW9011-0AH07 |

Auxiliary releases, closing coils

Closing coils CC / shunt trips ST



| Voltage | Article No. |
|---------------------|---------------|
| 24 V AC/DC | 3VW9011-0AD01 |
| 30 V AC/DC | 3VW9011-0AD02 |
| 48 V AC/DC | 3VW9011-0AD03 |
| 60 V AC/DC | 3VW9011-0AD04 |
| 110 ... 120 V AC/DC | 3VW9011-0AD05 |
| 120 ... 127 V AC/DC | 3VW9011-0AD06 |
| 220 ... 240 V AC/DC | 3VW9011-0AD07 |
| 240 ... 250 V AC/DC | 3VW9011-0AD08 |
| 380 ... 400 V AC | 3VW9011-0AD17 |
| 415 ... 440 V AC | 3VW9011-0AD18 |

TD320 function test unit for closing coil / shunt trip



- The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested.
- The operational availability test is performed cyclically at intervals of 30 seconds.
- The unit has visual indicators in the form of LEDs on the front in order to display the following states:
 - LED POWER ON LIT: Correct function of the YO/YC test unit
 - LED DEACTIVATION LIT: Power supply failure, wire break
 - LED SHORT-CIRCUIT LIT: Winding short-circuit
 - LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply
 - LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt trip OK

| Version | Article No. |
|-------------------------------------|---------------|
| For all closing coils / shunt trips | 3VW9011-0AT31 |

Auxiliary releases, closing coils

Auxiliary/signaling switches



- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
 - minimum load above 1 mA at 5 V DC and a
 - maximum breaking capacity of 100 mA at 24 V DC.
- For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification.

| Type | Contacts | Article No. |
|---|---|---------------|
| Ready-to-close signal RTC | 1 CO standard | 3VW9011-0AH01 |
| | 1 CO digital | 3VW9011-0AH02 |
| Auxiliary switch ON/OFF AUX | 4 CO standard | 3VW9011-0AG01 |
| | 4 CO digital | 3VW9011-0AG02 |
| | 2 CO standard + 2 CO digital | 3VW9011-0AG03 |
| External auxiliary switch ON/OFF AUX | 15 CO standard | 3VW9011-0AG05 |
| | 15 CO digital | 3VW9011-0AG06 |
| Tripped signaling switch S24 | 1 CO standard | 3VW9011-0AH14 |
| | 1 CO digital | 3VW9011-0AH15 |
| Spring charged signaling switch S21 | 1 CO standard | 3VW9011-0AH10 |
| | 1 CO digital | 3VW9011-0AH08 |
| Position signaling switch PSS (for withdrawable devices) | 2 CO 2 CO 2 CO (connected test disconnected position) standard | 3VW9011-0AH11 |
| | 2 CO 2 CO 2 CO (connected test disconnected position) digital | 3VW9011-0AH12 |

Fixing for external auxiliary switches AUX 15 CO



- External auxiliary switches ON/OFF AUX 15 CO must be ordered separately.

| Version | Article No. |
|---|---------------|
| For fixed-mounted circuit breakers with rear panel or floor mounting (in combination with Z option S56 or S57) | 3VW9011-0AG15 |
| For guide frames | 3VW9011-0AG17 |

Undervoltage releases UVR



| Voltage | Article No. |
|---------------------|---------------|
| 24 V AC/DC | 3VW9011-0AE01 |
| 30 V AC/DC | 3VW9011-0AE02 |
| 48 V AC/DC | 3VW9011-0AE03 |
| 60 V AC/DC | 3VW9011-0AE04 |
| 110 ... 120 V AC/DC | 3VW9011-0AE05 |
| 120 ... 127 V AC/DC | 3VW9011-0AE06 |
| 220 ... 240 V AC/DC | 3VW9011-0AE07 |
| 240 ... 250 V AC/DC | 3VW9011-0AE08 |
| 380 ... 400 V AC | 3VW9011-0AE17 |
| 415 ... 440 V AC | 3VW9011-0AE18 |

External time-delay device for undervoltage release



- With adjustable delay time from 0.5 to 3 s.
- Suitable for mounting onto DIN rail.

| Voltage | Article No. |
|---------------------|---------------|
| 24 ... 30 V AC/DC | 3VW9011-0AE10 |
| 48 V AC/DC | 3VW9011-0AE11 |
| 60 V AC/DC | 3VW9011-0AE15 |
| 110 ... 127 V AC/DC | 3VW9011-0AE12 |
| 220 ... 250 V AC/DC | 3VW9011-0AE13 |

Accessories and spare parts

1

Interlocking

Locking devices to prevent movement of the withdrawable circuit breakers



| Version | Article No. |
|---|---------------|
| Ronis cylinder lock (replacement for R78) | 3VW9011-0BA80 |
| Padlock 8 mm (replacement for R65), for no more than 3 padlocks | 3VW9011-0BA87 |

Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position



- Only possible as a supplement in conjunction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87).

| Description | Article No. |
|---|---------------|
| Locking mechanism (replacement for R79) | 3VW9011-0BA84 |

Locking devices in OFF position



- For fixed-mounted versions and withdrawable versions
- To prevent unauthorized activation in the operator panel (safe OFF)
- The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.

| Description | Artikel-Nr. |
|--|---------------|
| Cylinder lock, made by Ronis (replacement for S08) | 3VW9011-0BA33 |

Locking devices in OFF position



- For fixed-mounted versions and withdrawable versions
- To prevent unauthorized activation in the operator panel (safe OFF)
- The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.

| Description | Version | Article No. |
|------------------------------------|-------------------------------------|---------------|
| Padlock 4 mm (replacement for S22) | Plastic for no more than 3 padlocks | 3VW9011-0BA41 |
| Padlock 7 mm (replacement for S23) | Metal for no more than 1 padlock | 3VW9011-0BA42 |
| Padlock 8 mm (replacement for S07) | Metal for no more than 2 padlocks | 3VW9011-0BA44 |

Padlockable protective cover ON/OFF on the operator panel



| Description | Version | Article No. |
|------------------------------------|----------------------------------|---------------|
| Padlock 4 mm (replacement for S42) | Plastic for no more than 3 locks | 3VW9011-0BA22 |
| Padlock 7 mm (replacement for S43) | Metal for no more than 1 lock | 3VW9011-0BA23 |
| Padlock 8 mm (replacement for S44) | Metal for no more than 2 locks | 3VW9011-0BA24 |

Protective cover for mechanical ON/OFF



- Mechanical ON/OFF to protect against unintentional actuation on the operator panel.
- Not lockable.

| Description | Article No. |
|------------------------------------|---------------|
| Not lockable (replacement for S41) | 3VW9011-0BA21 |

Mutual mechanical interlockings



- Mutual mechanical interlocking for 3WL / 3VA with Bowden cable 2 m

| Fixing | Mounting | Article No. |
|---------------|------------------------------|---------------|
| Fixed-mounted | Rear panel or floor mounting | 3VW9011-0BB21 |
| Withdrawable | Mounting onto guide frame | 3VW9011-0BB22 |

Bowden cable, separate

- One required for each circuit breaker

| Variant | Article No. |
|---------|--------------------|
| 1000 mm | 3VW9011-0BB23 |
| 2000 mm | 3WL9111-0BB45-0AA0 |
| 3000 mm | 3WL9111-0BB46-0AA0 |

Interlocking

Locking mechanisms to prevent opening of the control cabinet doors in ON position



- To prevent opening of the cabinet door in ON position
- It additionally prevents the circuit breaker from being closed when the control cabinet door is open

| Fixing | Version | Article No. |
|---|---------------------------|---------------|
| Fixed mounting onto side panel or floor | Direct fixed interlocking | 3VW9011-0BB10 |
| | Locking with Bowden cable | 3VW9011-0BB16 |
| Withdrawable | Direct fixed interlocking | 3VW9011-0BB14 |
| | Locking with Bowden cable | 3VW9011-0BB18 |

Door sealing frame IP30



- Can be used up to IP3x degree of protection

| Version | Befestigung | Version | Article No. |
|------------------------------------|---------------|---------|---------------|
| Replacement part for Z option T30. | Fixed-mounted | IP3x | 3VW9011-0AP01 |
| | Withdrawable | IP3x | 3VW9011-0AP02 |

Protective cover IP54



- Protective cover / hood IP54 lockable for fixed-mounted breakers and withdrawable breakers
- For implementing degrees of protection IP4x and IP54 when installing in switchboard door.
- Cannot be combined with IP30 door sealing frame and door mounted rotary operator.

| Version | Version | Article No. |
|------------------------|---------|---------------|
| Lock with unique key | IP54 | 3VW9011-0AP03 |
| Lock with standard key | IP54 | 3VW9011-0AP13 |

System overview 3WL11 – 3WL13

IEC AC 630 – 6300 A, IEC DC ..

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

1

Basic units



Sizes 1 to 3

ETU



LI



LSI



LSING



LSIN, LSING



LSIN, LSING

Accessories



Communication modules



Rating plugs



Remote reset magnets

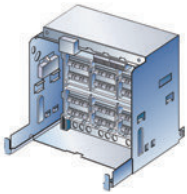


Breaker status sensors (BSS)



Ground-fault modules

Connection



Fixed-mounted, withdrawable versions



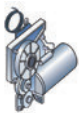
Main connection vertical, horizontal, front, flange

Accessories



Auxiliary conductor plug-in system

Operating mechanisms and auxiliary releases



Motorized operating mechanisms



Auxiliary releases

Accessories



Closing coils

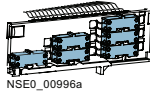
Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

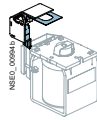
Auxiliary switches



Auxiliary switches



Position signaling switches



Signaling switches

Accessories



Position signaling switches

Further accessories



Door sealing frames



Shutters



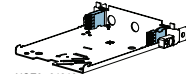
EMERGENCY-OFF pushbuttons



Operating cycle counters



Support brackets



Grounding connections

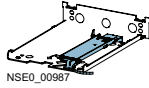
Interlocking



Interlocking sets



Key operation



Locking mechanisms

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Online configurator highlights

www.siemens.com/lowvoltage/3wl-configurator

Ungroup into individual components:
Divides the finished complete article number into single article numbers

1



SIEMENS
Ingenuity for Life

Additional actions Support Language

Get support Recommended retail price

The configuration is complete. You can order this product.

Basic breaker ETU Connection Motor and auxiliary releases Auxiliary switches Accessories Locking Result CAD/CAE 13.7

Ordering individual components

Yes No

Print Export as Excel

| Name | Order number | Properties |
|---------------------------------|--------------------|----------------------|
| Basic breaker | 3WL1216-3FG62-1AA2 | Order quantity: 1 ST |
| Multiselect operating mechanism | 3WL5111-0M01-6AA0 | Order quantity: 1 ST |
| Closing release | 3WL5111-0A01-6AA0 | Order quantity: 1 ST |
| Mutual mechanical interlocking | 3WL5111-0B01-6AA0 | Order quantity: 1 ST |

Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



The configuration is complete. You can order this product.

Filter (e.g. "power", ...)

Basic breaker ETU Connection Motor and auxiliary releases Auxiliary switches Accessories Locking Result CAD/CAE 13.7

Basic breaker

Preview

Area Model View | Wire frame view | Unit Wiring Diagram IEC | 3D view
Dimension drawing



Download – quick links

Basic breaker
Click2CAD

Download – all CAD formats

View: Area Model View

View option: Isometric

File type: Joint Photography Experts Group (*.jpg)

Start generation

Download – all documents

open documents dialog


Direct entry of an already known article number or parts of an article number

3WL Air Circuit Breakers

Product Information Configurators

Select a Configurator: 3WL Upgrade Air Circuit Breakers

3WL Upgrade Air Circuit Breakers



Selection - Tool for air circuit breakers (ACB) SENTRON 3WL from 630 A to 1250 A

- for selective line protection
- for motor protection
- non-automatic circuit breaker

Using this configurator, you can precisely select the optimum circuit breaker configuration for your application. Comprehensive CAX-data support of the device is provided after successful configuration.

To start the configurator with a preallocation use the direct input e.g. 3WL1116-3EB66-4FG4-Z K07+S07+C01+T40

Start

MLFB direct input (complete): 3WL Start

Structure of the article numbers

Basic configuration for AC circuit breakers

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

1

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|---|---------------------------|-----------------|-----------------|---------------------|---|----|----|----|----|----|----|----|
| 3WL1 | | ■ | ■ | ■ | – | ■ | ■ | ■ | ■ | – | ■ | ■ | ■ |
| Basic unit and ETU | | | | | | | | | | | | | |
| Size | 1 | 1 | | | | | | | | | | | |
| | 2 | 2 | | | | | | | | | | | |
| | 3 | 3 | | | | | | | | | | | |
| | | | SZ 1 | SZ 2 | SZ 3 | | | | | | | | |
| Max. rated current | 630 A | ■ | – | – | | 0 | 6 | | | | | | |
| I_n | 800 A | ■ | ■ ⁶⁾ | – | | 0 | 8 | | | | | | |
| | 1000 A | ■ | ■ ⁶⁾ | – | | 1 | 0 | | | | | | |
| | 1250 A | ■ | ■ ⁶⁾ | – | | 1 | 2 | | | | | | |
| | 1600 A | ■ | ■ | – | | 1 | 6 | | | | | | |
| | 2000 A | ■ | ■ | – | | 2 | 0 | | | | | | |
| | 2500 A | – | ■ | – | | 2 | 5 | | | | | | |
| | 3200 A | – | ■ | – | | 3 | 2 | | | | | | |
| | 4000 A | – | ■ ⁶⁾ | ■ | | 4 | 0 | | | | | | |
| | 5000 A | – | – | ■ | | 5 | 0 | | | | | | |
| | 6300 A | – | – | ■ | | 6 | 3 | | | | | | |
| Short-circuit breaking capacity I_{cu} at 500 V | N ECO | ■ | – | – | 55 kA | | | 2 | | | | | |
| | | – | ■ | – | 66 kA | | | 2 | | | | | |
| | S Standard | ■ | – | – | 66 kA | | | 3 | | | | | |
| | | – | ■ | – | 85 kA | | | 3 | | | | | |
| | H High | ■ | – | – | 85 kA | | | 4 | | | | | |
| | | – | ■ | ■ | 100 kA | | | 4 | | | | | |
| | C Very high | – | ■ | ■ ⁸⁾ | 130 kA | | | 5 | | | | | |
| | | – | – | ■ ⁹⁾ | 150 kA | | | 5 | | | | | |
| Trip units | Without trip unit | | | | – | | | A | A | | | | |
| | With trip unit, without ground-fault tripping | ETU 15B ⁷⁾ | | | LI | | | B | B | | | | |
| | | ETU 25B | | | LSI | | | C | B | | | | |
| | | ETU 45B (without display) | | | LSIN | | | E | B | | | | |
| | | ETU 45B (with display) | | | LSIN | | | F | B | | | | |
| | | ETU 76B | | | LSIN | | | N | B | | | | |
| | With trip unit, with ground-fault tripping | ETU 27B (without display) | | | LSING | | | D | G | | | | |
| | | ETU 45B (without display) | | | LSING | | | E | G | | | | |
| | | ETU 45B (with display) | | | LSING | | | F | G | | | | |
| | | ETU 76B | | | LSING | | | N | G | | | | |
| Number of poles | 3-pole (3WL upgrade) | | | | | | | | | 6 | | | |
| | 4-pole (3WL upgrade) | | | | | | | | | 7 | | | |
| Connection | | | | | | | | | | | | | |
| | | | SZ 1 | SZ 2 | SZ 3 | | | | | | | | |
| Installation type | Fixed-mounted | ■ | ■ | ■ | Vertical | | | | | | | | 1 |
| | | ■ | □ ²⁾ | □ ³⁾ | Horizontal | | | | | | | | 2 |
| | | □ ⁴⁾ | □ ¹⁾ | □ ⁵⁾ | Front single hole | | | | | | | | 3 |
| | | ■ | □ ¹⁾ | □ ⁵⁾ | Front double hole | | | | | | | | 4 |
| | Withdrawable | ■ | ■ | ■ | Without guide frame | | | | | | | | 5 |
| | | ■ | □ ²⁾ | □ ³⁾ | Horizontal | | | | | | | | 6 |
| | | ■ | ■ | ■ | Vertical | | | | | | | | 7 |
| | | ■ | □ ¹⁾ | □ ⁵⁾ | Flanges | | | | | | | | 8 |

■ Applies in this case
 □ Partially applies in this case
 1) Not available for rated current 4000 A and breaking capacity C
 2) Not available for rated current 4000 A
 3) Not available for rated current 6300 A
 4) Not available for rated current 2000 A and breaking capacity H
 5) Not available for rated current 5000 A, 6300 A and breaking capacity C
 6) Not available for breaking capacity C
 7) Not available for size 3
 8) Not available for 3-pole
 9) Not available for 4-pole

3WL1

| | | | | | | | | | | | |
|---|---|---|---|---|----|----|----|----|----|----|----|
| 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|----|----|----|----|----|----|----|

Operating mechanisms and auxiliary releases

| | | | | |
|---------------------------|--|--|--|---|
| Stored energy mechanism | Manual recharging of the stored energy mechanism | With mechanical operation | 1 | |
| | | With mechanical and electrical operation | 2 | |
| | | 110 V AC 50/60 Hz / 110 V DC 230 V AC 50/60 Hz / 220 V DC | 3 | |
| | Motorized operating mechanisms | With mechanical and electrical operation | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | 4 |
| | | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | 5 |
| | | | 24 V DC | 6 |
| 1st auxiliary release | Without | | A | |
| | With shunt trip 100% OP | 24 V DC | B | |
| | | 30 V DC | C | |
| | | 48 V DC | D | |
| | | 60 V DC | E | |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | F | |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | G | |
| 2nd auxiliary release | Without | | A | |
| | With shunt trip 100% OP | 24 V DC | B | |
| | | 30 V DC | C | |
| | | 48 V DC | D | |
| | | 60 V DC | E | |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | F | |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | G | |
| | | With undervoltage release, instantaneous | 24 V DC | J |
| | 30 V DC | | K | |
| | 48 V DC | | L | |
| | 60 V DC | | U | |
| | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | | M | |
| | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | | N | |
| | 380 ... 415 V AC 50/60 Hz | | P | |
| | With undervoltage release, delay 0.2 ... 3.2 s | | 48 V DC | Q |
| | | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | R |
| | | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | S |
| 380 ... 415 V AC 50/60 Hz | | T | | |

Auxiliary switches

| | | |
|----------------------------------|-------------|---|
| 1st auxiliary switch block | 2 NO + 2 NC | 2 |
| 1st + 2nd auxiliary switch block | 4 NO + 4 NC | 4 |
| | 6 NO + 2 NC | 7 |
| | 5 NO + 3 NC | 8 |

Structure of the article numbers

Basic configuration for DC circuit breakers

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

1



Basic unit and ETU

| | | | | | | | | | | | | | | | |
|---|----------------------|---|------|------|---|---|--|--|--|---|---|--|---|--|---|
| Size | 1 | 1 | | | | | | | | | | | | | |
| | 2 | 2 | | | | | | | | | | | | | |
| | | | SZ 1 | SZ 2 | | | | | | | | | | | |
| Max. rated current I_n | 1000 A | - | ■ | | 1 | 0 | | | | | | | | | |
| | 2000 A | ■ | ■ | | 2 | 0 | | | | | | | | | |
| | 4000 A | - | ■ | | 4 | 0 | | | | | | | | | |
| Short-circuit breaking capacity I_{cu} | 1000 V DC 20 kA | ■ | - | | | | | | | | | | 8 | | |
| | 600 V DC 25 kA | - | ■ | | | | | | | | | | 8 | | |
| Non-automatic air circuit breakers | Without trip unit | | | | | | | | | A | A | | | | |
| Number of poles | 3-pole (3WL upgrade) | - | ■ | | | | | | | | | | | | 6 |
| | 4-pole (3WL upgrade) | ■ | ■ | | | | | | | | | | | | 7 |

Connection

| | | | | | | | | | | | | | | | |
|-------------------|---------------|---|-----------------|---------------------|--|--|--|--|--|--|--|--|--|--|---|
| | | | SZ 1 | SZ 2 | | | | | | | | | | | |
| Installation type | Fixed-mounted | ■ | ■ | Vertical | | | | | | | | | | | 1 |
| | | ■ | ■ | Horizontal | | | | | | | | | | | 2 |
| | | - | □ ¹⁾ | Front single hole | | | | | | | | | | | 3 |
| | | - | □ ¹⁾ | Front double hole | | | | | | | | | | | 4 |
| | Withdrawable | - | ■ | Without guide frame | | | | | | | | | | | 5 |
| | | - | ■ | Horizontal | | | | | | | | | | | 6 |
| | | - | ■ | Vertical | | | | | | | | | | | 7 |
| | | - | ■ | Flanges | | | | | | | | | | | 8 |

■ Applies in this case □ Partially applies in this case ¹⁾ Not available for rated current 4000 A

3WL1

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|----|----|----|---|----|----|----|----|
| 5 | 6 | 7 | 8 | – | 9 | 10 | 11 | 12 | – | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|----|----|----|---|----|----|----|----|

Operating mechanisms and auxiliary releases

| | | | |
|--|--|---|---------|
| Stored energy mechanism | Manual recharging of the stored energy mechanism | With mechanical operation | 1 |
| | | With mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% ED | 2 |
| | | 110 V AC 50/60 Hz / 110 V DC | 3 |
| | Motorized recharging | With mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100% ED | 4 |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | 5 |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | 6 |
| | 24 V DC | | |
| 1st auxiliary release | Without | | A |
| | With shunt trip 100% OP | 24 V DC | B |
| | | 30 V DC | C |
| | | 48 V DC | D |
| | | 60 V DC | E |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | F |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | G |
| 2nd auxiliary release | Without | | A |
| | With shunt trip 100% OP | 24 V DC | B |
| | | 30 V DC | C |
| | | 48 V DC | D |
| | | 60 V DC | E |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | F |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | G |
| | | With undervoltage release, instantaneous (≤ 80 ms), short-delay (≤ 200 ms) | 24 V DC |
| | 30 V DC | | K |
| | 48 V DC | | L |
| | 60 V DC | | U |
| | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | | M |
| | With undervoltage release, delay 0.2 ... 3.2 s | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | N |
| | | 380 ... 415 V AC 50/60 Hz | P |
| | | 48 V DC | Q |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | R |
| 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | | S | |
| 380 ... 415 V AC 50/60 Hz | T | | |

Auxiliary switches

| | | |
|---|-------------|---|
| 1st auxiliary switch block | 2 NO + 2 NC | 2 |
| 1st + 2nd auxiliary switch block | 4 NO + 4 NC | 4 |
| | 6 NO + 2 NC | 7 |
| | 5 NO + 3 NC | 8 |

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL....-.....-..... -Z

Order code

Accessories for basic configuration

Rated voltage 1000 V AC and 690 V IT networks

- Only for circuit breakers of size 1 - 3 with high breaking capacity H and of size 3 C class.
- Cannot be combined with rated voltage 1150 V AC, order code "A15".

| Rated voltage | Size 1 ¹⁾ | Up to 2000 A | A | 0 | 5 |
|---------------|-------------------------|--------------|---|---|---|
| | Size 2 ^{1) 2)} | Up to 4000 A | A | 0 | 5 |
| | Size 3 ¹⁾ | Up to 6300 A | A | 0 | 5 |

Rated voltage 1150 V AC

- Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4").
- Cannot be combined with rated voltage 1000 V AC, order code "A05".

| Rated voltage | Size 2 ^{1) 2)} | Up to 4000 A | A | 1 | 5 |
|---------------|-------------------------|--------------|-------------------------|---|---|
| | Size 3 ^{1) 3)} | Up to 6300 A | A <th>1</th> <th>5</th> | 1 | 5 |

Rated voltage 690 V AC (+ 20%)

- Only for 3WL11 circuit breakers, size 1, with high breaking capacity H (8th digit of the Article No. is a "4").

| Rated voltage | Size 1 | Up to 2000 A | A | 1 | 6 |
|---------------|--------|--------------|---|---|---|
|---------------|--------|--------------|---|---|---|

¹⁾ When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

²⁾ Not possible for circuit breakers with very high breaking capacity C.

³⁾ Front connections are tinned as standard.

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

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Accessories for electronic trip units ETU

Rating plugs

- Only one module is possible per circuit breaker (not in conjunction with electronic trip unit ETU15B).
- As standard, the electronic trip units are equipped with a rating plug which is equal to the maximum rated circuit breaker current ($I_{n \max}$). The rated current of the selected rating plug must be less than $I_{n \max}$.

| Module | Size | Rated current | Order code |
|--------|---------------|---------------|------------|
| | Sizes 1, 2 | 250 A | B 0 2 |
| | | 315 A | B 0 3 |
| | | 400 A | B 0 4 |
| | | 500 A | B 0 5 |
| | | 630 A | B 0 6 |
| | | 800 A | B 0 8 |
| | Sizes 1, 2, 3 | 1000 A | B 1 0 |
| | | 1250 A | B 1 2 |
| | | 1600 A | B 1 6 |
| | Sizes 2, 3 | 2000 A | B 2 0 |
| | | 2500 A | B 2 5 |
| | | 3200 A | B 3 2 |
| | Size 3 | 4000 A | B 4 0 |
| 5000 A | | B 5 0 | |
| 6300 A | | B 6 3 | |

Communication and metering function

| Function | Description | Order code |
|--|---|------------|
| Breaker status sensor (BSS) | For determining the statuses ON / OFF / Tripped | F 0 1 |
| PROFIBUS DP communication port ¹⁾ | Including COM15 and breaker status sensor (BSS) | F 0 2 |
| MODBUS RTU communication port ¹⁾ | Including COM16 and breaker status sensor (BSS) | F 1 2 |
| PROFINET IO / Modbus TCP communication port ¹⁾ new | Including COM35 and breaker status sensor (BSS) | F 3 5 |

Metering function Plus (communication modules not included)

| Metering function Plus | Description | Order code |
|------------------------|--|------------|
| | With internal voltage tap on the lower main conducting paths ²⁾ | F 3 6 |
| | With internal voltage tap on the upper main conducting paths ²⁾ | F 3 7 |
| | For combination with external voltage transformer | F 3 8 |

EMC filter

- Common-mode interference suppressor filters (e.g. in converter applications)
- Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB.

| EMC filter | Order code |
|------------|------------|
| | F 3 1 |

Overload and short-circuit protection for neutral conductors

- Only possible with 4-pole circuit breaker with ETU27B to ETU76B

| Internal current transformer for N conductor | Size | Order code |
|--|--------|------------|
| | Size 1 | F 2 3 |
| | Size 2 | F 2 3 |
| | Size 3 | F 2 3 |

¹⁾ When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02", "F12" or "F35" only for withdrawable circuit breaker.

²⁾ Can only be used for rated voltages up to 690 V AC.

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

Remote resetting

Automatic reset of the reclosing lockout

- Remote reset for displays and reset buttons including automatic reset of the reclosing lockout

| Remote reset magnets | | K | 0 | 1 |
|--|--|---|---|---|
| 24 V DC | | K | 1 | 0 |
| 48 V DC | | K | 1 | 1 |
| 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | | K | 1 | 2 |
| 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | | K | 1 | 3 |

Connection

Tinned version of the customer's connections on the guide frame

- Only for circuit breakers in withdrawable version with horizontal connection or flange connection.
- The normal delivery time increases to 15 work days.

| Customer's connections ^{1) 2)} | Size 1 | Size 2 | Size 3 | A | 0 | 8 |
|---|--------|--------|--------|---|---|---|
| | | | | A | 0 | 8 |
| | | | | A | 0 | 8 |
| | | | | A | 0 | 8 |

Connection technology for main connections (fixed mounting)

| Top: ³⁾ horizontal Bottom: accessible from front, single hole | Size 1 | Up to 1600 A | N | 1 | 1 |
|--|----------------------|--------------|---|---|---|
| | Size 2 | Up to 3200 A | N | 1 | 1 |
| | Size 3 ⁴⁾ | Up to 4000 A | N | 1 | 1 |
| Top: vertical Bottom: horizontal | Size 1 | Up to 2000 A | N | 2 | 0 |
| | Size 2 | Up to 3200 A | N | 2 | 0 |
| | Size 3 | Up to 5000 A | N | 2 | 0 |
| Top: horizontal Bottom: vertical | Size 1 | Up to 2000 A | N | 2 | 4 |
| | Size 2 | Up to 3200 A | N | 2 | 4 |
| | Size 3 | Up to 5000 A | N | 2 | 4 |

Connection technology for main connections (withdrawable versions)

| Top and bottom: ^{5) 6)} accessible from front, single hole | Size 1 | Up to 1600 A | P | 0 | 0 |
|---|--------|--------------|-------------------------|---|---|
| | Size 2 | Up to 3200 A | P <th>0</th> <th>0</th> | 0 | 0 |
| | Size 3 | Up to 4000 A | P <th>0</th> <th>0</th> | 0 | 0 |
| Top and bottom: ⁵⁾ accessible from front, double hole | Size 1 | Up to 1600 A | P <th>0</th> <th>1</th> | 0 | 1 |
| | Size 2 | Up to 3200 A | P <th>0</th> <th>1</th> | 0 | 1 |
| | Size 3 | Up to 4000 A | P <th>0</th> <th>1</th> | 0 | 1 |
| Top: ^{5) 6)} horizontal Bottom: accessible from front, single hole | Size 1 | Up to 1600 A | P <th>0</th> <th>7</th> | 0 | 7 |
| | Size 2 | Up to 3200 A | P <th>0</th> <th>7</th> | 0 | 7 |
| | Size 3 | Up to 4000 A | P <th>0</th> <th>7</th> | 0 | 7 |

¹⁾ Front connections are tinned as standard.

²⁾ The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

³⁾ Not for 3WL1 size 1 with high breaking capacity H and circuit breakers with very high breaking capacity C.

⁴⁾ Not for size 3 with very high breaking capacity C.

⁵⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.

⁶⁾ Not for 3WL1 size 1 with high breaking capacity H

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

| | | |
|--|--|--|
| | | |
|--|--|--|

Connection

Connection technology for main connections (withdrawable versions)

| | | | | | |
|--|--------|--------------|---|---|---|
| Top: vertical Bottom: horizontal | Size 1 | Up to 2000 A | P | 1 | 8 |
| | Size 2 | Up to 3200 A | P | 1 | 8 |
| | Size 3 | Up to 5000 A | P | 1 | 8 |
| Top: ¹⁾ connecting flange Bottom: horizontal | Size 1 | Up to 2000 A | P | 1 | 9 |
| | Size 2 | Up to 3200 A | P | 1 | 9 |
| | Size 3 | Up to 4000 A | P | 1 | 9 |
| Top: horizontal Bottom: vertical | Size 1 | Up to 2000 A | P | 2 | 3 |
| | Size 2 | Up to 3200 A | P | 2 | 3 |
| | Size 3 | Up to 5000 A | P | 2 | 3 |
| Top: ¹⁾ horizontal Bottom: connecting flange | Size 1 | Up to 2000 A | P | 2 | 8 |
| | Size 2 | Up to 3200 A | P | 2 | 8 |
| | Size 3 | Up to 4000 A | P | 2 | 8 |

Connection technology for auxiliary conductors (for fixed-mounted and withdrawable versions)

| | | | | | |
|--|---------------|--|---|---|---|
| Connection technology for screwless terminals (tension spring) | Fixed-mounted | | N | 6 | 1 |
| | Withdrawable | | P | 6 | 1 |

Operating mechanisms and auxiliary releases

| | | | | | |
|--|--|--|---|---|---|
| Motorized operating mechanisms | Only possible if the 13th digit of the Article No. = "1" | 24 ... 30 V DC | M | 0 | 1 |
| | | 48 ... 60 V DC | M | 0 | 3 |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | M | 0 | 5 |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | M | 0 | 6 |
| Mechanical operating cycles counter, 5-digit ²⁾ | | | C | 0 | 1 |
| Closing coils | • Suitable for uninterrupted duty, 100% OP • Only possible if the 13th digit of the Article No. = "1" | 24 V DC | M | 2 | 1 |
| | | 30 V DC | M | 2 | 2 |
| | | 48 V DC | M | 2 | 3 |
| | | 60 V DC | M | 2 | 4 |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | M | 2 | 5 |
| | • Not suitable for uninterrupted duty, 5% OP, synchronizable ³⁾ • Only possible if the 13th digit of the Article No. = "1" | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | M | 2 | 6 |
| | | 24 V DC | M | 3 | 1 |
| | | 48 V DC | M | 3 | 3 |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | M | 3 | 5 |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | M | 3 | 6 |
| Opening coils (shunt trips) ^{3) 4)} | Not suitable for uninterrupted duty, 5% OP, synchronizable | 24 V DC | M | 4 | 1 |
| | | 48 V DC | M | 4 | 3 |
| | | 110 ... 127 V AC 50/60 Hz / 110 ... 125 V DC | M | 4 | 5 |
| | | 208 ... 240 V AC 50/60 Hz / 220 ... 250 V DC | M | 4 | 6 |

¹⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.

²⁾ Only possible with motorized operating mechanism.

³⁾ Overexcited, i.e. switching time 50 ms (standard >80 ms).

⁴⁾ Only possible if the 14th digit of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

Auxiliary switches and signaling switches

| Position signaling switches for guide frames | 1 CO 1 CO 1 CO (connected test disconnected position) | R | 1 | 5 |
|--|--|---|---|---|
| | 3 CO 2 CO 1 CO (connected test disconnected position) | R | 1 | 6 |
| Signaling switches | Ready-to-close signaling switches (S20) | C | 2 | 2 |
| | Spring charged signaling switch ¹⁾ (S21) | C | 2 | 0 |
| | For the first auxiliary release ¹⁾ (S22) | C | 2 | 6 |
| | For the second auxiliary release ¹⁾ (S23) | C | 2 | 7 |
| | 1st tripped signaling switch ¹⁾²⁾ (S24) | K | 0 | 7 |
| | 2nd tripped signaling switch ¹⁾²⁾³⁾ (S25) | K | 0 | 6 |

Further accessories

Pushbuttons / shutdown switches / closing lockouts

| | | | | | |
|--|--|------------------|---|---|---|
| EMERGENCY-OFF pushbuttons | Mushroom pushbutton instead of the mechanical OFF pushbutton | S | 2 | 4 | |
| Electrical ON button S10 in the operator panel ¹⁾ | Possible only for circuit breakers with closing coil | With sealing cap | C | 1 | 1 |
| | | With CES lock | C | 1 | 2 |
| Motor shutdown switch on control panel ⁴⁾ (S12) | | S | 2 | 5 | |

Special packaging for increased transport requirements (moisture protection)

| | | | | |
|--|--|---|---|---|
| Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection) | | A | 6 | 1 |
|--|--|---|---|---|

Arc chute covers

- Not available for
 - 1000 V version (order code "A05"),
 - DC version
 - 4000 A size 2
 - 1150 V version (order code "A15")
 - 130 kA version, size 2
 - 150 kA version, size 3

| | | | | |
|------------------|----------------|---|---|---|
| Arc chute covers | 3-pole, 4-pole | R | 1 | 0 |
|------------------|----------------|---|---|---|

Shutters

| | | | | |
|--|----------------|---|---|---|
| Shutter: 2-part, lockable, with padlocks ¹⁾ | 3-pole, 4-pole | R | 2 | 1 |
|--|----------------|---|---|---|

¹⁾ Not possible with "communications interface" option, order code "F02", "F12" or "F35".

²⁾ Not available for non-automatic air circuit breakers.
³⁾ Only possible with option "K07".

⁴⁾ Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

| | | |
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Further accessories

Measuring transformers (without energy transformers), for powering the ETU

- Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B
 - External 24 V DC supply required
 - Undervoltage release required
- Comprises:
 - 3 (3-pole) or 4 (4-pole) transformers
 - 24 V DC relay
 - Warning signs
 - Manual

| | | | | | |
|-------------|----------------|----------------|---|---|---|
| Transformer | 3-pole, 4-pole | Size 2, size 3 | K | 6 | 0 |
|-------------|----------------|----------------|---|---|---|

Operating manual, printed version

| | | | | | |
|----------------|--|--|---|---|---|
| French/Italian | | | A | 1 | 1 |
|----------------|--|--|---|---|---|

| | | | | | |
|--------------------|--|--|---|---|---|
| Spanish/Portuguese | | | A | 1 | 2 |
|--------------------|--|--|---|---|---|

Interlocking

Mechanical interlocks

- Interlocking module with Bowden cable 2 m

| | | | | | |
|---------------------------------|--|--|---|---|---|
| Mutual mechanical interlockings | | For fixed-mounted breakers | S | 5 | 5 |
| | | For withdrawable circuit breakers with guide frame | R | 5 | 5 |
| | | For guide frames (ordered separately) | R | 5 | 6 |
| | | For withdrawable circuit breakers (ordered separately) | R | 5 | 7 |

Locking devices (for fixed-mounted and withdrawable versions)

- The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1

| | | | | | |
|-----------------|--|--|---|---|---|
| Locking devices | To prevent unauthorized activation in the operator panel | Made by CES | S | 0 | 1 |
| | | Made by IKON | S | 0 | 3 |
| | | Assembly kit FORTRESS or Castell ¹⁾ | S | 0 | 5 |
| | | Assembly kit for padlocks ²⁾ | S | 0 | 7 |
| | | Made by Ronis | S | 0 | 8 |
| | | Made by Profalux | S | 0 | 9 |

Locking devices (for fixed-mounted and withdrawable versions)

| | | | | | |
|-----------------|---|--|---|---|---|
| Locking devices | For operating mechanism handle with padlock ²⁾ | | S | 3 | 3 |
|-----------------|---|--|---|---|---|

¹⁾ Locks must be ordered from the manufacturer.

²⁾ Padlock not included in the scope of supply.

Accessory options

For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).

3WL.....-.....-..... -Z

Order code

Interlocking

Locking devices (for withdrawable version)

- The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1, consisting of a lock in the guide frame, active in the connected position, function is retained when circuit breaker is replaced.
- Not possible in combination with order code "R81", "R85" or "R86".

| Locking devices | To prevent unauthorized activation in the operator panel | Made by CES | R | 6 | 1 |
|-----------------|--|------------------|---|---|---|
| | | Made by Ronis | R | 6 | 8 |
| | | Made by Profalux | R | 6 | 0 |

Locking devices (for withdrawable version)

- Safety lock for mounting onto the circuit breaker

| Locking devices | To prevent movement of withdrawable circuit breaker | Made by CES | S | 7 | 1 |
|-----------------|---|------------------|-------------------------|---|---|
| | | Made by Profalux | S <th>7</th> <th>5</th> | 7 | 5 |
| | | Made by Ronis | S <th>7</th> <th>6</th> | 7 | 6 |

Locking mechanisms

- Not possible in combination with order code "R81", "R85" or "R86".

| | | | | | |
|---|--|--|---|---|---|
| For fixed-mounted circuit breakers | To prevent opening of the cabinet door in ON position | | S | 3 | 0 |
| For withdrawable circuit breakers | To prevent opening of the cabinet door in connected position | | R | 3 | 0 |
| | To prevent activation when the cabinet door is open ^{1) 3)} | | R | 4 | 0 |
| | To prevent movement when the cabinet door is open ²⁾ | | R | 5 | 0 |

Locking mechanisms to prevent movement of the withdrawable circuit breaker in disconnected position

- Consisting of Bowden cable and lock in the cabinet door
- Not possible in combination with order code "R30", "R50", "R61", "R68" or "R60".

| | | | | | |
|-------------------------|--|--|---|---|---|
| Made by CES | | | R | 8 | 1 |
| Made by Profalux | | | R | 8 | 5 |
| Made by Ronis | | | R | 8 | 6 |

Seals

| | | | | | |
|---|--|--|---|---|---|
| Door sealing frame for degree of protection IP41 | | | T | 4 | 0 |
|---|--|--|---|---|---|

Accessories from current catalog

Use of the withdrawable circuit breaker in combination with an older guide frame

- Reduction of the technical specifications for withdrawable circuit breakers 3WL1 for use in combination with older guide frames supplied
 - as complete circuit breaker with 3WL1.....3-..... or 3WL1.....4-..... or
 - as 3WL92...-A-..... or
 - as 3WL92...-B-..... or
 - as 3WL92...-D-..... or
 - as 3WL92...-E-..... or
- for sizes 1 to 3.

| | | | | | |
|---|--|--|---|---|---|
| Use of the circuit breaker in older guide frames, including the appropriate guide frame coding | | | A | 4 | 1 |
|---|--|--|---|---|---|

¹⁾ Not available in combination with R50

²⁾ Not available in combination with R40

³⁾ Combination with R81, R85 and R86 on request

Further technical specifications

Manual operating mechanism

3WL11 – 3WL13

| Switching on/charging the stored-energy operating mechanism | |
|---|--------|
| Maximum force required to operate the hand lever | ≤230 N |
| Required number of strokes on the hand lever | 9 |

Closing coils

3WL11 – 3WL13

| Primary operating range | | |
|--|---|--|
| Primary operating range | 0.85 ... 1.1 × U _s | |
| Extended operating range for battery operation | At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC | |
| 0.7 ... 1.26 × U _s | | |
| Rated voltage | | |
| Rated control supply voltage U _s | 50/60 Hz AC | 110 ... 127 V, 208 ... 240 V |
| | DC | 24 V, 30 V, 48 V, 60 V, 110 ... 125 V, 220 ... 250 V |
| Operation | | |
| Power consumption | AC/DC | 15 VA/15 W |
| Min. command duration at U _s for the closing coil | | 60 ms |
| Short-circuit protection | | |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; manual operating mechanism with mechanical and electrical closing | | 1 A TDz (slow)/1 A |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; motor and closing coil for the same rated control supply voltages; motorized operating mechanism with mechanical and electrical closing | | 6 A TDz (slow)/2 A |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) | At U _s = 24 ... 30 V | 6 A |
| | At U _s = 48 ... 60 V | 6 A |
| | At U _s = 110 ... 125 V DC/ 110 ... 127 V AC | 2 A |
| | At U _s = 220 ... 250 V DC/ 208 ... 240 V AC | 2 A |

Motor

3WL11 – 3WL13

| Primary operating range | | |
|---|---|--|
| Primary operating range | 0.85 ... 1.1 × U _s | |
| Extended operating range for battery operation | At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC | |
| 0.7 ... 1.26 × U _s | | |
| Operation | | |
| Power consumption of motor | AC/DC | 24/30 V DC, 110 W; 48/60 V DC, 120 W; 110 ... 127 V AC/110 ... 125 V DC, 150 W; 200 ... 240 V AC/220 ... 250 V DC, 130 W |
| Time required to charge the spring energy store at 1 × U _s | | ≤10 s |
| Short-circuit protection | | |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; motor and closing coil for the same rated control supply voltages | | 6 A TDz (slow)/2 A |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) | At U _s = 24 ... 30 V | 6 A |
| | At U _s = 48 ... 60 V | 6 A |
| | At U _s = 110 ... 125 V DC/ 110 ... 127 V AC | 2 A |
| | At U _s = 220 ... 250 V DC/ 208 ... 240 V AC | 2 A |

Signals of the electronic trip unit

3WL11 – 3WL13

| Signals of the electronic trip unit | |
|--|---|
| Measuring accuracy of the electronic trip unit | Protection functions acc. to EN 60947; current indication ≤10%; metering function for base quantities ≤1%; metering function for derived quantities ≤4% |

Accessory options

Further technical specifications

Undervoltage releases UVR (F3) and UVR-t_d (F4)

3WL11 – 3WL13

| Primary operating range | | |
|---|---|--|
| Response values | Pickup | $\geq 0.85 \times U_s$ (circuit breaker can be closed) |
| | Dropout | $0.35 \dots 0.7 \times U_s$ (circuit breaker is tripped) |
| Primary operating range | | $0.85 \dots 1.1 \times U_s$ |
| Extended operating range for battery operation | | At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC $0.85 \dots 1.26 \times U_s$ |
| Rated voltage | | |
| Rated control supply voltage U_s | Instantaneous 50/60 Hz AC | 110 ... 127 V, 208 ... 240 V, 380 ... 415 V |
| | Instantaneous DC | 24 V, 30 V, 48 V, 60 V, 110 ... 125 V, 220 ... 250 V ¹⁾ |
| | Delayed 50/60 Hz AC | 110 ... 127 V, 208 ... 240 V, 380 ... 415 V |
| | Delayed DC | 48 V, 110 ... 125 V, 220 ... 250 V |
| Operation | | |
| Power consumption (pickup/uninterrupted duty) | AC | 20/5 VA |
| | DC | 20/5 W |
| Opening time of the circuit breaker | | |
| Opening time of the circuit breaker at $U_s = 0$ | | 200 ms |
| Version UVR (F3) | Instantaneous | 73 ms |
| | With delay | 200 ms |
| Version UVR-t _d (F8) | With delay, $t_d = 0.2$ to 3.2 s | $0.2 \dots 3.2$ s |
| | Reset through additional NC contact – direct tripping | ≤ 100 ms |
| Short-circuit protection | | |
| Smallest permissible DIAZED fuse (operational class gL)/miniature circuit breaker with C characteristic | | 1 A TDz (slow)/1 A |

Shunt trip (ST) (F1, F2)

3WL11 – 3WL13

| Primary operating range | | | |
|---|-------------|---|---|
| Version | | For continuous command (100% OP), locks out on momentary-contact commands | 5% OP With spring energy store consisting of shunt trip and capacitor storage device |
| Response values | Pickup | $> 0.7 \times U_s$ (circuit breaker is tripped) | $> 0.7 \times U_s$ (circuit breaker is tripped) |
| | | $0.7 \dots 1.1 \times U_s$ | $0.7 \dots 1.1 \times U_s$ |
| Primary operating range | | $0.7 \dots 1.1 \times U_s$ | $0.85 \dots 1.1 \times U_s$ |
| Extended operating range for battery operation | | At 24 V DC, 48 V DC, 60 V DC, 110 V DC, 220 V DC $0.7 \dots 1.26 \times U_s$ | $0.7 \dots 1.26 \times U_s$ |
| Rated voltage | | | |
| Rated control supply voltage U_s | 50/60 Hz AC | 110 ... 127 V, 208 ... 240 V | 110 ... 127 V, 208 ... 240 V |
| | DC | 24 V, 30 V, 48 V, 60 V, 110 ... 125 V, 220 ... 250 V | 24 V, 48 V, 110 ... 125 V, 220 ... 250 V |
| 110 V, 230 V | | | |
| 110 V, 220 V | | | |
| Operation | | | |
| Power consumption | AC/DC | 15 VA/15 W | 15 VA/15 W |
| Min. command duration at U_s | | 60 ms | 25 ms |
| Storage time at $U_s/!$ Recharging time at U_s | | – | – |
| | | | max. 5 min/ min. 5 s |
| Opening time of the circuit breaker | | | |
| Opening time of the circuit breaker at $U_s = 100\%$ | At AC/DC | 80 ms | 50 ms |
| 80 ms | | | |
| Short-circuit protection | | | |
| Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic | | 1 A TDz (slow)/1 A | 1 A TDz (slow)/1 A |
| | | | 1 A TDz (slow)/1 A |

¹⁾ 24 V and 30 V only with undervoltage release UVR (F3)

Remote reset magnet for mechanical tripped indicator (F7)

3WL11 – 3WL13

| Primary operating range | | |
|---|---|---|
| Primary operating range | | 0.85 ... 1.1 × U _s |
| Extended operating range for battery operation | At 24 V DC, 48 V DC 110 V DC 220 V DC | 0.7 ... 1.26 × U _s |
| Operation | | |
| Power consumption | AC/DC | 50 VA/50 W |
| Min. command duration at U _s for the remote reset magnet | | 60 ms |
| Short-circuit protection | | |
| Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic | | 2 A TDz (slow)/1 A at 24 V DC and 48 V DC, 1 A TDz (slow)/1 A at 110 V and 208 ... 250 V |

Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8)

3WL11 – 3WL13

| Rated voltage | | | | | |
|---|---|---------------------|--------------|-------|-------|
| Rated insulation voltage U _i | AC/DC | 500 V | | | |
| Rated operational voltage U _e | AC/DC | 500 V | | | |
| Rated impulse withstand voltage U _{imp} | | 4 kV | | | |
| Contact reliability | | From 1 mA at 5 V DC | | | |
| Breaking capacity | | | | | |
| Alternating current 50/60 Hz | Rated operational voltage U _e | 24 ... 230 V | 380 V, 400 V | | |
| | Rated operational current I _e /AC-12 | 10 A | 10 A | | |
| | Rated operational current I _e /AC-15 | 4 A | 3 A | | |
| Direct current | Rated operational voltage U _e | 24 V | 48 V | 110 V | 220 V |
| | Rated operational current I _e /DC-12 | 10 A | 8 A | 3.5 A | 1 A |
| | Rated operational current I _e /DC-13 | 8 A | 4 A | 1.2 A | 0.4 A |
| Short-circuit protection | | | | | |
| Largest permissible DIAZED fuse (operational class gL) | | 10 A TDz, 10 A Dz | | | |
| Largest permissible miniature circuit breaker with C characteristic | | 10 A | | | |

Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630)

3WL11 – 3WL13

| Breaking capacity | | | | | |
|--|--|---------------------|-------|--|--|
| Alternating current 50/60 Hz | Rated operational voltage U _e | 250 V | | | |
| | Rated operational current I _e | 8 A | | | |
| Direct current | Rated operational voltage U _e | 125 V | 250 V | | |
| | Rated operational current I _e | 0.4 A | 0.2 A | | |
| | Contact reliability | From 1 mA at 5 V DC | | | |
| Short-circuit protection | | | | | |
| Largest permissible DIAZED fuse (operational class gL) | | 2 A Dz (quick) | | | |

1

Accessory options

Further technical specifications

Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)

3WL11 – 3WL13

| Breaking capacity | | | |
|--|---------------------------------------|--|------------------|
| Alternating current 50/60 Hz | Rated operational voltage U_e | 250 V | |
| | Rated operational current $I_e/AC-12$ | 8 A | |
| Direct current | Rated operational voltage U_e | 24 V | 125 V 250 V |
| | Rated operational current $I_e/DC-12$ | 6 A | 0.4 A 0.2 A |
| | Contact reliability | From 1 mA at 5 V DC | |
| Short-circuit protection | | | |
| Largest permissible DIAZED fuse (operational class gL) | | 6 A Dz (quick) | |
| Tripped signaling switches | | | |
| Signal duration after tripping | | Until manual or electrical remote reset (option) | |

Position signaling switches on guide frame

3WL11 – 3WL13

| Type of contacts | | | |
|---|--|---|--------------|
| Message | "Circuit breaker in connected position" | 3 CO | or 1 CO |
| | "Circuit breaker in test position" | 2 CO | or 1 CO |
| | "Circuit breaker in disconnected position" | 1 CO | or 1 CO |
| Contact reliability (valid from April 1, 2020) | | From 1 mA at 5 V DC | |
| Rated voltage | | | |
| Rated insulation voltage U_i | 50/60 Hz AC | 440 V | |
| | DC | 250 V | |
| Rated operational voltage U_e | | 250 V | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | |
| Breaking capacity | | | |
| Rated operational current I_e | $I_e/AC-12$ | 24 V 10 A, 110/127 V 10 A, 220/240 V 10 A, 320/440 V 10 A | |
| | $I_e/AC-15$ | 220/240 V 4 A, 320/440 V 3 A | |
| | $I_e/DC-12$ | 24 V 10 A, 48 V 2.5 A, 220/240 V 0.2 A | |
| | $I_e/DC-13$ | 24 V 3.0 A, 220/240 V 0.1 A | |
| | A 300 (AC) | 120 V 6 A, 240 V 3 A | |
| | R 300 (DC) | 125 V 0.22 A, 250 V 0.11 A | |
| Short-circuit protection | | | |
| Largest permissible DIAZED fuse (operational class gL) | | 8 A TDz (slow) | |
| Largest permissible automatic circuit breaker with C characteristic | | 8 A TDz (slow) | |

Guide frames for AC

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your Guide frame, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|-------------------------|--|--|--|---|---|----|----|----|----|----|----|----|
| 3WL9 | | 2 | 1 | – | – | – | – | – | – | – | – | – | 1 |
| Size | 1 | | | 1 | | | | | | | | | |
| | 2 | | | 2 | | | | | | | | | |
| | 3 | | | 3 | | | | | | | | | |
| | | SZ 1 | SZ 2 | SZ 3 | | | | | | | | | |
| Max. rated current | 1000 A ⁶⁾ | ■ | – | – | | | | | | | | | 1 |
| I_n | 1600 A ⁶⁾ | ■ | – | – | | | | | | | | | 2 |
| | 2000 A ⁶⁾ | ■ | ■ | – | | | | | | | | | 3 |
| | 2500 A ⁶⁾ | – | ■ | – | | | | | | | | | 4 |
| | 3200 A | – | ■ | – | | | | | | | | | 5 |
| | 4000 A ⁶⁾ | – | ■ | ■ | | | | | | | | | 6 |
| | 5000 A | – | – | ■ | | | | | | | | | 7 |
| | 6300 A | – | – | ■ | | | | | | | | | 8 |
| Number of poles | 3-pole | | | | | | | | | | | | F |
| | 4-pole | | | | | | | | | | | | G |
| Main connection | Front, single hole | <input type="checkbox"/> ¹⁾ | <input type="checkbox"/> ²⁾ | <input type="checkbox"/> ³⁾ | | | | | | | | | A |
| | Front, double hole | ■ | <input type="checkbox"/> ²⁾ | <input type="checkbox"/> ³⁾ | | | | | | | | | B |
| | Horizontal | ■ | <input type="checkbox"/> ²⁾ | <input type="checkbox"/> ⁴⁾ | | | | | | | | | C |
| | Vertical | ■ | ■ | ■ | | | | | | | | | D |
| | Connecting flange | ■ | <input type="checkbox"/> ²⁾ | <input type="checkbox"/> ³⁾ | | | | | | | | | E |
| Breaking capacity | N, 55 kA | ■ | – | – | | | | | | | | | N |
| I_{cu} = I_{cs} | S, 66 kA | ■ | – | – | | | | | | | | | S |
| | H, 85 kA | <input type="checkbox"/> ⁵⁾ | – | – | | | | | | | | | H |
| | N, S and H Up to 100 kA | – | ■ | ■ | | | | | | | | | H |
| | C 130 kA | – | ■ | – | | | | | | | | | C |
| | C 150 kA | – | – | ■ | | | | | | | | | C |

- Applies in this case
- Partially applies in this case

- ¹⁾ Not available for rated circuit breaker current 2000 A and breaking capacity H
- ²⁾ Not available for rated circuit breaker current 4000 A and breaking capacity C
- ³⁾ Not available for rated circuit breaker current 5000 A+6300A+breaking capacity C

- ⁴⁾ Not available for rated circuit breaker current 6300 A
- ⁵⁾ Not available for rated circuit breaker current 1000 A + 1600 A
- ⁶⁾ Not available for breaking capacity C

Options

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 3WL9 | | 2 | 1 | – | – | – | – | – | – | – | – | – | 1 |
| Number of auxiliary supply connectors | Without ²⁾ | | | | | | | 0 | | | | | |
| | 1 connector | | | | | | | 1 | | | | | |
| | 2 connectors | | | | | | | 2 | | | | | |
| | 3 connectors | | | | | | | 3 | | | | | |
| | 4 connectors | | | | | | | 4 | | | | | |
| Type of auxiliary circuit connections | Without ²⁾ | | | | | | | 0 | | | | | |
| | With screw terminals (SIGUT, standard) | | | | | | | 1 | | | | | |
| | With screwless terminals (tension spring) | | | | | | | 2 | | | | | |
| Position signaling switches | Without | | | | | | | | | | | | 0 |
| | 1 CO 1 CO 1 CO (connected test isolated position) | | | | | | | | | | | | 1 |
| | 3 CO 2 CO 1 CO (connected test isolated position) | | | | | | | | | | | | 2 |
| Shutters | Without | | | | | | | | | | | | A |
| | With shutter, 2-part, lockable | | | | | | | | | | | | B |

⁸⁾ Can only be selected if the number of the auxiliary supply connector is zero.

Guide frames for DC

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your Guide frame, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

1

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------------|----------------------------------|---|---|---|---|---|----|----|----|----|----|----|----|
| 3WL9 | | 2 | 1 | 2 | – | | | | | – | | 0 | 1 |
| Max. rated current I_n | 2000 A | | | | 3 | | | | | | | | |
| | 4000 A | | | | 6 | | | | | | | | |
| Number of poles | 3-pole | | | | | H | | | | | | | |
| | 4-pole | | | | | J | | | | | | | |
| Main connection | Front, single hole ¹⁾ | | | | | | A | | | | | | |
| | Front, double hole ¹⁾ | | | | | | B | | | | | | |
| | Horizontal | | | | | | C | | | | | | |
| | Vertical | | | | | | D | | | | | | |
| | Connecting flange | | | | | | E | | | | | | |

¹⁾ Not available for rated circuit breaker current 4000 A

Optionen

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------------------------------------|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 3WL9 | | 2 | 1 | 2 | – | | | | | – | | 0 | 1 |
| Number of auxiliary supply connectors | Without | | | | | | | 0 | | | | | |
| | 1 connector | | | | | | | 1 | | | | | |
| | 2 connectors | | | | | | | 2 | | | | | |
| | 3 connectors | | | | | | | 3 | | | | | |
| | 4 connectors | | | | | | | 4 | | | | | |
| Type of auxiliary circuit connections | Without ²⁾ | | | | | | | | 0 | | | | |
| | With screw terminals (SIGUT, standard) | | | | | | | | 1 | | | | |
| | With screwless terminals (tension spring) | | | | | | | | 2 | | | | |
| Position signaling switches | Without | | | | | | | | | | 0 | | |
| | 1 CO 1 CO 1 CO (connected test isolated position) | | | | | | | | | | 1 | | |
| | 3 CO 2 CO 1 CO (connected test isolated position) | | | | | | | | | | 2 | | |
| Shutters | Without | | | | | | | | | | A | | |
| | With shutter, 2-part, lockable | | | | | | | | | | B | | |

²⁾ Can only be selected if the number of the auxiliary supply connector is zero.

Accessories and spare parts

Accessories for electronic trip units ETU

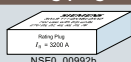
Protective devices with device holder and optional metering function



- For replacement in existing circuit breakers, please specify the circuit breaker ID No. when ordering.

| Type | With protection function | Metering function | Article No. |
|--------------------------|--------------------------|--|--------------------|
| ETU15B | LI | Without | 3WL9311-5AA00-0AA2 |
| ETU25B | LSI | Without | 3WL9312-5AA00-0AA2 |
| ETU27B | LSING | Without | 3WL9312-7AA00-0AA2 |
| ETU45B (without display) | LSIN(G) | Without | 3WL9314-5AA00-0AA2 |
| | | With metering function Plus new | 3WL9314-5AA30-0AA2 |
| ETU76B | LSIN(G) | Without | 3WL9317-6AA00-0AA2 |
| | | With metering function Plus new | 3WL9317-6AA30-0AA2 |

Rating plugs



- With the rating plug selected, the maximum rated current $I_{n \max}$ of the circuit breaker must not be exceeded. The following applies: $I_n \leq I_{n \max}$.

| Size | Rated current I_n | Article No. |
|---------|---------------------|--------------------|
| 1, 2 | 250 A | 3WL9111-0AA51-0AA0 |
| | 315 A | 3WL9111-0AA52-0AA0 |
| | 400 A | 3WL9111-0AA53-0AA0 |
| | 500 A | 3WL9111-0AA54-0AA0 |
| | 630 A | 3WL9111-0AA55-0AA0 |
| | 800 A | 3WL9111-0AA56-0AA0 |
| 1, 2, 3 | 1000 A | 3WL9111-0AA57-0AA0 |
| | 1250 A | 3WL9111-0AA58-0AA0 |
| | 1600 A | 3WL9111-0AA61-0AA0 |
| 2, 3 | 2000 A | 3WL9111-0AA62-0AA0 |
| | 2500 A | 3WL9111-0AA63-0AA0 |
| | 3200 A | 3WL9111-0AA64-0AA0 |
| 3 | 4000 A | 3WL9111-0AA65-0AA0 |
| | 5000 A | 3WL9111-0AA66-0AA0 |
| | 6300 A | 3WL9111-0AA67-0AA0 |

Ground-fault modules



- Alarm and tripping
- For direct metering of the ground-fault current, e.g. in the star point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 Ω . If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

| Type | Accessory for | Article No. |
|------------------|---------------|--------------------|
| GFM AT 45B | ETU45B | 3WL9111-0AT53-0AA0 |
| GFM AT 55B – 76B | ETU76B | 3WL9111-0AT56-0AA0 |

Display



| Accessory for | Version | Article No. |
|---------------|---------|--------------------|
| ETU45B | 4-line | 3WL9111-0AT81-0AA0 |

Internal current transformers, for N conductor including wiring kit

| ETU Release 2 | Size | Article No. |
|---------------|------|--------------------|
| – | 1 | 3WL9111-0AA11-0AA0 |
| | 2 | 3WL9111-0AA12-0AA0 |
| | 3 | 3WL9111-0AA13-0AA0 |
| ✓ | 1 | 3WL9111-0AA14-0AA0 |
| | 2 | 3WL9111-0AA15-0AA0 |
| | 3 | 3WL9111-0AA16-0AA0 |

External current transformers for N conductor

| Copper connection pieces | Size | Article No. |
|--------------------------|------|--------------------|
| – | 1 | 3WL9111-0AA21-0AA0 |
| | 2 | 3WL9111-0AA22-0AA0 |
| | 3 | 3WL9111-0AA23-0AA0 |
| ✓ | 1 | 3WL9111-0AA31-0AA0 |
| | 2 | 3WL9111-0AA32-0AA0 |
| | 3 | 3WL9111-0AA33-0AA0 |



Accessories and spare parts

Accessories for electronic trip units ETU

EMC filter

- Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)
- Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB.

Variants

Only for ETU Release 2

Article No.

3WL9111-0AK34-0AA0

Sealable and lockable covers



Accessory for

ETU15B to ETU45B

Article No.

3WL9111-0AT45-0AA0

ETU76

3WL9111-0AT46-0AA0

Automatic reset of the reclosing lockout

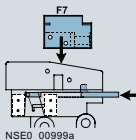
Version

Spare part for option K01

Article No.

3WL9111-0AK21-0AA0

Remote reset magnets



- For mechanical tripped indicator
- Spare part for options K10 to K13
- **Note:**
 - Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 is also required

Voltage

24 V DC

Article No.

3WL9111-0AK03-0AA0

48 V DC

3WL9111-0AK04-0AA0

120 V AC / 125 V DC

3WL9111-0AK05-0AA0

208 ... 250 V AC / 208 ... 250 V DC

3WL9111-0AK06-0AA0

Retrofittable internal wiring

Purpose

Internal CubicleBUS wiring for connection to terminal X8

Male connector

Without male connector for retrofitting the communication

Accessory for

ETU45B and ETU76B

Article No.

3WL9111-0AK30-0AA0

For connection of the external N and G transformers to terminal X8

Without male connector

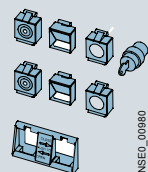
Not for ETU Release 2
ETU Release 2

3WL9111-0AK31-0AA0

3WL9111-0AK33-0AA0

Locking devices and interlocks

Padlockable protective cover ON / OFF



- Consisting of two transparent covers each for sealing or for attaching padlocks (padlocks not included in scope of supply)
- Cover with 6.35 mm hole (for tool actuation)
- Lock mount for safety lock for key operation

Version

Without safety lock

Article No.

3WL9111-0BA21-0AA0

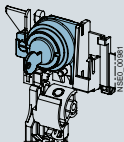
Made by CES

3WL9111-0BA22-0AA0

Made by IKON

3WL9111-0BA24-0AA0

Locking devices against unauthorized closing, in the operator panels



- The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Spare part for options S01 to S09

Variant

Assembly kit FORTRESS or Castell

Scope of supply

Without locks, cylinders or keys

Article No.

3WL9111-0BA31-0AA0

Made by Ronis

Locks, cylinders and keys included

3WL9111-0BA33-0AA0

Made by KIRK-Key

Without locks, cylinders or keys

3WL9111-0BA34-0AA0

Made by Profalux

Locks, cylinders and keys included

3WL9111-0BA35-0AA0

Made by CES

Locks, cylinders and keys included

3WL9111-0BA36-0AA0

Made by IKON

Locks, cylinders and keys included

3WL9111-0BA38-0AA0

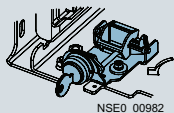
Assembly kit for padlocks

Without padlock

3WL9111-0BA41-0AA0

Locking devices and interlocks

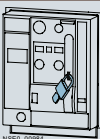
Locking devices against unauthorized closing, for withdrawable circuit breakers



- The disconnecter unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced
- Spare part for option R60, R61, R68

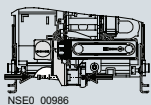
| Variant | Scope of supply | Article No. |
|--------------------------------|------------------------------------|--------------------|
| Made by CES | Locks, cylinders and keys included | 3WL9111-OBA51-OAAO |
| Made by IKON | Locks, cylinders and keys included | 3WL9111-OBA53-OAAO |
| Made by KIRK-Key ¹⁾ | Without locks, cylinders or keys | 3WL9111-OBA57-OAAO |
| Made by Ronis | Locks, cylinders and keys included | 3WL9111-OBA58-OAAO |
| Made by Profalux | Locks, cylinders and keys included | 3WL9111-OBA50-OAAO |

Locking devices for operating mechanism handle with padlock



| Version | Scope of supply | Article No. |
|--------------------|-----------------|--------------------|
| Spare part for S33 | Without padlock | 3WL9111-OBA71-OAAO |

Locking device against movement of the withdrawable circuit breaker



- Safety lock for mounting onto the circuit breaker
- Spare part for option S71, S75, S76

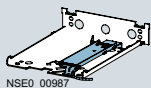
| Variant | Scope of supply | Article No. |
|--------------------------------|------------------------------------|--------------------|
| Made by CES | Locks, cylinders and keys included | 3WL9111-OBA73-OAAO |
| Made by IKON | Locks, cylinders and keys included | 3WL9111-OBA75-OAAO |
| Made by Profalux | Locks, cylinders and keys included | 3WL9111-OBA76-OAAO |
| Made by Ronis | Locks, cylinders and keys included | 3WL9111-OBA77-OAAO |
| Made by KIRK-Key ¹⁾ | Without locks, cylinders or keys | 3WL9111-OBA80-OAAO |

Interlocking systems

- 2 of the same keys for 3 circuit breakers
- Locking device in OFF position
- Lock in the operator panel
- A maximum of 2 circuit breakers can be switched on

| Variant | Article No. |
|-------------|--------------------|
| Made by CES | 3WL9111-OBA43-OAAO |

Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position



- Consisting of Bowden cable and lock in the cabinet door on the circuit breaker
- Spare part for option R81, R85, R86
- **Note:**
 - Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50").).

| Variant | Article No. |
|------------------|--------------------|
| Made by CES | 3WL9111-OBA81-OAAO |
| Made by IKON | 3WL9111-OBA83-OAAO |
| Made by Profalux | 3WL9111-OBA85-OAAO |
| Made by Ronis | 3WL9111-OBA86-OAAO |

Locking devices to prevent opening of the cabinet door in ON position



- Fixed-mounted
- Defeatable
- **Note:**
 - Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

| Version | Article No. |
|---------------------------|--------------------|
| Spare part for option S30 | 3WL9111-0BB12-OAAO |

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Accessories and spare parts

Locking devices and interlocks

Locking devices to prevent opening of the cabinet door

- Guide frames
- Defeatable
- **Note:**
 - Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

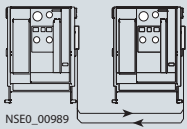
| Version | Article No. |
|---------------------------|--------------------|
| Spare part for option R30 | 3WL9111-0BB13-0AA0 |

Locking devices to prevent movement with the cabinet door open

- Guide frames
- **Note:**
 - Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

| Version | Article No. |
|---------------------------|--------------------|
| Spare part for option R50 | 3WL9111-0BB15-0AA0 |

Mutual mechanical interlockings



- With Bowden cable 2000 mm (one required for each circuit breaker)

| Type | When ordered separately | Spare part for | Article No. |
|---|-------------------------|----------------|--------------------|
| Fixed-mounted circuit breaker | – | Option S55 | 3WL9111-0BB21-0AA0 |
| Module for withdrawable circuit breakers with guide frame | – | Option R55 | 3WL9111-0BB24-0AA0 |
| Module for guide frame | ✓ | Option R56 | 3WL9111-0BB22-0AA0 |
| Module for withdrawable circuit breaker | ✓ | Option R57 | 3WL9111-0BB23-0AA0 |
| Adapter for size 3 withdrawable circuit breaker | ✓ | – | 3WL9111-0BB30-0AA0 |

Couplings on the circuit breaker (with ring) for mutual interlocking



- Can be used in all circuit breakers

| Article No. |
|--------------------|
| 3WL9112-8AH47-0AA0 |

Bowden cables

| Length | Article No. |
|---------|--------------------|
| 2000 mm | 3WL9111-0BB45-0AA0 |
| 3000 mm | 3WL9111-0BB46-0AA0 |
| 4500 mm | 3WL9111-0BB47-0AA0 |

Test devices

Manual tester, Release 2 for electronic trip units ETU15B to ETU76B



- For testing the electronic trip unit functions of all 3WL ETUs (Release 1 and Release 2)

| Article No. |
|--------------------|
| 3WL9111-0AT32-0AA0 |

Function test unit

- For testing the tripping characteristics for electronic trip units ETU15B to ETU76B (Release 1 and Release 2)

| Article No. |
|--------------------|
| 3WL9111-0AT44-0AA0 |

TD400 Kit IEC

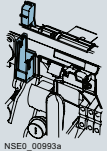
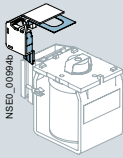
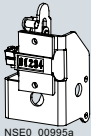
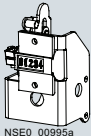
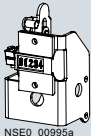
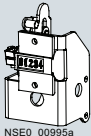
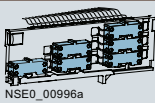
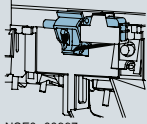
- Commissioning /Service Tool for IEC 3WL (ETU Release 2) and 3VA
- With adapter, cable and case

| Article No. |
|---------------|
| 3VW9011-0AT40 |

TD400 adapter (spare part)

| Version | Article No. |
|-----------------------|---------------|
| for 3VA | 3VW9011-0AT43 |
| for 3WL ETU Release 1 | 3VW9011-0AT44 |
| for 3WL ETU Release 2 | 3VW9011-0AT45 |

Indicators and control elements

| Ready-to-close signaling switches (S20) | | | |
|---|---|--|--|
|  | Version | Contacts | Article No. |
| | Spare part for option C22 | 1 NO contact | 3WL9111-0AH01-0AA0 |
| Signaling switch (S22 or S23). | | | |
|  | <ul style="list-style-type: none"> Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connection X7 required for circuit breakers or guide frames. If this is not already available, please order additionally | | |
| | Version | Contacts | Article No. |
| Spare part for options C26 to C27 | 1st or 2nd auxiliary release | 3WL9111-0AH02-0AA0 | |
| 1st tripped signaling switch (S24) | | | |
|  | <ul style="list-style-type: none"> Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connection X7 required for circuit breakers or guide frames. If this is not already available, please order additionally | | |
| | Version | Contacts | Article No. |
| Spare part for option K07 | 1 CO contact | 3WL9111-0AH14-0AA0 | |
| 2nd tripped signaling switch (S25) | | | |
|  | <ul style="list-style-type: none"> Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connection X7 required for circuit breakers or guide frames. If this is not already available, please order additionally Can only be used in combination with 1st tripped signaling switch | | |
| | Version | Contacts | Article No. |
| Spare part for option K06 | 1 NO contact | 3WL9111-0AH17-0AA0 | |
| Operating cycle counters | | | |
|  | <ul style="list-style-type: none"> Only in conjunction with motorized operating mechanism. | | |
| | Variant | Version | Article No. |
| Spare part for option C01 | Mechanical | 3WL9111-0AH07-0AA0 | |
| Spring charged signaling switch | | | |
|  | <ul style="list-style-type: none"> Not possible with communication port, order code "F02", "F12" or "F35". Auxiliary supply connection X7 required for circuit breakers or guide frames. If this is not already available, please order additionally | | |
| | Version | Contacts | Article No. |
| Spare part for option C20 | 1 NO contact | 3WL9111-0AH08-0AA0 | |
| Position signaling switches for guide frames | | | |
|  | Version | Contacts | Article No. |
| | Spare part for options R15 to R16 | 1st block (3 CO contacts) 2nd block (6 CO contacts) | 3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0 |
| Electrical ON button (S10) for operator panel | | | |
|  | <ul style="list-style-type: none"> Not possible with communication port, order code "F02", "F12" or "F35" Not possible with motor shutdown switch Button + wiring (Auxiliary supply connection X7 required for circuit breakers or guide frames. If this is not already available, please order additionally) Note: <ul style="list-style-type: none"> Possible only for circuit breakers with closing coil. | | |
| | Version | Variant | Article No. |
| Spare part for options C11 to C12 | With sealing cap C11 | 3WL9111-0AJ02-0AA0 | |
| | With CES assembly kit C12 | 3WL9111-0AJ03-0AA0 | |
| | With IKON assembly kit | 3WL9111-0AJ05-0AA0 | |

Accessories and spare parts

Indicators and control elements

Motor cutout switch (S12)

- Mounting onto operator panel
- Not possible with electrical ON button

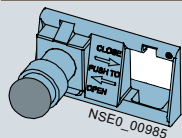
Version

Spare part for option S25

Article No.

3WL9111-0AJ06-0AA0

EMERGENCY-OFF pushbuttons



- Mushroom pushbutton instead of the mechanical OFF pushbutton

Variant

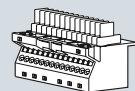
Spare part for option S24

Article No.

3WL9111-0BA72-0AA0

Auxiliary conductor connections

Male connectors for circuit breakers ①



Article No.

3WL9111-0AB01-0AA0

Extension for male connector

- Male connector must be ordered separately

Version

1000 V

Article No.

3WL9111-0AB02-0AA0

Male connectors and extension

Version

1000 V

Article No.

3WL9111-0AB10-0AA0

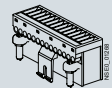
Auxiliary supply connection for circuit breakers or guide frames ②

Version

Screw connection (SIGUT)

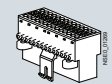
Article No.

3WL9111-0AB03-0AA0



Screwless connection (tension spring)

3WL9111-0AB04-0AA0



Coding kits ③



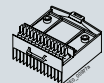
Version

For fixed-mounted X5 to X8

Article No.

3WL9111-0AB07-0AA0

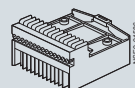
Sliding contact modules for guide frames ④



Article No.

3WL9111-0AB08-0AA0

One-part sliding contact modules for guide frames ⑤



Version

Screw terminals (SIGUT)

Article No.

3WL9111-0AB18-0AA0

Blanking blocks for circuit breakers

Article No.

3WL9111-0AB12-0AA0

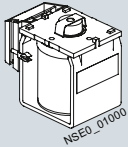
For a complete auxiliary current connection you must order:

Fixed-mounted version: ① + ② + ③

Withdrawable version: ① + ④ + ② and ① + ⑤



Auxiliary releases

Closing coils / shunt trips



| Version | Voltage | Article No. |
|---|-----------------------------------|--------------------|
| 100% OP | 24 V DC | 3WL9111-0AD01-0AA0 |
| | 30 V DC | 3WL9111-0AD02-0AA0 |
| | 48 V DC | 3WL9111-0AD03-0AA0 |
| | 60 V DC | 3WL9111-0AD04-0AA0 |
| | 110 ... 125 V DC/110 ... 127 V AC | 3WL9111-0AD05-0AA0 |
| | 220 ... 250 V DC/208 ... 240 V AC | 3WL9111-0AD06-0AA0 |
| 5% OP Switching time 50 ms (standard >80 ms). | 24 V DC | 3WL9111-0AD11-0AA0 |
| | 48 V DC | 3WL9111-0AD12-0AA0 |
| | 110 ... 125 V DC/110 ... 127 V AC | 3WL9111-0AD13-0AA0 |
| | 220 ... 250 V DC/208 ... 240 V AC | 3WL9111-0AD14-0AA0 |

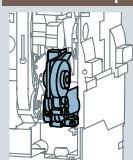
Undervoltage release

| Version | Voltage | Article No. |
|---------------|-----------------------------------|--------------------|
| Instantaneous | 24 V DC | 3WL9111-0AE01-0AA0 |
| | 30 V DC | 3WL9111-0AE02-0AA0 |
| | 48 V DC | 3WL9111-0AE03-0AA0 |
| | 60 V DC | 3WL9111-0AE07-0AA0 |
| | 110 ... 125 V DC/110 ... 127 V AC | 3WL9111-0AE04-0AA0 |
| | 220 ... 250 V DC/208 ... 240 V AC | 3WL9111-0AE05-0AA0 |
| Delayed | 380 ... 415 V AC | 3WL9111-0AE06-0AA0 |
| | 48 V DC | 3WL9111-0AE11-0AA0 |
| | 110 ... 125 V DC/110 ... 127 V AC | 3WL9111-0AE12-0AA0 |
| | 220 ... 250 V DC/208 ... 240 V AC | 3WL9111-0AE13-0AA0 |
| | 380 ... 415 V AC | 3WL9111-0AE14-0AA0 |

Operating mechanism

Motorized operating mechanisms

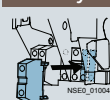


- Auxiliary supply connection X5 required for circuit breakers or guide frames. If this is not already available, please order additionally

| Voltage | Article No. |
|-----------------------------------|--------------------|
| 24 ... 30 V DC | 3WL9111-0AF01-0AA0 |
| 48 ... 60 V DC | 3WL9111-0AF02-0AA0 |
| 110 ... 125 V DC/110 ... 127 V AC | 3WL9111-0AF03-0AA0 |
| 220 ... 250 V DC/208 ... 240 V AC | 3WL9111-0AF04-0AA0 |

Auxiliary contacts

Auxiliary switch blocks



| Contacts | Article No. |
|-------------------------------|--------------------|
| 2 NO contacts + 2 NC contacts | 3WL9111-0AG01-0AA0 |
| 2 NO contacts | 3WL9111-0AG02-0AA0 |
| 1 NO contact + 1 NC contact | 3WL9111-0AG03-0AA0 |

Accessories and spare parts

Door sealing frames, hoods, shutters

Door sealing frames



| Version | Article No. |
|---------------------------|--------------------|
| Spare part for option T40 | 3WL9111-0AP01-0AA0 |

Protective cover IP55



- Cannot be used in conjunction with door sealing frames
- Hood removable and can be opened on both sides

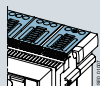
| Article No. |
|--------------------|
| 3WL9111-0AP02-0AA0 |

Shutters

| Version | Number of poles | Size | Breaking capacity | Article No. |
|---------------------------|-----------------|------|-------------------|--------------------|
| Spare part for option R21 | 3-pole | 1 | N, S, H | 3WL9111-0AP04-0AA0 |
| | | 2 | N, S, H | 3WL9111-0AP06-0AA0 |
| | | | C | 3WL9111-0AP43-0AA0 |
| | 4-pole | 3 | H, C | 3WL9111-0AP07-0AA0 |
| | | 1 | N, S, H | 3WL9111-0AP08-0AA0 |
| | | 2 | N, S, H | 3WL9111-0AP11-0AA0 |
| | | | C | 3WL9111-0AP44-0AA0 |
| | | 3 | H, C | 3WL9111-0AP12-0AA0 |
| | | | | |

Arc chute

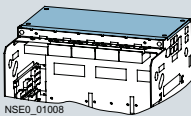
Arc chute



| Voltage | Size | Breaking capacity | Article No. |
|---------------|------|-------------------|--------------------|
| 690 V | 1 | N, S, H | 3WL9111-0AS01-0AA0 |
| | 2 | N, S, H | 3WL9111-0AS02-0AA0 |
| | | C | 3WL9111-0AS10-0AA0 |
| | 3 | H, C | 3WL9111-0AS03-0AA0 |
| 1000 V/1150 V | 2 | H, C | 3WL9111-0AS05-0AA0 |
| | 3 | H, C | 3WL9111-0AS06-0AA0 |
| | | | |

Arc chute covers

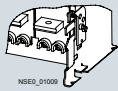
- Parts kit for guide frame
- Spare part for option R10
- Not available for
 - 1000 V version (order code "A05"),
 - 1150 V version (order code "A15")
 - DC version,
 - 4000 A size 2,
 - Circuit breakers with very high breaking capacity C.



| Number of poles | Size | Article No. |
|-----------------|------|--------------------|
| 3-pole | 1 | 3WL9111-0AS32-0AA0 |
| | 2 | 3WL9111-0AS36-0AA0 |
| | 3 | 3WL9111-0AS38-0AA0 |
| 4-pole | 1 | 3WL9111-0AS42-0AA0 |
| | 2 | 3WL9111-0AS44-0AA0 |
| | 3 | 3WL9111-0AS46-0AA0 |

Coding for withdrawable version

Coding for withdrawable version

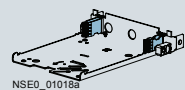


- By customer, for 36 coding variants

| Size | Article No. |
|---------|--------------------|
| 1 and 2 | 3WL9111-OAR12-OAAO |
| 3 | 3WL9111-OAR13-OAAO |

Grounding connections

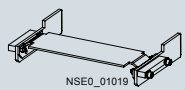
Grounding connection between the guide frame and the withdrawable circuit breaker



- Order 2x for 30 kA ground short-circuit current
- Contacting modules for guide frame

| Size | Article No. |
|-----------------------|--------------------|
| 1 and 2 ¹⁾ | 3WL9111-OBA01-OAAO |
| 3 | 3WL9111-OBA02-OAAO |

Contacting modules for withdrawable circuit breakers



| Number of poles | Size | Article No. |
|-----------------|-----------------|--------------------|
| 3-pole | 1 | 3WL9111-OBA05-OAAO |
| | 2 ¹⁾ | 3WL9111-OBA06-OAAO |
| | 3 | 3WL9111-OBA07-OAAO |
| 4-pole | 1 | 3WL9111-OBA08-OAAO |
| | 2 ¹⁾ | 3WL9111-OBA04-OAAO |
| | 3 | 3WL9111-OBA10-OAAO |

¹⁾ Cannot be used for size 2 with very high breaking capacity C and size 2, 4000 A.

Support brackets

Support brackets



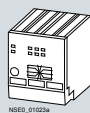
- For mounting fixed-mounted circuit breakers on vertical plane
- Only for sizes 1 and 2 (1 set = 2 units)

| Article No. |
|--------------------|
| 3WL9111-0BB50-OAAO |

CubicleBUS modules

- Each CubicleBUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.
- All communication components, CubicleBUS modules and metering functions are available for the electronic trip units ETU45B and ETU76B.

CubicleBUS modules



| Type | Article No. |
|---|--------------------|
| Digital output modules with rotary coding switch, relay outputs | 3WL9111-OAT26-OAAO |
| Digital output modules, configurable, relay outputs | 3WL9111-OAT20-OAAO |
| Digital input module | 3WL9111-OAT27-OAAO |
| Analog output module | 3WL9111-OAT23-OAAO |
| ZSI module | 3WL9111-OAT21-OAAO |

Preassembled cables for CubicleBUS modules

| For connection to 3WL | Length | Article No. |
|---------------------------|--------|--------------------|
| With COM15/COM16/COM35 | 0.5 m | 3WL9111-OBC04-OAAO |
| | 1 m | 3WL9111-OBC02-OAAO |
| | 2 m | 3WL9111-OBC03-OAAO |
| Without COM15/COM16/COM35 | 2 m | 3WL9111-OBC05-OAAO |

Voltage transformers

- Required for 3WL circuit breakers with metering function Plus, if no direct voltage tap is available.
- 380 ... 690 V/100 V, class 0.5

| Number of poles | Metering function | Article No. |
|-----------------|-----------------------------|--------------------|
| 3-pole | With metering function Plus | 3WL9111-0BB68-OAAO |

Accessories and spare parts

Retrofitting and spare parts

- For retrofitting the COM15, COM16 or COM35 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required: 3WL9111-0AT62-0AA0 for circuit breakers size 1 or 3WL9111-0AT63-0AA0 for circuit breakers size 2/3

COM35 PROFINET IO / Modbus TCP modules **new**



Version

For electronic trip units ETU45B and ETU76B

Article No.

3WL9111-0AT65-0AA0

PROFINET IO / Modbus TCP retrofit kits **new**

- Retrofit kit for the PROFINET IO / Modbus TCP communication including COM35, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units

Article No.

3WL9111-0AT66-0AA0

PROFIBUS retrofit kits

- Retrofit kit for the PROFIBUS communication including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units

Article No.

3WL9111-0AT12-0AA0

COM15 PROFIBUS modules



Version

For electronic trip units ETU45B and ETU76B

Article No.

3WL9111-0AT15-0AA0

COM16 Modbus RTU modules

Version

For electronic trip units ETU45B and ETU76B

Article No.

3WL9111-0AT17-0AA0

Modbus RTU retrofit kits IEC

- Retrofit kit for the Modbus communication including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units

Article No.

3WL9111-0AT18-0AA0

Additional parts for retrofitting the COM15/COM16/COM35 communication modules

- In withdrawable 3WL circuit breakers with Z options:
 - A05 (1000 V AC) or
 - A15 (1150 V AC) or
 - A16 (690 V + 20%)

Size

1

Article No.

3WL9111-0AT62-0AA0

2/3

3WL9111-0AT63-0AA0

Breaker status sensors (BSS)



Version

- For acquisition via communication of the circuit breaker states ON / OFF / tripped
- For electronic trip units ETU45B and ETU76B

Article No.

3WL9111-0AT16-0AA0

Interfaces

Interface to the IEC 61850 new

- The SICAM A8000 as an intelligent data concentrator ensures the connection of the circuit breakers from the SENTRON portfolio via the MODBUS TCP/IP protocol and the forwarding of the data via communication protocols (such as IEC61850, IEC60870-5-104, IEC60870-5-101, MODBUS and DNP) to higher-level systems.



| Type | Operating voltage | Article No. |
|-----------------------------|-------------------------|---|
| SICAM CP-8021 ¹⁾ | – | 6MF28021AA00 |
| SICAM CP-8050 ²⁾ | – | 6MF2805-0AA00 new |
| <hr/> | | |
| SICAM PS-8620 | 24 ... 60 V DC (12 W) | 6MF28620AA00 |
| SICAM PS-8622 | 110 ... 220 V DC (12 W) | 6MF28622AA00 |

¹⁾ Designed for maximum data volumes of 20 devices each with 50 data points

²⁾ Dimensioned for device quantities of 3x 3WL and 8x 3VA

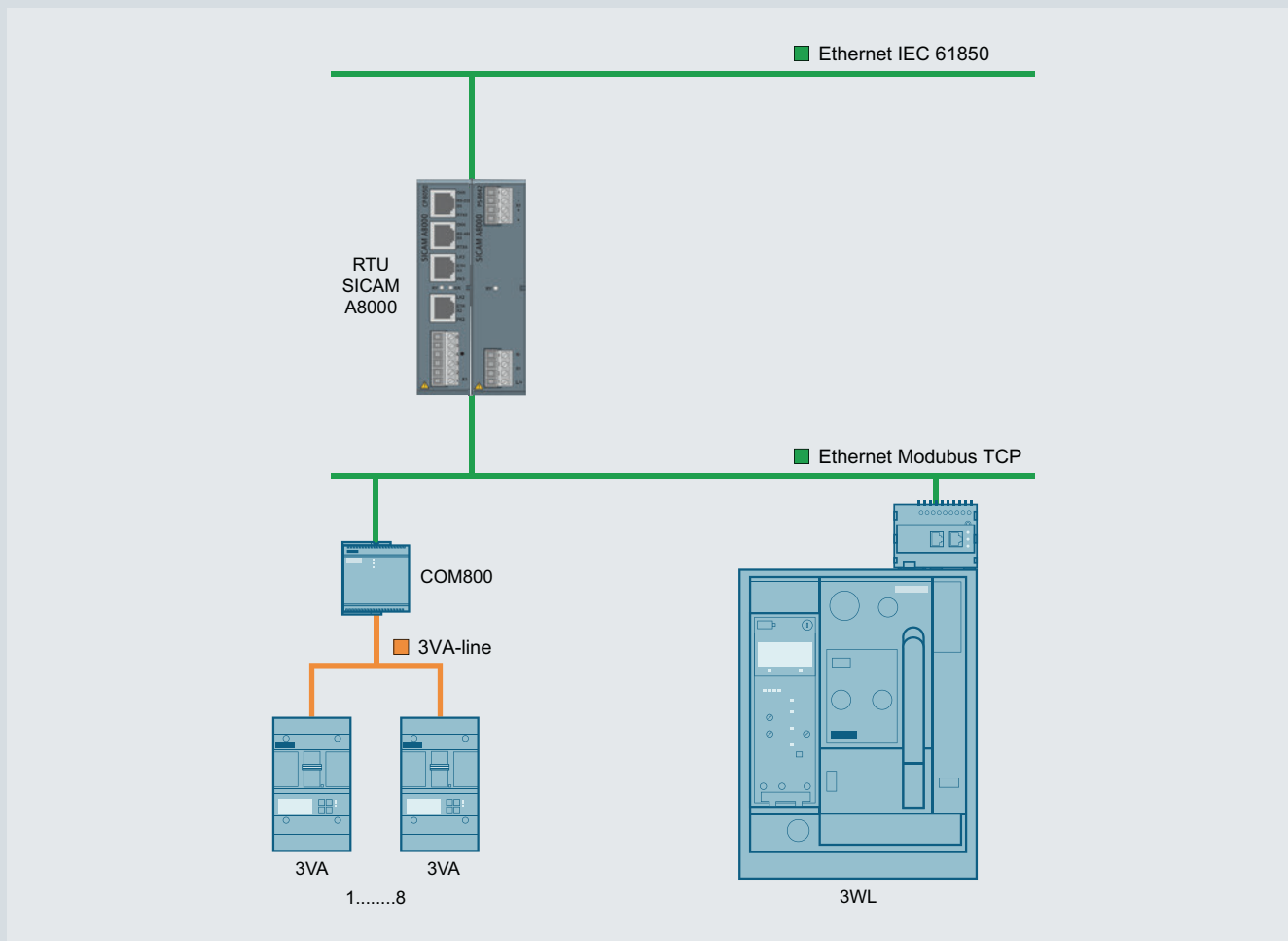
You will find further information at:

www.siemens.com/sicam-a8000

For the SICAM CP-8021 and SICAM CP-8050, predefined modules were created to reduce commissioning work to a minimum.

The modules can be obtained free of charge from the following link.

<https://support.industry.siemens.com/cs/ww/de/ps/24618/ae>



Accessories and spare parts

Storage devices

Capacitor storage devices

- For shunt trips
- Storage time 5 min
- Also suitable for 3VL, 3VA and 3WN circuit breakers
- **Note:**
 - Rated control supply voltage must match the rated control supply voltage of the shunt trip.

| Rated control supply voltage/rated operational voltage | | Article No. |
|--|---------------|--------------------|
| 50/60 Hz AC | DC | |
| 220 ... 240 V | 220 ... 250 V | 3WL9111-0BA14-0AA0 |

Spare parts new

Metering function Plus for retrofitting

- As spare part or for retrofitting the metering function Plus with an external voltage transformer
 - For ETU45B or ETU76B Release 2
 - Voltage transformer required
 - Voltage converter required
 - A measuring accuracy of 3% is achieved if retrofitted.

| Article No. |
|--------------------|
| 3WL9111-0AT05-0AA0 |

Voltage converter

| Version | Article No. |
|--|--------------------|
| As spare part or for retrofitting the metering function Plus | 3WL9111-0AT06-0AA0 |

Components for conversion of an existing internal voltage tap²⁾

- Conversion requires 3 components for 3-pole 3WL
- Conversion requires 4 components for 4-pole 3WL
- Conversion of a metering function (Z option A05) is not possible.

| Conversion of internal voltage tap to main contact | Size | Article No. |
|--|------|--------------------|
| From bottom to top | 1 | 3WL9111-0AT71-0AA0 |
| | 2 | 3WL9111-0AT72-0AA0 |
| | 3 | 3WL9111-0AT73-0AA0 |
| From top to bottom | 1 | 3WL9111-0AT74-0AA0 |
| | 2 | 3WL9111-0AT75-0AA0 |
| | 3 | 3WL9111-0AT76-0AA0 |

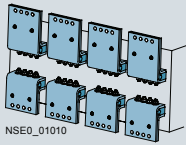
Transformers (without iron core), Rogowski coil only (instrument transformer for the protection function)

- Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B
 - External 24 V DC supply required
 - Undervoltage release required (e.g. 3WL9111-0AE01-0AA0)
- As retrofit kit or as spare part. With new circuit breakers, please use the Z option K60
- **Scope of supply:**
 - Transformer
 - Warning signs
 - Manual

| Number of poles | Size | Article No. |
|-----------------|------|--------------------|
| 3-pole | 1 | 3WL9111-0AA42-0AA0 |
| | 2 | 3WL9111-0AA43-0AA0 |
| | 3 | 3WL9111-0AA44-0AA0 |
| 4-pole | 1 | 3WL9111-0AA45-0AA0 |
| | 2 | 3WL9111-0AA46-0AA0 |
| | 3 | 3WL9111-0AA47-0AA0 |

Main conductor connections, fixed-mounted versions (essential accessory)

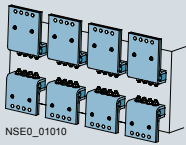
Front-accessible main connections, single hole at top



- Not for 3WL1 size 1 with high breaking capacity H

| Size | Rated current I_n | Article No. |
|-----------------|---------------------|--------------------|
| 1 | Up to 1000 A | 3WL9111-0AL01-0AA0 |
| | 1250 ... 1600 A | 3WL9111-0AL02-0AA0 |
| 2 ⁴⁾ | Up to 2000 A | 3WL9111-0AL03-0AA0 |
| | Up to 2500 A | 3WL9111-0AL04-0AA0 |
| | Up to 3200 A | 3WL9111-0AL05-0AA0 |
| 3 | Up to 4000 A | 3WL9111-0AL06-0AA0 |

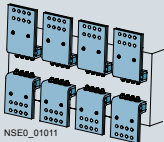
Front-accessible main connections, single hole at bottom



- Not for 3WL1 size 1 with high breaking capacity H

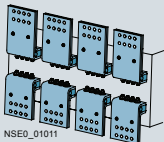
| Size | Rated current I_n | Article No. |
|-----------------|---------------------|--------------------|
| 1 | Up to 1000 A | 3WL9111-0AL51-0AA0 |
| | 1250 ... 1600 A | 3WL9111-0AL52-0AA0 |
| 2 ⁴⁾ | Up to 2000 A | 3WL9111-0AL53-0AA0 |
| | Up to 2500 A | 3WL9111-0AL54-0AA0 |
| | Up to 3200 A | 3WL9111-0AL55-0AA0 |
| 3 | Up to 4000 A | 3WL9111-0AL56-0AA0 |

Front-accessible main connections according to DIN 43673, double hole at top



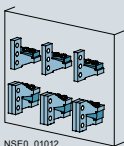
| Size | Rated current I_n | Article No. |
|-----------------|-------------------------------|--------------------|
| 1 | Up to 1000 A ¹⁾ | 3WL9111-0AL07-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | 3WL9111-0AL08-0AA0 |
| 2 ⁴⁾ | Up to 2000 A | 3WL9111-0AL11-0AA0 |
| | Up to 2500 A | 3WL9111-0AL12-0AA0 |
| | Up to 3200 A | 3WL9111-0AL13-0AA0 |
| 3 | Up to 4000 A | 3WL9111-0AL14-0AA0 |

Front-accessible main connections according to DIN 43673, double hole at bottom



| Size | Rated current I_n | Article No. |
|-----------------|-------------------------------|--------------------|
| 1 | Up to 1000 A ¹⁾ | 3WL9111-0AL57-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | 3WL9111-0AL58-0AA0 |
| 2 ⁴⁾ | Up to 2000 A | 3WL9111-0AL61-0AA0 |
| | Up to 2500 A | 3WL9111-0AL62-0AA0 |
| | Up to 3200 A | 3WL9111-0AL63-0AA0 |
| 3 | Up to 4000 A | 3WL9111-0AL64-0AA0 |

Rear vertical main connections



| Size | Rated current I_n | Article No. |
|-----------------|---------------------|--------------------|
| 1 ²⁾ | Up to 2000 A | 3WL9111-0AM01-0AA0 |
| 2 ³⁾ | Up to 3200 A | 3WL9111-0AM02-0AA0 |
| 3 | Up to 6300 A | 3WL9111-0AM03-0AA0 |

¹⁾ Not for 3WL1 size 1 with high breaking capacity H

²⁾ In the case of vertical connection size 1 with breaking capacity N and S, up to 1000 A one 3WL9 111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9 111-0AM01-0AA0 vertical connections are required.

³⁾ In the case of vertical connection size 2, up to 2500 A one 3WL9 111-0AM02-0AA0 vertical connection is required, up to 3200 A two 3WL9 111-0AM02-0AA0 vertical connections are required.

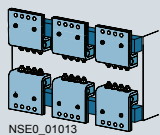
⁴⁾ Not for circuit breakers with very high breaking capacity C.

⁵⁾ Can be used for size 1 with H breaking capacity of 630 A ... 2000 A.

Accessories and spare parts

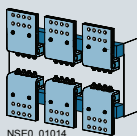
Main conductor connections, withdrawable versions (essential accessory)

Front-accessible main connections, single hole at top or at bottom ¹⁾²⁾



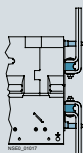
| Size | Rated current I_n | Article No. |
|-----------------|---------------------|--------------------|
| 1 | Up to 1000 A | 3WL9111-0AN01-0AA0 |
| | 1250 ... 1600 A | 3WL9111-0AN02-0AA0 |
| 2 ³⁾ | Up to 2000 A | 3WL9111-0AN03-0AA0 |
| | Up to 2500 A | 3WL9111-0AN04-0AA0 |
| | Up to 3200 A | 3WL9111-0AN05-0AA0 |
| | Up to 4000 A | 3WL9111-0AN06-0AA0 |

Front-accessible main circuit connections, according to DIN 43673, double hole at top or at bottom ¹⁾



| Size | Rated current I_n | Article No. |
|-----------------|-------------------------------|--------------------|
| 1 | Up to 1000 A ²⁾ | 3WL9111-0AN07-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | 3WL9111-0AN08-0AA0 |
| 2 ³⁾ | Up to 2000 A | 3WL9111-0AN11-0AA0 |
| | Up to 2500 A | 3WL9111-0AN12-0AA0 |
| | Up to 3200 A | 3WL9111-0AN13-0AA0 |
| | Up to 4000 A | 3WL9111-0AN14-0AA0 |

Supports for front and DIN connecting bars



| Number of poles | Size | Article No. |
|-------------------|------|--------------------|
| 3-pole for 3 bars | 1 | 3WL9111-0AN41-0AA0 |
| | 2 | 3WL9111-0AN42-0AA0 |
| | 3 | 3WL9111-0AN43-0AA0 |
| 4-pole for 4 bars | 1 | 3WL9111-0AN44-0AA0 |
| | 2 | 3WL9111-0AN45-0AA0 |
| | 3 | 3WL9111-0AN46-0AA0 |

Rear vertical main connections

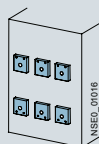


| Size | Rated current I_n | Terminal pieces | Article No. |
|------|-------------------------------|-----------------------------|--------------------|
| 1 | Up to 1000 A ²⁾ | | 3WL9111-0AN15-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | | 3WL9111-0AN16-0AA0 |
| 2 | Up to 2000 A ³⁾ | | 3WL9111-0AN17-0AA0 |
| | Up to 2500 A ³⁾ | | 3WL9111-0AN18-0AA0 |
| | Up to 3200 A ³⁾ | | 3WL9111-0AN21-0AA0 |
| | 1600 ... 3200 A ⁴⁾ | | 3WL9111-0AN38-0AA0 |
| 3 | Up to 5000 A | | 3WL9111-0AN22-0AA0 |
| | Up to 6300 A | 3 units for 3-pole switches | 3WL9111-0AN23-0AA0 |
| | Up to 6300 A, top | 4 units for 4-pole switches | 3WL9111-0AN20-0AA0 |
| | Up to 6300 A, bottom | 4 units for 4-pole switches | 3WL9111-0AN10-0AA0 |

Rear horizontal main connections

| Size | Rated current I_n | Article No. |
|------|-------------------------------|--------------------|
| 1 | Up to 1000 A ²⁾ | 3WL9111-0AN32-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | 3WL9111-0AN33-0AA0 |
| 2 | Up to 2000 A ³⁾ | 3WL9111-0AN34-0AA0 |
| | Up to 2500 A ³⁾ | 3WL9111-0AN35-0AA0 |
| | Up to 3200 A ³⁾ | 3WL9111-0AN36-0AA0 |
| | 1600 ... 3200 A ⁴⁾ | 3WL9111-0AN47-0AA0 |
| 3 | Up to 5000 A | 3WL9111-0AN37-0AA0 |

Connecting flange



| Size | Rated current I_n | Article No. |
|-----------------|-------------------------------|--------------------|
| 1 | Up to 1000 A ²⁾ | 3WL9111-0AN24-0AA0 |
| | 1250 ... 2000 A ⁵⁾ | 3WL9111-0AN25-0AA0 |
| 2 ³⁾ | Up to 2000 A | 3WL9111-0AN26-0AA0 |
| | Up to 2500 A | 3WL9111-0AN27-0AA0 |
| | Up to 3200 A | 3WL9111-0AN28-0AA0 |
| 3 | Up to 4000 A | 3WL9111-0AN31-0AA0 |

¹⁾ When using front-accessible main connections (withdrawable circuit breakers) supports are required.

²⁾ Not for 3WL1 size 1 with high breaking capacity H

³⁾ Not for circuit breakers with very high breaking capacity C.

⁴⁾ Only for circuit breakers with very high breaking capacity C.

⁵⁾ Can be used for size 1 with H breaking capacity of 630 A ... 2000 A.

Conversion kit

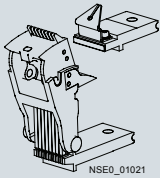
Conversion kit for converting fixed-mounted circuit breakers into withdrawable circuit breakers

- Guide frames and sliding contact modules must be ordered separately.
- Conversion from fixed-mounted to withdrawable is not possible for 3WL1 circuit breakers with very high breaking capacity C

| Number of poles | Size | Article No. |
|-----------------|------|--------------------|
| 3-pole | 1 | 3WL9111-OBC11-OAAO |
| | 2 | 3WL9111-OBC12-OAAO |
| | 3 | 3WL9111-OBC13-OAAO |
| 4-pole | 1 | 3WL9111-OBC14-OAAO |
| | 2 | 3WL9111-OBC15-OAAO |
| | 3 | 3WL9111-OBC16-OAAO |

Main contact elements

Main contact elements^{2),4)}



- **Notes:**
 - The circuit breaker ID No. must be specified when ordering³⁾
 - Specified for each connection (depending on the number of poles on the circuit breaker, order 3 or 4 units)
 - Article No. is automatically adapted to the circuit breaker ID No.

| Size | I_n max. | Article No. |
|------|----------------------------|-------------------|
| 1 | Up to 1600 A ¹⁾ | 3WL9111-OAM90 L1Y |
| 2 | Up to 2500 A | 3WL9111-OAM91 L1Y |
| | Up to 4000 A | 3WL9111-OAM92 L1Y |
| 3 | Up to 6300 A | 3WL9111-OAM93 L1Y |

¹⁾ Not for size 1 circuit breakers with breaking capacity H and circuit breakers with $I_n=2000A$.

²⁾ Not for circuit breakers with very high breaking capacity C.

³⁾ Please specify the circuit breaker ID No. in plain text when ordering.

⁴⁾ Replacement of the main contact elements for 3WL1 circuit breakers with very high breaking capacity C is only possible at the factory.



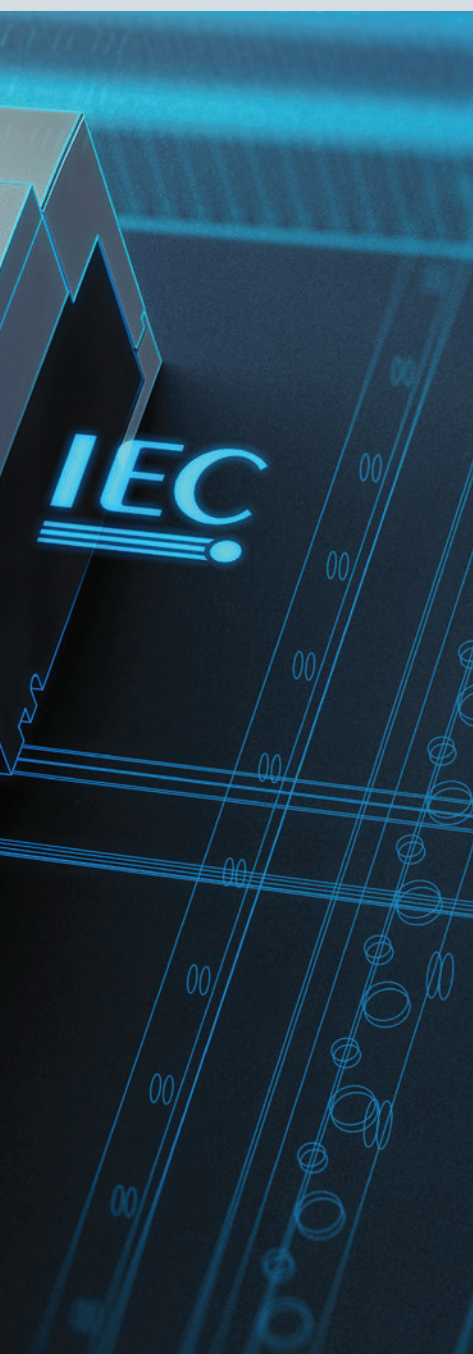
One system. For all applications.

Requirements for cost- and energy-efficient operation of electrical power distribution are on the increase. Whether in industrial plants, in infrastructure or in buildings: As a modular, highly adaptable system, the 3VA series of molded case circuit breakers ensures fully reliable protection of personnel and plant, and supports every process phase – from planning to operation of electrical power distribution.

Comprehensively certified. Deployable worldwide.

3VA molded case circuit breakers are available in various ranges with IEC approval; other ranges are available that comply with standard IEC 60947 and standard UL 489. The system is therefore ideally suited for mechanical engineering companies and switchgear manufacturers. The full range of functionalities of molded case circuit breakers can be used for plant and equipment operating in Europe and North America, with absolute standards compliance assured.

Molded Case Circuit Breakers



| | |
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| Molded case circuit breakers for all applications | 2/4 |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about molded case circuit breakers, please visit our website
www.siemens.com/3VA

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technical basic information – 3VA molded case circuit breakers ([109766672](tel:109766672))

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- 3VA molded case circuit breakers (general)
bit.ly/2xNxIFA

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Molded case circuit breakers sie.ag/2mmLcAk
 Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3VA molded case circuit breaker at

www.siemens.com/lowvoltage/3va-configurator
www.siemens.com/lowvoltage/3va27-configurator

For your configured 3VA molded case circuit breaker, you can additionally find

- 3D views
- CAD data
- Unit wiring diagrams
- Dimension drawings

... can be found in our online services

Commissioning + operation

Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family.

www.siemens.com/powerconfig

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – 3VA selectivity **(109743975)**
- Communication manual – 3VA molded case circuit breakers with IEC and UL certification **(98746267)**
- Equipment manual – 3VA molded case circuit breakers with IEC certificate **(90318775)**
- Equipment manual – 3VA27 molded case circuit breakers & 3WL10 air circuit breakers **(109753821)**
- Communication manual – 3WL10 air circuit breakers & 3VA27 molded case circuit breakers **(109760220)**

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- Protection systems in low-voltage power distribution (WT-LVAPS)
- 3VA molded case circuit breaker (WT-LVA3VA)
- Communication with SENTRON components (LV-COM)

Technical overview – Molded case circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on molded case circuit breakers

www.siemens.com/lowvoltage/product-support **(109767421)**

Molded case circuit breakers for all applications

2



3VA10 ... 3VA15 molded case circuit breakers

Setting standards for standard applications

The 3VA1 molded case circuit breaker is ideally suited for your standard applications in infrastructure and industrial facilities. It is equipped with a thermal-magnetic trip unit, and offers reliable protection for plants and generators.

With its compact dimensions and depth of just 70 mm, the 3VA1 molded case circuit breaker can even fit into locations where space is limited. Thanks to its cover size of 45 mm, it is also ideally suited for use in distribution boards up to 250 A.

Special features

- Compact design
- AC/DC applications
- No derating up to +50 °C
- Optimized for distribution boards (45 mm cover size)
- Universal platform of accessories
- 1, 2, 3 or 4-pole versions



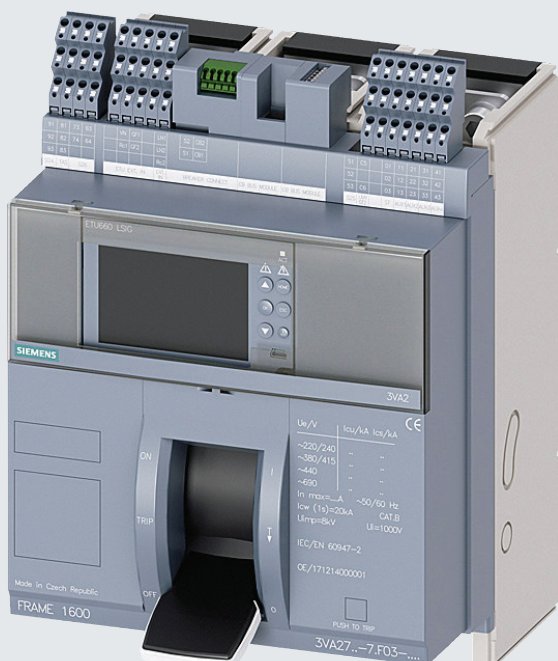
3VA20 ... 3VA26 molded case circuit breakers

The power to deliver in demanding applications

If you are looking for a solution that lets you handle your most technically demanding projects in industrial and infrastructure applications with ease, the 3VA2 molded case circuit breaker has the special capabilities you need. It combines high breaking capacity, a range of electronic trip units (ETUs), very good selectivity properties, and various additional functionalities.

Special features

- Very good selective protection response
- AC applications
- No derating up to +50 °C
- Integrated metering function
- Connection to a communication system
- Rate current range 25 to 1250 A



3VA27 molded case circuit breaker

Depending on the application, the 3VA27 molded case circuit breaker handles line/motor and starter protection for low-voltage electrical power distribution, and supplements the existing IEC portfolio with a rated current of 1600 A.

Special features

- Choice between two ranges of electronic trip units with a number of equipment versions
- Variable and versatile connections
- Connection to a communication system
- Can be used as a platform circuit breaker with the 3WL10 ACB, with an extensive range of common accessories
- Rate current range 800 to 1600 A

Basic units and accessories

2



| Protective functions | 3VA10 | 3VA11 | 3VA12 | 3VA13 | 3VA14 | 3VA15 new |
|---|-------|-------|-------|-------|-------|-----------|
| Size | 100 A | 160 A | 250 A | 400 A | 630 A | 1000 A |
| Switch disconnectors | | | | | | |
| No protection | – | ■ | ■ | ■ | ■ | – |
| Thermal-magnetic | | | | | | |
| Line protection | ■ | ■ | ■ | ■ | ■ | ■ |
| Starter protection | – | ■ | ■ | ■ | ■ | ■ |
| Electronic | | | | | | |
| Line protection | – | – | – | – | – | – |
| Line and generator protection | – | – | – | – | – | – |
| Line and generator protection, with display | – | – | – | – | – | – |
| Line and generator protection, with display, with metering function | – | – | – | – | – | – |
| Motor protection | – | – | – | – | – | – |
| Motor protection, with display | – | – | – | – | – | – |
| Motor protection, with display, with metering function | – | – | – | – | – | – |
| Starter protection | – | – | – | – | – | – |

Accessories

| Size | 100 A | 160 A | 250 A | 400 A | 630 A | 1000 A |
|---|-------|-------|-------|-------|-------|--------|
| Accessories | | | | | | |
| Auxiliary switches and signaling switches | ■ | ■ | ■ | ■ | ■ | ■ |
| Auxiliary releases | ■ | ■ | ■ | ■ | ■ | ■ |
| Connection technology | ■ | ■ | ■ | ■ | ■ | ■ |
| Plug-in version | – | ■ | ■ | ■ | ■ | – |
| Draw-out version | – | – | ■ | ■ | ■ | – |
| Front rotary operator | ■ | ■ | ■ | ■ | ■ | ■ |
| Door mounted rotary operator | ■ | ■ | ■ | ■ | ■ | ■ |
| Side wall mounted rotary operator | ■ | ■ | ■ | ■ | ■ | – |
| MO310 motor operator (mounted onto the side) | – | ■ | ■ | – | – | – |
| MO320 motor operator (mounted onto the front) | – | ■ | ■ | ■ | ■ | – |
| Motor operator with SEO520 stored energy operator | – | – | – | – | – | – |
| Motor operator (MO), integrable | – | – | – | – | – | – |
| Locking, blocking and interlocking | ■ | ■ | ■ | ■ | ■ | ■ |
| Residual current device (mounted onto the side) | – | ■ | ■ | – | – | – |
| Residual current device (mounted underneath) | – | ■ | ■ | – | – | – |
| Communications interface | – | – | – | – | – | – |
| EFB300 | – | – | – | – | – | – |
| TD300, TD400 and TD500 | – | – | – | – | – | – |
| Cover frame | ■ | ■ | ■ | ■ | ■ | ■ |
| DIN rail adapter | ■ | ■ | – | – | – | – |
| Busbar adapter | ■ | ■ | ■ | ■ | ■ | – |

■ Available – Not available/not present

* On request

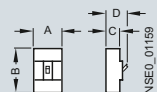
3VA1 basic units up to 1000 A

Technical data

2



| | | | 3VA10 | | | 3VA11 | | | 3VA11 | | |
|--|---------------------------|----|------------------------|----|----|--------------|----|----|--------------|----|----|
| Electrical characteristics according to IEC 60947-2 | | | | | | | | | | | |
| Number of poles | | | 3/4-pole | | | 1-pole | | | 2-pole | | |
| Size | | | 100 A | | | 160 A | | | 160 A | | |
| Rated operational current I_n at 50 °C ambient temperature | | | 16 ... 100 A | | | 16 ... 160 A | | | 16 ... 160 A | | |
| Rated operational voltage U_e 50/60 Hz AC | | | 690 V | | | 415 V | | | 415 V | | |
| Rated insulation voltage U_i | | | 800 V | | | 500 V | | | 500 V | | |
| Rated impulse withstand voltage U_{pulse} | | | 8 kV | | | 8 kV | | | 8 kV | | |
| Use in IT networks | | | ■ | | | ■ | | | ■ | | |
| Frequency | | | 0 ... 400 Hz | | | 0 ... 400 Hz | | | 0 ... 400 Hz | | |
| Breaking capacity (line protection) | | | | | | | | | | | |
| Rated ultimate short-circuit breaking capacity I_{cu} | | | | | | | | | | | |
| 50/60 Hz AC | 220 ... 240 V | kA | 25 | 36 | 55 | 25 | 36 | 55 | 36 | 55 | 85 |
| | 380 ... 415 V | kA | 16 | 25 | 36 | 5 | 6 | 6 | 25 | 36 | 55 |
| | 440 V | kA | 8 | 16 | 25 | – | – | – | – | – | – |
| | 500 V | kA | 5 | 5 | 7 | – | – | – | – | – | – |
| | 690 V | kA | 5 | 5 | 7 | – | – | – | – | – | – |
| DC | 125 V (1 switching pole) | kA | – | – | – | 16 | 25 | 30 | 16 | 25 | 30 |
| | 250 V (2 switching poles) | kA | 25 | 36 | 55 | – | – | – | 36 | 55 | 85 |
| | 500 V (3 switching poles) | kA | 25 | 36 | 55 | – | – | – | – | – | – |
| | 600 V (4 switching poles) | kA | 8 | 16 | 25 | – | – | – | – | – | – |
| Rated operational short-circuit breaking capacity I_{cs} | | | | | | | | | | | |
| 50/60 Hz AC | 220 ... 240 V | kA | 25 | 36 | 55 | 25 | 35 | 55 | 36 | 55 | 85 |
| | 380 ... 415 V | kA | 16 | 25 | 36 | 5 | 6 | 6 | 25 | 36 | 55 |
| | 440 V | kA | 8 | 16 | 25 | – | – | – | – | – | – |
| | 500 V | kA | 5 | 5 | 5 | – | – | – | – | – | – |
| | 690 V | kA | 5 | 5 | 5 | – | – | – | – | – | – |
| DC | 125 V (1 switching pole) | kA | – | – | – | 16 | 25 | 30 | 16 | 25 | 30 |
| | 250 V (2 switching poles) | kA | 25 | 36 | 55 | – | – | – | 36 | 55 | 85 |
| | 500 V (3 switching poles) | kA | 25 | 36 | 55 | – | – | – | – | – | – |
| | 600 V (4 switching poles) | kA | 8 | 16 | 25 | – | – | – | – | – | – |
| Dimensions | | | | | | | | | | | |
| | A | mm | 76.2 (3P) 101.6 (4P) | | | 25.4 | | | 50.8 | | |
| | B | mm | 130 | | | 130 | | | 130 | | |
| | C | mm | 70 | | | 70 | | | 70 | | |
| | D | mm | 88 | | | 88 | | | 88 | | |



■ Available

– Not available/not present

* On request



| 3VA11 | | | | 3VA12 | | | 3VA13 | | | | 3VA14 | | | | 3VA15 new | | |
|------------------------|----|----|-----|---------------------|----|-----|---------------------|----|-----|-----|---------------------|----|-----|-----|-----------------------------|-----|-----|
| 3/4-pole | | | | 3/4-pole | | | 3/4-pole | | | | 3/4-pole | | | | 3/4-pole | | |
| 160 A | | | | 250 A | | | 400 A | | | | 630 A | | | | 1000 A | | |
| 16 ... 160 A | | | | 160 ... 250 A | | | 320 ... 400 A | | | | 500 ... 630 A | | | | 630 ... 1000 A | | |
| 690 V | | | | 690 V | | | 690 V | | | | 690 V | | | | 690 V | | |
| 800 V | | | | 800 V | | | 800 V | | | | 800 V | | | | 800 V | | |
| 8 kV | | | | 8 kV | | | 8 kV | | | | 8 kV | | | | 8 kV | | |
| ■ | | | | ■ | | | ■ | | | | ■ | | | | ■ | | |
| 0 ... 400 Hz | | | | 0 ... 400 Hz | | | 0 ... 400 Hz | | | | 0 ... 400 Hz | | | | Up to 500 V 0 ... 400 Hz | | |
| N | S | M | H | S | M | H | S | M | H | C | S | M | H | C | M | H | C |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 55 | 85 | 100 | 200 | 55 | 85 | 100 | 200 | 85 | 110 | 200 |
| 25 | 36 | 55 | 70 | 36 | 55 | 70 | 36 | 55 | 70 | 110 | 36 | 55 | 70 | 110 | 55 | 70 | 110 |
| 16 | 25 | 36 | 55 | 25 | 36 | 36 | * | * | * | * | * | * | * | * | * | * | |
| 7 | 7 | 10 | 10 | 10 | 15 | 15 | 25 | 36 | 55 | 70 | 25 | 36 | 55 | 70 | 36 | 55 | 70 |
| 7 | 7 | 10 | 10 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 7 | 7 | 10 | 10 | 25 | 35 | 35 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 16 | 25 | 36 | 55 | 25 | 36 | 55 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 55 | 85 | 100 | 200 | 55 | 85 | 100 | 200 | 85 | 110 | 150 |
| 25 | 36 | 55 | 70 | 36 | 55 | 70 | 36 | 55 | 70 | 110 | 36 | 55 | 70 | 110 | 55 | 70 | 110 |
| 16 | 25 | 36 | 40 | 25 | 36 | 36 | * | * | * | * | * | * | * | * | * | * | |
| 5 | 5 | 5 | 5 | 10 | 10 | 10 | 25 | 36 | 55 | 70 | 25 | 36 | 55 | 70 | 36 | 55 | 65 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 6 | 6 | 19 | 19 | 19 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 36 | 55 | 85 | 100 | 55 | 85 | 100 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 16 | 25 | 36 | 55 | 25 | 36 | 55 | 8 | 16 | 25 | 25 | 8 | 16 | 25 | 25 | - | - | - |
| 76.2 (3P) 101.6 (4P) | | | | 105 (3P) 140 (4P) | | | 138 (3P) 184 (4P) | | | | 138 (3P) 184 (4P) | | | | 210 (3P) 280 (4P) | | |
| 130 | | | | 158 | | | 248 | | | | 248 | | | | 320 | | |
| 70 | | | | 70 | | | 110 | | | | 110 | | | | 120 | | |
| 88 | | | | 88 | | | 137 | | | | 137 | | | | 253 | | |

3VA1 basic units up to 1000 A

Application

2



3VA10

3VA11

3VA11

Electrical characteristics according to IEC 60947-2

| | 3VA10 | 3VA11 | 3VA11 |
|--|--------------|--------------|--------------|
| Number of poles | 3/4-pole | 1-pole | 2-pole |
| Size | 100 A | 160 A | 160 A |
| Rated operational current I_n at 50 °C ambient temperature | 16 ... 100 A | 16 ... 160 A | 16 ... 160 A |

3VA1 molded case circuit breakers for line protection, standard applications (IEC 60947-2)

Service life (make-break operations)

| | | 3VA10 | 3VA11 | 3VA11 |
|--------------------------------------|---------------|------------------|-------|-------|
| Mechanical (NO contact – NC contact) | | 20000 | 20000 | 20000 |
| Electrical | 380 ... 415 V | I_n 9000 | 9000 | 9000 |
| | | $I_n/2$ 15000 | 15000 | 15000 |
| | 690 V | 6300 | 6300 | 6300 |

Trip Units

| Trip Unit | 3VA10 | 3VA11 | 3VA11 |
|-----------|-------|-------|-------|
| TM210 | FTFM | ■ | ■ |
| TM220 | ATFM | – | – |
| TM240 | ATAM | – | – |

3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)

| | | 3VA10 | 3VA11 | 3VA11 |
|--|---|-------|-------|-------|
| Rated operational current I_n at 50 °C ambient temperature | A | – | – | – |

Service life (switching cycles)

| | | 3VA10 | 3VA11 | 3VA11 |
|--------------------------------------|---------------|-------|-------|-------|
| Mechanical (NO contact – NC contact) | | – | – | – |
| Electrical | 380 ... 415 V | – | – | – |

Trip Units

| Trip Unit | 3VA10 | 3VA11 | 3VA11 |
|-----------|-------|-------|-------|
| TM120M | AM | – | – |

Switch disconnectors (IEC 60947-3)

Electrical characteristics according to IEC 60947-3

| | | 3VA10 | 3VA11 | 3VA11 |
|--|----|-------|-------|-------|
| Rated uninterrupted current I_u at 50 °C ambient temperature | A | – | – | – |
| Rated operational voltage U_e 50/60 Hz AC | V | – | – | – |
| Rated operational voltage U_e DC | V | – | – | – |
| Rated conditional short-circuit current I_q with upstream 3VA1 circuit breaker | kA | – | – | – |
| Permissible rated short-time current I_{cw} (1 s) | kA | – | – | – |

■ Available

– Not available/not present

* On request

**3VA11****3VA12****3VA13****3VA14****3VA15 new**

3/4-pole
160 A
16 ... 160 A

3/4-pole
250 A
160 ... 250 A

3/4-pole
400 A
320 ... 400 A

3/4-pole
630 A
500 ... 630 A

3/4-pole
1000 A
630 ... 1000 A

20000
9000
15000
6300

20000
8000
14000
5400

20000
6000
12000
4200

20000
4000
8000
3000

10000
4600
7000
3200

■
■
■

–
–
■

–
–
■

–
–
■

–
–
■

32 ... 125

160, 200

250

400 ... 500

630 ... 800

20000
9000

20000
8000

20000
6000

20000
4000

10000
4600

■

■

■

■

■

63 ... 160
690
500 (3P), 600 (4P)
70 at 415 V
2

250
690
500 (3P), 600 (4P)
70 at 415 V
3

400
690
500 (3P), 600 (4P)
*
6

630 (3P), 500 (4P)
690
500 (3P), 600 (4P)
*
7.6 (3P), 6 (4P)

–
–
–
–
–

3VA2 basic units up to 1600 A

Technical data

2



| | 3VA20 | | | | | 3VA21 | | | | | 3VA22 | | | | | | |
|---|---------------------------|----|---------------------|-----|-----|--------------|-----|---------------------|-----|-----|---------------|----|---------------------|-----|-----|-----|--|
| Electrical characteristics according to IEC 60947-2 | | | | | | | | | | | | | | | | | |
| Number of poles | 3/4-pole | | | | | 3/4-pole | | | | | 3/4-pole | | | | | | |
| Size | 100 A | | | | | 160 A | | | | | 250 A | | | | | | |
| Rated operational current I_n at 50 °C ambient temperature | 25 ... 100 A | | | | | 25 ... 160 A | | | | | 160 ... 250 A | | | | | | |
| Rated operational voltage U_e 50/60 Hz AC | 690 V | | | | | 690 V | | | | | 690 V | | | | | | |
| Rated insulation voltage U_i | 800 V | | | | | 800 V | | | | | 800 V | | | | | | |
| Rated impulse withstand voltage U_{pulse} | 8 kV | | | | | 8 kV | | | | | 8 kV | | | | | | |
| Use in IT networks | ■ | | | | | ■ | | | | | ■ | | | | | | |
| Frequency | 50/60 Hz | | | | | 50/60 Hz | | | | | 50/60 Hz | | | | | | |
| Breaking capacity | | | | | | | | | | | | | | | | | |
| | | M | H | C | L | M | H | C | L | E | M | H | C | L | E | | |
| Rated ultimate short-circuit breaking capacity I_{cu} | | | | | | | | | | | | | | | | | |
| 50/60 Hz AC | 220 ... 240 V | kA | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | – | 85 | 110 | 150 | 200 | – | |
| | 380 ... 415 V | kA | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 200 | 55 | 85 | 110 | 150 | 200 | |
| | 440 V | kA | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | – | 55 | 85 | 110 | 150 | – | |
| | 500 V | kA | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | – | 36 | 55 | 85 | 100 | – | |
| | 690 V | kA | 2 | 2 | 2 | 25 | 2.5 | 2.5 | 2.5 | 25 | 85 | 3 | 3 | 3 | 25 | 85 | |
| DC | 125 V (1 switching pole) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 250 V (2 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 500 V (3 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 600 V (4 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Rated service short-circuit breaking capacity I_{cs} | | | | | | | | | | | | | | | | | |
| 50/60 Hz AC | 220 ... 240 V | kA | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | – | 85 | 110 | 150 | 200 | – | |
| | 380 ... 415 V | kA | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 200 | 55 | 85 | 110 | 150 | 200 | |
| | 440 V | kA | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | – | 55 | 85 | 110 | 150 | – | |
| | 500 V | kA | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | – | 36 | 55 | 85 | 100 | – | |
| | 690 V | kA | 2 | 2 | 2 | 18 | 2.5 | 2.5 | 2.5 | 18 | 65 | 3 | 3 | 3 | 18 | 65 | |
| DC | 125 V (1 switching pole) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 250 V (2 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 500 V (3 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| | 600 V (4 switching poles) | kA | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| Dimensions | | | | | | | | | | | | | | | | | |
| | A | mm | 105 (3P) 140 (4P) | | | | | 105 (3P) 140 (4P) | | | | | 105 (3P) 140 (4P) | | | | |
| | B | mm | 181 | | | | | 181 | | | | | 181 | | | | |
| | C | mm | 86 | | | | | 86 | | | | | 86 | | | | |
| | D | mm | 107 | | | | | 107 | | | | | 107 | | | | |

■ Available – Not available/not present

* On request



| 3VA23 | | | | | 3VA24 | | | | | 3VA25 | | | 3VA26 new | | | 3VA27 | | |
|---------------------|-----|-----|-----|-----|---------------------|-----|-----|-----|-----|---------------------|-----|-----|---------------------|-----|-----|--|-----|-----|
| 3/4-pole | | | | | 3/4-pole | | | | | 3/4-pole | | | 3/4-pole | | | 3/4-pole | | |
| 400 A | | | | | 630 A | | | | | 1000 A | | | 1250 A | | | 1600 A | | |
| 250 ... 400 A | | | | | 400 ... 630 A | | | | | 630 ... 1000 A | | | 1250 A | | | 800 ... 1600 A | | |
| 690 V | | | | | 690 V | | | | | 690 V | | | 690 V | | | 690 V | | |
| 800 V | | | | | 800 V | | | | | 800 V | | | 800 V | | | 1000 V | | |
| 8 kV | | | | | 8 kV | | | | | 8 kV | | | 8 kV | | | 8 kV | | |
| ■ | | | | | ■ | | | | | ■ | | | ■ | | | ■ | | |
| 50/60 Hz | | | | | 50/60 Hz | | | | | 50/60 Hz | | | 50/60 Hz | | | 50/60 Hz | | |
| M | H | C | L | E | M | H | C | L | E | M | H | C | M | H | C | M | H | C |
| 85 | 110 | 150 | 200 | – | 85 | 110 | 150 | 200 | – | 85 | 110 | 200 | 85 | 110 | 200 | 100 | 150 | 200 |
| 55 | 85 | 110 | 150 | 200 | 55 | 85 | 110 | 150 | 200 | 55 | 85 | 110 | 55 | 85 | 110 | 55 | 85 | 110 |
| 55 | 85 | 110 | – | – | 55 | 85 | 110 | – | – | * | * | * | * | * | * | 55 | 85 | 100 |
| 36 | 55 | 85 | – | – | 36 | 55 | 85 | – | – | 36 | 55 | 85 | * | * | * | 36 | 55 | 85 |
| 5 | 5 | 5 | 25 | 85 | 6 | 6 | 6 | 25 | 85 | 25 | 35 | 35 | 25 | 35 | 35 | 25 | 36 | 50 |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 85 | 110 | 150 | 200 | – | 85 | 110 | 150 | 200 | – | 85 | 110 | 150 | 85 | 110 | 150 | 100 | 150 | 200 |
| 55 | 85 | 110 | 150 | 200 | 55 | 85 | 110 | 150 | 200 | 55 | 85 | 85 | 55 | 85 | 85 | 55 | 85 | 110 |
| 55 | 85 | 110 | – | – | 55 | 85 | 110 | – | – | * | * | * | * | * | * | 55 | 85 | 100 |
| 36 | 55 | 65 | – | – | 36 | 55 | 85 | – | – | 36 | 55 | 65 | * | * | * | 36 | 55 | 63 |
| 5 | 5 | 5 | 18 | 65 | 6 | 6 | 6 | 18 | 65 | 19 | 19 | 19 | 19 | 19 | 19 | 25 | 36 | 36 |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 138 (3P) 184 (4P) | | | | | 138 (3P) 184 (4P) | | | | | 210 (3P) 280 (4P) | | | 210 (3P) 280 (4P) | | | 210 (3P) 280 (4P) | | |
| 248 | | | | | 248 | | | | | 320 | | | 320 | | | 291 | | |
| 110 | | | | | 110 | | | | | 120 | | | 120 | | | 171 (toggle operating mechanism) 183 (stored energy operating mechanism) | | |
| 137 | | | | | 137 | | | | | 253 | | | 253 | | | 225 | | |

3VA2 basic units up to 1600 A

Application

2



| | | 3VA20 | 3VA21 | 3VA22 |
|---|---------------------|--------------|--------------|---------------|
| Electrical characteristics according to IEC 60947-2 | | | | |
| Number of poles | | 3/4-pole | 3/4-pole | 3/4-pole |
| Size | | 100 A | 160 A | 250 A |
| Rated operational current I_n at 50 °C ambient temperature | | 25 ... 100 A | 25 ... 160 A | 160 ... 250 A |
| Service life (make-break operations) | | | | |
| Mechanical (NO contact – NC contact) | | 25000 | 25000 | 25000 |
| Electrical | 380 ... 415 V I_n | 15000 | 14000 | 12000 |
| | $I_n/2$ | 20000 | 20000 | 17000 |
| 690 V | | 10500 | 9800 | 8400 |
| Trip units | | | | |
| ETU320 | LI | ■ | ■ | ■ |
| ETU330 | LIG | ■ | ■ | ■ |
| ETU340 | ELISA LI | – | ■ | ■ |
| ETU350 | LSI | ■ | ■ | ■ |
| ETU550/ETU850 | LSI | ■ | ■ | ■ |
| ETU560/ETU860 | LSIG | ■ | ■ | ■ |
| ETU650 | LSI | – | – | – |
| ETU360 | LSIG | – | – | – |
| ETU660 | LSIG | – | – | – |
| 3VA2 molded case circuit breakers for motor/starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1) | | | | |
| Rated operational current I_n at 50 °C ambient temperature | | – | 25 ... 100 A | 160 ... 200 A |
| Service life (make-break operations) | | | | |
| Mechanical (NO contact – NC contact) | | – | 25000 | 25000 |
| Electrical 380 ... 415 V | | – | 14000 | 12000 |
| Trip units | | | | |
| ETU310M | I | – | ■ | ■ |
| ETU350M | LSI | – | ■ | ■ |
| ETU550M | LSI | – | ■ | ■ |
| ETU860M | LSIG | – | ■ | ■ |
| ETU320 | LI | – | – | – |
| ETU350 | LSI | – | – | – |
| ETU360 | LSIG | – | – | – |
| ETU650 | LSIG | – | – | – |
| ETU660 | LSIG | – | – | – |

■ Available

– Not available/not present



















* On request



| 3VA23 | 3VA24 | 3VA25 | 3VA26 new | 3VA27 |
|---|---|---|---|---|
| 3/4-pole 400 A 250 ... 400 A | 3/4-pole 630 A 400 ... 630 A | 3/4-pole 1000 A 630 ... 1000 A | 3/4-pole 1250 A 1250 A | 3/4-pole 1600 A 800 ... 1600 A |
| 20000 6000 12000 4200 | 20000 5000 10000 3500 | 10000 4600 7000 3200 | 10000 4600 7000 3200 | 10000 2000 – – |
| ■ ■ ■ ■ ■ ■ – – – | ■ ■ ■ ■ ■ ■ – – – | ■ ■ ■ ■ ■ ■ – – – | ■ ■ ■ ■ ■ ■ – – – | ■ – – ■ – – ■ ■ ■ |
| 250 A | 400 ... 500 A | 630 ... 800 A | – | 800 ... 1600 A |
| 20000 6000 | 20000 5000 (400 A) 3000 (500 A) | 10000 4600 | – – | 10000 2000 |
| ■ ■ ■ ■ – – – – – | ■ ■ ■ ■ – – – – – | – ■ ■ ■ – – – – – | – – – – – – – – – | – – – – ■ ■ ■ ■ ■ |

Trip units

Protection system for 3VA molded case circuit breakers up to 1000 A

| Trip units | Thermal-magnetic | Electronic | Electronic with display | Electronic with display and metering function |
|-----------------------------|---|--|---|---|
| |  TM240 I/A I/A I201_19035 |  ETU350 LSI I/A t/s I=>I t_/s I<>I ACT AL1 AL2 I201_18828 |  ETU550M LSI ACT COM AL1 AL2 ESC OK I201_19701 |  ETU860M LSIG ACT COM AL1 AL2 ESC OK I201_18484 |
| | TM 2-series | ETU 3-series | ETU 5-series | ETU 8-series |
| Protection function | | | | |
| Line protection | TM210, TM220, TM240 | ETU320, ETU330, ETU340, ETU350 | ETU550, ETU560 | ETU850, ETU860 |
| Starter protection | TM120M | ETU310M | – | – |
| Motor protection | – | ETU350M | ETU550M | ETU860M |
| Integrated functions | | | | |
| Parameterizing | Setting and reading the parameters • Current values | Setting and reading the parameters • Current values • Delay times | Setting and reading the parameters • Via display and communication • Fine setting of the parameters • Reading the measured values | Setting and reading the parameters • Via display and communication • Fine setting of the parameters • Reading the measured values |
| Status display | – | Indicating the ETU status via LEDs | Indicating the ETU status via LEDs | Indicating the ETU status via LEDs |
| Interface | – | Interface for test devices | Interface for test devices | Interface for test devices |
| Metering function | – | – | – | Metering function integrated |
| Optional expansions | | | | |
| 24 V module | – | – |  24 V module for continuous power supply (also without primary current through the molded case circuit breaker) |  24 V module for continuous power supply (also without primary current through the molded case circuit breaker) |
| External function box | – |  EFB300 external function box for connection to the ETU |  EFB300 external function box for connection to the ETU |  EFB300 external function box for connection to the ETU |
| Communication module | – | – |  COM060 communication module |  COM060 communication module |
| Breaker data server | – | – |  COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP) |  COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP) |
| External display | – | – |  DSP800 external display for installing in the cubicle door |  DSP800 external display for installing in the cubicle door |
| Test device | – |  TD300/TD400/TD500 test device |  TD300/TD400/TD500 test device |  TD300/TD400/TD500 test device |

Protection functions of the 3VA1 with thermal-magnetic trip unit

| | TM120M AM | TM210 FTFM | TM220 ATFM | TM240 ATAM |
|--|--------------|---------------|---------------|---------------|
| Protections | | | | |
| Starter protection | ■ | – | – | – |
| Line protection | – | ■ | ■ | ■ |
| Version available with | | | | |
| 1-pole and 2-pole breakers | – | ■ | – | – |
| 3-pole breaker | ■ | ■ | ■ | ■ |
| 4-pole breaker | – | ■ | ■ | ■ |
| Available protection parameters | | | | |
| I_r adjustable | – | – | ■ | ■ |
| I_i adjustable | ■ | – | – | ■ |
| I_r fixed | – | ■ | – | – |
| I_i fixed | – | ■ | ■ | – |
| I_N ¹⁾ | – | ■ | ■ | ■ |

¹⁾ 3VA10 only without N protection
 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection
 50% N protection from $I_N \geq 100$ A

Protection functions of the 3VA2 with electronic trip unit

| | ETU310M I | ETU320 LI | ETU330 LIG | ETU340 ELISA® | ETU350 LSI | ETU350M LSI | ETU550 LSI | ETU550M LSI | ETU560 LSIG | ETU850 LSI | ETU860 LSIG | ETU860M LSIG |
|--|--------------|--------------|---------------|------------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|-----------------|
| Protection | | | | | | | | | | | | |
| Starter protection | ■ | – | – | – | – | – | – | – | – | – | – | – |
| Motor protection | – | – | – | – | – | ■ | – | ■ | – | – | – | ■ |
| Line protection | – | ■ | ■ | ■ | ■ | – | – | – | ■ | ■ | ■ | – |
| Generator protection | – | ■ | ■ | – | ■ | – | ■ | – | ■ | ■ | ■ | – |
| Version available with | | | | | | | | | | | | |
| 3-pole without external neutral conductor transformer | ■ | ■ | ■ | ■ | ■ | ■ | – | ■ | – | – | – | ■ |
| 3-pole with external neutral conductor transformer | – | – | – | – | – | – | ■ | – | ■ | ■ | ■ | – |
| 4-pole with protected neutral conductor transformer | – | ■ | ■ | ■ | ■ | – | ■ | – | ■ | ■ | ■ | – |
| Available protection parameters | | | | | | | | | | | | |
| Characteristic in L range | I^2t | I^2t | I^2t | I^4t | I^2t | I^2t | I^2t | I^2t | I^2t | I^2t | I^2t | I^2t |
| I_r | – | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| t_r at $6 \times I_r$ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | ■ | ■ | – |
| t_c | – | – | – | – | – | ■ | – | ■ | – | – | – | ■ |
| t_p | – | – | – | – | – | – | – | ■ | – | – | – | ■ |
| Thermal image | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Thermal image can be switched on/off | – | – | – | – | – | – | ■ | – | ■ | ■ | ■ | – |
| I_{sd} | – | – | – | – | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| t_{sd} at $8 \times I_r$ | – | – | – | – | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Characteristic in S range: I^2t_{sd} | – | – | – | – | ■ | – | ■ | – | ■ | ■ | ■ | – |
| Characteristic in S range: selectable I^2t_{sd} / t_{sd} | – | – | – | – | – | – | ■ | – | ■ | ■ | ■ | – |
| I_i | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| I_N ¹⁾ | – | ■ | ■ | ■ | ■ | – | ■ | – | ■ | ■ | ■ | – |
| I_g | – | – | ■ | – | – | – | – | – | ■ | – | ■ | ■ |
| t_g at $2 \times I_g$ | – | – | ■ | – | – | – | – | – | ■ | – | ■ | ■ |
| Characteristic in G range: I^2t_g | – | – | – | – | – | – | – | – | ■ | – | ■ | ■ |
| Characteristic in G range: selectable I^2t_g / t_g | – | – | – | – | – | – | – | – | ■ | – | ■ | ■ |
| Ground-fault alarm function | – | – | – | – | – | – | – | – | ■ | – | ■ | ■ |
| Blocking protection | – | – | – | – | – | – | – | – | – | – | – | ■ |
| ZSI in combination with an EFB external function box | – | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

¹⁾ Available in a version with external current transformer for N conductor or 4-pole breaker

Available for:

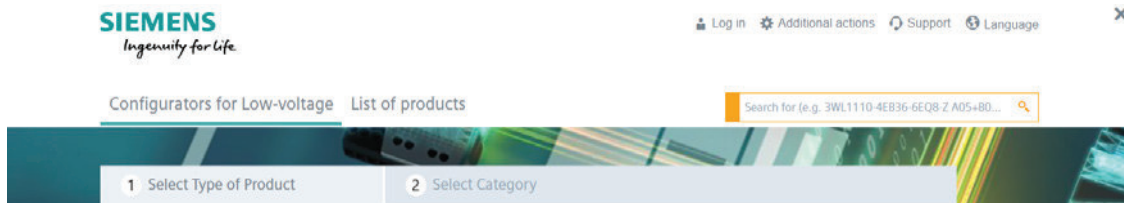
- Circuit breakers with ETU (4-pole)
- Circuit breakers with ETU5/ETU8 3-pole with external neutral conductor transformer or 4-pole

Online configurator highlights

www.siemens.com/lowvoltage/configurators

Search function with global direct input

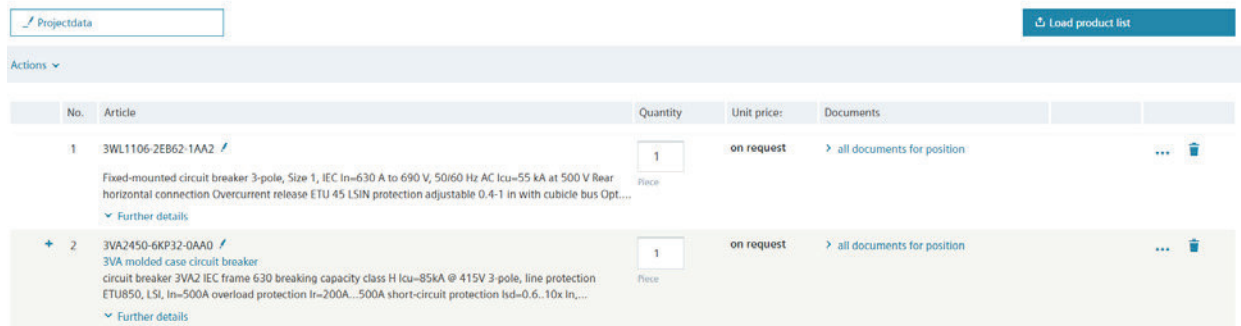
Searches for specific terms and jumps to MLFB based on input to the correct configurator



2

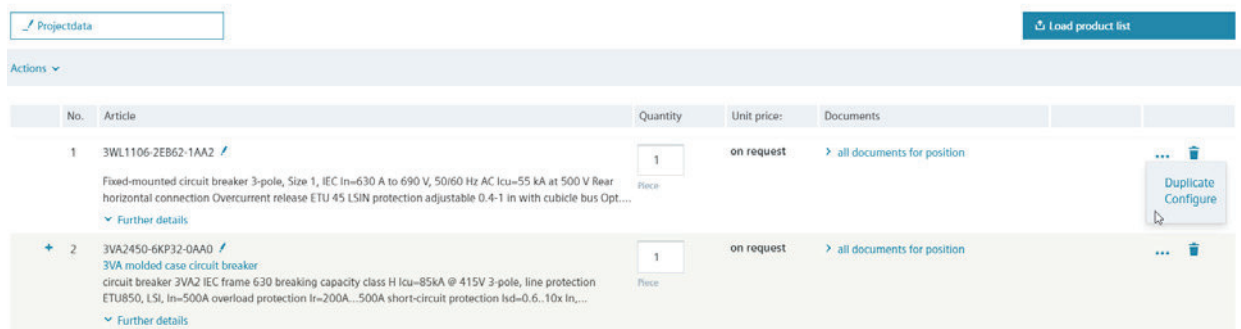
Product list stores multiple configurations and can transfer them collectively to the shopping cart

List of products

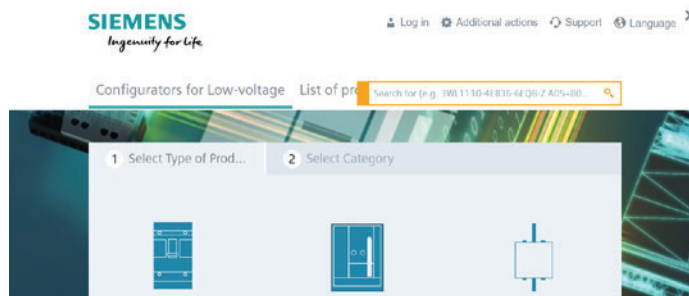


Recall of completed configurations for modification or additional configuration

List of products



Responsive Design



www.siemens.com/lowvoltage/3va-configurator and
www.siemens.com/lowvoltage/3va27-configurator

Visualization of the internally mountable accessories (slot assignment)

2

Download of the individual edz files for 3VA

Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC

System overview

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Basic units



3VA1 for standard applications



3VA2 for selective applications

Trip units



Thermal-magnetic trip unit (TMTU)



Electronic trip unit (ETU)



Electronic trip unit (ETU) with display, and optionally with metering function

Trip unit accessories



24 V module



Communication module



Breaker data server



External display



Test device

Installation type



Fixed-mounted



Draw-out unit, complete kit



Plug-in unit, complete kit

Supplementary accessories



Auxiliary circuit connector



Door feedthrough



Position signaling switch



Cylinder lock adapter



Crank

Main conductor connection



Front bus connectors extended



Front bus connectors offset



Circular conductor terminal



Box terminal



Nut keeper units, right-angled

Connection accessories

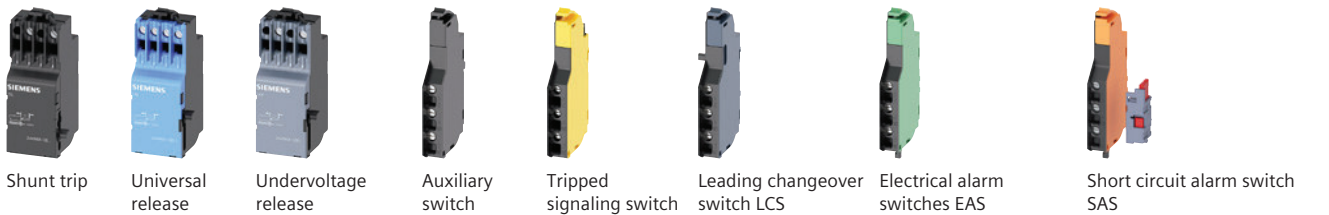


Insulation accessories

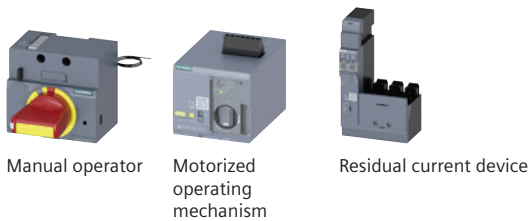
Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

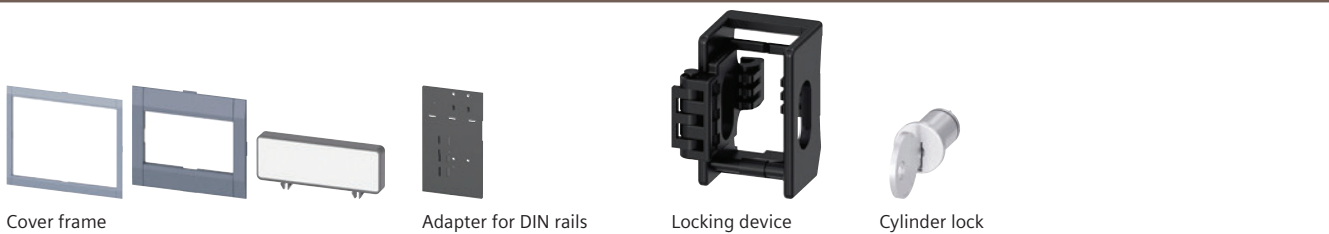
Auxiliary releases/auxiliary switches



Mountable accessories



Additional circuit breaker accessories



Mechanical interlocks



Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration for line and generator protection

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

| | | 3VA | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | - | 0AA0 | | | |
|--|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|---|---|----|----|----|---|------|--|--|--|
| Trip units | Thermal-magnetic | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| | Electronic | | | | | | | | | | | | 2 | | | | | | | | | | | | | |
| Size | 100 A | 3VA10 | 3VA11 | 3VA12 | 3VA13 | 3VA14 | 3VA15 | 3VA20 | 3VA21 | 3VA22 | 3VA23 | 3VA24 | 3VA25 | 3VA26 | 0 | | | | | | | | | | | |
| | 160 A | - | ■ | - | - | - | - | - | ■ | - | - | - | - | - | 1 | | | | | | | | | | | |
| | 250 A | - | - | ■ | - | - | - | - | - | ■ | - | - | - | - | 2 | | | | | | | | | | | |
| | 400 A | - | - | - | ■ | - | - | - | - | - | ■ | - | - | - | 3 | | | | | | | | | | | |
| | 630 A | - | - | - | - | ■ | - | - | - | - | - | ■ | - | - | 4 | | | | | | | | | | | |
| | 1000 A | - | - | - | - | - | ■ | - | - | - | - | - | ■ | - | 5 | | | | | | | | | | | |
| | 1250 A | - | - | - | - | - | - | - | - | - | - | - | - | ■ | 6 | | | | | | | | | | | |
| Max. rated current I _n | Line protection | 16 A | ■ | ■ | - | - | - | - | - | - | - | - | - | - | 9 | 6 | | | | | | | | | | |
| | | 20 A | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | 2 | 0 | | | | | | | | | |
| | | 25 A | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | - | 2 | 5 | | | | | | | | | |
| | | 32 A | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | | | | | | | | | |
| | | 40 A | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | - | 4 | 0 | | | | | | | | | |
| | | 50 A | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | 5 | 0 | | | | | | | | | |
| | | 63 A | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | - | 6 | 3 | | | | | | | | | |
| | | 80 A | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | 8 | 0 | | | | | | | | | |
| | | 100 A | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | - | 1 | 0 | | | | | | | | | |
| | | 125 A | - | ■ | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | | | | | | | | | |
| | | 160 A | - | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | 1 | 6 | | | | | | | | | |
| | | 200 A | - | - | ■ | - | - | - | - | - | - | - | - | - | - | 2 | 0 | | | | | | | | | |
| | | 250 A | - | - | ■ | - | - | - | - | ■ | ■ | - | - | - | - | 2 | 5 | | | | | | | | | |
| | | 320 A | - | - | - | ■ | - | - | - | - | - | - | - | - | - | 3 | 2 | | | | | | | | | |
| | 400 A | - | - | - | ■ | - | - | - | - | - | ■ | ■ | - | - | 4 | 0 | | | | | | | | | | |
| | 500 A | - | - | - | - | ■ | - | - | - | - | - | ■ | * | - | 5 | 0 | | | | | | | | | | |
| | 630 A | - | - | - | - | ■ | - | - | - | - | - | ■ | ■ | - | 6 | 3 | | | | | | | | | | |
| | 800 A | - | - | - | - | - | ■ | - | - | - | - | - | ■ | - | 8 | 0 | | | | | | | | | | |
| | 1000 A | - | - | - | - | - | ■ | - | - | - | - | - | ■ | - | 1 | 0 | | | | | | | | | | |
| | 1250 A | - | - | - | - | - | - | - | - | - | - | - | - | ■ | 1 | 2 | | | | | | | | | | |
| | Generator protection | 25 A | - | - | - | - | - | - | ■ | ■ | - | - | - | - | 2 | 5 | | | | | | | | | | |
| | | 40 A | - | - | - | - | - | - | ■ | ■ | - | - | - | - | 4 | 0 | | | | | | | | | | |
| | | 63 A | - | - | - | - | - | - | ■ | ■ | - | - | - | - | 6 | 3 | | | | | | | | | | |
| | | 100 A | - | - | - | - | - | - | ■ | ■ | - | - | - | - | 1 | 0 | | | | | | | | | | |
| | | 160 A | - | - | - | - | - | - | - | ■ | ■ | - | - | - | 1 | 6 | | | | | | | | | | |
| | | 250 A | - | - | - | - | - | - | - | - | ■ | ■ | - | - | 2 | 5 | | | | | | | | | | |
| 400 A | | - | - | - | - | - | - | - | - | - | ■ | ■ | - | 4 | 0 | | | | | | | | | | | |
| 500 A | | - | - | - | - | - | - | - | - | - | - | ■ | * | 5 | 0 | | | | | | | | | | | |
| 630 A | | - | - | - | - | - | - | - | - | - | - | ■ | ■ | 6 | 3 | | | | | | | | | | | |
| 800 A | | - | - | - | - | - | - | - | - | - | - | - | ■ | 8 | 0 | | | | | | | | | | | |
| 1000 A | | - | - | - | - | - | - | - | - | - | - | - | ■ | 1 | 0 | | | | | | | | | | | |
| 1250 A | | - | - | - | - | - | - | - | - | - | - | - | ■ | 1 | 2 | | | | | | | | | | | |
| Short-circuit breaking capacity I _{cu} = I _{cs} at 415 V | Without overload protection | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| | Without short-circuit protection | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| | 16 kA | ■ | - | - | - | - | - | - | - | - | - | - | - | - | 2 | | | | | | | | | | | |
| | 25 kA | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | 3 | | | | | | | | | | | |
| | 36 kA | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - | - | 4 | | | | | | | | | | | |
| | 55 kA | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 5 | | | | | | | | | | | |
| | 70 kA | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 6 | | | | | | | | | | | |
| | 85 kA | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 6 | | | | | | | | | | | |
| | 110 kA | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | 7 | | | | | | | | | | | |
| | 150 kA | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | - | 8 | | | | | | | | | | | |
| 200 kA | - | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | - | 0 | | | | | | | | | | | | |

* With ETU 5-series and 8-series, utilization category B only

| | | 3VA | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | - 0AA0 |
|---|---|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------|-------------------|---|----|----|----|--------|
| | | 3VA10 | 3VA11 | 3VA12 | 3VA13 | 3VA14 | 3VA15 | 3VA20 | 3VA21 | 3VA22 | 3VA23 | 3VA24 | 3VA25 | 3VA26 | | | | | | | | |
| Protection function thermal-magnetic | No protection | - | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - | - | SD100 | - | | | A | | | |
| | Line protection | ■ | ■ | - | - | - | - | - | - | - | - | - | - | - | TM210 | FTFM | | | D | | | |
| | | - | ■ | - | - | - | - | - | - | - | - | - | - | - | TM220 | ATFM | | | E | | | |
| | | - | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | - | - | TM240 | ATAM | | | F | | | |
| Protection function thermal-magnetic, neutral conductor protection | No protection | | | | | | | | | | | | | | | | A | | | | | |
| | Line protection | Without neutral conductor protection | | | | | | | | | | | | | | | E | | | | | |
| | | 50% neutral conductor protection | | | | | | | | | | | | | | | F | | | | | |
| | | 100% neutral conductor protection | | | | | | | | | | | | | | | G | | | | | |
| Protection function electronic | Line protection | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU320 | LI | (N) ¹⁾ | H | L | | | |
| | | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU330 | LIG | (N) ¹⁾ | H | M | | | |
| | | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU340 | ELISA LI | (N) ¹⁾ | H | K | | | |
| | Line and generator protection | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU350 | LSI | (N) ¹⁾ | H | N | | | |
| | Line and generator protection, with display | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU550 | LSI | (N) ²⁾ | J | P | | | |
| | | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU560 | LSIG | (N) ²⁾ | J | Q | | | |
| | Line and generator protection, with display, with metering function | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU850 | LSI | (N) ²⁾ | K | P | | | |
| | | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ETU860 | LSIG | (N) ²⁾ | K | Q | | | |
| Number of poles | 1-pole | Line protection | - | ■* | - | - | - | - | - | - | - | - | - | - | | | | | | | 1 | |
| | | Generator protection | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| | 2-pole | Line protection | - | ■* | - | - | - | - | - | - | - | - | - | - | | | | | | | | 2 |
| | | Generator protection | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | |
| | 3-pole | Line protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 3 |
| | | Generator protection | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 3 |
| 4-pole | Line protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 4 | |
| | Generator protection | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 4 | |
| * For TM210 only | | | | | | | | | | | | | | | | | | | | | | |
| Connection technology | Nut keeper kit | Line protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 2 |
| | | Generator protection | - | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | 2 |
| | Box terminal | Line protection | ■ | ■ | - | - | - | - | ■ | ■ | - | - | - | - | | | | | | | | 6 |
| | | Generator protection | - | - | - | - | - | - | ■ | ■ | - | - | - | - | | | | | | | | 6 |

Structure of the article numbers

Basic configuration for starter and motor protection

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

| | | 3VA | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | - | 0AA0 | |
|--|--------------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|----|---|------|--|
| Trip units | Thermal-magnetic | | | | | | | | | | | 1 | | | | | | | | | | | |
| | Electronic | | | | | | | | | | | 2 | | | | | | | | | | | |
| Size | 160 A | ■ | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | 250 A | - | ■ | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | 400 A | - | - | ■ | - | - | - | - | - | - | - | | | | | | | | | | | | |
| | 630 A | - | - | - | ■ | - | - | - | - | - | - | | | | | | | | | | | | |
| | 1000 A | - | - | - | - | ■ | - | - | - | - | - | | | | | | | | | | | | |
| Max. rated current I_n | Starter protection | 1 A | ■ | - | - | - | - | - | - | - | - | | | | | | 8 | 1 | | | | | |
| | | 2 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 0 | 2 | | | | | |
| | | 4 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 0 | 4 | | | | | |
| | | 8 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 0 | 8 | | | | | |
| | | 12.5 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 9 | 2 | | | | | |
| | | 20 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 2 | 0 | | | | | |
| | | 25 A | - | - | - | - | - | ■ | - | - | - | - | | | | | 2 | 5 | | | | | |
| | | 32 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 3 | 2 | | | | | |
| | | 40 A | ■ | - | - | - | - | - | ■ | - | - | - | | | | | 4 | 0 | | | | | |
| | | 50 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 5 | 0 | | | | | |
| | | 63 A | ■ | - | - | - | - | - | ■ | - | - | - | | | | | 6 | 3 | | | | | |
| | | 80 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 8 | 0 | | | | | |
| | | 100 A | ■ | - | - | - | - | ■ | - | - | - | - | | | | | 1 | 0 | | | | | |
| | | 125 A | ■ | - | - | - | - | - | - | - | - | - | | | | | 1 | 2 | | | | | |
| | | 160 A | - | ■ | - | - | - | - | - | ■ | - | - | | | | | 1 | 6 | | | | | |
| | | 200 A | - | ■ | - | - | - | - | - | ■ | - | - | | | | | 2 | 0 | | | | | |
| | 250 A | - | - | ■ | - | - | - | - | - | ■ | - | | | | | 2 | 5 | | | | | | |
| | 320 A | - | - | - | ■ | - | - | - | - | - | - | | | | | 3 | 2 | | | | | | |
| | 400 A | - | - | - | ■ | - | - | - | - | ■ | - | | | | | 4 | 0 | | | | | | |
| | 500 A | - | - | - | ■ | - | - | - | - | ■ | - | | | | | 5 | 0 | | | | | | |
| | 630 A | - | - | - | - | ■ | - | - | - | - | - | | | | | 6 | 3 | | | | | | |
| | 800 A | - | - | - | - | - | ■ | - | - | - | - | | | | | 8 | 0 | | | | | | |
| | Motor protection | 25 A | - | - | - | - | - | - | ■ | - | - | | | | | 2 | 5 | | | | | | |
| | | 40 A | - | - | - | - | - | - | ■ | - | - | | | | | 4 | 0 | | | | | | |
| | | 63 A | - | - | - | - | - | - | ■ | - | - | | | | | 6 | 3 | | | | | | |
| | | 100 A | - | - | - | - | - | - | ■ | - | - | | | | | 1 | 0 | | | | | | |
| | | 160 A | - | - | - | - | - | - | - | ■ | - | | | | | 1 | 6 | | | | | | |
| | | 200 A | - | - | - | - | - | - | - | ■ | - | | | | | 2 | 0 | | | | | | |
| | | 250 A | - | - | - | - | - | - | - | ■ | - | | | | | 2 | 5 | | | | | | |
| | | 400 A | - | - | - | - | - | - | - | - | ■ | - | | | | | 4 | 0 | | | | | |
| | | 500 A | - | - | - | - | - | - | - | - | ■ | - | | | | | 5 | 0 | | | | | |
| | | 630 A | - | - | - | - | - | - | - | - | ■ | - | | | | | 6 | 3 | | | | | |
| 800 A | | - | - | - | - | - | - | - | - | ■ | - | | | | | 8 | 0 | | | | | | |
| Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V | | 55 kA | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | 5 | | | | | |
| | | 70 kA | ■ | ■ | ■ | ■ | ■ | - | - | - | - | | | | | | | 6 | | | | | |
| | | 85 kA | - | - | - | - | - | ■ | ■ | ■ | ■ | | | | | | | 6 | | | | | |
| | | 110 kA | - | - | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | 7 | | | | | |
| | | 200 kA | - | - | - | - | - | ■ | ■ | ■ | ■ | | | | | | | 0 | | | | | |

| | | 3VA | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | - 0AA0 | |
|--------------------------------------|--|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|------|---|---|---|---|----|----|----|--------|---|
| | | 3VA11 | 3VA12 | 3VA13 | 3VA14 | 3VA15 | 3VA21 | 3VA22 | 3VA23 | 3VA24 | 3VA25 | | | | | | | | | | | |
| Protection function thermal-magnetic | Starter protection | ■ | - | - | - | - | - | - | - | - | - | TM110M | FM | | | M | G | | | | | |
| | | ■ | ■ | ■ | ■ | ■ | - | - | - | - | - | TM120M | AM | | | M | H | | | | | |
| Protection function electronic | Motor protection | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ETU350M | LSI | | | M | N | | | | | |
| | Motor protection, with display | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ETU550M | LSI | | | M | P | | | | | |
| | Motor protection, with display, with metering function | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | ETU860M | LSIG | | | M | Q | | | | | |
| | Starter protection | - | - | - | - | - | ■ | ■ | ■ | ■ | - | ETU310M | I | | | M | S | | | | | |
| Number of poles | 3-pole | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | - | | | | | | | | | 3 | | |
| | | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | 3 | |
| Connection technology | Nut keeper kit | Starter protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | - | | | | | | | | | | 2 | |
| | | Motor protection | - | - | - | - | - | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | 2 |
| | Box terminal | Starter protection | ■ | - | - | - | - | ■ | - | - | - | - | | | | | | | | | | 6 |
| | | Motor protection | - | - | - | - | - | ■ | - | - | - | - | | | | | | | | | | 6 |

Internal accessories

Auxiliary switches and alarm switches

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

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| | | | | | 3VA10 | 3VA11 | 3VA12 | 3VA13 | 3VA14 | 3VA15 | 3VA20 | 3VA21 | 3VA22 | 3VA23 | 3VA24 | 3VA25 |
|--|--------------------|------------------|----------------------|----------------------------|-----------------------------------|---------------|---------------|---------------|---------------|-------|---------------|-------|-------|-------|-------|-------|
| Auxiliary switches AUX | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Used to signal the position of the main contacts of the molded case circuit breaker The contacts of the auxiliary switch and the molded case circuit breaker close in unison | | | | | | | | | | | | | | | | |
|  | Type | Width | I_e | U_e AC/DC | Version | | | | | | | | | | | |
| | HQ | 7 mm (1 slot) | 6 A <1 A | 240 V/250 V 24 V/24 V | Standard Electronic-compatible | | | | | | | | | | | |
| | | | | | | 3VA9988-0AA12 | | | | | | | | | | |
| | | | | | | 3VA9988-0AA13 | | | | | | | | | | |
| HP | 14 mm (2 slots) | 10 A | 600 V/250 V | Standard | 3VA9988-0AA11 | | | | | | | | | | | |
| Leading changeover switches LCS | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Used for load shedding, for example Signal the opening of the main contacts with a lead time of 20 ms in advance of circuit breaker trips | | | | | | | | | | | | | | | | |
|  | Type | Width | I_e | U_e AC/DC | Version | | | | | | | | | | | |
| | HQ | 7 mm (1 slot) | 6 A <1 A | 240 V/250 V 24 V/24 V | Standard Electronic-compatible | – | | | | | | | | | | |
| | | | | | | 3VA9988-0AA22 | | | | | | | | | | |
| | | | | | | 3VA9988-0AA23 | | | | | | | | | | |
| HP | 14 mm (2 slots) | 10 A | 600 V/250 V | Standard | – | 3VA9988-0AA21 | | | | | | | | | | |
| Trip alarm switches TAS | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Signal every circuit breaker tripping operation Are actuated whenever the molded case circuit breaker switches to the TRIP position | | | | | | | | | | | | | | | | |
|  | Type | Width | I_e | U_e AC/DC | Version | | | | | | | | | | | |
| | HQ | 7 mm (1 slot) | 6 A <1 A | 240 V/250 V 24 V/24 V | Standard Electronic-compatible | | | | | | | | | | | |
| | | | | | | 3VA9988-0AB12 | | | | | | | | | | |
| | | | | | | 3VA9988-0AB13 | | | | | | | | | | |
| HP | 14 mm (2 slots) | 10 A | 600 V/250 V | Standard | 3VA9988-0AB11 | | | | | | | | | | | |
| Short circuit alarm switches SAS | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Signal tripping operations only if they have been initiated by a short circuit The tripping operation must be reset by deliberate acknowledgement of the fault before the molded case circuit breaker can be switched to ON again | | | | | | | | | | | | | | | | |
|  | Type | Width | I_e | U_e AC/DC | Version | | | | | | | | | | | |
| | HQ | 7 mm (1 slot) | 6 A <1 A | 240 V/250 V 24 V/24 V | Standard Electronic-compatible | 3VA9988-0AB32 | 3VA9988-0AB32 | 3VA9988-0AB34 | 3VA9988-0AB36 | – | | | | | | |
| | | | | | | 3VA9988-0AB33 | 3VA9988-0AB33 | 3VA9988-0AB35 | 3VA9988-0AB37 | – | | | | | | |
| | | | | | | | | | | | | | | | | |
| Electrical alarm switches EAS | | | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Are actuated as soon as the main contacts of the molded case circuit breaker open in the event that the breaker is tripped by the ETU | | | | | | | | | | | | | | | | |
|  | Type | Width | I_e | U_e AC/DC | Version | | | | | | | | | | | |
| | HQ | 7 mm (1 slot) | 6 A <1 A | 240 V/250 V 24 V/24 V | Standard Electronic-compatible | – | – | – | – | – | | | | | | |
| | | | | | | – | – | – | – | – | 3VA9988-0AB22 | | | | | |
| | | | | | 3VA9988-0AB23 | | | | | | | | | | | |

Auxiliary releases


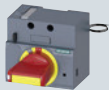


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| | | | 3VA10 | 3VA20 | |
|--|-----------------|----------------------------------|-------------------------|---------------|---------------|
| | | | 3VA11 | 3VA21 | |
| | | | 3VA12 | 3VA22 | |
| | | | 3VA13 | 3VA23 | |
| | | | 3VA14 | 3VA24 | |
| | | | 3VA15 | | 3VA25 |
| Shunt trips left STL | | | | | |
| <ul style="list-style-type: none"> Used for remote-controlled tripping of the molded case circuit breaker Have particularly low power consumption Especially suitable for electrical interlocking in the EI variant | | | | | |
|  | Version | U_e 50/60 Hz AC | U_e DC | | |
| | Standard | – | 12 V | | 3VA9988-OBL10 |
| | | 24 V | 24 ... 30 V | | 3VA9988-OBL30 |
| | | 48 ... 60 V | 48 ... 60 V | | 3VA9988-OBL31 |
| | | 110 ... 127 V | 110 ... 127 V | | 3VA9988-OBL32 |
| | | 208 ... 277 V | 220 ... 250 V | | 3VA9988-OBL33 |
| | | 380 ... 600 V | – | | 3VA9988-OBL20 |
| | Electrical (EI) | – | 24 V | | 3VA9988-OBM10 |
| Shunt trips flexible STF | | | | | |
| <ul style="list-style-type: none"> Used for remote-controlled tripping of the molded case circuit breaker Flexible installation | | | | | |
|  | Version | U_e 50/60 Hz AC | U_e DC | | |
| | | 24 V | – | – | 3VA9988-OBA20 |
| | | 48 ... 60 V | – | – | 3VA9988-OBA21 |
| | | 110 ... 127 V | – | – | 3VA9988-OBA22 |
| | | 208 ... 277 V | – | – | 3VA9988-OBA23 |
| | | 380 ... 500 V | – | – | 3VA9988-OBA24 |
| | | 600 V | – | – | 3VA9988-OBA25 |
| Universal releases UNI | | | | | |
| <ul style="list-style-type: none"> Combination of shunt trip and undervoltage release | | | | | |
|  | Version | U_e 50/60 Hz AC | U_e DC | | |
| | | – | 12 V | | 3VA9908-0BD11 |
| | | – | 24 V | | 3VA9908-0BD12 |
| | | – | 48 V | | 3VA9908-0BD13 |
| Undervoltage releases UVR | | | | | |
| <ul style="list-style-type: none"> Trip the molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether | | | | | |
|  | Version | U_e 50/60 Hz AC | U_e DC | | |
| | | – | 12 V | | 3VA9908-0BB10 |
| | | – | 24 V | | 3VA9908-0BB11 |
| | | 24 V | – | | 3VA9908-0BB20 |
| | | – | 48 V | | 3VA9908-0BB12 |
| | | 48 V | – | | 3VA9908-0BB21 |
| | | – | 60 V | | 3VA9908-0BB13 |
| | | 60 V | – | | 3VA9908-0BB22 |
| | | 110 V | – | | 3VA9908-0BB23 |
| | | 120 ... 127 V | – | | 3VA9908-0BB24 |
| | | – | 125 ... 127 V | | 3VA9908-0BB14 |
| | | 208 ... 230 V | – | | 3VA9908-0BB25 |
| | | – | 220 ... 230 V | | 3VA9908-0BB15 |
| | | – | 250 V | | 3VA9908-0BB16 |
| | | 380 ... 400 V | – | | 3VA9908-0BB26 |
| | 440 ... 480 V | – | | 3VA9908-0BB27 | |
| Time-delay devices for undervoltage releases | | | | | |
|  | Version | U_e 50/60 Hz AC | U_e DC | | |
| | | 110 V | 110 V | | 3VA9988-0BF21 |
| | | 230 V | 230 V | | 3VA9988-0BF22 |
| | | – | 24 V | | 3VA9988-0BF23 |

Manual operators

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

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| | | | 3VA10 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 | |
|---|----------------------------|-------------------------|-----------------------|---------------|-------------------------|----------------------------------|----------------|--------------------------|
| Front mounted rotary operators | | | | | | | | |
| <ul style="list-style-type: none"> Handle For IEC Degree of protection IP30 For 3-pole and 4-pole breakers | | | | | | | | |
|  | Version | Illumination kit | Door interlock | | | | | |
|  | Standard (gray) | Without | Without | 3VA9157-0EK11 | 3VA9257-0EK11 | 3VA9267-0EK11 | 3VA9467-0EK11 | 3VA9687-0EK11 |
| | | | With | 3VA9157-0EK21 | 3VA9257-0EK21 | 3VA9267-0EK21 | 3VA9467-0EK21 | 3VA9687-0EK21 |
| | | With | Without | 3VA9157-0EK13 | 3VA9257-0EK13 | 3VA9267-0EK13 | 3VA9467-0EK13 | – |
| | | | With | 3VA9157-0EK23 | 3VA9257-0EK23 | 3VA9267-0EK23 | 3VA9467-0EK23 | – |
| | EMERGENCY-OFF (red/yellow) | Without | Without | 3VA9157-0EK15 | 3VA9257-0EK15 | 3VA9267-0EK15 | 3VA9467-0EK15 | 3VA9687-0EK15 |
| | | | With | 3VA9157-0EK25 | 3VA9257-0EK25 | 3VA9267-0EK25 | 3VA9467-0EK25 | 3VA9687-0EK25 |
| | | With | Without | 3VA9157-0EK17 | 3VA9257-0EK17 | 3VA9267-0EK17 | 3VA9467-0EK17 | – |
| | | | With | 3VA9157-0EK27 | 3VA9257-0EK27 | 3VA9267-0EK27 | 3VA9467-0EK27 | – |
| Door mounted rotary operators with tolerance compensation | | | | | | | | |
| <ul style="list-style-type: none"> Shaft 300 mm (325 mm for 3VA15/3VA25) With mounting tolerance compensation Handle with masking plate 75 × 75 mm (100 × 100 mm for 3VA15/3VA25) Degree of protection IP65 For 3-pole and 4-pole breakers | | | | | | | | |
|  | Version | Illumination kit | Door interlock | | | | | |
|  | Standard (gray) | Without | With | 3VA9157-0FK21 | 3VA9257-0FK21 | 3VA9267-0FK21 | 3VA9467-0FK21 | 3VA9687-0FK21 |
| | | | With | 3VA9157-0FK23 | 3VA9257-0FK23 | 3VA9267-0FK23 | 3VA9467-0FK23 | 3VA9687-0FK23 new |
| | EMERGENCY-OFF (red/yellow) | Without | With | 3VA9157-0FK25 | 3VA9257-0FK25 | 3VA9267-0FK25 | 3VA9467-0FK25 | 3VA9687-0FK25 |
| | | | With | 3VA9157-0FK27 | 3VA9257-0FK27 | 3VA9267-0FK27 | 3VA9467-0FK27 | 3VA9687-0FK27 new |
| Door mounted rotary operators without tolerance compensation new | | | | | | | | |
|  | Version | Illumination kit | Door interlock | | | | | |
| | Standard (gray) | Without | With | 3VA9157-0FK61 | 3VA9257-0FK61 | 3VA9267-0FK61 | 3VA9467-0FK61 | 3VA9687-0FK61 |
| Door mounted rotary operators without handle | | | | | | | | |
|  | Version | Illumination kit | Door interlock | | | | | |
| | With shaft stub (gray) | – | Without | 3VA9157-0GK00 | 3VA9257-0GK00 | 3VA9267-0GK00 | 3VA9467-0GK00 | 3VA9687-0GK00 |

| | | | 3VA10 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 | |
|---|---|-------------------------|----------------|---------------|-------------------------|----------------------------------|----------------|--|
| Side wall mounted rotary operators | | | | | | | | |
|  | <ul style="list-style-type: none"> Rotary operator with shaft 300 mm Handle with masking plate 75 × 75 mm Degree of protection IP65 For 3-pole and 4-pole breakers | | | | | | | |
| Version | Mounting bracket | Illumination kit | | | | | | |
| Standard (gray) | Without | Without | 3VA9157-OPK11 | 3VA9257-OPK11 | 3VA9267-OPK11 | 3VA9467-OPK11 | – | |
| | | With | 3VA9157-OPK13 | 3VA9257-OPK13 | 3VA9267-OPK13 | 3VA9467-OPK13 | – | |
| EMERGENCY-OFF (red/yellow) | Without | Without | 3VA9157-OPK15 | 3VA9257-OPK15 | 3VA9267-OPK15 | 3VA9467-OPK15 | – | |
| | | With | 3VA9157-OPK17 | 3VA9257-OPK17 | 3VA9267-OPK17 | 3VA9467-OPK17 | – | |
| Side wall mounted rotary operators with mounting plates | | | | | | | | |
|  | <ul style="list-style-type: none"> Rotary operator with short shaft and mounting plate for mounting directly on the side wall Handle with masking plate 75 × 75 mm Degree of protection IP65 For 3-pole and 4-pole breakers | | | | | | | |
| Version | Mounting bracket | Illumination kit | | | | | | |
| Standard (gray) | With | Without | 3VA9157-OPK51 | 3VA9257-OPK51 | 3VA9267-OPK51 | – | – | |
| | | With | 3VA9157-OPK53 | 3VA9257-OPK53 | 3VA9267-OPK53 | – | – | |
| EMERGENCY-OFF (red/yellow) | With | Without | 3VA9157-OPK55 | 3VA9257-OPK55 | 3VA9267-OPK55 | – | – | |
| | | With | 3VA9157-OPK57 | 3VA9257-OPK57 | 3VA9267-OPK57 | – | – | |
| Extended DIN rails for N/PE terminals new | | | | | | | | |
|  | Version | Rated current | | | | | | |
| | For mounting plate | Up to 250 A | 3VA9987-OGL30 | 3VA9987-OGL30 | 3VA9987-OGL30 | – | – | |
| Auxiliary switch modules for rotary operating mechanisms new | | | | | | | | |
|  | Version | | | | | | | |
| | 2× leading to "ON" | | 3VA9257-OGX10 | 3VA9257-OGX10 | 3VA9467-OGX10 | 3VA9467-OGX10 | – | |
| | 2× leading to "ON" and 1× leading to "OFF" | | – | – | 3VA9467-OGX20 | 3VA9467-OGX20 | – | |
| Mounting adapters for side wall mounted rotary operators new | | | | | | | | |
|  | Version | | | | | | | |
| | Necessary accessories for 3VA side wall mounted rotary operators, if 3VA9...-OGX.0 auxiliary switch modules are used | | 3VA9257-OGX01 | 3VA9257-OGX01 | 3VA9467-OGX01 | – | – | |
| Masking plates, standard new | | | | | | | | |
| | Version | | | | | | | |
| | Necessary accessories for door mounted rotary operators and 3VA side wall mounted rotary operators, if 3VA9...-OGX.0 auxiliary switch modules are used | | 8UD1900-0BB01 | 8UD1900-0BB01 | 8UD1900-0BB01 | 8UD1900-0BB01 | – | |
| Masking plates, EMERGENCY STOP new | | | | | | | | |
| | Version | | | | | | | |
| | Necessary accessories for door mounted rotary operators and 3VA side wall mounted rotary operators, if 3VA9...-OGX.0 auxiliary switch modules are used | | 8UD1900-0BB05 | 8UD1900-0BB05 | 8UD1900-0BB05 | 8UD1900-0BB05 | – | |

Manual operators

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| | | | | | | |
|--|----------------|-------|--|-------------------------|----------------------------------|----------------|
| | | | | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
| | 3VA10 3VA11 | 3VA12 | | | | |

Supplementary handles for door mounted rotary operators



- For operation when cabinet door is open

Version

| | | | | | |
|----------------------------|---------------|---------------|---------------|---------------|---------------|
| Standard (gray) | 3VA9287-0GC01 | 3VA9287-0GC01 | 3VA9487-0GC01 | 3VA9487-0GC11 | 3VA9687-0GC01 |
| EMERGENCY-OFF (red/yellow) | 3VA9287-0GC05 | 3VA9287-0GC05 | 3VA9487-0GC05 | 3VA9487-0GC15 | 3VA9687-0GC05 |

Handles



- With masking plate

Version

| Version | Tolerance compensation | | | | |
|----------------------------|------------------------|--|---------------|---------------|---------------|
| Standard (gray) | With | | 8UD1721-0AB21 | 8UD1731-0AB21 | 8UD1741-0AB21 |
| | Without | | 8UD1721-0AB11 | 8UD1731-0AB11 | 8UD1741-0AB11 |
| EMERGENCY-OFF (red/yellow) | With | | 8UD1721-0AB25 | 8UD1731-0AB25 | 8UD1741-0AB25 |
| | Without | | 8UD1721-0AB15 | 8UD1731-0AB15 | 8UD1741-0AB15 |

Handle extensions



- Note: The handle extension is already included in the scope of supply of the breakers.

| | | | | | |
|--|--|--|--|---------------|---------------|
| | | | | | |
| | | | | 3VA9487-0SC10 | 3VA9987-0SC10 |

Shafts



| Variant | Length | | | | |
|------------|--------|---|---------------|---|---------------|
| 8 × 8 mm | 300 mm | | 8UD1900-2WA00 | | – |
| | 600 mm | | 8UD1900-2WB00 | | – |
| 12 × 12 mm | 300 mm | – | – | – | 8UD1900-4WA00 |
| | 600 mm | – | – | – | 8UD1900-4WB00 |

Adapters for shafts



| Variant | Purpose | | | | |
|----------|---|--|---------------|--|---|
| 8 × 8 mm | With door mounted rotary operator and side wall mounted rotary operator | | 8UD1900-2DA00 | | – |



| | | | | | |
|------------|----------------------------------|---|---|---|---------------|
| 12 × 12 mm | For door mounted rotary operator | – | – | – | 8UD1900-4DA00 |
|------------|----------------------------------|---|---|---|---------------|

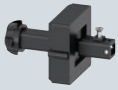
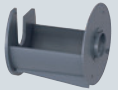

Door couplings



| Variant | | | | | |
|----------|--|--|---------------|--|---|
| 8 × 8 mm | | | 8UD1900-2HA00 | | – |



| | | | | | |
|------------|--|---|---|---|---------------|
| 12 × 12 mm | | – | – | – | 8UD1900-4HA00 |
|------------|--|---|---|---|---------------|

| | | 3VA10 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|---|----------------------------|----------------|-------|-------------------------|----------------------------------|----------------|
| Mounting tolerance compensations | | | | | | |
|  | Variant 8 × 8 mm | 8UD1900-2GA00 | | | | – |
| | 12 × 12 mm | – | – | – | – | 8UD1900-4GA00 |
| Fixing brackets for shafts | | | | | | |
|  | | 3VA9287-0GA80 | | 3VA9487-0GA80 | | 3VA9687-0GA80 |
| Variable depth adapters | | | | | | |
|  | Variant 8 × 8 mm | 3VA9487-0GB10 | | | | – |

Manual operators

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| | | | | | | |
|--|--|-------|-------|-------|-------|-------|
| | | | | | 3VA20 | |
| | | | | | 3VA21 | |
| | | | | | 3VA22 | |
| | | | | | 3VA23 | |
| | | | | | 3VA24 | |
| | | | | 3VA15 | | 3VA25 |
| | | 3VA10 | | | | |
| | | 3VA11 | | | | |
| | | 3VA12 | | | | |
| | | | 3VA13 | | | |
| | | | 3VA14 | | | |

Labeling plates for manual operators



3VA9087-0SX10

Illumination kits for manual operators



- 24 V DC voltage

| Version | Rated current | | | | | |
|--|----------------|---------------|---------------|---------------|---------------|---------------|
| Front rotary operator | 100 ... 250 A | 8UD1900-0KA10 | – | – | – | – |
| | 100 ... 630 A | – | 8UD1900-0KA20 | – | 8UD1900-0KA20 | – |
| | 630 ... 1000 A | – | – | 8UD1900-0KA30 | – | 8UD1900-0KA30 |
| Door mounted rotary operator and side wall mounted rotary operator | 100 ... 630 A | 8UD1900-0KA20 | 8UD1900-0KA20 | 8UD1900-0KA20 | 8UD1900-0KA20 | – |
| | 630 ... 1000 A | – | – | – | – | 8UD1900-0KA30 |

Cylinder locks (type Kaba), standard masking plates



| Purpose | Key | | | | | |
|---|-----|---------------|---------------|---|---------------|---|
| For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) | 1 | 8UD1900-0MB01 | 8UD1900-0MB01 | – | 8UD1900-0MB01 | – |
| | 2 | 8UD1900-0NB01 | 8UD1900-0NB01 | – | 8UD1900-0NB01 | – |
| | 3 | 8UD1900-0PB01 | 8UD1900-0PB01 | – | 8UD1900-0PB01 | – |
| | 4 | 8UD1900-0QB01 | 8UD1900-0QB01 | – | 8UD1900-0QB01 | – |

Cylinder locks (type Kaba), EMERGENCY-OFF masking plates



| Purpose | Key | | | | | |
|---|-----|---------------|---------------|---|---------------|---|
| For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) | 1 | 8UD1900-0MB05 | 8UD1900-0MB05 | – | 8UD1900-0MB05 | – |
| | 2 | 8UD1900-0NB05 | 8UD1900-0NB05 | – | 8UD1900-0NB05 | – |
| | 3 | 8UD1900-0PB05 | 8UD1900-0PB05 | – | 8UD1900-0PB05 | – |
| | 4 | 8UD1900-0QB05 | 8UD1900-0QB05 | – | 8UD1900-0QB05 | – |

Cylinder locks (type Ronis)



- Includes a lock with 2 keys
- For locking or interlocking
- For installation in all rotary operators
- For mounting in the adapter kit for the accessories compartment
- Note: The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators

| Key | | | | | |
|-----|--|--|--|---------------|--|
| 1 | | | | 3VA9980-0VL10 | |
| 3 | | | | 3VA9980-0VL30 | |
| 4 | | | | 3VA9980-0VL40 | |

Cylinder lock adapters for rotary operators



- To mount the cylinder lock in the rotary operator (also possible with door mounted rotary operator and side wall mounted rotary operator)

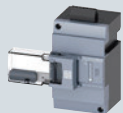
| Rated current | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 100 ... 630 A | 3VA9980-0LF20 | 3VA9980-0LF20 | – | 3VA9980-0LF20 | – |
| 1000 A | – | – | 3VA9680-0LF20 | – | 3VA9680-0LF20 |

Motor operators

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

Side mounted motor operators (MO310)



- Cover size 45 mm

| Addressable via control signals | Isolating features in accordance with IEC/EN 60947-1 | Make time, typically | | Break time, typically | | Rated operational power |
|---------------------------------|--|----------------------|----------|-----------------------|----------|---------------------------|
| | | for 3VA1 | for 3VA2 | for 3VA1 | for 3VA2 | |
| ■ | ■ | <300 ms | – | <300 ms | – | 250 W, max. 500 W (60 ms) |

Motor operators without stored energy operators (MO320)



| Addressable via control signals | Isolating features in accordance with IEC/EN 60947-1 | Make time, typically | | Break time, typically | | Rated operational power |
|---------------------------------|--|-----------------------|------------------------------------|-----------------------|------------------------------------|---------------------------|
| | | for 3VA1 | for 3VA2 | for 3VA1 | for 3VA2 | |
| ■ | ■ | <800 ms (160 A, 250A) | <1000 ms (250 A), <1700 ms (630 A) | <800 ms (160 A, 250A) | <1000 ms (250 A), <1400 ms (630 A) | 250 W, max. 500 W (60 ms) |

Motor operators with stored energy operators (SEO520)



- Synchronizable remote operating mechanism with optional communication link
- Has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.
- The connection with the COM060 communication module, via a plug-in connection, integrates the SEO520 into the communication environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the supported communication networks and the powerconfig and powermanager software packages.
- **Note:** On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.

| Addressable via control signals | Isolating features in accordance with IEC/EN 60947-1 | Make time, typically | | Break time, typically | | Rated operational power |
|---------------------------------|--|----------------------|----------|-----------------------|----------|---------------------------|
| | | for 3VA1 | for 3VA2 | for 3VA1 | for 3VA2 | |
| ■ | ■ | – | <80 ms | – | <80 ms | 300 W, max. 500 W (60 ms) |

Mechanical operating cycles counters (for installation in the SEO520)



Mounting

For installation in the SEO520

Article No.

3VA9987-OHX10

Cylinder lock adapters for SEO520



Mounting

For installation of cylinder locks in the SEO520

Article No.

3VA9980-OLF30

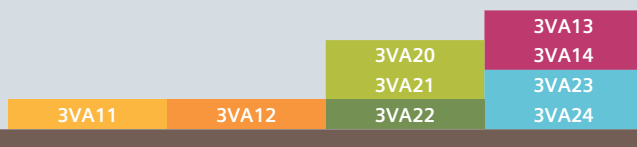
Cylinder locks (type Ronis)



- Includes a lock with 2 keys
- For locking the operating mode (Manual/Auto/Lock) of the SEO520

Key

| | Article No. |
|---|---------------|
| 1 | 3VA9980-OVL10 |
| 3 | 3VA9980-OVL30 |
| 4 | 3VA9980-OVL40 |



| Rated control supply voltage | With communication | | | | |
|---------------------------------------|--------------------|---------------|---------------|---------------|---------------|
| 42 ... 60 V AC, 24 ... 60 V DC | – | 3VA9117-0HB10 | – | – | – |
| 110 ... 230 V AC, 110 ... 250 V DC | – | 3VA9117-0HB20 | – | – | – |
| Rated control supply voltage | With communication | | | | |
| 24 ... 60 V DC | – | 3VA9157-0HA10 | 3VA9257-0HA10 | 3VA9267-0HA10 | 3VA9467-0HA10 |
| 110 ... 230 V AC, 110 ... 250 V DC | – | 3VA9157-0HA20 | 3VA9257-0HA20 | 3VA9267-0HA20 | 3VA9467-0HA20 |
| Rated control supply voltage | With communication | | | | |
| 24 V DC | – | – | – | 3VA9267-0HC10 | – |
| 42 ... 60 V AC/DC | – | – | – | 3VA9267-0HC20 | – |
| 110 ... 230 V AC, 110 ... 250 V DC | – | – | – | 3VA9267-0HC30 | – |
| 24 V DC | Yes | – | – | 3VA9267-0HC15 | – |
| 110 ... 230 V AC, 110 ... 250 V DC | Yes | – | – | 3VA9267-0HC35 | – |



Reset mode

All motor operators have the following reset modes:

- Reset mode 1: Automatic reset
- Reset mode 2: Reset via OFF-signal

The motor operator with SEO520 stored energy operator additionally has:

- Reset mode 3: Reset via OFF-signal with additional acknowledge signal

Connection technology





- ① For mounting onto the circuit breaker
② For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator



2

3VA10
3VA11

Box terminals

| | Connection options | Scope of supply | Copper stranded | |
|---|--------------------|--------------------|----------------------------|---------------|
|  | ① ② | 3 single terminals | 1.5 ... 70 mm ² | 3VA9153-0JA11 |
| | | | 6 ... 120 mm ² | – |
| | | | 25 ... 185 mm ² | – |
| | | | 50 ... 185 mm ² | – |
| | | | 35 ... 300 mm ² | – |
|  | ① ② | 4 single terminals | 1.5 ... 70 mm ² | 3VA9154-0JA11 |
| | | | 6 ... 120 mm ² | – |
| | | | 25 ... 185 mm ² | – |
| | | | 50 ... 185 mm ² | – |
| | | | 35 ... 300 mm ² | – |

Nut keeper kits

| | Connection options | Scope of supply | Max. tap width | Max. tap thickness | |
|---|--------------------|--------------------|----------------|--------------------|---------------|
|  | ① ② | 3 single terminals | 17 mm | 6.5 mm | 3VA9113-0QA00 |
| | | | 25 mm | 8 mm | – |
| | | | 35 mm | 10 mm | – |
| | | | 50 mm | 25 mm | – |
| Nut keeper kit for 3-pole breakers, 1 terminal cover | | | | | |
|  | ① ② | 4 single terminals | 17 mm | 6.5 mm | 3VA9114-0QA00 |
| | | | 25 mm | 8 mm | – |
| | | | 35 mm | 10 mm | – |
| | | | 50 mm | 28 mm | – |
| Nut keeper kit for 4-pole breakers, 1 terminal cover | | | | | |

Circular conductor terminals, 1 cable

| | Connection options | Scope of supply | Copper/aluminum stranded | | |
|---|--------------------|--------------------|---------------------------------------|---------------|--|
|  | ① ② | 3 single terminals | 1.5 ... 10 mm ² new | 3VA9113-0JB10 | |
| | | | 1.5 ... 50 mm ² | – | |
| | | | 10 ... 95 mm ² | 3VA9113-0JB11 | |
| | | | 16 ... 185 mm ² | – | |
| | | | 35 ... 185 mm ² | – | |
|  | ① ② | 4 single terminals | 1.5 ... 10 mm ² new | 3VA9114-0JB10 | |
| | | | 1.5 ... 50 mm ² | – | |
| | | | 10 ... 95 mm ² | 3VA9114-0JB11 | |
| | | | 16 ... 185 mm ² | – | |
| | | | 35 ... 185 mm ² | – | |
| 50 ... 300 mm ² | | | | | |

¹⁾ Only permitted up to 400 A

²⁾ Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

| 3VA12 | 3VA20 3VA21 | 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|---------------|----------------|---------------|----------------------------------|----------------|
| – | – | – | – | – |
| 3VA9253-0JA11 | 3VA9163-0JA12 | 3VA9163-0JA12 | – | – |
| – | 3VA9263-0JA12 | 3VA9263-0JA12 | – | – |
| 3VA9253-0JA12 | – | – | – | – |
| – | – | – | 3VA9483-0JA13 ¹⁾ | – |
| – | – | – | – | – |
| 3VA9254-0JA11 | 3VA9164-0JA12 | 3VA9164-0JA12 | – | – |
| – | 3VA9264-0JA12 | 3VA9264-0JA12 | – | – |
| 3VA9254-0JA12 | – | – | – | – |
| – | – | – | 3VA9484-0JA13 ¹⁾ | – |
| – | – | – | – | – |
| 3VA9213-0QA00 | 3VA9203-0QA00 | 3VA9203-0QA00 | – | – |
| – | – | – | 3VA9403-0QA00 | – |
| – | – | – | – | 3VA9603-0QA00 |
| – | – | – | – | – |
| 3VA9214-0QA00 | 3VA9204-0QA00 | 3VA9204-0QA00 | – | – |
| – | – | – | 3VA9404-0QA00 | – |
| – | – | – | – | 3VA9604-0QA00 |
| – | – | – | – | – |
| – | 3VA9103-0JB11 | – | – | – |
| – | – | – | – | – |
| – | – | 3VA9263-0JB12 | – | – |
| 3VA9253-0JB12 | – | – | – | – |
| – | – | – | 3VA9383-0JB13 ²⁾ | – |
| – | – | – | – | – |
| – | 3VA9104-0JB11 | – | – | – |
| – | – | – | – | – |
| – | – | 3VA9264-0JB12 | – | – |
| 3VA9254-0JB12 | – | – | – | – |
| – | – | – | 3VA9384-0JB13 ²⁾ | – |

Connection technology



- ① For mounting onto the circuit breaker
② For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

3VA10
3VA11

Circular conductor terminals with auxiliary conductor terminals, 1 cable²⁾

| Image | Connection options | | Scope of supply | Copper / aluminum stranded | Part number |
|-------|--------------------|---|--------------------|---------------------------------------|---------------|
| | ① | ② | | | |
| | ① | ② | 3 single terminals | 1.5 ... 10 mm ² new | 3VA9113-OJG10 |
| | | | | 1.5 ... 50 mm ² | – |
| | | | | 10 ... 95 mm ² | 3VA9113-OJG11 |
| | | | | 16 ... 185 mm ² | – |
| | | | | 50 ... 185 mm ² | – |
| | | | | 50 ... 300 mm ² | – |
| | ① | ② | 4 single terminals | 1.5 ... 10 mm ² new | 3VA9114-OJG10 |
| | | | | 1.5 ... 50 mm ² | – |
| | | | | 10 ... 95 mm ² | 3VA9114-OJG11 |
| | | | | 16 ... 185 mm ² | – |
| | | | | 50 ... 185 mm ² | – |
| | | | | 50 ... 300 mm ² | – |

Circular conductor terminals, 2 cables

| Image | Connection options | | Scope of supply | Copper / aluminum stranded | Aux. conductor terminal | Part number |
|-------|--------------------|---|--|-----------------------------|-------------------------|-------------|
| | ① | ② | | | | |
| | ① | ② | 3 single terminals, 1 short terminal cover | 120 ... 300 mm ² | No | – |
| | | | | Yes ²⁾ | – | |
| | ① | ② | 4 single terminals, 1 short terminal cover | 120 ... 300 mm ² | No | – |
| | | | | Yes ²⁾ | – | |

Circular conductor terminals, 3 cables

| Image | Connection options | | Scope of supply | Copper / aluminum stranded | Aux. conductor terminal | Part number |
|-------|--------------------|---|--|-----------------------------|-------------------------|-------------|
| | ① | ② | | | | |
| | ① | ② | 3 single terminals, 1 short terminal cover | 120 ... 185 mm ² | No | – |
| | | | | Yes ²⁾ | – | |
| | ① | ② | 4 single terminals, 1 short terminal cover | 120 ... 185 mm ² | No | – |
| | | | | Yes ²⁾ | – | |

Auxiliary conductor terminals for box terminals²⁾

| Image | Version | Part number |
|-------|---------------------------------|---------------|
| | Fixed-mounted | |
| | Plug-in and draw-out technology | 3VA9150-0WB00 |

Auxiliary conductor terminals for busbars²⁾

| Image | Version | Part number |
|-------|---------------------------------|---------------|
| | Fixed-mounted | |
| | Plug-in and draw-out technology | 3VA9150-0WC00 |

¹⁾ Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

²⁾ Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

| 3VA12 | 3VA20 3VA21 | 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|---------------|----------------|---------------|----------------------------------|----------------|
| – | – | – | – | – |
| – | 3VA9103-0JG11 | – | – | – |
| – | – | – | – | – |
| – | – | 3VA9263-0JG12 | – | – |
| 3VA9253-0JG12 | – | – | – | – |
| – | – | – | 3VA9383-0JG13 ¹⁾ | – |
| – | 3VA9104-0JG11 | – | – | – |
| – | – | – | – | – |
| – | – | 3VA9264-0JG12 | – | – |
| 3VA9254-0JG12 | – | – | – | – |
| – | – | – | 3VA9384-0JG13 ¹⁾ | – |
| – | – | – | – | 3VA9503-0JB23 |
| – | – | – | – | 3VA9503-0JG23 |
| – | – | – | – | 3VA9504-0JB23 |
| – | – | – | – | 3VA9504-0JG23 |
| – | – | – | – | 3VA9503-0JB32 |
| – | – | – | – | 3VA9503-0JG32 |
| – | – | – | – | 3VA9504-0JB32 |
| – | – | – | – | 3VA9504-0JG32 |
| 3VA9200-0WB00 | 3VA9200-0WB00 | 3VA9200-0WB00 | 3VA9480-0WB00 | – |
| 3VA9280-0WB00 | 3VA9280-0WB00 | 3VA9280-0WB00 | 3VA9480-0WB00 | – |
| 3VA9200-0WC00 | 3VA9200-0WC00 | 3VA9200-0WC00 | 3VA9480-0WC00 | – |
| 3VA9280-0WC00 | 3VA9280-0WC00 | 3VA9280-0WC00 | 3VA9480-0WC00 | – |

Connection technology



- ① For mounting onto the circuit breaker
② For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Note:

All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

2

Front bus connectors extended



| Number of poles | Connection options | Scope of supply | Max. tap width | Max. tap thickness |
|-----------------|--------------------|---------------------------|----------------|--------------------|
| 1P | ① – | 1 busbar connection piece | 22 mm | 8 mm |
| 3P | ① ② | 3 single terminals, | 22 mm | 8 mm |
| | | 2 phase barriers | 32 mm | 10 mm |
| | | | 40 mm | 12.5 mm |
| | | | 50 mm | 28 mm |
| 4P | ① ② | 4 single terminals, | 22 mm | 8 mm |
| | | 3 phase barriers | 32 mm | 10 mm |
| | | | 40 mm | 12.5 mm |
| | | | 50 mm | 28 mm |

Front bus connectors offset

- Distance between pole centers:
 - 100/160 A = 35 mm
 - 250 A = 45 mm
 - 400/630 A = 70 mm



| Number of poles | Connection options | Scope of supply | Max. tap width | Max. tap thickness |
|-----------------|--------------------|---------------------|----------------|--------------------|
| 3P | ① ② | 3 single terminals, | 30 mm | 8 mm |
| | | 2 phase barriers | 35 mm | 10 mm |
| | | | 60 mm | 12.5 mm |
| 4P | ① ② | 4 single terminals, | 30 mm | 8 mm |
| | | 3 phase barriers | 35 mm | 10 mm |
| | | | 60 mm | 12.5 mm |

Bus connectors edgewise



| Number of poles | Connection options | Scope of supply | Max. tap width | Max. tap thickness |
|-----------------|--------------------|---------------------|----------------|--------------------|
| 3P | ① ② | 3 single terminals, | 20 mm | 6 mm |
| | | 2 phase barriers | 25 mm | 7 mm |
| | | | 40 mm | 8 mm |
| 4P | ① ② | 4 single terminals, | 20 mm | 6 mm |
| | | 3 phase barriers | 25 mm | 7 mm |
| | | | 40 mm | 8 mm |

| 3VA10 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|----------------|---------------|-------------------------|----------------------------------|----------------|
| 3VA9151-0QB00 | – | – | – | – |
| 3VA9153-0QB00 | – | – | – | – |
| – | 3VA9253-0QB00 | 3VA9263-0QB00 | – | – |
| – | – | – | 3VA9483-0QB00 | – |
| – | – | – | – | 3VA9603-0QB00 |
| 3VA9154-0QB00 | – | – | – | – |
| – | 3VA9254-0QB00 | 3VA9264-0QB00 | – | – |
| – | – | – | 3VA9484-0QB00 | – |
| – | – | – | – | 3VA9604-0QB00 |
| 3VA9153-0QC00 | – | – | – | – |
| – | 3VA9253-0QC00 | 3VA9263-0QC00 | – | – |
| – | – | – | 3VA9483-0QC00 | – |
| 3VA9154-0QC00 | – | – | – | – |
| – | 3VA9254-0QC00 | 3VA9264-0QC00 | – | – |
| – | – | – | 3VA9484-0QC00 | – |
| 3VA9153-0QD00 | – | – | – | – |
| – | 3VA9253-0QD00 | 3VA9263-0QD00 | – | – |
| – | – | – | 3VA9483-0QD00 | – |
| 3VA9154-0QD00 | – | – | – | – |
| – | 3VA9254-0QD00 | 3VA9264-0QD00 | – | – |
| – | – | – | 3VA9484-0QD00 | – |

Connection technology



- ❶ For mounting onto the circuit breaker
- ❷ For mounting onto draw-out and plug-in units



For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Note:




All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

2




Nut keeper units, right-angled ¹⁾

| | Number of poles | Connection options | | Max. tap width | Max. tap thickness |
|---|-----------------|--------------------|---------------------|----------------|--------------------|
|  | 3P | ❶ ❷ | 3 single terminals, | 22 mm | 8 mm |
| | | | 2 phase barriers | 32 mm | 10 mm |
| | | | | 40 mm | 12.5 mm |
|  | 4P | ❶ ❷ | 4 single terminals, | 22 mm | 8 mm |
| | | | 3 phase barriers | 32 mm | 10 mm |
| | | | | 40 mm | 12.5 mm |

Rear connection studs flat

| | Number of poles | Connection options | Scope of supply |
|---|-----------------|--------------------|--|
|  | 1P | ❶ ❷ | 1 short connection stud flat 1 long connection stud flat |
|  | 3P | ❶ ❷ | 2 short connection studs flat, 1 long connection stud flat |
|  | 4P | ❶ ❷ | 2 short connection studs flat, 2 long connection studs flat |

Rear connection studs round

| | Number of poles | Connection options | Scope of supply |
|---|-----------------|--------------------|--|
|  | 1P | ❶ ❷ | 1 short connection stud round 1 long connection stud round |
|  | 3P | ❶ ❷ | 1 long connection stud round, 2 short connection studs round |
|  | 4P | ❶ ❷ | 2 long connection studs round, 2 short connection studs round |

¹⁾ Can only be connected to breaker side N, 1, 3, 5

| 3VA10 3VA11 | | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|----------------|---------------|---------------|-------------------------|----------------------------------|----------------|
| 3VA9113-0QG00 | – | – | – | – | – |
| – | 3VA9213-0QG00 | 3VA9223-0QG00 | – | – | – |
| – | – | – | 3VA9403-0QG00 | – | – |
| 3VA9114-0QG00 | – | – | – | – | – |
| – | 3VA9214-0QG00 | 3VA9224-0QG00 | – | – | – |
| – | – | – | 3VA9404-0QG00 | – | – |
| 3VA9111-0QE10 | 3VA9211-0QE10 | 3VA9201-0QE10 | 3VA9401-0QE10 | – | – |
| 3VA9111-0QE20 | 3VA9211-0QE20 | 3VA9201-0QE20 | 3VA9401-0QE20 | – | – |
| 3VA9113-0QE00 | 3VA9213-0QE00 | 3VA9203-0QE00 | 3VA9403-0QE00 | – | – |
| 3VA9114-0QE00 | 3VA9214-0QE00 | 3VA9204-0QE00 | 3VA9404-0QE00 | – | – |
| 3VA9111-0QF10 | 3VA9211-0QF10 | 3VA9201-0QF10 | 3VA9401-0QF10 | – | – |
| 3VA9111-0QF20 | 3VA9211-0QF20 | 3VA9201-0QF20 | 3VA9401-0QF20 | – | – |
| 3VA9113-0QF00 | 3VA9213-0QF00 | 3VA9203-0QF00 | 3VA9403-0QF00 | – | – |
| 3VA9114-0QF00 | 3VA9214-0QF00 | 3VA9204-0QF00 | 3VA9404-0QF00 | – | – |

Connection technology



- ① For mounting onto the circuit breaker
② For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

Circular conductor terminals, 2P



| Connection options | Scope of supply | Number of cables | Copper/aluminum stranded | Aux. conductor terminal |
|--------------------|---|------------------|----------------------------|-------------------------|
| ① – | 2 single terminals, 1 extended terminal cover, 1 insulation plate | 1 | 25 ... 150 mm ² | Yes ¹⁾ No |
| | | 6 | 1.5 ... 35 mm ² | No |

Circular conductor terminals, 3P



| Connection options | Scope of supply | Number of cables | Copper/aluminum stranded | Aux. conductor terminal | | |
|--------------------|---|------------------|---|-------------------------|----------------------------|-------------------|
| ① – | 3 single terminals, 1 extended terminal cover, 1 insulation plate | 1 | 25 ... 150 mm ² | Yes ¹⁾ No | | |
| | | | 50 ... 240 mm ² | Yes ¹⁾ No | | |
| | | 2 | 25 ... 150 mm ² | Yes ¹⁾ No | | |
| | | | 70 ... 300 mm ² | Yes ¹⁾ No | | |
| | | 4 | 120 ... 240 mm ² | Yes ¹⁾ No | | |
| | | | 1.5 ... 35 mm ² | No | | |
| | | – ② | 3 single terminals, 1 extended terminal cover, 1 insulation plate | 1 | 25 ... 150 mm ² | Yes ¹⁾ |
| | | | | | 50 ... 240 mm ² | Yes ¹⁾ |
| | | | | 2 | 25 ... 150 mm ² | Yes ¹⁾ |
| | | | | | 70 ... 300 mm ² | Yes ¹⁾ |
| | | | | 6 | 1.5 ... 35 mm ² | No |
| | | | | | 1.5 ... 35 mm ² | No |

Circular conductor terminals, 4P



| Connection options | Scope of supply | Number of cables | Copper/aluminum stranded | Aux. conductor terminal | | |
|--------------------|---|------------------|---|-------------------------|----------------------------|-------------------|
| ① – | 4 single terminals, 1 extended terminal cover, 1 insulation plate | 1 | 25 ... 150 mm ² | Yes ¹⁾ No | | |
| | | | 50 ... 240 mm ² | Yes ¹⁾ No | | |
| | | 2 | 25 ... 150 mm ² | Yes ¹⁾ No | | |
| | | | 70 ... 300 mm ² | Yes ¹⁾ No | | |
| | | 4 | 120 ... 240 mm ² | Yes ¹⁾ No | | |
| | | | 1.5 ... 35 mm ² | No | | |
| | | – ② | 4 single terminals, 1 extended terminal cover, 1 insulation plate | 1 | 25 ... 150 mm ² | Yes ¹⁾ |
| | | | | | 50 ... 240 mm ² | Yes ¹⁾ |
| | | | | 2 | 25 ... 150 mm ² | Yes ¹⁾ |
| | | | | | 70 ... 300 mm ² | Yes ¹⁾ |
| | | | | 6 | 1.5 ... 35 mm ² | No |
| | | | | | 1.5 ... 35 mm ² | No |

¹⁾ Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

| 3VA10 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|----------------|---------------|-------------------------|----------------------------------|----------------|
| 3VA9112-0JC12 | – | – | – | – |
| 3VA9112-0JJ12 | – | – | – | – |
| 3VA9112-0JF60 | – | – | – | – |
| 3VA9113-0JC12 | – | – | – | – |
| 3VA9113-0JJ12 | – | – | – | – |
| – | 3VA9213-0JC13 | 3VA9223-0JC13 | – | – |
| – | 3VA9213-0JJ13 | 3VA9223-0JJ13 | – | – |
| – | 3VA9213-0JC22 | 3VA9223-0JC22 | – | – |
| – | 3VA9213-0JJ22 | 3VA9223-0JJ22 | – | – |
| – | – | – | 3VA9403-0JC23 | – |
| – | – | – | 3VA9403-0JJ23 | – |
| – | – | – | – | 3VA9603-0JC43 |
| – | – | – | – | 3VA9603-0JJ43 |
| 3VA9113-0JF60 | 3VA9213-0JF60 | 3VA9223-0JF60 | 3VA9303-0JF60 | – |
| 3VA9153-0JC12 | – | – | – | – |
| – | 3VA9253-0JC13 | 3VA9263-0JC13 | – | – |
| – | 3VA9253-0JC22 | 3VA9263-0JC22 | – | – |
| – | – | – | 3VA9483-0JC23 | – |
| 3VA9153-0JF60 | 3VA9253-0JF60 | 3VA9263-0JF60 | 3VA9383-0JF60 | – |
| 3VA9114-0JC12 | – | – | – | – |
| 3VA9114-0JJ12 | – | – | – | – |
| – | 3VA9214-0JC13 | 3VA9224-0JC13 | – | – |
| – | 3VA9214-0JJ13 | 3VA9224-0JJ13 | – | – |
| – | 3VA9214-0JC22 | 3VA9224-0JC22 | – | – |
| – | 3VA9214-0JJ22 | 3VA9224-0JJ22 | – | – |
| – | – | – | 3VA9404-0JC23 | – |
| – | – | – | 3VA9404-0JJ23 | – |
| – | – | – | – | 3VA9604-0JC43 |
| – | – | – | – | 3VA9604-0JJ43 |
| 3VA9114-0JF60 | 3VA9214-0JF60 | 3VA9224-0JF60 | 3VA9304-0JF60 | – |
| 3VA9154-0JC12 | – | – | – | – |
| – | 3VA9254-0JC13 | 3VA9264-0JC13 | – | – |
| – | 3VA9254-0JC22 | 3VA9264-0JC22 | – | – |
| – | – | – | 3VA9484-0JC23 | – |
| 3VA9154-0JF60 | 3VA9254-0JF60 | 3VA9264-0JF60 | 3VA9384-0JF60 | – |

Connection technology



- 1 For mounting onto the circuit breaker
2 For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

| | | | | 3VA10 | 3VA11 | | | | |
|---|--|------------------------|--------------------------|--------------------------|---------------|---------------|---------------|---------------|---------------|
| Terminal covers specially for fixed mounting | | | | | | | | | |
| | Version | Number of poles | Mounting location | | | | | | |
| | Short | 1P | 1 | – | 3VA9111-0WD10 | 3VA9111-0WD10 | | | |
| | | 2P | 1 | – | 3VA9111-0WD20 | 3VA9111-0WD20 | | | |
| | | 3P | 1 | – | 3VA9111-0WD30 | 3VA9111-0WD30 | | | |
| | | 4P | 1 | – | 3VA9111-0WD40 | 3VA9111-0WD40 | | | |
| | Extended ¹⁾ | 2P | 1 | – | 3VA9111-0WF20 | 3VA9111-0WF20 | | | |
| | | 3P | 1 | – | 3VA9111-0WF30 | 3VA9111-0WF30 | | | |
| | | 4P | 1 | – | 3VA9111-0WF40 | 3VA9111-0WF40 | | | |
| | Broadened ¹⁾ | 3P | 1 | – | 3VA9111-0WG30 | 3VA9111-0WG30 | | | |
| | | 4P | 1 | – | 3VA9111-0WG40 | 3VA9111-0WG40 | | | |
| | Terminal covers specially for plug-in and draw-out units (spare part) | | | | | | | | |
| | | Version | Number of poles | Mounting location | | | | | |
| 3P | | | | | 1 | – | 3VA9113-OKB01 | 3VA9113-OKB01 | |
| 4P | | | | | 1 | – | 3VA9114-OKB01 | 3VA9114-OKB01 | |
| <ul style="list-style-type: none"> To provide circuit breaker touch protection For mounting to the molded case circuit breaker Included in scope of supply: Cover for the infeed and outgoing terminal | | | | | | | | | |
| Terminal covers for plug-in or draw-out sockets | | | | | | | | | |
| | Version | Number of poles | Mounting location | | | | | | |
| | | | | 3P | – | 2 | – | 3VA9153-OKB03 | |
| | Short | 4P | – | 2 | – | 3VA9154-OKB03 | | | |
| | | Extended ¹⁾ | 3P | – | 2 | – | 3VA9153-OKB04 | | |
| | – | | – | 2 | – | 3VA9154-OKB04 | | | |
| | Broadened ¹⁾ | 3P | – | 2 | – | 3VA9153-OKB05 | | | |
| | | 4P | – | 2 | – | 3VA9154-OKB05 | | | |
| | Insulating plates | | | | | | | | |
| | | Version | Number of poles | Mounting location | | | | | |
| | | | | | Standard | 2P | 1 | – | 3VA9111-0WJ20 |
| 3P | | | | | | 1 | – | 3VA9111-0WJ30 | 3VA9111-0WJ30 |
| 4P | | 1 | – | 3VA9111-0WJ40 | | 3VA9111-0WJ40 | | | |
| Broadened | | 3P | 1 | – | 3VA9111-0WK30 | 3VA9111-0WK30 | | | |
| | | 4P | 1 | – | 3VA9111-0WK40 | 3VA9111-0WK40 | | | |

¹⁾ Including insulating plate




²⁾ Suitable for circular conductor terminals 2/4 cables

| | 3VA20 | 3VA13 3VA14 | 3VA15 |
|---------------|----------------|----------------|--|
| 3VA12 | 3VA21 3VA22 | 3VA23 3VA24 | 3VA25 |
| – | – | – | – |
| – | – | – | – |
| 3VA9211-OWD30 | 3VA9221-OWD30 | 3VA9481-OWD30 | 3VA9601-OWD30 |
| 3VA9211-OWD40 | 3VA9221-OWD40 | 3VA9481-OWD40 | 3VA9601-OWD40 |
| – | – | – | – |
| 3VA9211-OWF30 | 3VA9221-OWF30 | 3VA9481-OWF30 | 3VA9601-OWE30 ²⁾ new |
| 3VA9211-OWF40 | 3VA9221-OWF40 | 3VA9481-OWF40 | 3VA9601-OWE40 ²⁾ new |
| 3VA9211-OWG30 | 3VA9221-OWG30 | 3VA9401-OWG30 | – |
| 3VA9211-OWG40 | 3VA9221-OWG40 | 3VA9401-OWG40 | – |
| – | – | – | – |
| 3VA9213-OKB01 | 3VA9123-OKB01 | 3VA9353-OKB01 | – |
| 3VA9214-OKB01 | 3VA9124-OKB01 | 3VA9354-OKB01 | – |
| – | – | – | – |
| 3VA9253-OKB03 | 3VA9163-OKB03 | 3VA9353-OKB03 | – |
| 3VA9254-OKB03 | 3VA9164-OKB03 | 3VA9354-OKB03 | – |
| – | – | – | – |
| 3VA9253-OKB04 | 3VA9163-OKB04 | 3VA9353-OKB04 | – |
| 3VA9254-OKB04 | 3VA9164-OKB04 | 3VA9354-OKB04 | – |
| – | – | – | – |
| 3VA9253-OKB05 | 3VA9163-OKB05 | 3VA9353-OKB05 | – |
| 3VA9254-OKB05 | 3VA9164-OKB05 | 3VA9354-OKB05 | – |
| – | – | – | – |
| 3VA9211-OWJ30 | 3VA9221-OWJ30 | 3VA9481-OWJ30 | – |
| 3VA9211-OWJ40 | 3VA9221-OWJ40 | 3VA9481-OWJ40 | – |
| 3VA9211-OWK30 | 3VA9221-OWK30 | 3VA9481-OWK30 | – |
| 3VA9211-OWK40 | 3VA9221-OWK40 | 3VA9481-OWK40 | – |

Connection technology

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

| | | 3VA10 | 3VA11 |
|---|------------------------|--|---------------|
| Phase barriers (fixed mounting, plug-in and draw-out units) | | | |
|  | Scope of supply | | |
| | 2 phase barriers | | 3VA9152-0WA00 |
| DC insulation plates for 3VA1 for fixed-mounted molded case circuit breakers | | | |
|  | Number of poles | | |
| | 3P | | 3VA9113-0SG10 |
| | 4P | | 3VA9114-0SG10 |
| Side plates for 3VA1 for fixed-mounted molded case circuit breakers | | | |
|  | Number of poles | Mounting | |
| | 2P | On 2-pole molded case circuit breakers | 3VA9112-0SG20 |

| 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 | 3VA15 3VA25 |
|---------------|-------------------------|----------------------------------|----------------|
| 3VA9252-0WA00 | 3VA9262-0WA00 | 3VA9482-0WA00 | 3VA9602-0WA00 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

Plug-in and draw-out technology





Thanks to plug-in and draw-out technology:




- Molded case circuit breakers can be replaced quickly and easily for overhauls or servicing
- Electrical isolation and clearly visible isolating distance
- The socket can be interlocked to prevent the 3VA molded case circuit breaker from being plugged in or moved in
- Identical connection technology for all molded case circuit breakers, whether they are plug-in, draw-out or fixed-mounted units

In addition, draw-out technology offers:

- Transmission of the position of the molded case circuit breaker via communication (CONNECT, TEST, DISCONNECT)
- The ability to test the auxiliary and control circuit connections in the test position of the draw-out unit, without contacted main current paths
- Transmission of the state of the molded case circuit breaker (ON, OFF, TRIP) via the COM060 communication module

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

| | 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 |
|---|--|---------------|-------------------------|----------------------------------|
| Draw-out units, complete kits | | | | |
|  | <ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Draw-out socket – Conversion kit – Mounting screw kit • Note: The crank handle for the draw-out unit must be ordered separately. | | | |
| Number of poles | | | | |
| 3P | – | 3VA9213-OKD00 | 3VA9123-OKD00 | 3VA9323-OKD00 |
| 4P | – | 3VA9214-OKD00 | 3VA9124-OKD00 | 3VA9324-OKD00 |
| Draw-out units, conversion kits | | | | |
|  | <ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Screw-fastened terminal covers for molded case circuit breakers – Side panels – Plug-in contacts – Cable cages – Autotrip plunger • Note: The crank handle for the draw-out unit must be ordered separately. | | | |
| Number of poles | | | | |
| 3P | – | 3VA9213-OKD10 | 3VA9123-OKD10 | 3VA9323-OKD10 |
| 4P | – | 3VA9214-OKD10 | 3VA9124-OKD10 | 3VA9324-OKD10 |
| Plug-in units, complete kits | | | | |
|  | <ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Plug-in base – Conversion kit – Mounting screw kit | | | |
| Number of poles | | | | |
| 3P | 3VA9113-OKP00 | 3VA9213-OKP00 | 3VA9123-OKP00 | 3VA9323-OKP00 |
| 4P | 3VA9114-OKP00 | 3VA9214-OKP00 | 3VA9124-OKP00 | 3VA9324-OKP00 |
| Plug-in units, conversion kits | | | | |
|  | <ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Screw-fastened terminal covers for molded case circuit breakers – Plug-in contacts – Cable cages – Autotrip plunger | | | |
| Number of poles | | | | |
| 3P | 3VA9113-OKP10 | 3VA9213-OKP10 | 3VA9123-OKP10 | 3VA9323-OKP10 |
| 4P | 3VA9114-OKP10 | 3VA9214-OKP10 | 3VA9124-OKP10 | 3VA9324-OKP10 |

| | 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 | 3VA13 3VA14 3VA23 3VA24 |
|---|---|---------------|-------------------------|----------------------------------|
| Cable cages for plug-in/draw-out units (spare part) | | | | |
|  | <ul style="list-style-type: none"> For routing of the required cables from the internal accessories on the back of the circuit breaker | | | |
| Number of poles | | | | |
| 3P/4P | 3VA9157-OKB02 | 3VA9257-OKB02 | 3VA9167-OKB02 | 3VA9367-OKB02 |
| Door feedthroughs | | | | |
|  | – | 3VA9257-OKT00 | 3VA9167-OKT00 | 3VA9367-OKT00 |
| Autotrip plungers (spare part) | | | | |
|  | Version | | | |
| Plug-in unit | 3VA9157-OKP81 | 3VA9257-OKP81 | 3VA9267-OKP81 | 3VA9457-OKP81 |
| Draw-out unit | – | 3VA9257-OKD81 | 3VA9267-OKD81 | 3VA9457-OKD81 |

2

Accessories

| | | | | |
|---|--|-------------------------------|--------------------|--------------------|
| Communication links for draw-out unit | | | | |
|  | Scope of supply | | | Article No. |
| | Set of cables with three special position signaling switches, 3VA9987-OKC10 connecting cables | | | 3VA9987-OKC00 |
| Position signaling switches for draw-out unit and plug-in unit | | | | |
|  | | | | Article No. |
| | | | | 3VA9987-OKB00 |
| Connecting cables | | | | |
|  | Purpose | | | Article No. |
| | Connection of position signaling switches for communication with COM060 | | | 3VA9987-OKC10 |
| Crank handles for draw-out units | | | | |
|  | Version | Scope of supply | | Article No. |
| | Insulated | Including crank handle holder | | 3VA9987-OKD81 |
| Auxiliary circuit connectors | | | | |
|  | <ul style="list-style-type: none"> Each auxiliary circuit connector is designed for 4 cables. | | | |
| | Version | | | Article No. |
| | For all draw-out units | | | 3VA9987-OKD80 |
| | For all plug-in units | | | 3VA9987-OKP80 |
| Cylinder locks | | | | |
|  | <ul style="list-style-type: none"> Scope of supply: <ul style="list-style-type: none"> – 1 lock with 2 keys For locking or interlocking Note: Not for 3VA15/3VA25! | | | |
| | Key | Lock number | Article No. | |
| | 1 | 1 | 3VA9980-0VL10 | |
| | 3 | 3 | 3VA9980-0VL30 | |
| | 4 | 4 | 3VA9980-0VL40 | |
| Cylinder lock adapters for draw-out units | | | | |
|  | <ul style="list-style-type: none"> To prevent unauthorized withdrawal or insertion of the circuit breaker into the draw-out unit Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions | | | |
| | Purpose | | | Article No. |
| | For fitting a cylinder lock in the right-hand side wall of the draw-out unit | | | 3VA9980-0LF40 |

Residual current devices RCD

According to IEC 60947-2 Annex B (Type A, Type B) and according to DIN VDE 0664-400 (Type B+)

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

2

Mounted onto the side (left)

- Can be mounted onto switch disconnectors and molded case circuit breakers



| Number of poles | Type | Sensitivity ³⁾ | Rated residual response current $I_{\Delta n}$ | Limit value of non-tripping time Δt | Rated voltage U_e | Fault current frequency | Pre-alarm | Tripped signal | | | |
|-----------------|--------|---------------------------|--|---|---------------------|-------------------------|-----------|----------------|---|---|---|
| 3-pole | RCD510 | Type A | 0.03 ... 5 A. | 0 ... 3 s | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |
| 4-pole | RCD310 | Type A | 0.03 ... 5 A. | Instantaneous | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |
| | RCD510 | Type A | 0.03 ... 5 A. | 0 ... 3 s | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |

Mounted below (under trip unit)

- Can be mounted onto molded case circuit breakers



| Number of poles | Type | Sensitivity ³⁾ | Rated residual response current $I_{\Delta n}$ | Limit value of non-tripping time Δt | Rated voltage U_e | Fault current frequency | Pre-alarm | Tripped signal | | | |
|-----------------|-------------------------|---------------------------|--|---|---------------------|-------------------------|-----------|----------------|---|---|---|
| 3-pole | RCD520 | Type A | 0.03 ... 5 A. | 0 ... 3 s | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |
| | RCD520B ¹⁾⁴⁾ | Type B | 0.03 ... 5 A. | 0 ... 10 s | 127 ... 690 V AC | 0 ... 100 kHz | 1 | ■ | – | – | – |
| | new | Type B+ | 0.03 ... 0.3 A. | | | | | | | | |
| 4-pole | RCD820 ²⁾ | Type A | 0.03 ... 30 A ⁵⁾ | 0 ... 10 s | 127 ... 690 V AC | 50/60 Hz | 2 | ■ | ■ | ■ | ■ |
| | RCD320 | Type A | 0.03 ... 5 A. | Instantaneous | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |
| | RCD520 | Type A | 0.03 ... 5 A. | 0 ... 3 s | 127 ... 480 V AC | 50/60 Hz | 1 | – | – | – | – |
| | RCD520B ⁴⁾ | Type B | 0.03 ... 5 A. | 0 ... 10 s | 127 ... 690 V AC | 0 ... 100 kHz | 1 | ■ | – | – | – |
| | new | Type B+ | 0.03 ... 0.3 A. | | | | | | | | |
| | RCD820 ²⁾ | Type A | 0.03 ... 30 A ⁵⁾ | 0 ... 10 s | 127 ... 690 V AC | 50/60 Hz | 2 | ■ | ■ | ■ | ■ |

Residual current releases (spare part) **new**



| Version | Scope of supply |
|----------------------|---------------------|
| For RCD310 or RCD510 | RCR, RCR-RCD cables |

¹⁾ 3-pole version in 4-pole enclosure

²⁾ With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately

³⁾ Type A: pulse current sensitive, type B/B+: universal current sensitive

⁴⁾ Sensitivity selectable for type B/B+

⁵⁾ $I_{\Delta n} = 30A$: type AC

⁶⁾ If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units.

⁷⁾ 1 set of box terminals is included in scope of supply of the RCD510 (3VA921..-ORS20).

Modular residual current devices type A/B (according to IEC 60947-2 Annex M)

See monitorin devices, page 11/1

| | | | | | | | | |
|-------|-------|-------|-------|-------|-------|--|--|--|
| | | | 3VA20 | | | | | |
| 3VA11 | 3VA12 | 3VA21 | 3VA22 | 3VA23 | 3VA24 | | | |

| Monitoring mode (tripping can be disabled as an option) | Remote test/ remote reset | Communication-capable | | | | | | |
|---|---------------------------|-----------------------|-----------------------------|-----------------------------|---|---|---|---|
| ■ | – | – | 3VA9113-ORS20 ⁶⁾ | 3VA9213-ORS20 ⁷⁾ | – | – | – | – |
| ■ | – | – | 3VA9114-ORS10 ⁶⁾ | – | – | – | – | – |
| ■ | – | – | 3VA9114-ORS20 ⁶⁾ | 3VA9214-ORS20 ⁷⁾ | – | – | – | – |

| Monitoring mode (tripping can be disabled as an option) | Remote test/ remote reset | Communication-capable | | | | | | |
|---|---------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| – | – | – | 3VA9113-ORL20 | 3VA9213-ORL20 | – | – | – | – |
| ■ | – | – | 3VA9113-ORL21 | – | – | – | – | – |
| ■ | ■ | ■ | – | – | 3VA9123-ORL30 | 3VA9223-ORL30 | 3VA9323-ORL30 | 3VA9423-ORL30 |
| – | – | – | 3VA9114-ORL10 | – | – | – | – | – |
| – | – | – | 3VA9114-ORL20 | 3VA9214-ORL20 | – | – | – | – |
| ■ | – | – | 3VA9114-ORL21 | – | – | – | – | – |
| ■ | ■ | ■ | – | – | 3VA9124-ORL30 | 3VA9224-ORL30 | 3VA9324-ORL30 | 3VA9424-ORL30 |
| | | | 3VA9988-OBR10 | 3VA9988-OBR10 | – | – | – | – |

Communication

| Metering function ¹⁾ | | | ETU 5-series | ETU 8-series | Display in ETU | Display DSP800 | Communication COM800/COM100 |
|--|---|-------|--------------|--------------|-------------------------|----------------|-----------------------------|
| Current | | | | | | | |
| Phase and neutral conductor currents | I_1, I_2, I_3, I_N | A | ■ | ■ | □ | □ | ■ |
| Residual current to ground | I_g | A | ■ | ■ | □ | □ | ■ |
| Phase with highest load | | A | ■ | ■ | □ | □ | ■ |
| Mean value over the three phase currents | $I_{\text{leading axis}} = (I_1 + I_2 + I_3)/3$ | A | – | ■ | – | □ | ■ |
| Asymmetry of the phase currents | I_{nba} | % | – | ■ | – | □ | ■ |
| THD of the 3 phases | $\text{THDI}_1, \text{THDI}_2, \text{THDI}_3$ | % | – | ■ | – | □ | ■ |
| Voltage | | | | | | | |
| Phase voltages incl. mean value | $U_{12}, U_{23}, U_{31}, U_{\text{phavg}}$ | V | – | ■ | □ | □ | ■ |
| Voltages to N conductor incl. mean value | $U_{1N}, U_{2N}, U_{3N}, U_{\text{Navg}}$ | V | – | ■ | – | □ | ■ |
| Voltage unbalance | | % | – | ■ | – | □ | ■ |
| THD phase/phase and phase/N | $\text{THDI}_1, \text{THDI}_2, \text{THDI}_3$ | % | – | ■ | – | □ | ■ |
| Power | | | | | | | |
| Active power, total and per phase | $P_1, P_2, P_3, P_{\text{tot}}$ | kW | – | ■ | □ (P_{tot}) | □ | ■ |
| Apparent power, total and per phase | $S_1, S_2, S_3, S_{\text{tot}}$ | kVA | – | ■ | – | □ | ■ |
| Reactive power, total and per phase | $Q_1, Q_2, Q_3, Q_{\text{tot}}$ | kVAr | – | ■ | □ | □ | ■ |
| Power factor of the fundamental | $P_{F1}, P_{F2}, P_{F3}, P_{F\text{avg}}$ | | – | ■ | □ ($P_{F\text{avg}}$) | □ | ■ |
| Energy | | | | | | | |
| Active energy, infeed and feedback | E_p | kWh | – | ■ | □ | □ | ■ |
| Reactive energy, infeed and feedback | E_q | kVArh | – | ■ | – | □ | ■ |
| Apparent energy | E_s | kVAh | – | ■ | – | □ | ■ |
| Frequency | | | | | | | |
| Present frequency | f | Hz | – | ■ | □ | □ | ■ |
| Maximum pointer function | | | | | | | |
| Min./max. current, voltage, power | With time stamp | – | – | – | – | – | ■ |

¹⁾ Depending on ETU version

■ Available

□ Displayable

– Not available

| | |
|-------|-------|
| 3VA20 | 3VA23 |
| 3VA21 | 3VA24 |
| 3VA22 | 3VA25 |

COM060 communication modules

- For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply)
- Including a T-Connector



Purpose

Communication to the COM800/COM100 breaker data server via 3VA line

3VA9187-0TB10

3VA9387-0TB10

24 V modules

- 24 V DC
- For mounting in the right-hand accessories compartment of the 3VA2

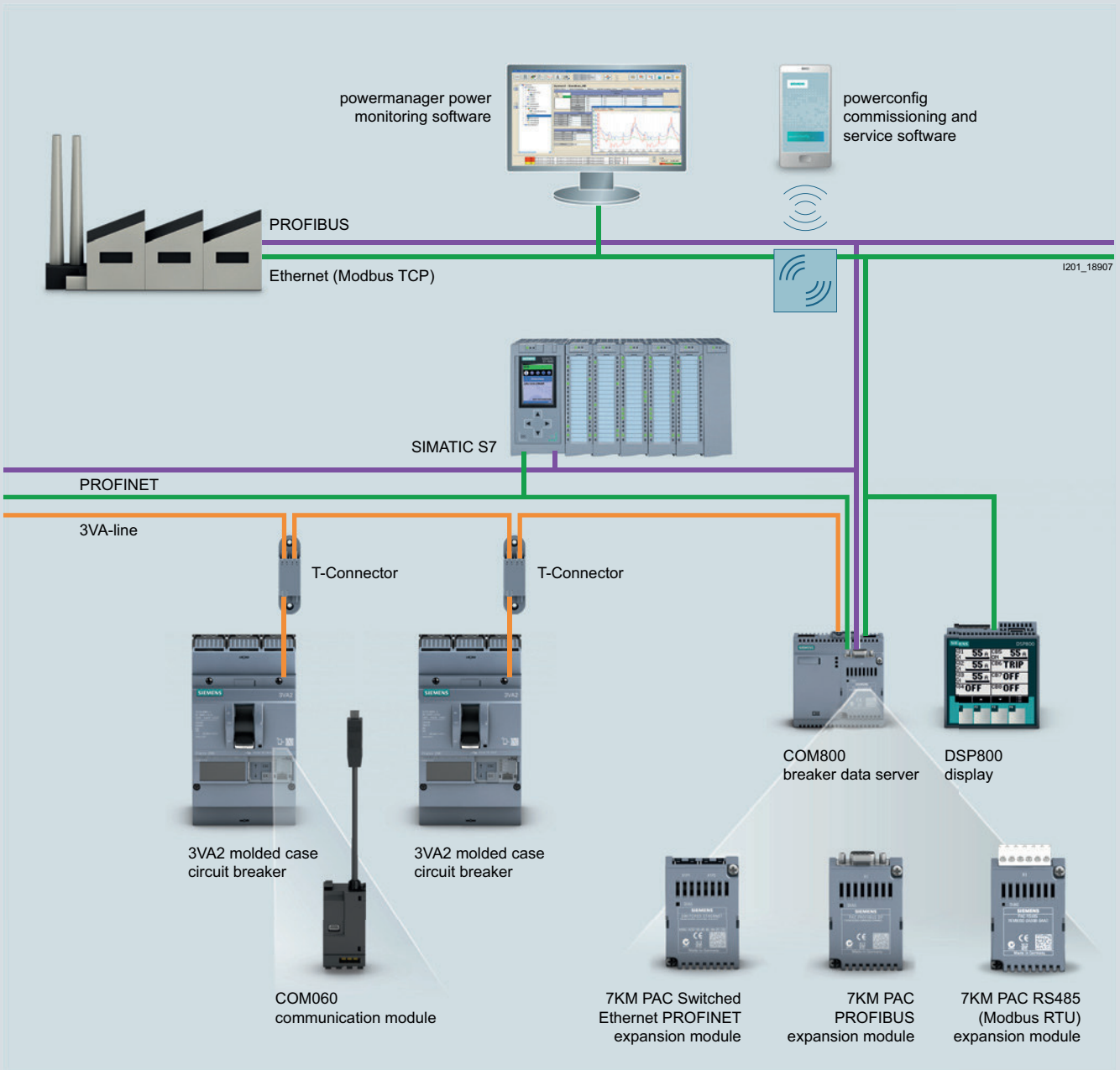


Purpose

Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series

3VA9187-0TB50

3VA9387-0TB50



Communication

Breaker data server

COM800 breaker data servers



Version

Central communication module for connection of up to eight 3VA2 molded case circuit breakers via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

Article No.

3VA9987-0TA10

COM100 breaker data servers



Version

Central communication module for connection of a 3VA2 molded case circuit breaker via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

Article No.

3VA9987-0TA20

7KM PAC PROFIBUS DP expansion modules



Purpose

Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1. Supplies the state and measured variables of the 3VA molded case circuit breaker for the PROFIBUS DP master. Receives information (e.g. commands) from the PROFIBUS DP master and transmits them to the 3VA molded case circuit breaker.

Article No.

7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules



Purpose

Used for connecting the COM800/COM100 breaker data server, and the connected 3VA molded case circuit breakers, to PROFINET via two Ethernet interfaces. Supplies the state and measured variables of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFinergy and Modbus TCP protocols.

Article No.

7KM9300-0AE01-0AA0

7KM PAC RS485 Modbus RTU expansion modules



Purpose

Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to Modbus RTU. Supplies the state and measured variables of the 3VA molded case circuit breaker for the Modbus RTU master. Receives information (e.g. commands) from the Modbus RTU master and transmits them to the 3VA molded case circuit breaker.

Article No.

7KM9300-0AM00-0AA0

Interfaces to IEC 61850 **new**

Purpose: The SICAM A8000 smart breaker data server connects the circuit breakers from the SENTRON portfolio via the MODBUS TCP/IP protocol and transmits data via communication protocols (e.g.: IEC 61850, IEC 60870-5-104, IEC 60870-5-101, MODBUS and DNP) to higher-level systems.



Type

Processor assembly

Operating voltage

Article No.

SICAM CP-8021 ¹⁾

4 interfaces

6MF28021AA00

SICAM PS-8620

–

24 ... 60 V DC (12 W)

6MF28620AA00

SICAM PS-8622

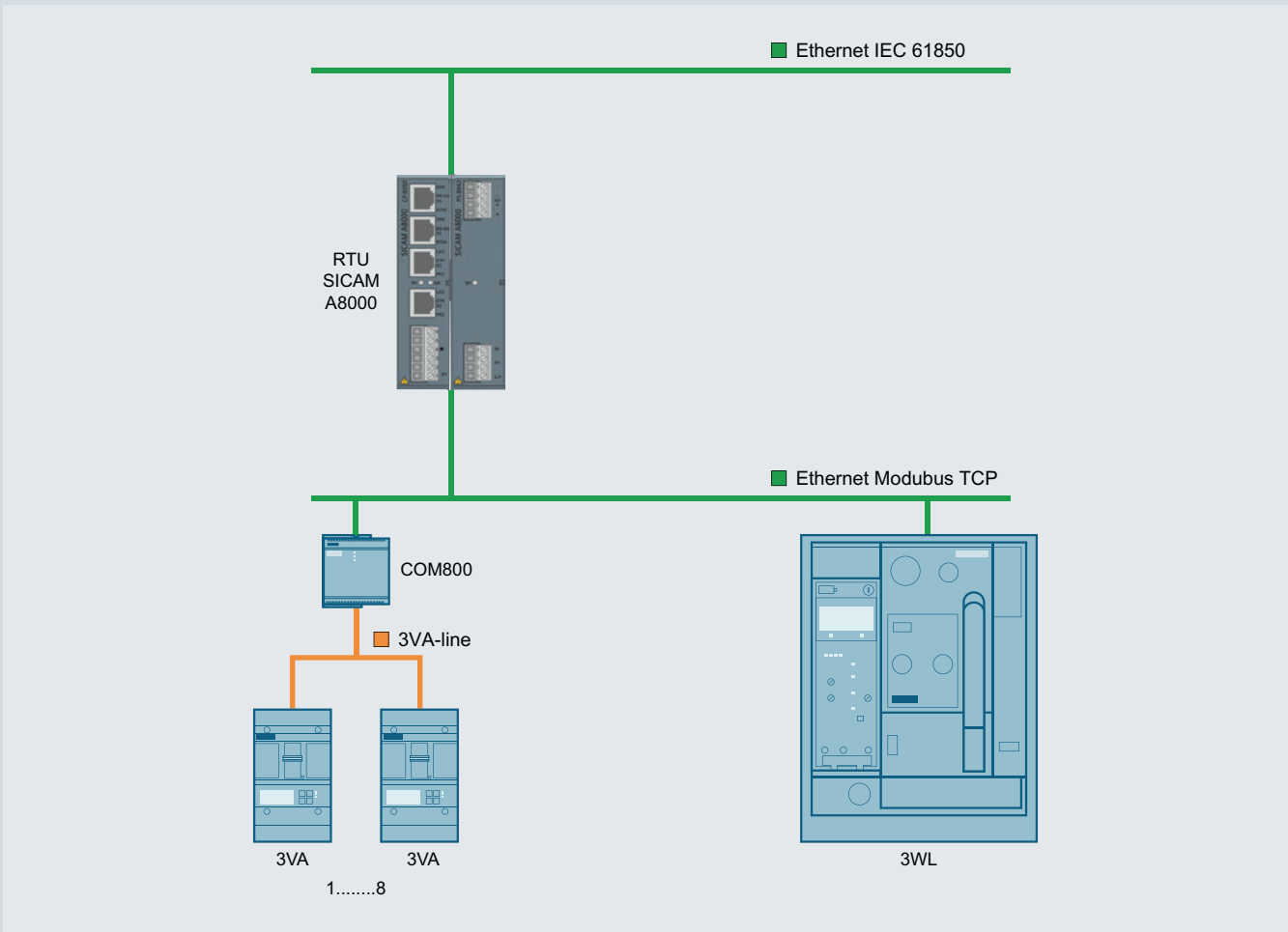
–

110 ... 220 V DC (12 W)

6MF28622AA00

¹⁾ Dimensioned for device quantities of 8× 3VA and 1× 3W

You will find further information at:
www.siemens.com/sicam-a8000




Communication

Accessories for communication

| T-connectors (spare part) | | | |
|---|--|------------------------------------|--------------------|
|  | Purpose | | Article No. |
| | Provides a stub connection to the COM060 and loops through to the next circuit breaker. | | 3VA9987-0TG10 |
| DIN rail adapters | | | |
|  | Purpose | | Article No. |
| | For snapping the T-Connector onto a DIN rail. | | 3VA9987-0TG11 |
| Prefabricated connecting cables, T-connector – T-connector or T-connector – COM800/COM100 | | | |
|  | Length | | Article No. |
| | 0.4 m | | 3VA9987-0TC10 |
| | 1 m | | 3VA9987-0TC20 |
| | 2 m | | 3VA9987-0TC30 |
| | 4 m | | 3VA9987-0TC40 |
| Prefabricated connecting cables for extending the COM060 – T-connector stub connection | | | |
|  | Length | | Article No. |
| | 0.4 m | | 3VA9987-0TF20 |
| | 0.8 m | | 3VA9987-0TF10 |
| Additional bus terminating resistors (spare part) | | | |
|  | Purpose | | Article No. |
| | For COM800 and COM060 | | 3VA9987-0TE10 |
| Voltage tap to external N conductors (spare part) | | | |
|  | Purpose | | Article No. |
| | Cable for connection of the star point for the metering function of the 8-series ETU, length 1.5 m | | 3VA9987-0UC10 |
| External current transformer for N conductors | | | |
|  | Purpose | Rated current I_n | Article No. |
| | For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables | 25 ... 150 A | 3VA9007-0NA10 |
| | | 160 ... 350 A | 3VA9107-0NA10 |
| | | 400 ... 630 A | 3VA9307-0NA10 |
| External current transformers as straight-through transformers | | | |
|  | Rated current I_n | | Article No. |
| | 25 ... 150 A | | 3VA9077-0NA10 |
| | 160 ... 350 A | | 3VA9177-0NA10 |
| | 400 ... 630 A | | 3VA9377-0NA10 |
| | 600 ... 1250 A | | 3VA9677-0NA10 |
| Connecting cables for external current transformers for N conductors (spare part) | | | |
|  | | | Article No. |
| | | | 3VA9907-0NB10 |

Display

| DSP800 displays | | |
|---|--|--------------------|
|  | Purpose | Article No. |
| | For displaying the status and measured values of up to eight devices <ul style="list-style-type: none"> • 3VA2 via COM800/100 • 3VA27 • 3WL10 • 3WL11-13 • PAC3200T | 3VA9987-0TD10 |

External function box

EFB300 external function boxes



- 4 digital outputs for information output
- 1 digital input
- ZSI functionality
- S0-Interface
- Including cable 1.5 m in length

| Purpose | Article No. |
|--|---------------|
| For connection to the ETU of 3VA2 molded case circuit breakers | 3VA9987-0UA10 |

Connecting cables for EFB300



| Length | Purpose | Article No. |
|--------|------------------------------|---------------|
| 1.5 m | For 3VA2 with EFB | 3VA9987-0UB10 |
| 3.0 m | For 3VA2 with EFB | 3VA9987-0UB20 |
| | For 3VA2 with EFB and RCD820 | 3VA9987-0UB30 |

Test devices

TD300 test devices



| Purpose | Connection | Article No. |
|---|-----------------------------------|---------------|
| For activation of the ETU and initiation of a test tripping operation | On the front interface of the ETU | 3VA9987-0MA10 |

TD400 test devices



- Energy supply via batteries or the USB-C interface
- USB-C interface for connecting a PC with powerconfig
- Bluetooth interface for connection to a PC, smartphone or tablet
- ETU parameterization
- Including adapter and connecting cable to 3VA2 molded case circuit breaker and IEC 3WL (ETU release 2)
- Including case

| Purpose | Connection | Article No. |
|---|---|---------------|
| Initiation of a test tripping operation | On the front interface of the ETU (3VA and IEC 3WL ETU release 2) | 3VW9011-0AT40 |

TD500 test devices



- USB interface for connecting a PC with powerconfig
- Including external power supply
- Including connecting cable to 3VA2 molded case circuit breaker

| Purpose | Connection | Article No. |
|--|-----------------------------------|---------------|
| Initiation of various test tripping operations (LSING), ETU parameterization | On the front interface of the ETU | 3VA9987-0MB10 |

External power supplies for TD500 (spare part)



| Voltage | Article No. |
|---------------|---------------|
| 110 ... 240 V | 3VA9987-0MX10 |

Connecting cables for connecting TD500 to 3VA2 molded case circuit breakers (spare part)



| Article No. |
|---------------|
| 3VA9987-0MY10 |

Locking, blocking and interlocking

2

| | | 3VA11 | 3VA12 | 3VA20 3VA21 3VA22 |
|---|---|--------------------------------|---------------|-------------------------|
| Locking | | | | |
| <ul style="list-style-type: none"> The locking devices make it possible to lock the 3VA molded case circuit breakers in either the OFF or the ON operating position. | | | | |
| Version | | | | |
|  | Cylinder lock | Key 1 (lock number 1) | | 3VA9980-OVL10 |
| | | Key 3 (lock number 3) | | 3VA9980-OVL30 |
| | | Key 4 (lock number 4) | | 3VA9980-OVL40 |
|  | Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker | 3VA9157-0LF10 | 3VA9257-0LF10 | 3VA9167-0LF10 |
| | | | | |
|  | Locking device for toggle operating mechanism | | 3VA9088-0LB10 | 3VA9388-0LB10 |
| Interlocking | | | | |
| <ul style="list-style-type: none"> Using interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case circuit breakers: <ul style="list-style-type: none"> Front interlock Rear interlock | | | | |
| Version | | | | |
|  | Cylinder lock | Key 1 (lock number 1) | | 3VA9980-OVL10 |
| | | Key 3 (lock number 3) | | 3VA9980-OVL30 |
| | | Key 4 (lock number 4) | | 3VA9980-OVL40 |
|  | Sliding bar interlock | 3VA9158-0VF30 | 3VA9258-0VF30 | 3VA9168-0VF30 |
| | | | | |
|  | Module for handle interlock using a Bowden cable | 3VA9157-0VF10 | 3VA9257-0VF10 | 3VA9167-0VF10 |
| | | | | |
|  | Bowden cable | Length 0.6 m | | 3VA9980-OVC10 |
| | | Length 1.0 m | | 3VA9980-OVC20 |
| | | Length 1.5 m | | 3VA9980-OVC30 |
|  | Rear interlock with rod | Circuit breaker, fixed-mounted | | 3VA9088-0VM10 |
| | | Plug-in/draw-out technology | | 3VA9088-0VM30 |
|  | Mounting frame for rear interlock with rod | Profile rails | | 3VA9088-0VK10 |
| | | Mounting plate | 3VA9158-0VK20 | 3VA9258-0VK20 |

¹⁾ Available from Q1/2020

²⁾ With mounting frame for rear interlock.

Can be used with breaker 3VA15 from "E02" and 3VA25 from "E05" (Line protection CB with TMTU, 3-Series ETU and 5-Series ETU)

| | |
|-------|-------|
| 3VA13 | |
| 3VA14 | |
| 3VA23 | 3VA15 |
| 3VA24 | 3VA25 |

Locking

| | | Use in | Locking in OFF position | Locking in ON position | Front mounting | Rear mounting | Interlocked breakers |
|---------------|---------------|---|-------------------------|------------------------|----------------|---------------|----------------------|
| 3VA9980-0VL10 | – | Breakers, motor-drive mechanisms, manual operators, draw-out technology | ■ | ■ | ■ | – | – |
| 3VA9980-0VL30 | – | | | | | | |
| 3VA9980-0VL40 | – | | | | | | |
| 3VA9367-0LF10 | 3VA9587-0LF10 | Circuit breaker | ■ | ■ | ■ | – | – |
| 3VA9388-0LB10 | 3VA9588-0LB10 | Circuit breaker | ■ | ■ | ■ | – | – |

Interlocking

| | | Use in | Locking in OFF position | Locking in ON position | Front mounting | Rear mounting | Interlocked breakers |
|---------------|--------------------------------|--------------------------------|-------------------------|------------------------|----------------|---------------|----------------------|
| 3VA9980-0VL10 | – | Breakers, manual operators | ■ | ■ | ■ | – | Unlimited |
| 3VA9980-0VL30 | – | | | | | | |
| 3VA9980-0VL40 | – | | | | | | |
| 3VA9368-0VF30 | – | Circuit breaker | – | – | ■ | – | 3 |
| 3VA9367-0VF10 | 3VA9587-0VF10 | Circuit breaker | – | – | ■ | – | 3 |
| 3VA9980-0VC10 | | | | | | | |
| 3VA9980-0VC20 | | | | | | | |
| 3VA9980-0VC30 | | | | | | | |
| 3VA9088-0VM10 | 3VA9588-0VM10 ^{1) 2)} | Circuit breaker, fixed-mounted | – | – | – | ■ | 2 |
| 3VA9088-0VM30 | – | Plug-in/draw-out technology | | | | ■ | |
| 3VA9088-0VK10 | – | | | | | ■ | |
| 3VA9468-0VK20 | – | | | | | | |

Cover frame and mounting

2

| | | 3VA10 3VA11 | 3VA12 | |
|---|---|---|---------------|---|
| Cover frames for door cutouts for molded case circuit breakers | | | | |
|  | Number of poles | Door cut-out with trip unit | | |
| | 3P | No | 3VA9053-OSB10 | |
| | | Yes | 3VA9053-OSB20 | |
| | 4P | No | 3VA9054-OSB10 | |
| | Yes | 3VA9054-OSB20 | | |
| Cover frames for MO320 motor operators | | | | |
|  | Purpose | | | |
| | MO320 motor operator | 3VA9053-OSB20 | 3VA9257-OSB30 | |
| | Motor operator with SEO520 stored energy operator | – | – | |
| Cover frames for RCD320, RCD520 and RCD820 residual current devices | | | | |
|  | Number of poles | | | |
| | 3P | 3VA9053-OSB10 | 3VA9253-OSB10 | |
| | 4P | 3VA9054-OSB10 | 3VA9254-OSB10 | |
| Cover frames for front mounted rotary operators | | | | |
|  | | 3VA9053-OSB10 | 3VA9253-OSB10 | |
| Cover frames for door feedthroughs | | | | |
|  | | – | 3VA9253-OSB20 | |
| Labeling plates for cover frame | | | | |
|  | | | 3VA9087-OSX10 | |
| Adapters for DIN rails for 3VA1 molded case circuit breakers | | | | |
|  | Number of poles | | | |
| | 1P | 3VA9181-OSH10 | – | |
| | 2P | 3VA9182-OSH10 | – | |
| | 3P and 4P | 3VA9187-OSH10 | – | |
| | 3P and 4P in connection with RCD310 or RCD510 | 3VA9187-OSH20 | – | |
| Mounting screw kits | | | | |
|  | Purpose | Number of poles | | |
| | For fixed-mounted breakers | 1P | 3VA9111-OSS10 | – |
| | | 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) | 3VA9116-OSS10 | – |
| | | 3P (125 A/160 A with 55 kA and 70 kA) and 4P | 3VA9114-OSS10 | – |
| | | 3P | – | – |
| | 4P | – | – | |
| | 3P and 4P | – | – | |
| For plug-in technology | – | 3VA9114-OSS10 | – | |
| For plug-in and draw-out technology | – | – | 3VA9114-OSS10 | |

Adapter for 60 mm busbar system (8US), see page 13/26

| | 3VA13 | |
|---------------|---------------|---------------|
| | 3VA14 | |
| 3VA20 | 3VA23 | 3VA15 |
| 3VA21 | 3VA24 | 3VA25 |
| 3VA22 | | |
| 3VA9163-0SB10 | 3VA9383-0SB10 | 3VA9503-0SB10 |
| 3VA9163-0SB20 | 3VA9363-0SB20 | 3VA9503-0SB20 |
| 3VA9164-0SB10 | 3VA9384-0SB10 | 3VA9504-0SB10 |
| 3VA9164-0SB20 | 3VA9364-0SB20 | 3VA9504-0SB20 |
| 3VA9257-0SB30 | 3VA9387-0SB30 | – |
| 3VA9167-0SB30 | – | – |
| 3VA9253-0SB10 | 3VA9303-0SB40 | – |
| 3VA9254-0SB10 | 3VA9304-0SB40 | – |
| 3VA9163-0SB10 | 3VA9383-0SB10 | 3VA9503-0SB50 |
| 3VA9253-0SB20 | 3VA9353-0SB20 | – |
| 3VA9087-0SX10 | | |
| – | – | – |
| – | – | – |
| – | – | – |
| – | – | – |
| – | – | – |
| – | – | – |
| – | – | – |
| 3VA9126-0SS10 | – | – |
| 3VA9124-0SS10 | – | – |
| – | 3VA9328-0SS10 | 3VA9517-0SS10 |
| – | – | – |
| 3VA9124-0SS10 | 3VA9328-0SS10 | – |

System overview

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

2

Basic units

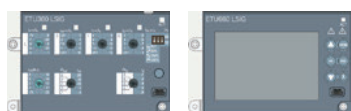


Handle



Stored energy operator

Trip units



Electronic trip unit (ETU)

Accessories



Communication module



Rating plugs

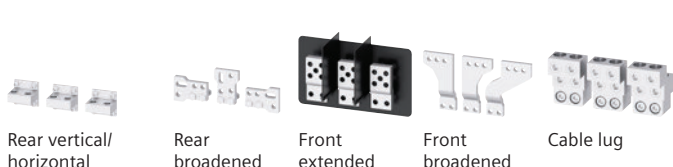


Breaker Connect module



Test devices and breaker data adapters

Main conductor connections



Rear vertical/horizontal

Rear broadened

Front extended

Front broadened

Cable lug

Accessories



Phase barriers



Terminal cover

Motors



Spring charging motor

Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases / closing coils



Undervoltage release (UVR) / Shunt trip (ST)



Closing coil (CC) / Remote reset magnet (RR)

Note:

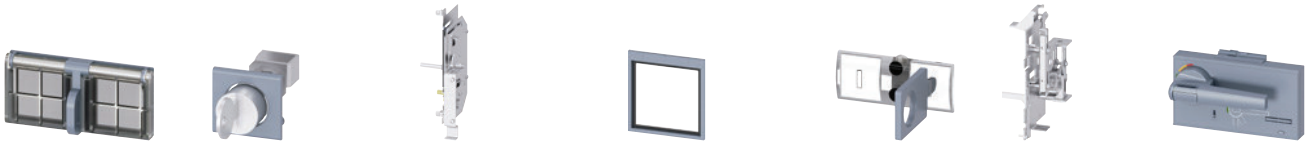
You will find a detailed range of accessories in the Accessories and spare parts section.

Auxiliary switches



Tripped signaling switch Ready-to-close signaling switch (RTC) Auxiliary switch ON/OFF (AUX) Tripped signaling switch (S24) Trip alarm switch (TAS)

Further accessories



Padlockable protective cover Locking device Locking mechanism Door sealing frame Protective cover Mutual mechanical interlocking Manual operator

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration with toggle operating mechanism

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

3VA27 6 7 8 9 10 11 12 13 14 15 16

Basic units and ETUs

| | | | | | | | | | | | | | | | | | | |
|--|---|---------------------------|-------------------------------|-----------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| Max. rated current I_n | 800 A | 8 | 0 | | | | | | | | | | | | | | | |
| | 1000 A | 1 | 0 | | | | | | | | | | | | | | | |
| | 1250 A | 1 | 2 | | | | | | | | | | | | | | | |
| | 1600 A | 1 | 6 | | | | | | | | | | | | | | | |
| Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V | Toggle operating mechanism | 55 kA | | 5 | | | | | | | | | | | | | | |
| | | 85 kA | | 6 | | | | | | | | | | | | | | |
| | | 110 kA | | 7 | | | | | | | | | | | | | | |
| Non-automatic air circuit breakers | Without metering function, without a communication link | Without trip unit | | | A | A | | | | | | | | | | | | |
| Circuit breakers, ETU 3-series | Without metering function, without a communication link | With trip unit | ETU320 LI (N) ¹⁾ | | A | B | | | | | | | | | | | | |
| | | | ETU350 LSI (N) ¹⁾ | | A | C | | | | | | | | | | | | |
| | | | ETU360 LSI (N) ¹⁾ | | A | D | | | | | | | | | | | | |
| Circuit breakers, ETU 6-series | With trip unit | | ETU650 LSI (N) ¹⁾ | | | E | | | | | | | | | | | | |
| | | | ETU660 LSI (N) ¹⁾ | | | F | | | | | | | | | | | | |
| | Without communications interface | Without metering function | | | | A | | | | | | | | | | | | |
| | | | | | | B | | | | | | | | | | | | |
| | With communications interface | Without metering function | Metering function Basic | Voltage tap on bottom | | C | | | | | | | | | | | | |
| | | | | Voltage tap on top | | D | | | | | | | | | | | | |
| | | | Metering function Advanced | Voltage tap on bottom | | E | | | | | | | | | | | | |
| | | Voltage tap on top | | F | | | | | | | | | | | | | | |

¹⁾ Neutral conductor protection for 3-pole breakers with an external neutral conductor transformer or 4-pole breakers

| | | | | |
|-----------------|------------------------|--------|---------------|---|
| Number of poles | Fixed-mounted versions | 3-pole | | 0 |
| | | 4-pole | Neutral left | 1 |
| | | | Neutral right | 2 |
| | Withdrawable | 3-pole | | 3 |
| | | 4-pole | Neutral left | 4 |
| | | | Neutral right | 5 |

Connection

| | | | |
|-------------------|--------------------------|--|---|
| Installation type | Withdrawable | Withdrawable circuit breaker without guide frame (guide frame must be ordered separately) | 0 |
| | | Fixed-mounted breaker / withdrawable breaker | 1 |
| | Rear vertical connection | Rear horizontal connection | 2 |
| | | Front terminal for main circuit connection | 3 |
| | | Front-accessible, extended terminal for main circuit connection | 5 |
| | | Front-accessible, broadened terminal for main circuit connection | 6 |
| | | Rear broadened bus connectors | 7 |

3VA27 6 7 8 9 10 11 12 13 14 15 16

Alarm switch combinations

| | | |
|----------------|--|---|
| Alarm switches | Without | 0 |
| | With tripped signaling switch TAS and tripped signaling switch S25 | 1 |
| | With two leading changeover switches S26 | 2 |
| | With tripped signaling switch TAS and tripped signaling switch S25 and two leading changeover switches S26 | 3 |

Auxiliary releases, closing coils

| | | |
|---|---------|---|
| Closing coil (CC), remote reset magnet (RR) | Without | A |
|---|---------|---|

| | | | |
|-----------------------|--|---------------------------|------------|
| 2nd auxiliary release | Without 2nd auxiliary release | | A |
| | With undervoltage release (UVR) | 24 V AC/DC | B |
| | | 30 V AC/DC | C |
| | | 48 V AC/DC | D |
| | | 60 V AC/DC | E |
| | | 110 ... 120 V AC/DC | F |
| | | 120 ... 127 V AC/DC | G |
| | | 220 ... 240 V AC/DC | H |
| | | 240 ... 250 V AC/DC | J |
| | | 380 ... 400 V AC/DC | K |
| | | 415 ... 440 V AC/DC | L |
| | With undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device | 24 ... 30 V AC/DC | M |
| | | 110 ... 127 V AC/DC | N |
| | | 220 ... 250 V AC/DC | P |
| | | With 2nd shunt trip (ST2) | 24 V AC/DC |
| | 30 V AC/DC | | R |
| | 48 V AC/DC | | S |
| | 60 V AC/DC | | T |
| | 110 ... 120 V AC/DC | | U |
| | 120 ... 127 V AC/DC | | V |
| 220 ... 240 V AC/DC | W | | |
| 240 ... 250 V AC/DC | X | | |

| | | | |
|-----------------------|-------------------------------|---------------------|---|
| 1st auxiliary release | Without 1st auxiliary release | | 0 |
| | Shunt trip (ST) | 24 V AC/DC | 1 |
| | | 30 V AC/DC | 2 |
| | | 48 V AC/DC | 3 |
| | | 60 V AC/DC | 4 |
| | | 110 ... 120 V AC/DC | 5 |
| | | 120 ... 127 V AC/DC | 6 |
| | | 220 ... 240 V AC/DC | 7 |
| | | 240 ... 250 V AC/DC | 8 |

3VA27 6 7 8 9 10 11 12 13 14 15 16

Auxiliary releases, closing coils, remote reset magnets

| | | | |
|--|---|---------------------|---|
| Closing coil (CC), remote reset magnet (RR) | Without | | A |
| | Closing coil (CC) | 24 V AC/DC | B |
| | | 30 V AC/DC | C |
| | | 48 V AC/DC | D |
| | | 60 V AC/DC | E |
| | | 110 ... 120 V AC/DC | F |
| | | 120 ... 127 V AC/DC | G |
| | | 220 ... 240 V AC/DC | H |
| | | 240 ... 250 V AC/DC | J |
| | Closing coil (CC) and additional remote reset magnet (RR) | 24 V AC/DC | K |
| 110 V AC/DC | | L | |
| 220 V AC/DC | | M | |
| 2nd auxiliary release | Without 2nd auxiliary release | | A |
| | With undervoltage release (UVR) | 24 V AC/DC | B |
| | | 30 V AC/DC | C |
| | | 48 V AC/DC | D |
| | | 60 V AC/DC | E |
| | | 110 ... 120 V AC/DC | F |
| | | 120 ... 127 V AC/DC | G |
| | | 220 ... 240 V AC/DC | H |
| | | 240 ... 250 V AC/DC | J |
| | | 380 ... 400 V AC/DC | K |
| | | 415 ... 440 V AC/DC | L |
| | With undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device | 24 ... 30 V AC/DC | M |
| | | 110 ... 127 V AC/DC | N |
| | | 220 ... 250 V AC/DC | P |
| | With 2nd shunt trip (ST2) | 24 V AC/DC | Q |
| | | 30 V AC/DC | R |
| | | 48 V AC/DC | S |
| | | 60 V AC/DC | T |
| | | 110 ... 120 V AC/DC | U |
| 120 ... 127 V AC/DC | | V | |
| 220 ... 240 V AC/DC | | W | |
| 240 ... 250 V AC/DC | | X | |
| 1st auxiliary release | Without 1st auxiliary release | | 0 |
| | Shunt trip (ST) | 24 V AC/DC | 1 |
| | | 30 V AC/DC | 2 |
| | | 48 V AC/DC | 3 |
| | | 60 V AC/DC | 4 |
| | | 110 ... 120 V AC/DC | 5 |
| | | 120 ... 127 V AC/DC | 6 |
| | | 220 ... 240 V AC/DC | 7 |
| | | 240 ... 250 V AC/DC | 8 |

Accessory options

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

To specify the options, add „-Z“ to the complete Article No. and indicate the appropriate order code(s).

3VA27..-.....-.... -Z

Order code

Accessories for basic configuration

Mounting options for fixed mounting

- In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocks.¹⁾

| Mounting options for fixed mounting ¹⁾ | | | | | | | | |
|---|---|--|--|--|--|--|--|-------|
| Floor mounting | Mounting support standard | | | | | | | A 0 7 |
| | Mounting support extended ²⁾ | | | | | | | S 5 6 |
| Rear panel mounting onto mounting plate | Side wall extended ²⁾ | | | | | | | S 5 7 |

Accessories for electronic trip units ETU

Rating plugs

- The electronic trip units are equipped as standard with a rating plug for setting the rated current I_{nr} , which is equal to the maximum rated circuit breaker current ($< I_{n\max}$). The rated current of the selected rating plug must be less than or equal to $I_{n\max}$.
- To downrate the circuit breaker, a rated current smaller than $I_{n\max}$ is selected for the rating plug via a Z option.
- Other functions can also be activated using rating plugs (L = OFF or Rc protection).

| Rating plug | | | | | | | | |
|--|-----------------|---|------------------|-------|--|--|--|-------|
| For setting the rated current I_{nr} | For all ETU | 400 A | | | | | | B 0 4 |
| | | 630 A | | | | | | B 0 6 |
| | | 800 A | | | | | | B 0 8 |
| | | 1000 A | | | | | | B 1 0 |
| | | 1200 A | | | | | | B 1 2 |
| | | For setting the rated current I_{nr} with overload protection L = OFF | For ETU 6-series | 400 A | | | | |
| 630 A | | | | | | | | L 0 6 |
| 800 A | | | | | | | | L 0 8 |
| 1000 A | | | | | | | | L 1 0 |
| 1250 A | | | | | | | | L 1 2 |
| 1600 A | | | | | | | | L 1 6 |
| For setting the rated current I_{nr} . For enabling the residual current protection function. The residual current function is only possible with the MF Advanced metering function. | For ETU660 only | 400 A | | | | | | G 0 4 |
| | | 630 A | | | | | | G 0 6 |
| | | 800 A | | | | | | G 0 8 |
| | | 1250 A | | | | | | G 1 2 |

Communication modules

- Up to 2 different communication modules can be used at the same time.
- When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used.

| Communication modules | | | | | | | | |
|-----------------------|------------|--|--|--|--|--|--|-------|
| COM043 | Modbus TCP | | | | | | | F 1 1 |
| COM042 | Modbus RTU | | | | | | | F 1 2 |


Breaker Connect modules


- When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed as standard.
- By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110–240 V AC/DC.

| Breaker Connect module | | | | | | | | |
|------------------------|--|--|--|--|--|--|--|-------|
| 110 ... 240 V AC/DC | | | | | | | | F 2 6 |

I/O modules internal

| I/O modules internal | | | | | | | | |
|---------------------------|---------------------|--|--|--|--|--|--|-------|
| IOM040 digital I/O module | 2 inputs, 2 outputs | | | | | | | K 5 6 |

 For molded case circuit breakers with stored energy operating mechanism

 For molded case circuit breakers with toggle operating mechanism

¹⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

²⁾ Not possible in connection with or as an alternative to the mounting support, standard (A07).

To specify the options, add „-Z“ to the complete Article No. and indicate the appropriate order code(s).

3VA27..-.....-.... -Z

Order code

0 1

Accessories for motors

5-digit mechanical operating cycles counter

☒ ☒ - C 0 1

Auxiliary switches and signaling switches

- Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.
- For currents <100 mA for PLC connections, these auxiliary and signaling switches can be replaced.
- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
 - minimum load above 1 mA at 5 V DC, and a
 - maximum breaking capacity of 100 mA at 24 V DC.

Position signaling switches for guide frames 2 CO | 2 CO | 2 CO (connected | test | disconnected position) ☒ ☒ ☒ K 5 5

| | | | | | | |
|------------------|---------------------------------------|------------------------------|-------|---|---|---|
| Signaling switch | Ready-to-close signaling | 1 CO contact digital 24 V DC | ☒ ☒ - | K | 5 | 0 |
| | Tripped signaling switch (S24) | 1 CO contact digital 24 V DC | ☒ ☒ ☒ | K | 5 | 3 |
| | Spring charged signaling switch (S21) | 1 CO contact digital 24 V DC | ☒ ☒ - | K | 5 | 4 |

| | | | | | | |
|------------------|--------------|---|---------|---|---|---|
| Auxiliary switch | On / Off AUX | 4 CO contacts digital 24 V DC | ☒ ☒ ☒ ☒ | K | 5 | 1 |
| | | 2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC | ☒ ☒ ☒ ☒ | K | 5 | 2 |

Locking, blocking and interlocking

| | | | | | | |
|-----------------|---|--------------------------------------|-------|---|---|---|
| Locking devices | To prevent movement of withdrawable circuit breaker | Cylinder lock Made by Ronis | ☒ ☒ ☒ | R | 7 | 8 |
| | | For no more than three 8-mm padlocks | ☒ ☒ ☒ | R | 6 | 5 |

Locking mechanism To prevent movement to disconnected position ☒ ☒ ☒ R 7 9

| | | | | | | |
|----------------|---|---|---------|---|---|---|
| Locking device | To prevent unauthorized activation in the operator panel (safe OFF) | Cylinder lock, made by Ronis | ☒ ☒ - | S | 0 | 8 |
| | | For no more than 3 padlocks, plastic 4 mm | ☒ ☒ ☒ - | S | 2 | 2 |
| | | For no more than 1 padlock, metal 7 mm | ☒ ☒ - | S | 2 | 3 |
| | | For no more than 2 padlocks, metal 8 mm | ☒ ☒ - | S | 0 | 7 |

| | | | | | | |
|------------------------------|--|---|-------|---|---|---|
| Padlockable protective cover | For mechanical ON and/or OFF on the operator panel | For no more than 3 padlocks, plastic 4 mm | ☒ ☒ - | S | 4 | 2 |
| | | For no more than 1 padlock, metal 7 mm | ☒ ☒ - | S | 4 | 3 |
| | | For no more than 2 padlocks, metal 8 mm | ☒ ☒ - | S | 4 | 4 |

Protective cover For mechanical ON/OFF, not lockable ☒ ☒ - S 4 1

Door sealing frame IP30 IP3x ☒ ☒ ☒ T 3 0

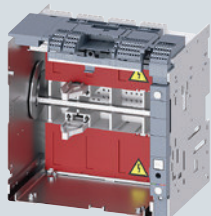
☒ For molded case circuit breakers with stored energy operating mechanism

☒ For molded case circuit breakers with toggle operating mechanism

Guide frames

3VA27

Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1250 A
- **Note:** All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are included with the switching device. PSS Standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

| Number of poles | Connection type | Article No. |
|-----------------|--|---------------|
| 3-pole | Rear vertical | 3VW8116-7AA01 |
| | Rear horizontal | 3VW8116-7AB01 |
| | Front straight bus connectors extended | 3VW8116-7AE01 |
| | Broadened bus connectors | 3VW8116-7AF01 |
| | Rear broadened bus connectors | 3VW8116-7AG01 |
| 4-pole | Rear vertical | 3VW8116-7BA01 |
| | Rear horizontal | 3VW8116-7BB01 |
| | Front straight bus connectors extended | 3VW8116-7BE01 |
| | Broadened bus connectors | 3VW8116-7BF01 |
| | Rear broadened bus connectors | 3VW8116-7BG01 |

To specify the options, add „Z“ to the complete Article No. and indicate the appropriate order code(s).

3VW8....-.....-.... -Z

Order code

Locking, blocking and interlocking

| Locking device | To prevent movement of withdrawable circuit breaker | Cylinder lock, made by Ronis For no more than 3 8-mm padlocks | ☰ | ⚡ | | R | 7 | 8 |
|-------------------|--|--|---|---|--|---|---|---|
| | | | ☰ | ⚡ | | R | 6 | 5 |
| Locking mechanism | To prevent movement to disconnected position (only in combination with R78 or R65) | | ☰ | ⚡ | | R | 7 | 9 |

Auxiliary/signaling switches

| Position signaling switch PSS for guide frame | For 24 V DC digital signals, for minimum currents | 2 CO 2 CO 2 CO (connected test disconnected position) | ☰ | ⚡ | | K | 5 | 5 |
|---|---|---|---|---|--|---|---|---|
|---|---|---|---|---|--|---|---|---|

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.

For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified.

The auxiliary/signaling switches for 24 V DC digital signals are designed for

- A minimum load above 1 mA at 5 V DC, and
- A maximum breaking capacity of 100 mA at 24 V DC.

☰ For molded case circuit breakers with stored energy operating mechanism

⚡ For molded case circuit breakers with toggle operating mechanism
















Electronic trip unit ETU and accessories

3VA27




Electronic trip units (ETU)

| Version | With communications / metering function, enhanced protection functions | Type | Protective function | Article No. |
|---|--|--------|---|---------------|
|  | With rotary coding switches No | ETU320 | LIN   | 3VW9011-5AA00 |
| | | ETU350 | LSIN   | 3VW9012-5AA00 |
| | | ETU360 | LSING   | 3VW9012-7AA00 |
|  | With display Yes | ETU650 | LSIN   | 3VW9017-5AA00 |
| | | ETU660 | LSING   | 3VW9017-7AA00 |

Metering functions for ETU650 or ETU660

| Description | Protective function / version | Arrangement | Article No. |
|---|--|---|---------------|
|  | MF Basic | –   | 3VW9011-0AT01 |
| | MF Advanced | –   | 3VW9011-0AT04 |
| Set of cables for voltage tap for MF | For 4-pole circuit breakers with N conductor right | Top or bottom   | 3VW9011-0AT08 |
| | For 4-pole circuit breakers with N conductor left | Top   | 3VW9011-0AT75 |
| | | Bottom   | 3VW9011-0AT76 |
| | For 3-pole circuit breakers | Top   | 3VW9011-0AT72 |
| | | Bottom   | 3VW9011-0AT73 |

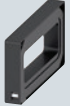


External current transformers for N conductors

| Accessory for | Purpose | Article No. |
|---|----------------------------------|---|
|  ETU320, ETU350, ETU360, ETU650, ETU660 | Only for 3-pole circuit breakers |   3VW9011-0AA30 |





External current transformers for grounded transformer star points

| Accessory for | G _{ret} (Ground return) | Article No. |
|---|----------------------------------|---|
|  ETU660 | 100 A |   3VW9011-0GF30 |
| | 250 A |   3VW9011-0GF31 |

Summation current transformers external Rc-CT for residual current measurement


| Accessory for | Purpose | Article No. |
|---|---|---|
|  ETU660 | For external residual current measurement |   3VW9011-0RC30 |


Remote reset magnets RR for the circuit breakers including tripped signal

| Accessory for | Voltage | Article No. |
|---|-------------|---|
|  ETU320, ETU350, ETU360, ETU650, ETU660 | 24 V DC |  – 3VW9011-0AK03 |
| | 110 V AC/DC |  – 3VW9011-0AK05 |
| | 250 V AC/DC |  – 3VW9011-0AK06 |

Replacement batteries for electronic trip unit ETU

| Accessory for | Article No. |
|---|---|
|  ETU320, ETU350, ETU360, ETU650, ETU660 |   3VW9011-0AT38 |

 For molded case circuit breakers with stored energy operating mechanism

 For molded case circuit breakers with toggle operating mechanism

Electronic trip unit ETU and accessories

3VA27

Rated current modules / rating plugs



- Only one module is possible per circuit breaker.

| Accessory for | Version | Rated current I_n | Article No. |
|--|---|---------------------|---------------|
| ETU320, ETU350, ETU360, ETU650, ETU660 | Rating plugs for setting ($< I_{n\max}$) the rated current I_n | 400 A | 3VW9011-0AA53 |
| | | 630 A | 3VW9011-0AA55 |
| | | 800 A | 3VW9011-0AA56 |
| | | 1000 A | 3VW9011-0AA57 |
| | | 1250 A | 3VW9011-0AA58 |
| | | 1600 A | 3VW9011-0AA61 |
| ETU 6-series | Rating plug without overload protection (L = OFF) and for setting ($< I_{n\max}$) the rated current I_n | 400 A | 3VW9011-0LF53 |
| | | 630 A | 3VW9011-0LF55 |
| | | 800 A | 3VW9011-0LF56 |
| | | 1000 A | 3VW9011-0LF57 |
| | | 1250 A | 3VW9011-0LF58 |
| | | 1600 A | 3VW9011-0LF61 |
| ETU660 | Rating plug Rc for ETU660 for enabling the residual current protection function and setting ($< I_{n\max}$) the rated current I_n . The residual current function is only possible with the MF Advanced metering function. | 400 A | 3VW9011-0RC53 |
| | | 630 A | 3VW9011-0RC55 |
| | | 800 A | 3VW9011-0RC56 |
| | | 1250 A | 3VW9011-0RC58 |

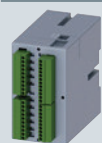
CB bus modules - communication modules



- Contains the communication module
- Up to 2 different communication modules can be used at the same time.
- When using a digital I/O module IOM040 (Z option K56), only 1 communication module can be used.
- Can only be used with ETU of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.

| Communication module | Protocol | Article No. |
|----------------------|------------|---------------|
| COM043 | Modbus TCP | 3VW9011-0AT16 |
| COM042 | Modbus RTU | 3VW9011-0AT17 |

CB bus modules - I/O modules external IOM300



- For snapping onto standard mounting rail

| Accessory for | Maximum switching current per contact | Inputs | Outputs | Article No. |
|---------------|--|--------|---------|---------------|
| ETU 6-series | <ul style="list-style-type: none"> 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC | 11 | 10 | 3VW9011-0AT20 |

CB bus modules - I/O modules internal IOM040



- When using a digital I/O module IOM040, only 1 communication module can be used.

| Accessory for | Maximum switching current per contact | Inputs | Outputs | Article No. |
|---------------|--|--------|---------|---------------|
| ETU 6-series | <ul style="list-style-type: none"> 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC | 2 | 2 | 3VW9011-0AT30 |

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

3VA27

Actuator modules COM ACT



- For switching the circuit breaker on/off remotely via communication.
- Actuation of the closing coil (CC) and the 1st shunt trip (ST).
- Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt trip.
- Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.

Accessory for

ETU 6-series



-

Article No.

3VW9011-0AT10

Breaker Connect modules



- For external power supply for the electronics components

Voltage

110 ... 240 V AC/DC



Article No.

3VW9011-0AT06

24 ... 48 V DC



3VW9011-0AT07

Auxiliary contact signals for communications interfaces



- Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions.
- Can only be used in combination with communication module.
- Can be combined with standard position signaling switches or ready-to-close signaling contacts.
- Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected.

Function

Ready-to-close signaling switch for communication (COM RTC)



-

Article No.

3VW9011-0AT11

Position signaling switch COM PSS (for withdrawable breaker only)



3VW9011-0AT12

Test devices and breaker data adapters



- Usable for all ETU 3-series and 6-series

Description

Test device

- For the trip test via ETU and tripping solenoid including release
- Activation of the ETU and the tripping solenoid by means of a battery built into the test device
- On activation in the ETU 6-series, the parameters can be configured on the display

Type

TD310



Article No.

3VW9011-0AT32

Breaker data adapter

- As gateway for parameterization of the ETU with powerconfig
- For generation of a report of the set parameters with powerservice

TD410



3VW9011-0AT34

Test device and breaker data adapter

- As gateway for parameterization of the ETU with powerconfig
 - Testing a tripping operation using powerconfig
- For use with the powerservice software
 - Testing of the basic protection functions LSING
 - Testing of the enhanced protection functions
 - Test data storage
 - Readout of ETU buffer
 - Generation of a report of the set parameters

TD420



3VW9011-0AT33

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

Accessories for connection and insulation

3VA27

Front terminals for main circuit connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom

| Version | Description | Mounting onto | Number of poles / quantity | | Article No. |
|---|--|---|--|--|------------------|
| Fixed-mounted | Front terminals for main circuit connection | – | 3-pole / 3 units | | 3VW9011-0AL01 |
| | | | 4-pole / 4 units | | 3VW9011-0AL02 |
| | Extended main terminals, including insulation plate and phase barriers, standard | Front terminals for main circuit connection | 3-pole / 3 units | | 3VW9011-0AL77 |
| | | | 4-pole / 4 units | | 3VW9011-0AL78 |
| | | | Broadened main terminals, including insulation plate and extended phase barriers | Front terminals for main circuit connection, top | 3-pole / 3 units |
| Front terminals for main circuit connection, bottom | 3-pole / 3 units | | 3VW9011-0AL75 | | |
| Front terminals for main circuit connection, top/bottom | 4-pole / 4 units | | 3VW9011-0AL74 | | |
| Withdrawable | Front-accessible terminals for main circuit connection | Guide frame flange | 3-pole / 3 units | | 3VW9011-0AN01 |
| | | | 4-pole / 4 units | | 3VW9011-0AN02 |
| | Broadened main circuit connections | Front-accessible terminals for | 3-pole / 3 units | | 3VW9011-0AN73 |
| | | | 4-pole / 4 units | | 3VW9011-0AN74 |

Rear terminals for main circuit connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom

| Fixing | Version | Mounting onto | Number of poles / quantity | | Article No. |
|---------------|---|------------------------------|----------------------------|--|---------------|
| Fixed-mounted | Rear terminals for main circuit connection, rotatable for horizontal / vertical connection Including terminal cover | – | 3-pole / 3 units | | 3VW9011-0AL32 |
| | | | 4-pole / 4 units | | 3VW9011-0AL33 |
| Withdrawable | Rear terminals for main circuit connection, rotatable for horizontal / vertical connection Including terminal cover | – | 3-pole / 3 units | | 3VW9011-0AN32 |
| | | | 4-pole / 4 units | | 3VW9011-0AN33 |
| | Broadened main terminals | Rear horizontal main connec- | 3-pole / 3 units | | 3VW9011-0AN75 |
| | | | 4-pole / 4 units | | 3VW9011-0AN76 |

Cu-/Al cable connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom

| Fixing | Version | Mounting onto | Number of poles / quantity | | Article No. |
|---------------|---|---|----------------------------|--|---------------|
| Fixed-mounted | Circular conductor terminals 4 x 240 mm ² for front cable connection, including insulation plate and high, extended terminal cover | Front terminals for main circuit connection | 3-pole / 3 units | | 3VW9011-0AL71 |
| | | | 4-pole / 4 units | | 3VW9011-0AL72 |
| Withdrawable | Set of circular conductor connection pieces 4 x 240 mm ² for cable lugs for rear cable connection | Rear vertical main connec- | 3-pole / 3 units | | 3VW9011-0AN71 |
| | | tions | 4-pole / 4 units | | 3VW9011-0AN72 |

Auxiliary supply connectors in push-in version

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism



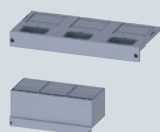
- Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames.
- The device is always fitted at the factory with the exact number of auxiliary conductor terminals required.

3VA27

| Version | Article No. |
|---------|---------------|
| Push-in | 3VW9011-0AB11 |

Terminal covers for fixed circuit breakers

- Finger-proof for front terminals for main circuit connection for fixed-mounting
- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.



| Version | Number of poles / quantity | Article No. |
|----------|----------------------------|---------------|
| Standard | 3-pole / 2 units | 3VW9723-0WD30 |
| | 4-pole / 2 units | 3VW9724-0WD40 |
| Extended | 3-pole / 2 units | 3VW9723-0WF30 |
| | 4-pole / 2 units | 3VW9724-0WF40 |

Phase barriers for fixed breakers



- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.
- For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.

| Height | Number of poles / quantity | Article No. |
|-------------------|----------------------------|---------------|
| 100 mm (standard) | 3-pole / 4 units | 3VW9723-0WA00 |
| | 4-pole / 6 units | 3VW9724-0WA10 |
| 200 mm (extended) | 3-pole / 4 units | 3VW9723-0WA01 |
| | 4-pole / 6 units | 3VW9724-0WA11 |

Supports for mounting the fixed-mounted breakers on the floor

- For fixed-mounted versions only



| Version | Purpose | Article No. |
|--|--|---------------|
| Mounting support standard (circuit breaker feet) (= Z option A07) | | 3VW9011-0BB51 |
| Mounting support extended (circuit breaker feet) including mechanical transmission of switch position on circuit breaker side panel (= Z option S56) | <ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), • Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) | 3VW9011-0BB52 |

Extension kits for modification of the side wall of the fixed-mounted breakers

- For fixed-mounted breakers only
- Rear fixation on mounting plate
- For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57)



| Version | Purpose | Article No. |
|-----------------------------|--|---------------|
| Extension kit for side wall | <ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), • Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) | 3VW9011-0BB53 |

Spring charging motor (MO)

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

Motor operators and manual operators



| | | | | 3VA27 |
|---|---------------------|--|---|---------------|
| Description | Voltage | | | Article No. |
| For automatic charging of the stored energy operating mechanism | 24 ... 30 V AC/DC | | – | 3VW9011-0AF01 |
| | 48 ... 60 V AC/DC | | – | 3VW9011-0AF02 |
| | 100 ... 130 V AC/DC | | – | 3VW9011-0AF03 |
| | 220 ... 250 V AC/DC | | – | 3VW9011-0AF04 |

Mechanical operating cycles counter MOC



| Description | Version | | | Article No. |
|--|----------|--|---|---------------|
| Only possible in combination with a spring charging motor. | 5 digits | | – | 3VW9011-0AH07 |

Manual operators for circuit breakers with toggle operating mechanism



| Description | Version | Color | Degree of protection | | Article No. |
|---|---------------|------------|----------------------|---|---------------|
| Front rotary operating mechanism incl. door sealing frame | Standard | Gray | IP30 | – | 3VW9727-0EK11 |
| | EMERGENCY-OFF | Yellow-red | IP30 | – | 3VW9727-0EK15 |



| | | | | | |
|------------------------------|---------------|------------|------|---|---------------|
| Door mounted rotary operator | Standard | Gray | IP30 | – | 3VW9727-0FK21 |
| | EMERGENCY-OFF | Yellow-red | IP30 | – | 3VW9727-0FK25 |



| | | | | | |
|----------------------|--|--|------|---|---------------|
| Basic without handle | | | IP30 | – | 3VW9727-0GK00 |
|----------------------|--|--|------|---|---------------|



| | | | | | |
|------------|--|--|------|---|---------------|
| Shaft stub | | | IP30 | – | 8UD1900-3WD00 |
|------------|--|--|------|---|---------------|



| | | | | |
|--------|------------|------|---|---------------|
| Handle | Gray | IP30 | – | 8UD1861-0AB11 |
| | Yellow-red | IP30 | – | 8UD1861-0AB15 |

Closing coils CC / shunt trips ST

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

Auxiliary release, closing coil

3VA27

- Note:**

- For molded case circuit breakers with stored energy operators, the products can only be used as closing coils CC
- For molded case circuit breakers with handle mechanisms, the products can be used as closing coils CC and shunt trips ST.



| Voltage | Article No. |
|---------------------|---------------|
| 24 V AC/DC | 3VW9011-0AD01 |
| 30 V AC/DC | 3VW9011-0AD02 |
| 48 V AC/DC | 3VW9011-0AD03 |
| 60 V AC/DC | 3VW9011-0AD04 |
| 110 ... 120 V AC/DC | 3VW9011-0AD05 |
| 120 ... 127 V AC/DC | 3VW9011-0AD06 |
| 220 ... 240 V AC/DC | 3VW9011-0AD07 |
| 240 ... 250 V AC/DC | 3VW9011-0AD08 |
| 380 ... 400 V AC | 3VW9011-0AD17 |
| 415 ... 440 V AC | 3VW9011-0AD18 |

TD320 function test units for closing coils / shunt trips



- The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested.
- The operational availability test is performed cyclically at intervals of 30 seconds.
- The unit has visual indicators in the form of LEDs on the front in order to display the following states:
 - LED POWER ON LIT: Correct function of the YO/YC test unit
 - LED DEACTIVATION LIT: Power supply failure, wire break
 - LED SHORT-CIRCUIT LIT: Winding short-circuit
 - LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply
 - LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt trips OK

| Description | Article No. |
|-------------------------------------|---------------|
| For all closing coils / shunt trips | 3VW9011-0AT31 |

Auxiliary / signaling switches



- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
 - minimum load above 1 mA at 5 V DC, and a
 - maximum breaking capacity of 100 mA at 24 V DC.
- For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification.

| Description | Contacts | Article No. |
|--|---|---------------|
| Ready-to-close signal RTC | 1 CO standard | 3VW9011-0AH01 |
| | 1 CO digital | 3VW9011-0AH02 |
| Auxiliary switch ON/OFF AUX | 4 CO standard | 3VW9011-0AG01 |
| | 4 CO digital | 3VW9011-0AG02 |
| | 2 CO standard + 2 CO digital | 3VW9011-0AG03 |
| External auxiliary switch ON/OFF AUX | 15 CO standard | 3VW9011-0AG05 |
| | 15 CO digital | 3VW9011-0AG06 |
| Tripped signaling switch S24 | 1 CO standard | 3VW9011-0AH14 |
| | 1 CO digital | 3VW9011-0AH15 |
| Spring charged signaling switch S21 | 1 CO standard | 3VW9011-0AH10 |
| | 1 CO digital | 3VW9011-0AH08 |
| Position signaling switches PSS (only with draw-out versions) | 2 CO 2 CO 2 CO (connected test disconnected position) standard | 3VW9011-0AH11 |
| | 2 CO 2 CO 2 CO (connected test disconnected position) digital | 3VW9011-0AH12 |

Auxiliary / signaling switches for toggle operating mechanisms

☒ For molded case circuit breakers with stored energy operating mechanism

☒ For molded case circuit breakers with toggle operating mechanism

Auxiliary release, closing coil

3VA27



- Auxiliary and signaling switches are each offered in two versions:
 - Standard version for currents >100 mA and up to 400/250 V AC,
 - Minimum load above 100 mA at 24 V DC
 - Maximum breaking capacity 5 A at 250 V AC
 - Digital version for currents <100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and maximum breaking capacity of 100 mA at 24 V DC
- For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification.

| Description | Contacts | | Article No. |
|---|-------------------------|-----|---------------|
| Trip alarm switch TAS signals the trip position irrespective of the tripping reason | 1 CO standard | – ↗ | 3VW9727-0AB11 |
| | 1 CO digital | – ↗ | 3VW9727-0AB13 |
| Tripped signaling switch via auxiliary release S25 signals tripping operations via auxiliary releases (UVR, ST) in UVR/ST2 pocket | 1 CO standard | – ↗ | 3VW9727-0AB41 |
| | 1 CO digital | – ↗ | 3VW9727-0AB43 |
| Leading auxiliary switch S26 (2 units) | 1 NO standard, 250 V AC | – ↗ | 3VW9727-0AA21 |

Fixation for external auxiliary switches AUX 15 CO



- External auxiliary switches ON/OFF AUX 15 CO must be ordered separately.

| Version | | Article No. |
|--|------|---------------|
| For fixed-mounted breakers with rear panel or floor mounting (in combination with Z option S56 or S57) | WE ↗ | 3VW9011-0AG15 |
| For guide frames | WE ↗ | 3VW9011-0AG17 |

Undervoltage releases UVR



| Voltage | | Article No. |
|---------------------|------|---------------|
| 24 V AC/DC | WE ↗ | 3VW9011-0AE01 |
| 30 V AC/DC | WE ↗ | 3VW9011-0AE02 |
| 48 V AC/DC | WE ↗ | 3VW9011-0AE03 |
| 60 V AC/DC | WE ↗ | 3VW9011-0AE04 |
| 110 ... 120 V AC/DC | WE ↗ | 3VW9011-0AE05 |
| 120 ... 127 V AC/DC | WE ↗ | 3VW9011-0AE06 |
| 220 ... 240 V AC/DC | WE ↗ | 3VW9011-0AE07 |
| 240 ... 250 V AC/DC | WE ↗ | 3VW9011-0AE08 |
| 380 ... 400 V AC | WE ↗ | 3VW9011-0AE17 |
| 415 ... 440 V AC | WE ↗ | 3VW9011-0AE18 |

External time-delay devices for undervoltage releases



- With adjustable delay time from 0.5 to 3 s.
- Suitable for mounting onto DIN rail.











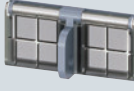








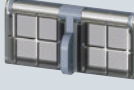



| Voltage | | Article No. |
|---------------------|------|---------------|
| 24 ... 30 V AC/DC | WE ↗ | 3VW9011-0AE10 |
| 48 V AC/DC | WE ↗ | 3VW9011-0AE11 |
| 60 V AC/DC | WE ↗ | 3VW9011-0AE15 |
| 110 ... 127 V AC/DC | WE ↗ | 3VW9011-0AE12 |
| 220 ... 250 V AC/DC | WE ↗ | 3VW9011-0AE13 |


Locking devices to prevent movement of the withdrawable circuit breakers


WE For molded case circuit breakers with stored energy operating mechanism

↗ For molded case circuit breakers with toggle operating mechanism

Locking devices and interlocks

| | | | 3VA27 | | |
|---|--|---|---|---------------|--|
| Version | | | Article No. | | |
|  | Ronis cylinder lock (replacement for R78) |   | 3VW9011-0BA80 | | |
| | Padlock 8 mm (replacement for R65), for no more than 3 padlocks |   | 3VW9011-0BA87 | | |
| Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position | | | | | |
|  | <ul style="list-style-type: none"> Only possible as a supplement in conjunction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87). | | | | |
| | Description | | | Article No. | |
| | Locking mechanism (replacement for R79) |   | 3VW9011-0BA84 | | |
| Locking devices in OFF position | | | | | |
|  | <ul style="list-style-type: none"> For fixed-mounted versions and withdrawable versions To prevent unauthorized activation in the operator panel (safe OFF) The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1. | | | | |
| | Description | | | Article No. | |
| | Cylinder lock, made by Ronis (replacement for S08) |  – | 3VW9011-0BA33 | | |
| Locking devices in OFF position | | | | | |
|  | <ul style="list-style-type: none"> For fixed-mounted versions and withdrawable versions To prevent unauthorized activation in the operator panel (safe OFF) The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1. | | | | |
| | Description | Version | Article No. | | |
| | Padlock 4 mm (replacement for S22) | Plastic for no more than 3 locks |  – | 3VW9011-0BA41 | |
| | Padlock 7 mm (replacement for S23) | Metal for no more than 1 lock |  – | 3VW9011-0BA42 | |
| | Padlock 8 mm (replacement for S07) | Metal for no more than 2 locks |  – | 3VW9011-0BA44 | |
| Locking devices in OFF position for toggle operating mechanisms with rotary operators | | | | | |
|  | <ul style="list-style-type: none"> To prevent unauthorized activation in the case of molded case circuit breakers with rotary operator | | | | |
| | Description | | | Article No. | |
| | For Ronis | –  | 3VW9727-0VL10 | | |
| Locking devices in OFF position for toggle operating mechanisms without rotary operators | | | | | |
|  | <ul style="list-style-type: none"> To prevent unauthorized activation in the operator panel in the case of molded case circuit breakers without rotary operator | | | | |
| | Description | | | Article No. | |
| | For padlocks | | –  | 3VW9727-0LB10 | |
| | For Ronis | –  | 3VW9727-0LF10 | | |
| Padlockable protective covers ON/OFF on the operator panels | | | | | |
|  | Description | Version | Article No. | | |
| | Padlock 4 mm (replacement for S42) | Plastic for no more than 3 locks |  – | 3VW9011-0BA22 | |
| | Padlock 7 mm (replacement for S43) | Metal for no more than 1 lock |  – | 3VW9011-0BA23 | |
| | Padlock 8 mm (replacement for S44) | Metal for no more than 2 locks |  – | 3VW9011-0BA24 | |
| Protective covers for mechanical ON/OFF | | | | | |

 For molded case circuit breakers with stored energy operating mechanism

 For molded case circuit breakers with toggle operating mechanism

Locking devices and interlocks

3VA27



- Mechanical ON/OFF to protect against unintentional actuation on the operator panel.
- Not lockable.

Description

Not lockable (replacement for S41)

Article No.

| Description | Fixing | Mounting | Version | Article No. |
|------------------------------------|--------|----------|---------|---------------|
| Not lockable (replacement for S41) | | | – | 3VW9011-0BA21 |

Mutual mechanical interlocking



- Mutual mechanical interlocking with Bowden cable 2 m

Fixing

Mounting

Article No.

| Fixing | Mounting | Version | Article No. |
|---------------|------------------------------|---------|---------------|
| Fixed-mounted | Rear panel or floor mounting | – | 3VW9011-0BB21 |
| Withdrawable | Mounting onto guide frame | – | 3VW9011-0BB22 |

Bowden cables, separate

- One required for each circuit breaker

Variant

Article No.

| Variant | Article No. |
|---------|--------------------|
| 1000 mm | 3VW9011-0BB23 |
| 2000 mm | 3WL9111-0BB45-0AA0 |
| 3000 mm | 3WL9111-0BB46-0AA0 |

Locking mechanisms to prevent opening of the control cabinet doors in ON position



- To prevent opening of the control cabinet door in ON position
- It additionally prevents the circuit breaker from being closed when the control cabinet door is open.

Fixing

Version

Article No.

| Fixing | Version | Article No. |
|---------------------------------------|---------------------------|---------------|
| Fixed mounting on side panel or floor | Direct fixed interlocking | 3VW9011-0BB10 |
| | Locking with Bowden cable | 3VW9011-0BB16 |
| Withdrawable | Direct fixed interlocking | 3VW9011-0BB14 |
| | Locking with Bowden cable | 3VW9011-0BB18 |

Door sealing frames IP30



- For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.

Description

Fixing

Version

Article No.

| Description | Fixing | Version | Article No. |
|------------------------------------|---------------|---------|---------------|
| Replacement part for Z option T30. | Fixed-mounted | IP3x | 3VW9011-0AP01 |
| | Withdrawable | IP3x | 3VW9011-0AP02 |
| | | – | 3VW9011-0AP04 |

Protective covers IP54



- Protective cover / hood IP54 lockable for fixed-mounted breakers and withdrawable breakers
- For implementing degrees of protection IP4x and IP54 when installing in switchboard door.
- Cannot be combined with IP30 door sealing frame and door mounted rotary operator.

Description

Version

Article No.

| Description | Version | Article No. |
|------------------------|---------|---------------|
| Lock with unique key | IP54 | 3VW9011-0AP03 |
| Lock with standard key | IP54 | 3VW9011-0AP13 |

– For molded case circuit breakers with stored energy operating mechanism

– For molded case circuit breakers with toggle operating mechanism

3VL up to 1600 A, IEC



3VL molded case circuit breaker



Product Discontinuation

The 3VL molded case circuit breaker up to 1600 A IEC will only be able to be ordered as a spare part from 10/2020, and will be removed from the order portfolio from 10/2025.

Documents available for downloading:

You can find comprehensive information on the 3VL molded case circuit breaker in the catalog extract.

3VL molded case circuit breaker ([109769073](#))



Protecting electrical installations from damage

The number of electrical loads is constantly increasing, which places an ever greater load on the electrical installation.

In the event of an overload or short-circuit, miniature circuit breakers safely cut off the connected circuit and reliably protect electrical installations and equipment from damage.

Miniature circuit breakers from the SENTRON portfolio are also simple to mount and install. The devices have a uniform design and, with the appropriate accessories, can be expanded by many additional functions.

For industry, buildings or infrastructure – with our versatile portfolio, you will find a suitable miniature circuit breaker for any application.

Miniature Circuit Breakers



| | |
|--|------|
| All the information you need | 3/2 |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about miniature circuit breakers, please visit our website
www.siemens.com/mcb
www.siemens.com/protection-concept

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technical basic information – SENTRON protection concept ([109767456](#))
- Technology primer – Miniature circuit breakers ([109482304](#))

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- Miniature circuit breakers (general)
bit.ly/2kJP2Dq

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Miniature circuit breakers sie.ag/2kTFX15

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAX Download Manager at

www.siemens.com/lowvoltage/cax

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Miniature circuit breakers (45302792)

Training and tutorials

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- Protection concept (WT-LVBPC)

Technical overview – Miniature circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on miniature circuit breakers

www.siemens.com/lowvoltage/product-support (109769082)

Devices for all applications

Miniature circuit breakers for basic applications



Ideal for standard applications

The 5SL miniature circuit breakers are the new standard with B and C tripping characteristics for applications up to 63 A. They can be used to disconnect or isolate equipment.

The 5SL devices are mainly installed in meter panels and small distribution boards to protect circuits for lamps, cookers and even machines, for example, in residential or commercial buildings.

Miniature circuit breakers for advanced applications



Ideal for industrial applications

For circuits with motors or large lamps, semiconductors or strong pulse-generating equipment such as transformers and solenoid valves - the 5SY and 5SP devices are optimized for industrial applications and are proven in use.

The 5SY devices offer you top quality and functionality for installation in complex buildings and industry. With a rated breaking capacity of up to 25 kA, they are able to handle the most challenging requirements at a rated current of 0.3 to 80 A.

Special features

- Dual-chamber terminals
- Simple to detach without tools using sliding catches
- Separate switching position indication
- A wide range of accessories

Device protection switches for advanced applications



Ideal for devices in industry

Device protection switches from Siemens offer optimum protection for all applications in AC and DC control circuits in industrial applications and plant engineering.

Electronic device protection switches are optimally suited to protecting, for example, relays, programmable controllers, motors, sensors, actuators and valves. A current analysis in conjunction with fast tripping in the event of a fault avoid the danger of overloading the switched-mode power supply.

Thermomagnetic device protection switches are used to protect solenoid valves, servo motors, signal lamps or even PLC inputs. Everywhere where loads have to be precisely protected from overloads and short-circuits.

System overview

Basic units and accessories

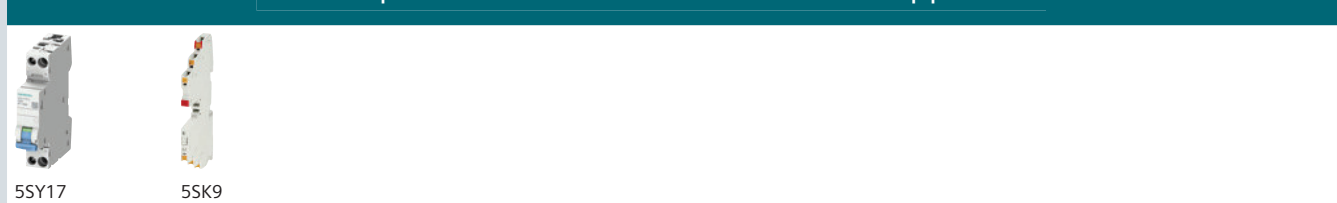
Miniature circuit breakers for basic applications



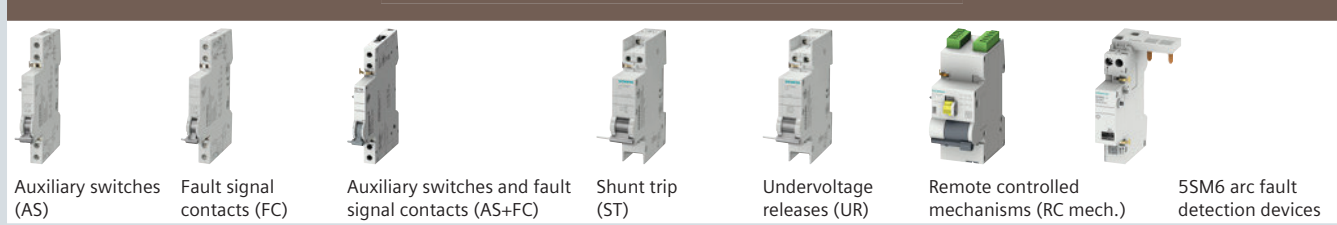
Miniature circuit breakers for advanced applications



Device protection switches for advanced applications



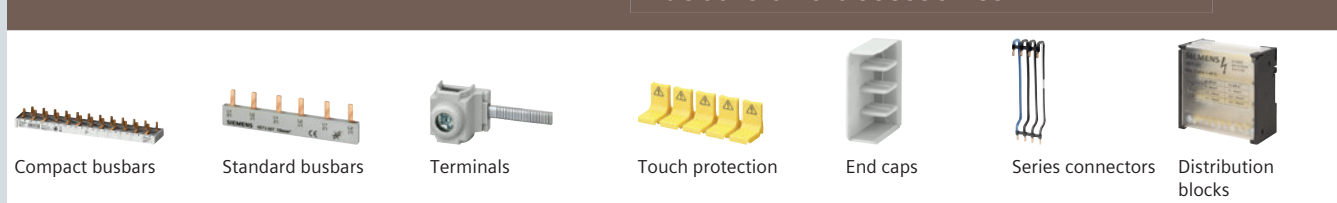
Electrical accessories



Mechanical accessories



Busbars and accessories



Note:
You will find a detailed range of accessories with the basic units and in the Accessories section.

Miniature circuit breakers

For basic applications for buildings and infrastructure



5SL3



5SL6

| Standards | | IEC/EN 60898-1 | IEC/EN 60898-1 |
|---|---|---------------------------------|---------------------------------|
| Standards | | IEC/EN 60898-1 | IEC/EN 60898-1 |
| Basic data | | | |
| Breaking capacity I_{cn} for AC (230/400 V) acc. to IEC/EN 60898-1 AC | kA | 4.5 | 6 |
| Rated current | A | 0.3 ... 63 | 0.3 ... 63 |
| Number of poles | | 1P 2P 3P 4P 1P+N 3P+N | 1P 2P 3P 4P 1P+N 3P+N |
| Tripping characteristic | | B C | B C |
| Approvals | | | |
| General product approvals | | VDE, CEBC, TSE | VDE, CEBC, TSE |
| Marine classifications | | – | – |
| Operational voltage | | | |
| Max. AC, acc. to EN 60898-1/-2, EN 60947-2 | V | 250/440 | 250/440 |
| Max. DC per pole, acc. to EN 60898-1/-2, EN 60947-2 | V | 60 | 60 |
| Max. AC, acc. to UL 1077, CSA C22.2 No.235 | V | – | – |
| Rated voltage AC, acc. to UL 489 | V | – | – |
| Rated impulse withstand voltage U_{imp} | kV | 4 | 4 |
| Rated frequency f_n | Hz | 50/60 | 50/60 |
| Connection | | | |
| Dual-chamber terminal | | – | – |
| Conductor cross-section 1 wire | Solid/stranded | mm ² | 0.75 ... 35 |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 25 |
| | Finely stranded without end sleeve | mm ² | 1 ... 35 |
| Conductor cross-section 2 wires (same cross-section and same conductor type) | Solid/stranded | mm ² | 0.75 ... 10 |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 4 |
| | Finely stranded without end sleeve | mm ² | 1 ... 4 |
| Conductor cross-section 1-wire + busbar (pin thickness 1.5 mm) | Solid/stranded | mm ² | 10 ... 25 |
| | Finely stranded with non-insulated end sleeve | mm ² | 6 ... 25 |
| | Finely stranded with insulated end sleeve | mm ² | 6 ... 16 |
| Ambient conditions | | | |
| Ambient temperature | °C | –25 ... +45 ¹⁾ | –25 ... +45 ¹⁾ |
| Storage temperature | °C | –40 ... +75 ³⁾ | –40 ... +75 ³⁾ |
| Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms half-sine | | – | – |
| Resistance to vibrations acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s) | | – | – |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering) | | – | – |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles) | | – | – |
| Pollution degree for overvoltage category | | 2/III | 2/III |
| More information | | | |
| Catalog LV 10 | | See page 3/12 | See page 3/14 |

¹⁾ Periodically +55 °C, max. 95% humidity

²⁾ Max. 95% humidity

³⁾ 95% humidity up to 55 °C

**5SL4****5SJ6...-KS****5SL30****5SL60****5SP3**

IEC/EN 60898-1

IEC/EN 60898-1

IEC/EN 60898-1

IEC/EN 60898-1

DIN VDE 0641-21

10

6

4.5

6

–

0.3 ... 63

10 ... 20

2 ... 40

2 ... 40

16 ... 100

1P | 2P | 3P | 4P | 1P+N | 3P+N

1P | 2P | 3P | 1P+N

1P+N

1P+N

1P | 2P | 3P | 4P

B | C | D

B | C

C

B | C

E

VDE, CEBC, IMQ

VDE

VDE, IMQ, NF, CCC

VDE, IMQ, NF, CCC

VDE

–

–

–

DNV-GL

–

250/440

250/440

250

250

–

60

60

72

72

–

–

–

–

–

–

–

–

–

–

–

4

4

4

4

4

50/60

50/60

50/60

50/60

50/60

–

Plug-in terminal on outgoing side

–

–

–

0.75 ... 35

1.5 ... 4 (top) | 0.75 ... 25 (bottom)

0.75 ... 16

0.75 ... 16

2.5 ... 50 (bottom)

0.75 ... 25

1.5 ... 2.5 (top) | 0.75 ... 25 (bottom)

0.75 ... 10

0.75 ... 10

2.5 ... 50 (bottom)

1 ... 35

1.5 ... 4

2.5 ... 16 (top)

0.75 ... 10

–

–

–

–

0.75 ... 4

–

–

–

–

1 ... 4

–

–

–

–

10 ... 25

–

–

–

–

6 ... 25

–

–

–

–

6 ... 16

–

–

–

–

–25 ... +55²⁾–25 ... +45¹⁾–25 ... +45¹⁾–25 ... +45¹⁾

–25 ... +55

–40 ... +75³⁾–40 ... +75³⁾

–40 ... +75

–40 ... +75

–40 ... +70

–

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Miniature circuit breakers

For advanced applications for buildings and infrastructure and for industry and machine manufacturing



5SY6

5SY4

| Standards | | | 5SY6 | 5SY4 |
|---|---|-------------------|---|---|
| Standards | | | IEC/EN 60898-1 IEC/EN 60947-2 UL 1077 | IEC/EN 60898-1 IEC/EN 60947-2 UL 1077 |
| Basic data | | | | |
| Breaking capacity I_{cn} | For AC (230/400 V) acc. to IEC/EN 60898-1 AC Acc. to UL1077 and CSA C22.2 No.235 | kA | 6 | 10 |
| | | SC | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C U2: see Certificate of Compliance | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C U2: see Certificate of Compliance |
| Rated breaking capacity I_{cu} acc. to IEC/EN 60947-2 at U_e 230 V at U_e 400 V (1P, 1P+N) (2P, 3P, 4P, 3P+N) | | I_n 0.3 ... 2 A | 30 30 | 35 35 |
| | | I_n 3 ... 6 A | 30 30 | 35 35 |
| | | I_n 8 ... 10 A | 15 15 | 20 20 |
| | | I_n 13 ... 32 A | 15 15 | 20 20 |
| | | I_n 40 A | 10 10 | 15 15 |
| | | I_n 50 ... 63 A | 10 10 | 15 15 |
| | I_n 80 ... 125 A | kA | – – | 10 10 |
| Rated current | | A | 0.3 ... 63 | 0.3 ... 80 |
| Number of poles | | | 1P 2P 3P 4P 1P+N 3P+N | 1P 2P 3P 4P 1P+N 3P+N |
| Tripping characteristic | | | B C | A B C D |
| Approvals | | | | |
| General product approvals | | | VDE, IMQ, CCC,  | VDE, IMQ, CCC,  |
| Marine classifications | | | DNV-GL, LR, BV, RINA, ABS | DNV-GL, LR, BV, RINA, ABS |
| Operational voltage | | | | |
| Max. AC | Acc. to EN 60898-1/-2, EN 60947-2 | V | 250/440 | 250/440 |
| | Acc. to UL 1077, CSA C22.2 No.235 | V | 277/480 | 277/480 |
| Max. DC per pole | Acc. to EN 60898-1/-2, EN 60947-2 | V | 72 ¹⁾ | 72 ¹⁾ |
| Rated voltage AC | Acc. to UL 489 | V | – | – |
| Rated impulse withstand voltage U_{imp} | | kV | 4 | 4 |
| Rated frequency f_n | | Hz | 50/60 | 50/60 |
| Connection | | | | |
| Dual-chamber terminal | | | ■ | ■ |
| Conductor cross-section 1 wire | Solid/stranded | mm ² | 0.75 ... 35 | 0.75 ... 35 |
| | Finely stranded, with end sleeve Conductors (Cu 60/75 °C I_n ≤40 A; 60 °C I_n >40 A) | mm ² | 0.75 ... 25 AWG 18 ... 4 | 0.75 ... 25 AWG 18 ... 4 |
| Terminal tightening torque | | Nm | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. |
| | | lb-in | 22 ... 26 | 22 ... 26 |
| Ambient conditions | | | | |
| Ambient temperature | | °C | –25 ... +55 ⁴⁾ | –40 ... +70 ³⁾ |
| Storage temperature | | °C | –40 ... +75 ³⁾ | –40 ... +75 ³⁾ |
| Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms half-sine | | | ■ | ■ |
| Resistance to vibrations acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s) | | | ■ | ■ |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering) | | | – | ■ |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles) | | | – | ■ |
| Pollution degree for overvoltage category | | | 3/III | 3/III ²⁾ |
| More information | | | | |
| Catalog LV 10 | | | See page 3/24 | See page 3/26 |

¹⁾ Exempt: C/D 0.3 A ... 0.5 A






²⁾ 5SY54.. 4-pole, degree of pollution 2 for overvoltage category II

³⁾ 95% humidity up to 55 °C
95% rel. humidity up to +55 °C
55% rel. humidity up to +70 °C

⁴⁾ Max. 95% humidity

⁵⁾ When used with a busbar at the front or 2 conductors, the terminal area at the rear is restricted, see notes on the Internet

**5SP4****5SY5****5SY7****5SY8****5SJ4..HG..**


| IEC/EN 60898-1 UL 1077 | IEC/EN 60898-2 UL 1077 | IEC/EN 60898-1 IEC/EN 60947-2 UL 1077 | IEC/EN 60947-2 UL 1077 | IEC/EN 60947-2 UL 489 |
|--|---|--|--|---|
| 10 | 10 | 15 | 25 | – |
| Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | – |
| U2: see Certificate of Compliance | U2: see Certificate of Compliance | U2: see Certificate of Compliance | U2: see Certificate of Compliance | – |
| – – | – – | 50 50 | 70 70 | 10 |
| – – | – – | 40 40 | 50 50 | 10 |
| – – | – – | 30 30 | 40 40 | 10 |
| – – | – – | 25 25 | 30 30 | 10 |
| – – | – – | 20 20 | 25 25 | 10 |
| – – | – – | 15 15 | 20 20 | 10 |
| 10 10 | – – | – – | – – | – |
| 80 ... 125 | 0.3 ... 63 | 0.3 ... 63 | 0.3 ... 63 | 0.3 ... 63 |
| 1P 2P 3P 4P | 1P 2P 4P | 1P 2P 3P 4P 1P+N 3P+N | 1P 2P 3P 4P 1P+N 3P+N | 1P 2P 3P |
| B C D | B C | B C D | C D | B C D |
| VDE, CCC,  LR | VDE, CCC,  ABS | VDE, IMQ, CCC,  DNV-GL, LR, BV, RINA, ABS |  ABS | VDE, CCC,  – |
| 250/440 | 250/440 | 250/440 | 250/440 | 250/440 |
| 277/480 | – | 277/480 | 277/480 | – |
| 72 | 250 | 72 ¹⁾ | 72 ¹⁾ | 60 |
| – | – | – | – | 277/480 |
| 4 | 4 | 4 | 4 | 4 |
| 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| – | ■ | ■ | ■ | ■ |
| 10 ... 50 | 0.75 ... 35 | 0.75 ... 35 | 0.75 ... 35 | 0.75 ... 25 (16) ⁵⁾ |
| 10 ... 35 | 0.75 ... 25 | 0.75 ... 25 | 0.75 ... 25 | 0.75 ... 25 (10) |
| AWG 3 ... 1 | AWG 18 ... 4 | AWG 18 ... 4 | AWG 18 ... 4 | AWG 18 ... 4 (5) |
| 2.5 ... 3.5 max. | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. |
| 22 ... 31 | 22 ... 26 | 22 ... 26 | 22 ... 26 | 22 ... 26 |
| –25 ... +55 ⁴⁾ | –40 ... +70 ³⁾ | –40 ... +70 ³⁾ | –25 ... +55 ⁴⁾ | –25 ... +55 ⁴⁾ |
| –40 ... +75 ³⁾ | –40 ... +75 ³⁾ | –40 ... +75 ³⁾ | –40 ... +75 ³⁾ | –40 ... +75 ³⁾ |
| – | ■ | ■ | – | ■ |
| ■ | ■ | ■ | ■ | ■ |
| – | ■ | ■ | – | – |
| ■ | ■ | ■ | – | – |
| 3/III | 3/III | 3/III | 3/III | 3/III |
| See page 3/28 | See page 3/30 | See page 3/32 | See page 3/34 | See page 3/36 |

Device protection switches

For advanced applications for industry and machine manufacturing



5SY17

| Standards | | | |
|--|---|-----------------|--|
| Standards | | | IEC 60934 UL 1077 |
| Basic data | | | |
| Breaking capacity I_{cn} | for AC (230/400 V) acc. to IEC/EN 60898-1 AC | kA | 3 |
| Rated current | | A | 0.5 ... 16 |
| Number of poles | | | 1P+AS |
| DC tripping | Magnetic | | F1 (2.5 ... 4 × I_n) F2 (4 ... 7 × I_n) |
| | Thermal | | 1.05 × holding current 1.35 × tripping current TC3 1.35 × I_n |
| | Electronic | | – |
| Service life | Actuations | | 6000 |
| Approvals | | | |
| General product approvals | | | CCC,  |
| Operational voltage | | | |
| Max. AC | Acc. to EN 60898-1/-2, EN 60947-2 | V | 250 |
| | Acc. to UL 1077, CSA C22.2 No.235 | V | 277 |
| Max. DC per pole | | V | 72 |
| Rated impulse withstand voltage U_{imp} | | kV | 4 |
| Rated frequency f_n | | Hz | 50/60 |
| Connection | | | |
| Dual-chamber terminal | | | – |
| Conductor cross-section 1 wire | Solid/stranded | mm ² | 0.75 ... 16 |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 10 |
| | Finely stranded with insulated end sleeve | mm ² | 0.75 ... 10 |
| | Finely stranded without end sleeve | mm ² | 0.75 ... 16 |
| | Conductor cross-section AWG | | – |
| 2-wire (same cross-section) | Solid/stranded | mm ² | 0.75 ... 4 |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 2.5 |
| | Finely stranded with insulated end sleeve | mm ² | 0.75 ... 1.5 |
| | Finely stranded without end sleeve | mm ² | 0.75 ... 4 |
| Terminal tightening torque | | Nm | 2.0 ... 2.5 max. |
| | | lb-in | 17.7 ... 22.1 |
| Ambient conditions | | | |
| Ambient temperature | | °C | –25 ... +60 |
| Storage temperature | | °C | –40 ... +70 |
| Shock acc. to IEC 60068-2-27 | 150 m/s ² at 11 ms half-sine | | – |
| Resistance to vibrations acc. to IEC 60068-2-6 | 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s) | | – |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" | (railway engineering) | | – |
| Fire behavior of materials acc. to EN 45545-2 | (fire protection on railway vehicles) | | – |
| Pollution degree for overvoltage category | Acc. to IEC | | 2/III |
| More information | | | |
| Catalog LV 10 | | | See page 3/40 |

¹⁾ Max. 95% humidity



5SK9

EN 61000-6-2, EN 61000-6-3, EN 60068-2-78,
EN 50178, EN 60068-2-6, EN 60068-2-27,
UL 508, UL 2367

–

1 ... 8

1P+AS

–

–

Overload $1.2 \times I_n / 1s$ | Short-circuit $2 \times I_n / <10 ms$

–



–

–

30

0.5

–

–

0.2 ... 4

0.2 ... 2.5

0.2 ... 2.5

–

AWG 24 ... 12

–

–

–

–

–

–

–25 ... +60 ¹⁾

–40 ... +70

–

–

–

–

–

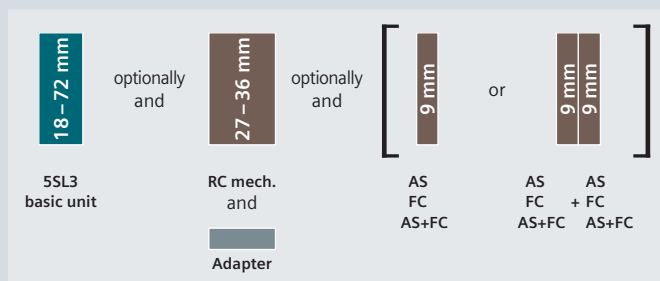
See page 3/41

5SL3 miniature circuit breakers

4.5 kA

| Mounting width | 1P 230/400 V AC | 1P+N 230 V AC | 2P 400 V AC | 3P 400 V AC | | | | |
|------------------------------|--------------------|------------------|----------------|----------------|----------------|-----------|----------------|-----------|
| | 1 MW | 2 MW | 2 MW | 3 MW | | | | |
| | | | | | | | | |
| Rated current I _n | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 0.3 A | – | 5SL3114-7 | – | 5SL3514-7 | – | 5SL3214-7 | – | – |
| 0.5 A | – | 5SL3105-7 | – | 5SL3505-7 | – | 5SL3205-7 | – | – |
| 1 A | – | 5SL3101-7 | – | 5SL3501-7 | – | 5SL3201-7 | – | 5SL3301-7 |
| 1.6 A | – | 5SL3115-7 | – | 5SL3515-7 | – | 5SL3215-7 | – | – |
| 2 A | – | 5SL3102-7 | – | 5SL3502-7 | – | 5SL3202-7 | – | 5SL3302-7 |
| 3 A | – | 5SL3103-7 | – | 5SL3503-7 | – | 5SL3203-7 | – | 5SL3303-7 |
| 4 A | – | 5SL3104-7 | – | 5SL3504-7 | – | 5SL3204-7 | – | 5SL3304-7 |
| 6 A | 5SL3106-6 | 5SL3106-7 | 5SL3506-6 | 5SL3506-7 | 5SL3206-6 | 5SL3206-7 | 5SL3306-6 | 5SL3306-7 |
| 8 A | – | 5SL3108-7 | – | 5SL3508-7 | – | 5SL3208-7 | – | – |
| 10 A | 5SL3110-6 | 5SL3110-7 | 5SL3510-6 | 5SL3510-7 | 5SL3210-6 | 5SL3210-7 | 5SL3310-6 | 5SL3310-7 |
| 13 A | 5SL3113-6 | 5SL3113-7 | 5SL3513-6 | 5SL3513-7 | 5SL3213-6 | 5SL3213-7 | – | – |
| 16 A | 5SL3116-6 | 5SL3116-7 | 5SL3516-6 | 5SL3516-7 | 5SL3216-6 | 5SL3216-7 | 5SL3316-6 | 5SL3316-7 |
| 20 A | 5SL3120-6 | 5SL3120-7 | 5SL3520-6 | 5SL3520-7 | 5SL3220-6 | 5SL3220-7 | 5SL3320-6 | 5SL3320-7 |
| 25 A | 5SL3125-6 | 5SL3125-7 | 5SL3525-6 | 5SL3525-7 | 5SL3225-6 | 5SL3225-7 | 5SL3325-6 | 5SL3325-7 |
| 32 A | 5SL3132-6 | 5SL3132-7 | 5SL3532-6 | 5SL3532-7 | 5SL3232-6 | 5SL3232-7 | 5SL3332-6 | 5SL3332-7 |
| 40 A | 5SL3140-6 | 5SL3140-7 | 5SL3540-6 | 5SL3540-7 | 5SL3240-6 | 5SL3240-7 | 5SL3340-6 | 5SL3340-7 |
| 50 A | 5SL3150-6 | 5SL3150-7 | 5SL3550-6 | 5SL3550-7 | 5SL3250-6 | 5SL3250-7 | 5SL3350-6 | 5SL3350-7 |
| 63 A | 5SL3163-6 | 5SL3163-7 | 5SL3563-6 | 5SL3563-7 | 5SL3263-6 | 5SL3263-7 | 5SL3363-6 | 5SL3363-7 |

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

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[See page 3/47](#)
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3

| 3P+N 400 V AC 4 MW | | 4P 400 V AC 4 MW | |
|--------------------------|-----------|------------------------|-----------|
| | | | |
| Characteristic | | Characteristic | |
| B | C | B | C |
| – | – | – | – |
| – | – | – | – |
| – | 5SL3601-7 | – | 5SL3401-7 |
| – | – | – | – |
| – | 5SL3602-7 | – | 5SL3402-7 |
| – | 5SL3603-7 | – | 5SL3403-7 |
| – | 5SL3604-7 | – | 5SL3404-7 |
| 5SL3606-6 | 5SL3606-7 | – | 5SL3406-7 |
| – | 5SL3608-7 | – | – |
| 5SL3610-6 | 5SL3610-7 | – | 5SL3410-7 |
| 5SL3613-6 | 5SL3613-7 | – | 5SL3413-7 |
| 5SL3616-6 | 5SL3616-7 | – | 5SL3416-7 |
| 5SL3620-6 | 5SL3620-7 | – | 5SL3420-7 |
| 5SL3625-6 | 5SL3625-7 | – | 5SL3425-7 |
| 5SL3632-6 | 5SL3632-7 | – | 5SL3432-7 |
| 5SL3640-6 | 5SL3640-7 | – | 5SL3440-7 |
| 5SL3650-6 | 5SL3650-7 | – | 5SL3450-7 |
| 5SL3663-6 | 5SL3663-7 | – | 5SL3463-7 |


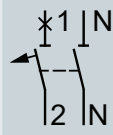
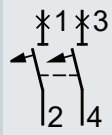
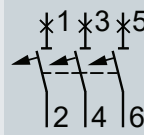
Accessories

| Auxiliary switches (AS) | | Article No. |
|----------------------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |

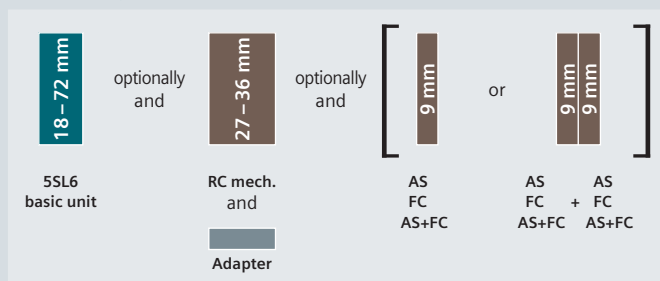
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
|--|--------------------------------|-------------|
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| Remote controlled mechanisms (RC mech.) | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 1–2 MW | | 5ST3820-6 |
| 3–4 MW | | 5ST3820-7 |

5SL6 miniature circuit breakers

6 kA

| Mounting width | 1P 230/400 V AC | 1P+N 230 V AC | 2P 400 V AC | 3P 400 V AC | | | | |
|------------------------------|---|---|--|---|----------------|-----------|----------------|-----------|
| | 1 MW  | 2 MW  | 2 MW  | 3 MW  | | | | |
| Rated current I _n | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 0.3 A | – | 5SL6114-7 | – | 5SL6514-7 | – | 5SL6214-7 | – | 5SL6314-7 |
| 0.5 A | – | 5SL6105-7 | – | 5SL6505-7 | – | 5SL6205-7 | – | 5SL6305-7 |
| 1 A | – | 5SL6101-7 | – | 5SL6501-7 | – | 5SL6201-7 | – | 5SL6301-7 |
| 1.6 A | – | 5SL6115-7 | – | 5SL6515-7 | – | 5SL6215-7 | – | 5SL6315-7 |
| 2 A | 5SL6102-6 | 5SL6102-7 | – | 5SL6502-7 | – | 5SL6202-7 | – | 5SL6302-7 |
| 3 A | – | 5SL6103-7 | – | 5SL6503-7 | – | 5SL6203-7 | – | 5SL6303-7 |
| 4 A | 5SL6104-6 | 5SL6104-7 | – | 5SL6504-7 | – | 5SL6204-7 | – | 5SL6304-7 |
| 6 A | 5SL6106-6 | 5SL6106-7 | 5SL6506-6 | 5SL6506-7 | 5SL6206-6 | 5SL6206-7 | 5SL6306-6 | 5SL6306-7 |
| 8 A | – | 5SL6108-7 | – | 5SL6508-7 | – | 5SL6208-7 | – | 5SL6308-7 |
| 10 A | 5SL6110-6 | 5SL6110-7 | 5SL6510-6 | 5SL6510-7 | 5SL6210-6 | 5SL6210-7 | 5SL6310-6 | 5SL6310-7 |
| 13 A | 5SL6113-6 | 5SL6113-7 | 5SL6513-6 | 5SL6513-7 | 5SL6213-6 | 5SL6213-7 | 5SL6313-6 | 5SL6313-7 |
| 16 A | 5SL6116-6 | 5SL6116-7 | 5SL6516-6 | 5SL6516-7 | 5SL6216-6 | 5SL6216-7 | 5SL6316-6 | 5SL6316-7 |
| 20 A | 5SL6120-6 | 5SL6120-7 | 5SL6520-6 | 5SL6520-7 | 5SL6220-6 | 5SL6220-7 | 5SL6320-6 | 5SL6320-7 |
| 25 A | 5SL6125-6 | 5SL6125-7 | 5SL6525-6 | 5SL6525-7 | 5SL6225-6 | 5SL6225-7 | 5SL6325-6 | 5SL6325-7 |
| 32 A | 5SL6132-6 | 5SL6132-7 | 5SL6532-6 | 5SL6532-7 | 5SL6232-6 | 5SL6232-7 | 5SL6332-6 | 5SL6332-7 |
| 40 A | 5SL6140-6 | 5SL6140-7 | 5SL6540-6 | 5SL6540-7 | 5SL6240-6 | 5SL6240-7 | 5SL6340-6 | 5SL6340-7 |
| 50 A | 5SL6150-6 | 5SL6150-7 | 5SL6550-6 | 5SL6550-7 | 5SL6250-6 | 5SL6250-7 | 5SL6350-6 | 5SL6350-7 |
| 63 A | 5SL6163-6 | 5SL6163-7 | 5SL6563-6 | 5SL6563-7 | 5SL6263-6 | 5SL6263-7 | 5SL6363-6 | 5SL6363-7 |

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

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[See page 3/47](#)
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| 3P+N 400 V AC 4 MW | | 4P 400 V AC 4 MW | |
|--------------------------|-----------|------------------------|-----------|
| | | | |
| Characteristic | | Characteristic | |
| B | C | B | C |
| – | 5SL6614-7 | – | 5SL6414-7 |
| – | 5SL6605-7 | – | 5SL6405-7 |
| – | 5SL6601-7 | – | 5SL6401-7 |
| – | 5SL6615-7 | – | 5SL6415-7 |
| – | 5SL6602-7 | – | 5SL6402-7 |
| – | 5SL6603-7 | – | 5SL6403-7 |
| – | 5SL6604-7 | – | 5SL6404-7 |
| 5SL6606-6 | 5SL6606-7 | 5SL6406-6 | 5SL6406-7 |
| – | 5SL6608-7 | – | 5SL6408-7 |
| 5SL6610-6 | 5SL6610-7 | 5SL6410-6 | 5SL6410-7 |
| 5SL6613-6 | 5SL6613-7 | 5SL6413-6 | 5SL6413-7 |
| 5SL6616-6 | 5SL6616-7 | 5SL6416-6 | 5SL6416-7 |
| 5SL6620-6 | 5SL6620-7 | 5SL6420-6 | 5SL6420-7 |
| 5SL6625-6 | 5SL6625-7 | 5SL6425-6 | 5SL6425-7 |
| 5SL6632-6 | 5SL6632-7 | 5SL6432-6 | 5SL6432-7 |
| 5SL6640-6 | 5SL6640-7 | 5SL6440-6 | 5SL6440-7 |
| 5SL6650-6 | 5SL6650-7 | 5SL6450-6 | 5SL6450-7 |
| 5SL6663-6 | 5SL6663-7 | 5SL6463-6 | 5SL6463-7 |

3

Accessories

| Auxiliary switches (AS) | | Article No. |
|----------------------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |

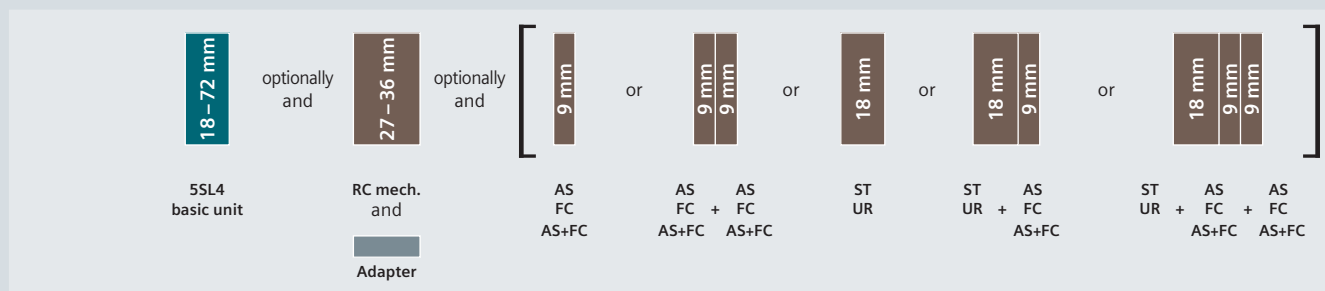
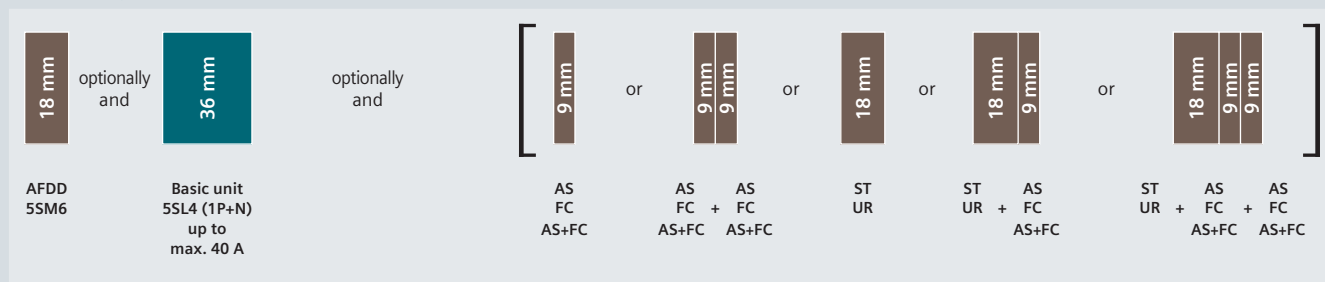
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
|--|--------------------------------|-------------|
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| Remote controlled mechanisms (RC mech.) | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 1–2 MW | | 5ST3820-6 |
| 3–4 MW | | 5ST3820-7 |

5SL4 miniature circuit breakers

10 kA

| Mounting width | 1P 230/400 V AC | | | 1P+N 230 V AC | | | 2P 400 V AC | | |
|------------------------|--------------------|-----------|-----------|------------------|-----------|-----------|----------------|-----------|-----------|
| | 1 MW | | | 2 MW | | | 2 MW | | |
| | | | | | | | | | |
| Rated current I_n | Characteristic | | | Characteristic | | | Characteristic | | |
| | B | C | D | B | C | D | B | C | D |
| 0.3 A | – | 5SL4114-7 | 5SL4114-8 | – | 5SL4514-7 | 5SL4514-8 | – | 5SL4214-7 | 5SL4214-8 |
| 0.5 A | – | 5SL4105-7 | 5SL4105-8 | – | 5SL4505-7 | 5SL4505-8 | – | 5SL4205-7 | 5SL4205-8 |
| 1 A | 5SL4101-6 | 5SL4101-7 | 5SL4101-8 | 5SL4501-6 | 5SL4501-7 | 5SL4501-8 | 5SL4201-6 | 5SL4201-7 | 5SL4201-8 |
| 1.6 A | – | 5SL4115-7 | 5SL4115-8 | – | 5SL4515-7 | 5SL4515-8 | – | 5SL4215-7 | 5SL4215-8 |
| 2 A | 5SL4102-6 | 5SL4102-7 | 5SL4102-8 | 5SL4502-6 | 5SL4502-7 | 5SL4502-8 | 5SL4202-6 | 5SL4202-7 | 5SL4202-8 |
| 3 A | 5SL4103-6 | 5SL4103-7 | 5SL4103-8 | 5SL4503-6 | 5SL4503-7 | 5SL4503-8 | 5SL4203-6 | 5SL4203-7 | 5SL4203-8 |
| 4 A | 5SL4104-6 | 5SL4104-7 | 5SL4104-8 | 5SL4504-6 | 5SL4504-7 | 5SL4504-8 | 5SL4204-6 | 5SL4204-7 | 5SL4204-8 |
| 6 A | 5SL4106-6 | 5SL4106-7 | 5SL4106-8 | 5SL4506-6 | 5SL4506-7 | 5SL4506-8 | 5SL4206-6 | 5SL4206-7 | 5SL4206-8 |
| 8 A | 5SL4108-6 | 5SL4108-7 | 5SL4108-8 | 5SL4508-6 | 5SL4508-7 | 5SL4508-8 | 5SL4208-6 | 5SL4208-7 | 5SL4208-8 |
| 10 A | 5SL4110-6 | 5SL4110-7 | 5SL4110-8 | 5SL4510-6 | 5SL4510-7 | 5SL4510-8 | 5SL4210-6 | 5SL4210-7 | 5SL4210-8 |
| 13 A | 5SL4113-6 | 5SL4113-7 | 5SL4113-8 | 5SL4513-6 | 5SL4513-7 | 5SL4513-8 | 5SL4213-6 | 5SL4213-7 | 5SL4213-8 |
| 16 A | 5SL4116-6 | 5SL4116-7 | 5SL4116-8 | 5SL4516-6 | 5SL4516-7 | 5SL4516-8 | 5SL4216-6 | 5SL4216-7 | 5SL4216-8 |
| 20 A | 5SL4120-6 | 5SL4120-7 | 5SL4120-8 | 5SL4520-6 | 5SL4520-7 | 5SL4520-8 | 5SL4220-6 | 5SL4220-7 | 5SL4220-8 |
| 25 A | 5SL4125-6 | 5SL4125-7 | 5SL4125-8 | 5SL4525-6 | 5SL4525-7 | 5SL4525-8 | 5SL4225-6 | 5SL4225-7 | 5SL4225-8 |
| 32 A | 5SL4132-6 | 5SL4132-7 | 5SL4132-8 | 5SL4532-6 | 5SL4532-7 | 5SL4532-8 | 5SL4232-6 | 5SL4232-7 | 5SL4232-8 |
| 40 A | 5SL4140-6 | 5SL4140-7 | 5SL4140-8 | 5SL4540-6 | 5SL4540-7 | 5SL4540-8 | 5SL4240-6 | 5SL4240-7 | 5SL4240-8 |
| 50 A | 5SL4150-6 | 5SL4150-7 | 5SL4150-8 | 5SL4550-6 | 5SL4550-7 | 5SL4550-8 | 5SL4250-6 | 5SL4250-7 | 5SL4250-8 |
| 63 A | 5SL4163-6 | 5SL4163-7 | 5SL4163-8 | 5SL4563-6 | 5SL4563-7 | 5SL4563-8 | 5SL4263-6 | 5SL4263-7 | 5SL4263-8 |

Mounting concept



AFDD Arc fault detection devices [See page 3/51](#)
 AS Auxiliary switches [See page 3/44](#)
 FC Fault signal contacts [See page 3/46](#)

AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#)
 ST Shunt trip [See page 3/48](#)

UR Undervoltage releases [See page 3/49](#)
 RC mech. Remote controlled mechanisms [See page 3/50](#)



| 3P 400 V AC 3 MW | | | 3P+N 400 V AC 4 MW | | | 4P 400 V AC 4 MW | | |
|------------------------|-----------|-----------|--------------------------|-----------|-----------|------------------------|-----------|-----------|
| | | | | | | | | |
| Characteristic | | | Characteristic | | | Characteristic | | |
| B | C | D | B | C | D | B | C | D |
| – | 5SL4314-7 | 5SL4314-8 | – | 5SL4614-7 | 5SL4614-8 | – | 5SL4414-7 | 5SL4414-8 |
| – | 5SL4305-7 | 5SL4305-8 | – | 5SL4605-7 | 5SL4605-8 | – | 5SL4405-7 | 5SL4405-8 |
| 5SL4301-6 | 5SL4301-7 | 5SL4301-8 | 5SL4601-6 | 5SL4601-7 | 5SL4601-8 | 5SL4401-6 | 5SL4401-7 | 5SL4401-8 |
| – | 5SL4315-7 | 5SL4315-8 | – | 5SL4615-7 | 5SL4615-8 | – | 5SL4415-7 | 5SL4415-8 |
| 5SL4302-6 | 5SL4302-7 | 5SL4302-8 | 5SL4602-6 | 5SL4602-7 | 5SL4602-8 | 5SL4402-6 | 5SL4402-7 | 5SL4402-8 |
| 5SL4303-6 | 5SL4303-7 | 5SL4303-8 | 5SL4603-6 | 5SL4603-7 | 5SL4603-8 | 5SL4403-6 | 5SL4403-7 | 5SL4403-8 |
| 5SL4304-6 | 5SL4304-7 | 5SL4304-8 | 5SL4604-6 | 5SL4604-7 | 5SL4604-8 | 5SL4404-6 | 5SL4404-7 | 5SL4404-8 |
| 5SL4306-6 | 5SL4306-7 | 5SL4306-8 | 5SL4606-6 | 5SL4606-7 | 5SL4606-8 | 5SL4406-6 | 5SL4406-7 | 5SL4406-8 |
| 5SL4308-6 | 5SL4308-7 | 5SL4308-8 | 5SL4608-6 | 5SL4608-7 | 5SL4608-8 | 5SL4408-6 | 5SL4408-7 | 5SL4408-8 |
| 5SL4310-6 | 5SL4310-7 | 5SL4310-8 | 5SL4610-6 | 5SL4610-7 | 5SL4610-8 | 5SL4410-6 | 5SL4410-7 | 5SL4410-8 |
| 5SL4313-6 | 5SL4313-7 | 5SL4313-8 | 5SL4613-6 | 5SL4613-7 | 5SL4613-8 | 5SL4413-6 | 5SL4413-7 | 5SL4413-8 |
| 5SL4316-6 | 5SL4316-7 | 5SL4316-8 | 5SL4616-6 | 5SL4616-7 | 5SL4616-8 | 5SL4416-6 | 5SL4416-7 | 5SL4416-8 |
| 5SL4320-6 | 5SL4320-7 | 5SL4320-8 | 5SL4620-6 | 5SL4620-7 | 5SL4620-8 | 5SL4420-6 | 5SL4420-7 | 5SL4420-8 |
| 5SL4325-6 | 5SL4325-7 | 5SL4325-8 | 5SL4625-6 | 5SL4625-7 | 5SL4625-8 | 5SL4425-6 | 5SL4425-7 | 5SL4425-8 |
| 5SL4332-6 | 5SL4332-7 | 5SL4332-8 | 5SL4632-6 | 5SL4632-7 | 5SL4632-8 | 5SL4432-6 | 5SL4432-7 | 5SL4432-8 |
| 5SL4340-6 | 5SL4340-7 | 5SL4340-8 | 5SL4640-6 | 5SL4640-7 | 5SL4640-8 | 5SL4440-6 | 5SL4440-7 | 5SL4440-8 |
| 5SL4350-6 | 5SL4350-7 | 5SL4350-8 | 5SL4650-6 | 5SL4650-7 | 5SL4650-8 | 5SL4450-6 | 5SL4450-7 | 5SL4450-8 |
| 5SL4363-6 | 5SL4363-7 | 5SL4363-8 | 5SL4663-6 | 5SL4663-7 | 5SL4663-8 | 5SL4463-6 | 5SL4463-7 | 5SL4463-8 |

Accessories

| Auxiliary switches (AS) | | Article No. | Undervoltage releases (UR) | | Article No. |
|--|----------------------------|---------------|---|--------------------------------|--------------------|
| 1 NO + 1 NC | Standard | 5ST3010 | With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | For low power | 5ST3013 | | 110 V DC | 5ST3041 |
| | For low power (with diode) | 5ST3013-0XX01 | | 24 V DC | 5ST3042 |
| 2 NO | Standard | 5ST3011 | Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | For low power | 5ST3014 | | 110 V DC | 5ST3044 |
| 2 NC | Standard | 5ST3012 | | 24 V DC | 5ST3045 |
| | For low power | 5ST3015 | Remote controlled mechanisms (RC mech.) | | Article No. |
| 1 CO | Standard | 5ST3016 | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| Fault signal contacts (FC) | | Article No. | | 177 ... 270 V AC | 5ST3054 |
| 1 NO + 1 NC | | 5ST3020 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| 2 NO | | 5ST3021 | | 177 ... 270 V AC | 5ST3056 |
| 2 NC | | 5ST3022 | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | | 177 ... 270 V AC | 5ST3058 |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Shunt trip (ST) | | Article No. | Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | 1–2 MW | | 5ST3820-6 |
| 24 ... 48 V AC/DC | | 5ST3031 | 3–4 MW | | 5ST3820-7 |
| 12 V DC new | | 5ST3031-0XX01 | Arc fault detection devices (AFDD) | | Article No. |
| | | | For basic units 1P+N (2 MW), not in combination with RC mech. | I_n up to 16 A | 5SM6021-2 |
| | | | | I_n up to 40 A | 5SM6024-2 |

5SJ6...-KS miniature circuit breakers

6 kA – plug-in terminal on outgoing side

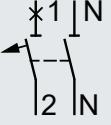
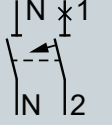


| | 1P 230/400 V AC | | 1P+N 230/400 V AC | | 2P 230/400 V AC | | 3P 230/400 V AC | |
|---------------------|--------------------|-------------|----------------------|-------------|--------------------|-------------|--------------------|-------------|
| | 1 MW | | 2 MW | | 2 MW | | 3 MW | |
| Mounting width | | | | | | | | |
| Rated current I_n | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 10 A | 5SJ6110-6KS | 5SJ6110-7KS | 5SJ6510-6KS | 5SJ6510-7KS | 5SJ6210-6KS | 5SJ6210-7KS | 5SJ6310-6KS | 5SJ6310-7KS |
| 13 A | 5SJ6113-6KS | 5SJ6113-7KS | 5SJ6513-6KS | 5SJ6513-7KS | 5SJ6213-6KS | 5SJ6213-7KS | 5SJ6313-6KS | 5SJ6313-7KS |
| 16 A | 5SJ6116-6KS | 5SJ6116-7KS | 5SJ6516-6KS | 5SJ6516-7KS | 5SJ6216-6KS | 5SJ6216-7KS | 5SJ6316-6KS | 5SJ6316-7KS |
| 20 A | 5SJ6120-6KS | 5SJ6120-7KS | 5SJ6520-6KS | 5SJ6520-7KS | 5SJ6220-6KS | 5SJ6220-7KS | 5SJ6320-6KS | 5SJ6320-7KS |

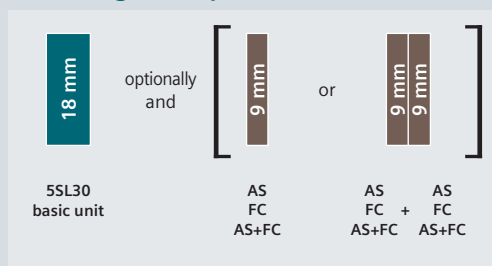
3

5SL30 miniature circuit breakers

1P+N 4.5 kA compact miniature circuit breakers

| | 1P+N (N pole right) 230 V AC | 1P+N (N pole left) 230 V AC |
|---------------------|---|---|
| Mounting width | 2 MW  | 2 MW  |
| Rated current I_n | Characteristic C | Characteristic C |
| 2 A | 5SL3002-7 | 5SL3002-7KL |
| 4 A | 5SL3004-7 | 5SL3004-7KL |
| 6 A | 5SL3006-7 | 5SL3006-7KL |
| 8 A | 5SL3008-7 | 5SL3008-7KL |
| 10 A | 5SL3010-7 | 5SL3010-7KL |
| 13 A | 5SL3013-7 | 5SL3013-7KL |
| 16 A | 5SL3016-7 | 5SL3016-7KL |
| 20 A | 5SL3020-7 | 5SL3020-7KL |
| 25 A | 5SL3025-7 | 5SL3025-7KL |
| 32 A | 5SL3032-7 | 5SL3032-7KL |
| 40 A | 5SL3040-7 | 5SL3040-7KL |

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts

[See page 3/44](#)

[See page 3/46](#)

[See page 3/47](#)



Accessories

| Auxiliary switches (AS) | | Article No. |
|-------------------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |

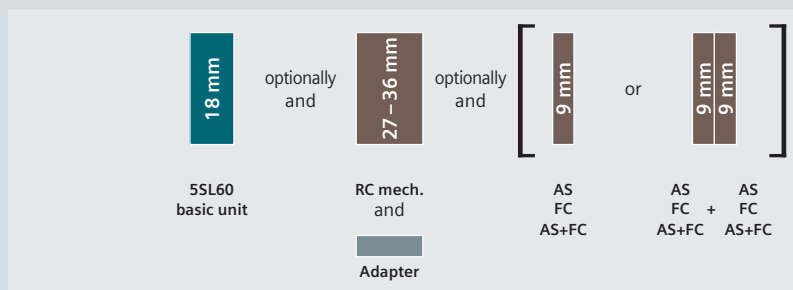
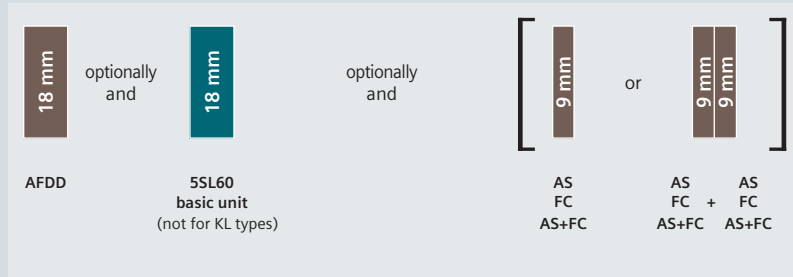
| Fault signal contacts (FC) | | Article No. |
|--|--|-------------|
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |

5SL60 miniature circuit breakers

1P+N 6 kA compact miniature circuit breakers

| Mounting width | 1P+N (N pole right) 230 V AC | | 1P+N (N pole left) 230 V AC | |
|------------------------------|---------------------------------|-----------|--------------------------------|--|
| | 1 MW | | 1 MW | |
| | | | | |
| Rated current I _n | Characteristic | | Characteristic | |
| | B | C | C | |
| 2 A | – | 5SL6002-7 | 5SL6002-7KL | |
| 4 A | – | 5SL6004-7 | 5SL6004-7KL | |
| 6 A | 5SL6006-6 | 5SL6006-7 | 5SL6006-7KL | |
| 8 A | – | 5SL6008-7 | 5SL6008-7KL | |
| 10 A | 5SL6010-6 | 5SL6010-7 | 5SL6010-7KL | |
| 13 A | 5SL6013-6 | 5SL6013-7 | 5SL6013-7KL | |
| 16 A | 5SL6016-6 | 5SL6016-7 | 5SL6016-7KL | |
| 20 A | 5SL6020-6 | 5SL6020-7 | 5SL6020-7KL | |
| 25 A | 5SL6025-6 | 5SL6025-7 | 5SL6025-7KL | |
| 32 A | 5SL6032-6 | 5SL6032-7 | 5SL6032-7KL | |
| 40 A | 5SL6040-6 | 5SL6040-7 | 5SL6040-7KL | |

Mounting concept



- AFDD Arc fault detection devices
- AS Auxiliary switches
- FC Fault signal contacts
- AS+FC Auxiliary switches and fault signal contacts
- RC mech. Remote controlled mechanisms

- [See page 3/51](#)
- [See page 3/44](#)
- [See page 3/46](#)
- [See page 3/47](#)
- [See page 3/50](#)



Accessories

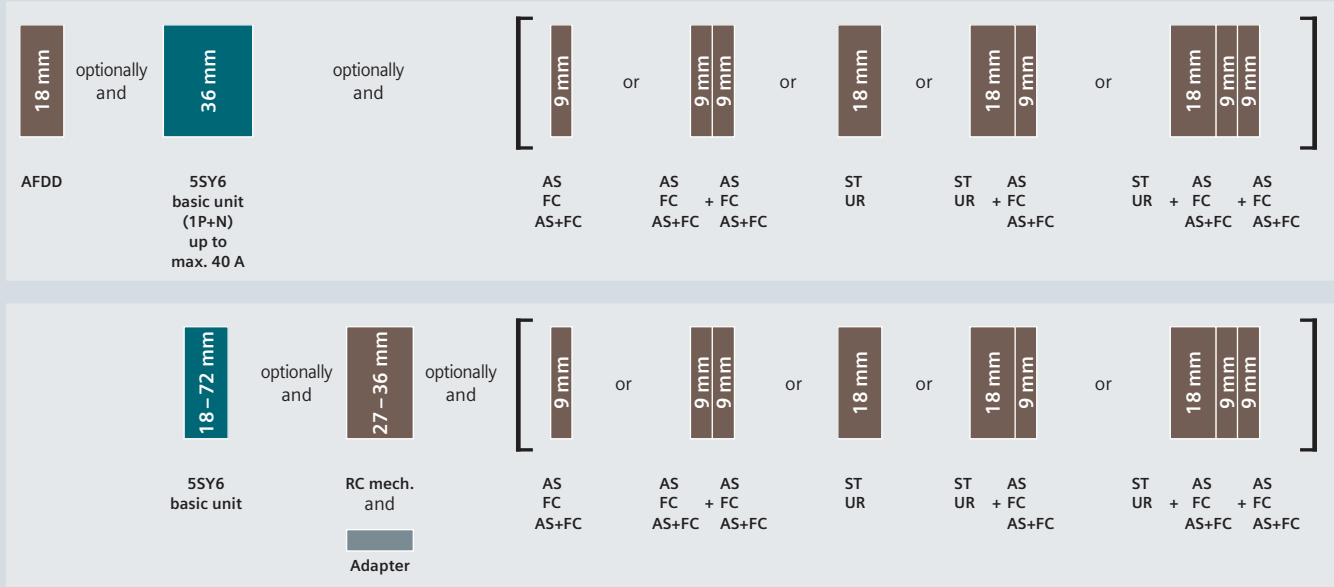
| Auxiliary switches (AS) | | Article No. | Remote controlled mechanisms (RC mech.) | | Article No. |
|---|----------------------------|--------------------|---|--------------------------------|--------------------|
| 1 NO + 1 NC | Standard | 5ST3010 | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | For low power | 5ST3013 | | 177 ... 270 V AC | 5ST3054 |
| | For low power (with diode) | 5ST3013-0XX01 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| Standard | 5ST3011 | 177 ... 270 V AC | | 5ST3056 | |
| 2 NO | For low power | 5ST3014 | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | Standard | 5ST3012 | | 177 ... 270 V AC | 5ST3058 |
| 2 NC | For low power | 5ST3015 | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| | Standard | 5ST3016 | | | |
| 1 CO | Standard | 5ST3016 | Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| Fault signal contacts (FC) | | Article No. | 1 MW | | 5ST3820-6 |
| 1 NO + 1 NC | | 5ST3020 | Arc fault detection devices (AFDD) | | Article No. |
| 2 NO | | 5ST3021 | For basic units 1P + N (1 MW), I_n up to 16 A | | 5SM6011-2 |
| 2 NC | | 5ST3022 | not for KL types I_n up to 40 A | | 5SM6014-2 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | | | |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 | | | |

5SY6 miniature circuit breakers

6 kA

| Mounting width | 1P 230/400 V AC | | 1P+N 230 V AC | | 2P 400 V AC | | 3P 400 V AC | |
|------------------------------|--------------------|-----------|------------------|-----------|----------------|-----------|----------------|-----------|
| | 1 MW | | 2 MW | | 2 MW | | 3 MW | |
| | | | | | | | | |
| Rated current I _n | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 0.3 A | – | 5SY6114-7 | – | 5SY6514-7 | – | 5SY6214-7 | – | 5SY6314-7 |
| 0.5 A | – | 5SY6105-7 | – | 5SY6505-7 | – | 5SY6205-7 | – | 5SY6305-7 |
| 1 A | – | 5SY6101-7 | – | 5SY6501-7 | – | 5SY6201-7 | – | 5SY6301-7 |
| 1.6 A | – | 5SY6115-7 | – | 5SY6515-7 | – | 5SY6215-7 | – | 5SY6315-7 |
| 2 A | 5SY6102-6 | 5SY6102-7 | – | 5SY6502-7 | – | 5SY6202-7 | – | 5SY6302-7 |
| 3 A | – | 5SY6103-7 | – | 5SY6503-7 | – | 5SY6203-7 | – | 5SY6303-7 |
| 4 A | 5SY6104-6 | 5SY6104-7 | – | 5SY6504-7 | – | 5SY6204-7 | – | 5SY6304-7 |
| 5 A | – | 5SY6111-7 | – | – | – | 5SY6211-7 | – | 5SY6311-7 |
| 6 A | 5SY6106-6 | 5SY6106-7 | 5SY6506-6 | 5SY6506-7 | 5SY6206-6 | 5SY6206-7 | 5SY6306-6 | 5SY6306-7 |
| 8 A | – | 5SY6108-7 | – | 5SY6508-7 | – | 5SY6208-7 | – | 5SY6308-7 |
| 10 A | 5SY6110-6 | 5SY6110-7 | 5SY6510-6 | 5SY6510-7 | 5SY6210-6 | 5SY6210-7 | 5SY6310-6 | 5SY6310-7 |
| 13 A | 5SY6113-6 | 5SY6113-7 | 5SY6513-6 | 5SY6513-7 | 5SY6213-6 | 5SY6213-7 | 5SY6313-6 | 5SY6313-7 |
| 15 A | – | 5SY6118-7 | – | – | – | 5SY6218-7 | – | 5SY6318-7 |
| 16 A | 5SY6116-6 | 5SY6116-7 | 5SY6516-6 | 5SY6516-7 | 5SY6216-6 | 5SY6216-7 | 5SY6316-6 | 5SY6316-7 |
| 20 A | 5SY6120-6 | 5SY6120-7 | 5SY6520-6 | 5SY6520-7 | 5SY6220-6 | 5SY6220-7 | 5SY6320-6 | 5SY6320-7 |
| 25 A | 5SY6125-6 | 5SY6125-7 | 5SY6525-6 | 5SY6525-7 | 5SY6225-6 | 5SY6225-7 | 5SY6325-6 | 5SY6325-7 |
| 30 A | – | 5SY6130-7 | – | – | – | 5SY6230-7 | – | 5SY6330-7 |
| 32 A | 5SY6132-6 | 5SY6132-7 | 5SY6532-6 | 5SY6532-7 | 5SY6232-6 | 5SY6232-7 | 5SY6332-6 | 5SY6332-7 |
| 40 A | 5SY6140-6 | 5SY6140-7 | 5SY6540-6 | 5SY6540-7 | 5SY6240-6 | 5SY6240-7 | 5SY6340-6 | 5SY6340-7 |
| 50 A | 5SY6150-6 | 5SY6150-7 | 5SY6550-6 | 5SY6550-7 | 5SY6250-6 | 5SY6250-7 | 5SY6350-6 | 5SY6350-7 |
| 63 A | 5SY6163-6 | 5SY6163-7 | 5SY6563-6 | 5SY6563-7 | 5SY6263-6 | 5SY6263-7 | 5SY6363-6 | 5SY6363-7 |

Mounting concept



AFDD Arc fault detection devices [See page 3/51](#) AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#) UR Undervoltage releases [See page 3/49](#)
AS Auxiliary switches [See page 3/44](#) AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#) RC mech. Remote controlled mechanisms [See page 3/50](#)
FC Fault signal contacts [See page 3/46](#) ST Shunt trip [See page 3/48](#)



| 3P+N 400 V AC 4 MW | | 4P 400 V AC 4 MW | |
|--------------------------|-----------|------------------------|-----------|
| | | | |
| Characteristic | | Characteristic | |
| B | C | B | C |
| – | 5SY6614-7 | – | 5SY6414-7 |
| – | 5SY6605-7 | – | 5SY6405-7 |
| – | 5SY6601-7 | – | 5SY6401-7 |
| – | 5SY6615-7 | – | 5SY6415-7 |
| – | 5SY6602-7 | – | 5SY6402-7 |
| – | 5SY6603-7 | – | 5SY6403-7 |
| – | 5SY6604-7 | – | 5SY6404-7 |
| – | – | – | – |
| 5SY6606-6 | 5SY6606-7 | 5SY6406-6 | 5SY6406-7 |
| – | 5SY6608-7 | – | 5SY6408-7 |
| 5SY6610-6 | 5SY6610-7 | 5SY6410-6 | 5SY6410-7 |
| 5SY6613-6 | 5SY6613-7 | 5SY6413-6 | 5SY6413-7 |
| – | – | – | – |
| 5SY6616-6 | 5SY6616-7 | 5SY6416-6 | 5SY6416-7 |
| 5SY6620-6 | 5SY6620-7 | 5SY6420-6 | 5SY6420-7 |
| 5SY6625-6 | 5SY6625-7 | 5SY6425-6 | 5SY6425-7 |
| – | – | – | – |
| 5SY6632-6 | 5SY6632-7 | 5SY6432-6 | 5SY6432-7 |
| 5SY6640-6 | 5SY6640-7 | 5SY6440-6 | 5SY6440-7 |
| 5SY6650-6 | 5SY6650-7 | 5SY6450-6 | 5SY6450-7 |
| 5SY6663-6 | 5SY6663-7 | 5SY6463-6 | 5SY6463-7 |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| Shunt trip (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

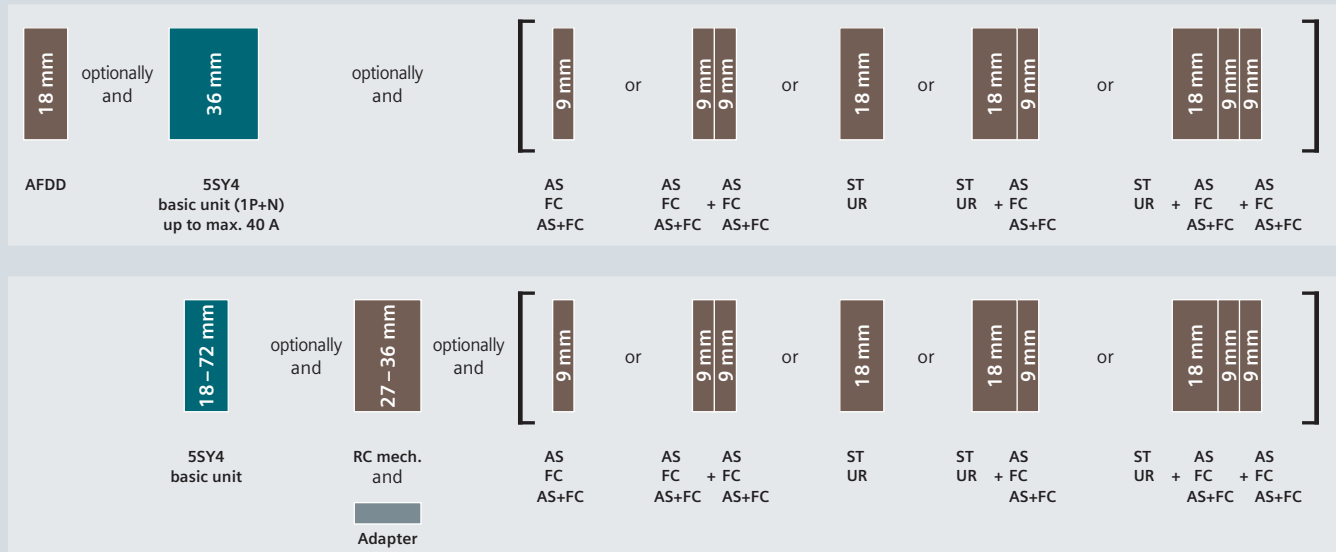
| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled mechanisms (RC mech.) | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 1–2 MW | | 5ST3820-1 |
| 3–4 MW | | 5ST3820-2 |
| Arc fault detection devices (AFDD) | | Article No. |
| For basic units 1P+N (2 MW), not in combination with RC mech. | I_n up to 16 A | 5SM6021-2 |
| | I_n up to 40 A | 5SM6024-2 |

5SY4 miniature circuit breakers

10 kA

| Mounting width | 1P 230/400 V AC 1 MW | | | | 1P+N 230 V AC 2 MW | | | | 2P 400 V AC 2 MW | | | |
|---------------------------------|----------------------------|----------------------|-----------|-----------|--------------------------|----------------------|-----------|-----------|------------------------|----------------------|-----------|-----------|
| | | | | | | | | | | | | |
| Rated current I _n | Characteristic | | | | Characteristic | | | | Characteristic | | | |
| | A | B | C | D | A | B | C | D | A | B | C | D |
| 0.3 A | – | – | 5SY4114-7 | 5SY4114-8 | – | – | 5SY4514-7 | 5SY4514-8 | – | – | 5SY4214-7 | 5SY4214-8 |
| 0.5 A | 5SY4105-5 | – | 5SY4105-7 | 5SY4105-8 | – | – | 5SY4505-7 | 5SY4505-8 | 5SY4205-5 | – | 5SY4205-7 | 5SY4205-8 |
| 1 A | 5SY4101-5 | 5SY4101-6 new | 5SY4101-7 | 5SY4101-8 | 5SY4501-5 | – | 5SY4501-7 | 5SY4501-8 | 5SY4201-5 | 5SY4201-6 new | 5SY4201-7 | 5SY4201-8 |
| 1.6 A | 5SY4115-5 | 5SY4115-6 new | 5SY4115-7 | 5SY4115-8 | 5SY4515-5 | 5SY4515-6 new | 5SY4515-7 | 5SY4515-8 | 5SY4215-5 | 5SY4215-6 new | 5SY4215-7 | 5SY4215-8 |
| 2 A | 5SY4102-5 | 5SY4102-6 | 5SY4102-7 | 5SY4102-8 | 5SY4502-5 | – | 5SY4502-7 | 5SY4502-8 | 5SY4202-5 | 5SY4202-6 new | 5SY4202-7 | 5SY4202-8 |
| 3 A | 5SY4103-5 | 5SY4103-6 new | 5SY4103-7 | 5SY4103-8 | 5SY4503-5 | – | 5SY4503-7 | 5SY4503-8 | 5SY4203-5 | 5SY4203-6 new | 5SY4203-7 | 5SY4203-8 |
| 4 A | 5SY4104-5 | 5SY4104-6 | 5SY4104-7 | 5SY4104-8 | 5SY4504-5 | 5SY4504-6 new | 5SY4504-7 | 5SY4504-8 | 5SY4204-5 | 5SY4204-6 new | 5SY4204-7 | 5SY4204-8 |
| 5 A | – | – | 5SY4111-7 | – | – | – | – | – | – | – | 5SY4211-7 | – |
| 6 A | 5SY4106-5 | 5SY4106-6 | 5SY4106-7 | 5SY4106-8 | 5SY4506-5 | 5SY4506-6 | 5SY4506-7 | 5SY4506-8 | 5SY4206-5 | 5SY4206-6 | 5SY4206-7 | 5SY4206-8 |
| 8 A | 5SY4108-5 | 5SY4108-6 new | 5SY4108-7 | 5SY4108-8 | 5SY4508-5 | – | 5SY4508-7 | 5SY4508-8 | 5SY4208-5 | 5SY4208-6 new | 5SY4208-7 | 5SY4208-8 |
| 10 A | 5SY4110-5 | 5SY4110-6 | 5SY4110-7 | 5SY4110-8 | 5SY4510-5 | 5SY4510-6 | 5SY4510-7 | 5SY4510-8 | 5SY4210-5 | 5SY4210-6 | 5SY4210-7 | 5SY4210-8 |
| 13 A | 5SY4113-5 | 5SY4113-6 | 5SY4113-7 | 5SY4113-8 | 5SY4513-5 | 5SY4513-6 | 5SY4513-7 | 5SY4513-8 | 5SY4213-5 | 5SY4213-6 | 5SY4213-7 | 5SY4213-8 |
| 15 A | – | – | 5SY4118-7 | – | – | – | – | – | – | – | 5SY4218-7 | – |
| 16 A | 5SY4116-5 | 5SY4116-6 | 5SY4116-7 | 5SY4116-8 | 5SY4516-5 | 5SY4516-6 | 5SY4516-7 | 5SY4516-8 | 5SY4216-5 | 5SY4216-6 | 5SY4216-7 | 5SY4216-8 |
| 20 A | 5SY4120-5 | 5SY4120-6 | 5SY4120-7 | 5SY4120-8 | 5SY4520-5 | 5SY4520-6 | 5SY4520-7 | 5SY4520-8 | 5SY4220-5 | 5SY4220-6 | 5SY4220-7 | 5SY4220-8 |
| 25 A | 5SY4125-5 | 5SY4125-6 | 5SY4125-7 | 5SY4125-8 | 5SY4525-5 | 5SY4525-6 | 5SY4525-7 | 5SY4525-8 | 5SY4225-5 | 5SY4225-6 | 5SY4225-7 | 5SY4225-8 |
| 30 A | – | – | 5SY4130-7 | – | – | – | – | – | – | – | 5SY4230-7 | – |
| 32 A | 5SY4132-5 | 5SY4132-6 | 5SY4132-7 | 5SY4132-8 | 5SY4532-5 | 5SY4532-6 | 5SY4532-7 | 5SY4532-8 | 5SY4232-5 | 5SY4232-6 | 5SY4232-7 | 5SY4232-8 |
| 35 A | – | – | 5SY4135-7 | – | – | – | – | – | – | – | 5SY4235-7 | – |
| 40 A | 5SY4140-5 | 5SY4140-6 | 5SY4140-7 | 5SY4140-8 | 5SY4540-5 | 5SY4540-6 | 5SY4540-7 | 5SY4540-8 | 5SY4240-5 | 5SY4240-6 | 5SY4240-7 | 5SY4240-8 |
| 45 A | – | – | 5SY4145-7 | – | – | – | – | – | – | – | 5SY4245-7 | – |
| 50 A | 5SY4150-5 | 5SY4150-6 | 5SY4150-7 | 5SY4150-8 | 5SY4550-5 | 5SY4550-6 | 5SY4550-7 | 5SY4550-8 | 5SY4250-5 | 5SY4250-6 | 5SY4250-7 | 5SY4250-8 |
| 60 A | – | – | 5SY4160-7 | – | – | – | – | – | – | – | 5SY4260-7 | – |
| 63 A | 5SY4163-5 | 5SY4163-6 | 5SY4163-7 | 5SY4163-8 | 5SY4563-5 | 5SY4563-6 | 5SY4563-7 | 5SY4563-8 | 5SY4263-5 | 5SY4263-6 | 5SY4263-7 | 5SY4263-8 |
| 80 A | – | 5SY4180-6 | 5SY4180-7 | – | – | – | 5SY4580-7 | – | – | 5SY4280-6 | 5SY4280-7 | – |

Mounting concept





| 3P 400 V AC 3 MW | | | | 3P+N 400 V AC 4 MW | | | | 4P 400 V AC 4 MW | | | |
|------------------------|----------------------|-----------|-----------|--------------------------|-----------|-----------|-----------|------------------------|-----------|-----------|-----------|
| | | | | | | | | | | | |
| Characteristic | | | | Characteristic | | | | Characteristic | | | |
| A | B | C | D | A | B | C | D | A | B | C | D |
| – | – | 5SY4314-7 | 5SY4314-8 | – | – | 5SY4614-7 | 5SY4614-8 | – | – | 5SY4414-7 | 5SY4414-8 |
| 5SY4305-5 | – | 5SY4305-7 | 5SY4305-8 | – | – | 5SY4605-7 | 5SY4605-8 | – | – | 5SY4405-7 | 5SY4405-8 |
| 5SY4301-5 | 5SY4301-6 new | 5SY4301-7 | 5SY4301-8 | 5SY4601-5 | – | 5SY4601-7 | 5SY4601-8 | 5SY4401-5 | – | 5SY4401-7 | 5SY4401-8 |
| 5SY4315-5 | 5SY4315-6 new | 5SY4315-7 | 5SY4315-8 | 5SY4615-5 | – | 5SY4615-7 | 5SY4615-8 | 5SY4415-5 | – | 5SY4415-7 | 5SY4415-8 |
| 5SY4302-5 | 5SY4302-6 new | 5SY4302-7 | 5SY4302-8 | 5SY4602-5 | – | 5SY4602-7 | 5SY4602-8 | 5SY4402-5 | – | 5SY4402-7 | 5SY4402-8 |
| 5SY4303-5 | 5SY4303-6 new | 5SY4303-7 | 5SY4303-8 | 5SY4603-5 | – | 5SY4603-7 | 5SY4603-8 | 5SY4403-5 | – | 5SY4403-7 | 5SY4403-8 |
| 5SY4304-5 | 5SY4304-6 new | 5SY4304-7 | 5SY4304-8 | 5SY4604-5 | – | 5SY4604-7 | 5SY4604-8 | 5SY4404-5 | – | 5SY4404-7 | 5SY4404-8 |
| – | – | 5SY4311-7 | – | – | – | – | – | – | – | – | – |
| 5SY4306-5 | 5SY4306-6 | 5SY4306-7 | 5SY4306-8 | 5SY4606-5 | 5SY4606-6 | 5SY4606-7 | 5SY4606-8 | 5SY4406-5 | 5SY4406-6 | 5SY4406-7 | 5SY4406-8 |
| 5SY4308-5 | 5SY4308-6 new | 5SY4308-7 | 5SY4308-8 | 5SY4608-5 | – | 5SY4608-7 | 5SY4608-8 | 5SY4408-5 | – | 5SY4408-7 | 5SY4408-8 |
| 5SY4310-5 | 5SY4310-6 | 5SY4310-7 | 5SY4310-8 | 5SY4610-5 | 5SY4610-6 | 5SY4610-7 | 5SY4610-8 | 5SY4410-5 | 5SY4410-6 | 5SY4410-7 | 5SY4410-8 |
| 5SY4313-5 | 5SY4313-6 | 5SY4313-7 | 5SY4313-8 | 5SY4613-5 | 5SY4613-6 | 5SY4613-7 | 5SY4613-8 | 5SY4413-5 | 5SY4413-6 | 5SY4413-7 | 5SY4413-8 |
| – | – | 5SY4318-7 | – | – | – | – | – | – | – | – | – |
| 5SY4316-5 | 5SY4316-6 | 5SY4316-7 | 5SY4316-8 | 5SY4616-5 | 5SY4616-6 | 5SY4616-7 | 5SY4616-8 | 5SY4416-5 | 5SY4416-6 | 5SY4416-7 | 5SY4416-8 |
| 5SY4320-5 | 5SY4320-6 | 5SY4320-7 | 5SY4320-8 | 5SY4620-5 | 5SY4620-6 | 5SY4620-7 | 5SY4620-8 | 5SY4420-5 | 5SY4420-6 | 5SY4420-7 | 5SY4420-8 |
| 5SY4325-5 | 5SY4325-6 | 5SY4325-7 | 5SY4325-8 | 5SY4625-5 | 5SY4625-6 | 5SY4625-7 | 5SY4625-8 | 5SY4425-5 | 5SY4425-6 | 5SY4425-7 | 5SY4425-8 |
| – | – | 5SY4330-7 | – | – | – | – | – | – | – | – | – |
| 5SY4332-5 | 5SY4332-6 | 5SY4332-7 | 5SY4332-8 | 5SY4632-5 | 5SY4632-6 | 5SY4632-7 | 5SY4632-8 | 5SY4432-5 | 5SY4432-6 | 5SY4432-7 | 5SY4432-8 |
| – | – | 5SY4335-7 | – | – | – | – | – | – | – | – | – |
| 5SY4340-5 | 5SY4340-6 | 5SY4340-7 | 5SY4340-8 | 5SY4640-5 | 5SY4640-6 | 5SY4640-7 | 5SY4640-8 | 5SY4440-5 | 5SY4440-6 | 5SY4440-7 | 5SY4440-8 |
| – | – | 5SY4345-7 | – | – | – | – | – | – | – | – | – |
| 5SY4350-5 | 5SY4350-6 | 5SY4350-7 | 5SY4350-8 | 5SY4650-5 | 5SY4650-6 | 5SY4650-7 | 5SY4650-8 | 5SY4450-5 | 5SY4450-6 | 5SY4450-7 | 5SY4450-8 |
| – | – | 5SY4360-7 | – | – | – | – | – | – | – | – | – |
| 5SY4363-5 | 5SY4363-6 | 5SY4363-7 | 5SY4363-8 | 5SY4663-5 | 5SY4663-6 | 5SY4663-7 | 5SY4663-8 | 5SY4463-5 | 5SY4463-6 | 5SY4463-7 | 5SY4463-8 |
| – | 5SY4380-6 | 5SY4380-7 | – | – | – | 5SY4680-7 | – | – | 5SY4480-6 | 5SY4480-7 | – |

Accessories

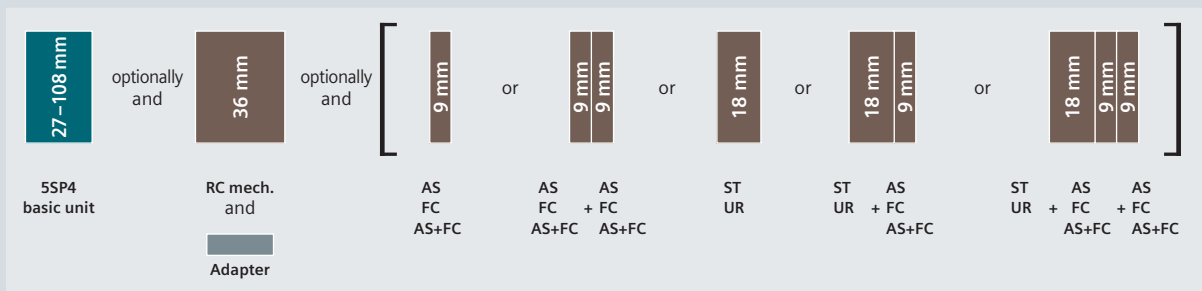
| Auxiliary switches (AS) | | Article No. | Arc fault detection devices (AFDD) | | Article No. |
|---|----------------------------|--------------------|--|---|--------------------|
| 1 NO + 1 NC | Standard | 5ST3010 | For basic units 1P+N (2 MW) | I_n up to 16 A | 5SM6021-2 |
| | For low power | 5ST3013 | | I_n up to 40 A | 5SM6024-2 |
| | For low power (with diode) | 5ST3013-0XX01 | Undervoltage releases (UR) | | Article No. |
| 2 NO | Standard | 5ST3011 | With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | For low power | 5ST3014 | | 110 V DC | 5ST3041 |
| 2 NC | Standard | 5ST3012 | Without integrated auxiliary switch | 24 V DC | 5ST3042 |
| | For low power | 5ST3015 | | 230 V AC | 5ST3043 |
| 1 CO | Standard | 5ST3016 | 110 V DC | 5ST3044 | |
| Fault signal contacts (FC) | | Article No. | 24 V DC | 5ST3045 | |
| 1 NO + 1 NC | | 5ST3020 | Remote controlled mechanisms (RC mech.) | | Article No. |
| 2 NO | | 5ST3021 | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| 2 NC | | 5ST3022 | | 177 ... 270 V AC | 5ST3054 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 | | 177 ... 270 V AC | 5ST3056 |
| Shunt trip (ST) | | Article No. | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| 110 ... 415 V AC, 110 ... 220 DC | | 5ST3030 | | 177 ... 270 V AC | 5ST3058 |
| 24 ... 48 V AC/DC | | 5ST3031 | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| 12 V DC new | | 5ST3031-0XX01 | | Adapters for remote controlled mechanisms (RC mech.) | |
| | | | 1–2 MW | 5ST3820-1 | |
| | | | | 3–4 MW | 5ST3820-2 |

5SP4 miniature circuit breakers

10 kA

| Mounting width | 1P 230/400 V AC | | | 2P 400 V AC | | |
|------------------------------|--------------------|-----------|-----------|----------------|-----------|-----------|
| | 1.5 MW | | | 3 MW | | |
| | | | | | | |
| Rated current I _n | Characteristic | | | Characteristic | | |
| | B | C | D | B | C | D |
| 80 A | 5SP4180-6 | 5SP4180-7 | 5SP4180-8 | 5SP4280-6 | 5SP4280-7 | 5SP4280-8 |
| 100 A | 5SP4191-6 | 5SP4191-7 | 5SP4191-8 | 5SP4291-6 | 5SP4291-7 | 5SP4291-8 |
| 125 A | 5SP4192-6 | 5SP4192-7 | – | 5SP4292-6 | 5SP4292-7 | – |

Mounting concept

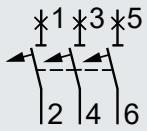


- AS Auxiliary switches [See page 3/44](#)
- FC Fault signal contacts [See page 3/46](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#)
- ST Shunt trip [See page 3/48](#)
- UR Undervoltage releases [See page 3/49](#)
- RC mech. Remote controlled mechanisms [See page 3/50](#)



3P
400 V AC

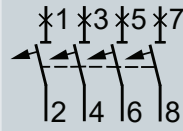
4.5 MW



4P

400 V AC

6 MW



Characteristic

B

C

D

5SP4380-6

5SP4380-7

5SP4380-8

5SP4391-6

5SP4391-7

5SP4391-8

5SP4392-6

5SP4392-7

–

Characteristic

B

C

D

5SP4480-6

5SP4480-7

5SP4480-8

5SP4491-6

5SP4491-7

5SP4491-8

5SP4492-6

5SP4492-7

–

3

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| Shunt trip (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled mechanisms (RC mech.) | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 1.5 MW | | 5ST3820-1 |
| 3–6 MW | | 5ST3820-2 |

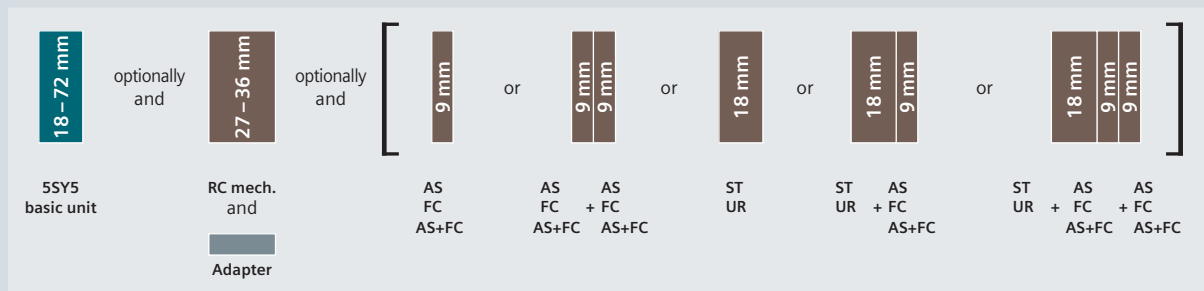
5SY5 miniature circuit breakers

10 kA

3

| Rated current I_n | 1P 230/400 V AC, 220 V DC 1 MW | | 2P 400 V AC, 440 V DC 2 MW | | 4P 400 V AC, 880 V DC 4 MW | |
|---------------------|--------------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|
| | Characteristic B | Characteristic C | Characteristic B | Characteristic C | Characteristic B | Characteristic C |
| 0.3 A | – | 5SY5114-7 | – | 5SY5214-7 | – | 5SY5414-7 |
| 0.5 A | – | 5SY5105-7 | – | 5SY5205-7 | – | 5SY5405-7 |
| 1 A | – | 5SY5101-7 | – | 5SY5201-7 | – | 5SY5401-7 |
| 1.6 A | – | 5SY5115-7 | – | 5SY5215-7 | – | 5SY5415-7 |
| 2 A | 5SY5102-6 | 5SY5102-7 | 5SY5202-6 new | 5SY5202-7 | – | 5SY5402-7 |
| 3 A | – | 5SY5103-7 | – | 5SY5203-7 | – | 5SY5403-7 |
| 4 A | 5SY5104-6 | 5SY5104-7 | 5SY5204-6 new | 5SY5204-7 | – | 5SY5404-7 |
| 6 A | 5SY5106-6 | 5SY5106-7 | 5SY5206-6 | 5SY5206-7 | 5SY5406-6 | 5SY5406-7 |
| 8 A | 5SY5108-6 new | 5SY5108-7 | 5SY5208-6 new | 5SY5208-7 | – | 5SY5408-7 |
| 10 A | 5SY5110-6 | 5SY5110-7 | 5SY5210-6 | 5SY5210-7 | 5SY5410-6 | 5SY5410-7 |
| 13 A | 5SY5113-6 | 5SY5113-7 | 5SY5213-6 | 5SY5213-7 | 5SY5413-6 | 5SY5413-7 |
| 16 A | 5SY5116-6 | 5SY5116-7 | 5SY5216-6 | 5SY5216-7 | 5SY5416-6 | 5SY5416-7 |
| 20 A | 5SY5120-6 | 5SY5120-7 | 5SY5220-6 | 5SY5220-7 | 5SY5420-6 | 5SY5420-7 |
| 25 A | 5SY5125-6 | 5SY5125-7 | 5SY5225-6 | 5SY5225-7 | 5SY5425-6 | 5SY5425-7 |
| 32 A | 5SY5132-6 | 5SY5132-7 | 5SY5232-6 | 5SY5232-7 | 5SY5432-6 | 5SY5432-7 |
| 40 A | 5SY5140-6 | 5SY5140-7 | 5SY5240-6 | 5SY5240-7 | 5SY5440-6 | 5SY5440-7 |
| 50 A | 5SY5150-6 | 5SY5150-7 | 5SY5250-6 | 5SY5250-7 | 5SY5450-6 | 5SY5450-7 |
| 63 A | 5SY5163-6 | 5SY5163-7 | 5SY5263-6 | 5SY5263-7 | 5SY5463-6 | 5SY5463-7 |

Mounting concept



- AS Auxiliary switches [See page 3/44](#)
- FC Fault signal contacts [See page 3/46](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#)
- ST Shunt trip [See page 3/48](#)
- UR Undervoltage releases [See page 3/49](#)
- RC mech. Remote controlled mechanisms [See page 3/50](#)

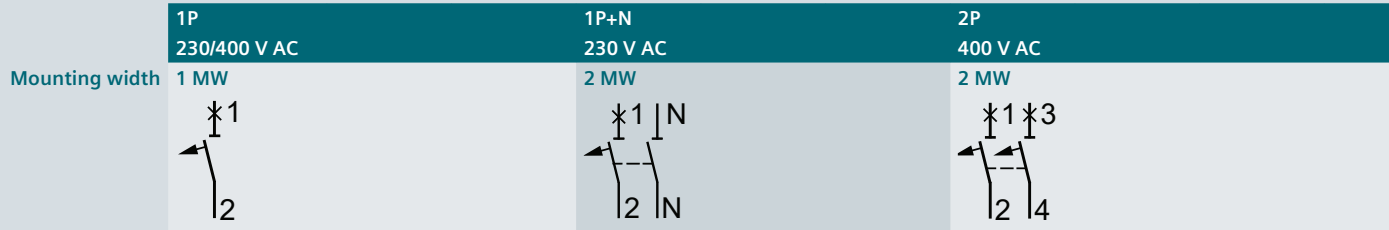


Accessories

| Auxiliary switches (AS) | | Article No. | Undervoltage releases (UR) | | Article No. |
|--|----------------------------|---------------|---|--|-------------|
| 1 NO + 1 NC | Standard | 5ST3010 | With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | For low power | 5ST3013 | | 110 V DC | 5ST3041 |
| | For low power (with diode) | 5ST3013-0XX01 | | 24 V DC | 5ST3042 |
| 2 NO | Standard | 5ST3011 | Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | For low power | 5ST3014 | | 110 V DC | 5ST3044 |
| 2 NC | Standard | 5ST3012 | | 24 V DC | 5ST3045 |
| | For low power | 5ST3015 | | | |
| 1 CO | Standard | 5ST3016 | Remote controlled mechanisms (RC mech.) | | Article No. |
| Fault signal contacts (FC) | | Article No. | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| 1 NO + 1 NC | | 5ST3020 | | 177 ... 270 V AC | 5ST3054 |
| 2 NO | | 5ST3021 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| 2 NC | | 5ST3022 | | 177 ... 270 V AC | 5ST3056 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 | | 177 ... 270 V AC | 5ST3058 |
| Shunt trip (ST) | | Article No. | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| 110 ... 415 V AC, 110 ... 220 DC | | 5ST3030 | | Adapters for remote controlled mechanisms (RC mech.) | |
| 24 ... 48 V AC/DC | | 5ST3031 | 1–2 MW | | 5ST3820-1 |
| 12 V DC new | | 5ST3031-0XX01 | 4 MW | | 5ST3820-2 |

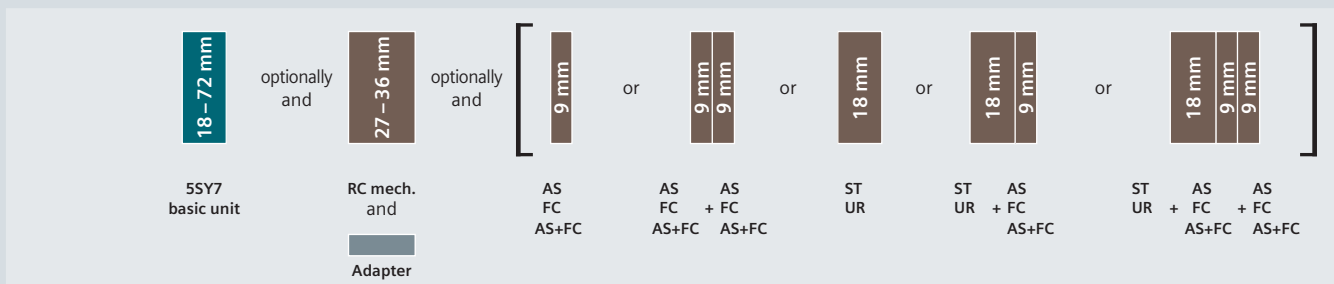
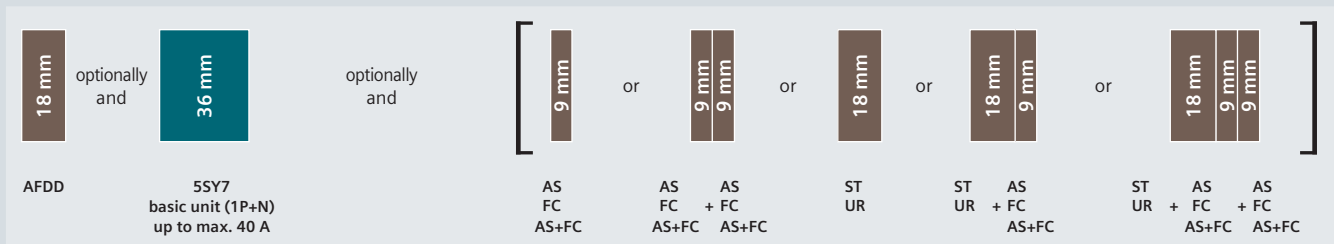
5SY7 miniature circuit breakers

15 kA



| Rated current I_n | Main MCB, line side of meter | 1P 230/400 V AC | | | 1P+N 230 V AC | | | 2P 400 V AC | | |
|------------------------|------------------------------|--------------------|----------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|
| | | Characteristic | Characteristic | Characteristic | Characteristic | Characteristic | Characteristic | Characteristic | Characteristic | Characteristic |
| | | B | C | D | B | C | D | B | C | D |
| 0.3 A | - | - | 5SY7114-7 | 5SY7114-8 | - | 5SY7514-7 | 5SY7514-8 | - | 5SY7214-7 | 5SY7214-8 |
| 0.5 A | - | - | 5SY7105-7 | 5SY7105-8 | - | 5SY7505-7 | 5SY7505-8 | - | 5SY7205-7 | 5SY7205-8 |
| 1 A | - | - | 5SY7101-7 | 5SY7101-8 | - | 5SY7501-7 | 5SY7501-8 | - | 5SY7201-7 | 5SY7201-8 |
| 1.6 A | - | - | 5SY7115-7 | 5SY7115-8 | - | 5SY7515-7 | 5SY7515-8 | - | 5SY7215-7 | 5SY7215-8 |
| 2 A | - | - | 5SY7102-7 | 5SY7102-8 | - | 5SY7502-7 | 5SY7502-8 | - | 5SY7202-7 | 5SY7202-8 |
| 3 A | - | - | 5SY7103-7 | 5SY7103-8 | - | 5SY7503-7 | 5SY7503-8 | - | 5SY7203-7 | 5SY7203-8 |
| 4 A | - | - | 5SY7104-7 | 5SY7104-8 | - | 5SY7504-7 | 5SY7504-8 | - | 5SY7204-7 | 5SY7204-8 |
| 6 A | - | 5SY7106-6 | 5SY7106-7 | 5SY7106-8 | 5SY7506-6 | 5SY7506-7 | 5SY7506-8 | 5SY7206-6 | 5SY7206-7 | 5SY7206-8 |
| | ■ | 5SY7106-6KK13 | - | - | - | - | - | - | - | - |
| 8 A | - | - | 5SY7108-7 | 5SY7108-8 | - | 5SY7508-7 | 5SY7508-8 | - | 5SY7208-7 | 5SY7208-8 |
| 10 A | - | 5SY7110-6 | 5SY7110-7 | 5SY7110-8 | 5SY7510-6 | 5SY7510-7 | 5SY7510-8 | 5SY7210-6 | 5SY7210-7 | 5SY7210-8 |
| | ■ | 5SY7110-6KK13 | - | - | - | - | - | - | - | - |
| 13 A | - | 5SY7113-6 | 5SY7113-7 | 5SY7113-8 | 5SY7513-6 | 5SY7513-7 | 5SY7513-8 | 5SY7213-6 | 5SY7213-7 | 5SY7213-8 |
| 16 A | - | 5SY7116-6 | 5SY7116-7 | 5SY7116-8 | 5SY7516-6 | 5SY7516-7 | 5SY7516-8 | 5SY7216-6 | 5SY7216-7 | 5SY7216-8 |
| 20 A | - | 5SY7120-6 | 5SY7120-7 | 5SY7120-8 | 5SY7520-6 | 5SY7520-7 | 5SY7520-8 | 5SY7220-6 | 5SY7220-7 | 5SY7220-8 |
| 25 A | - | 5SY7125-6 | 5SY7125-7 | 5SY7125-8 | 5SY7525-6 | 5SY7525-7 | 5SY7525-8 | 5SY7225-6 | 5SY7225-7 | 5SY7225-8 |
| 32 A | - | 5SY7132-6 | 5SY7132-7 | 5SY7132-8 | 5SY7532-6 | 5SY7532-7 | 5SY7532-8 | 5SY7232-6 | 5SY7232-7 | 5SY7232-8 |
| 40 A | - | 5SY7140-6 | 5SY7140-7 | 5SY7140-8 | 5SY7540-6 | 5SY7540-7 | 5SY7540-8 | 5SY7240-6 | 5SY7240-7 | 5SY7240-8 |
| 50 A | - | 5SY7150-6 | 5SY7150-7 | 5SY7150-8 | 5SY7550-6 | 5SY7550-7 | 5SY7550-8 | 5SY7250-6 | 5SY7250-7 | 5SY7250-8 |
| 63 A | - | 5SY7163-6 | 5SY7163-7 | 5SY7163-8 | 5SY7563-6 | 5SY7563-7 | 5SY7563-8 | 5SY7263-6 | 5SY7263-7 | 5SY7263-8 |

Mounting concept



AFDD Arc fault detection devices [See page 3/51](#) AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#) UR Undervoltage releases [See page 3/49](#)
AS Auxiliary switches [See page 3/44](#) FC Fault signal contacts [See page 3/46](#) ST Shunt trips [See page 3/48](#) RC mech. Remote controlled mechanisms [See page 3/50](#)



| 3P 400 V AC 3 MW | | | 3P+N 400 V AC 4 MW | | | 4P 400 V AC 4 MW | | |
|------------------------|-----------|-----------|--------------------------|-----------|-----------|------------------------|-----------|-----------|
| | | | | | | | | |
| Characteristic | | | Characteristic | | | Characteristic | | |
| B | C | D | B | C | D | B | C | D |
| – | 5SY7314-7 | 5SY7314-8 | – | 5SY7614-7 | 5SY7614-8 | – | 5SY7414-7 | 5SY7414-8 |
| – | 5SY7305-7 | 5SY7305-8 | – | 5SY7605-7 | 5SY7605-8 | – | 5SY7405-7 | 5SY7405-8 |
| – | 5SY7301-7 | 5SY7301-8 | – | 5SY7601-7 | 5SY7601-8 | – | 5SY7401-7 | 5SY7401-8 |
| – | 5SY7315-7 | 5SY7315-8 | – | 5SY7615-7 | 5SY7615-8 | – | 5SY7415-7 | 5SY7415-8 |
| – | 5SY7302-7 | 5SY7302-8 | – | 5SY7602-7 | 5SY7602-8 | – | 5SY7402-7 | 5SY7402-8 |
| – | 5SY7303-7 | 5SY7303-8 | – | 5SY7603-7 | 5SY7603-8 | – | 5SY7403-7 | 5SY7403-8 |
| – | 5SY7304-7 | 5SY7304-8 | – | 5SY7604-7 | 5SY7604-8 | – | 5SY7404-7 | 5SY7404-8 |
| 5SY7306-6 | 5SY7306-7 | 5SY7306-8 | 5SY7606-6 | 5SY7606-7 | 5SY7606-8 | 5SY7406-6 | 5SY7406-7 | 5SY7406-8 |
| – | – | – | – | – | – | – | – | – |
| – | 5SY7308-7 | 5SY7308-8 | – | 5SY7608-7 | 5SY7608-8 | – | 5SY7408-7 | 5SY7408-8 |
| 5SY7310-6 | 5SY7310-7 | 5SY7310-8 | 5SY7610-6 | 5SY7610-7 | 5SY7610-8 | 5SY7410-6 | 5SY7410-7 | 5SY7410-8 |
| – | – | – | – | – | – | – | – | – |
| 5SY7313-6 | 5SY7313-7 | 5SY7313-8 | 5SY7613-6 | 5SY7613-7 | 5SY7613-8 | 5SY7413-6 | 5SY7413-7 | 5SY7413-8 |
| 5SY7316-6 | 5SY7316-7 | 5SY7316-8 | 5SY7616-6 | 5SY7616-7 | 5SY7616-8 | 5SY7416-6 | 5SY7416-7 | 5SY7416-8 |
| 5SY7320-6 | 5SY7320-7 | 5SY7320-8 | 5SY7620-6 | 5SY7620-7 | 5SY7620-8 | 5SY7420-6 | 5SY7420-7 | 5SY7420-8 |
| 5SY7325-6 | 5SY7325-7 | 5SY7325-8 | 5SY7625-6 | 5SY7625-7 | 5SY7625-8 | 5SY7425-6 | 5SY7425-7 | 5SY7425-8 |
| 5SY7332-6 | 5SY7332-7 | 5SY7332-8 | 5SY7632-6 | 5SY7632-7 | 5SY7632-8 | 5SY7432-6 | 5SY7432-7 | 5SY7432-8 |
| 5SY7340-6 | 5SY7340-7 | 5SY7340-8 | 5SY7640-6 | 5SY7640-7 | 5SY7640-8 | 5SY7440-6 | 5SY7440-7 | 5SY7440-8 |
| 5SY7350-6 | 5SY7350-7 | 5SY7350-8 | 5SY7650-6 | 5SY7650-7 | 5SY7650-8 | 5SY7450-6 | 5SY7450-7 | 5SY7450-8 |
| 5SY7363-6 | 5SY7363-7 | 5SY7363-8 | 5SY7663-6 | 5SY7663-7 | 5SY7663-8 | 5SY7463-6 | 5SY7463-7 | 5SY7463-8 |

Accessories

| Auxiliary switches (AS) | | Article No. | Undervoltage releases (UR) | | Article No. |
|---|----------------------------|--------------------|---|--------------------------------|--------------------|
| 1 NO + 1 NC | Standard | 5ST3010 | With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | For low power | 5ST3013 | | 110 V DC | 5ST3041 |
| | For low power (with diode) | 5ST3013-0XX01 | | 24 V DC | 5ST3042 |
| 2 NO | Standard | 5ST3011 | Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | For low power | 5ST3014 | | 110 V DC | 5ST3044 |
| 2 NC | Standard | 5ST3012 | | 24 V DC | 5ST3045 |
| | For low power | 5ST3015 | Remote controlled mechanisms (RC mech.) | | Article No. |
| 1 CO | Standard | 5ST3016 | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| Fault signal contacts (FC) | | Article No. | | 177 ... 270 V AC | 5ST3054 |
| 1 NO + 1 NC | | 5ST3020 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| 2 NO | | 5ST3021 | | 177 ... 270 V AC | 5ST3056 |
| 2 NC | | 5ST3022 | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | | 177 ... 270 V AC | 5ST3058 |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Shunt trip (ST) | | Article No. | Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | 1–2 MW | | 5ST3820-1 |
| 24 ... 48 V AC/DC | | 5ST3031 | 3–4 MW | | 5ST3820-2 |
| 12 V DC new | | 5ST3031-0XX01 | Arc fault detection devices (AFDD) | | Article No. |
| | | | For basic units 1P+N (2 MW) | I_n up to 16 A | 5SM6021-2 |
| | | | | I_n up to 40 A | 5SM6024-2 |

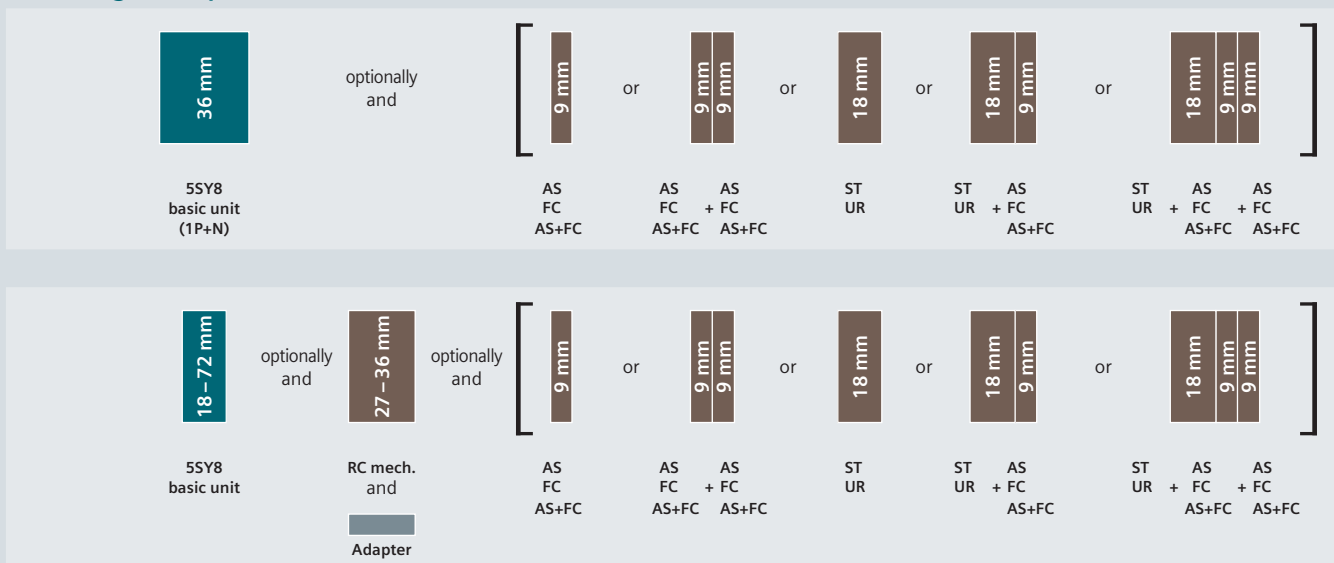
5SY8 miniature circuit breakers

25 kA

3

| Mounting width | 1P 230/400 V AC | | 1P+N 230 V AC | | 2P 400 V AC | | 3P 400 V AC | |
|------------------------------|--------------------|-----------|------------------|-----------|----------------|-----------|----------------|-----------|
| | 1 MW | | 2 MW | | 2 MW | | 3 MW | |
| | | | | | | | | |
| Rated current I _n | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | C | D | C | D | C | D | C | D |
| 0.3 A | 5SY8114-7 | 5SY8114-8 | 5SY8514-7 | 5SY8514-8 | 5SY8214-7 | 5SY8214-8 | 5SY8314-7 | 5SY8314-8 |
| 0.5 A | 5SY8105-7 | 5SY8105-8 | 5SY8505-7 | 5SY8505-8 | 5SY8205-7 | 5SY8205-8 | 5SY8305-7 | 5SY8305-8 |
| 1 A | 5SY8101-7 | 5SY8101-8 | 5SY8501-7 | 5SY8501-8 | 5SY8201-7 | 5SY8201-8 | 5SY8301-7 | 5SY8301-8 |
| 1.6 A | 5SY8115-7 | 5SY8115-8 | 5SY8515-7 | 5SY8515-8 | 5SY8215-7 | 5SY8215-8 | 5SY8315-7 | 5SY8315-8 |
| 2 A | 5SY8102-7 | 5SY8102-8 | 5SY8502-7 | 5SY8502-8 | 5SY8202-7 | 5SY8202-8 | 5SY8302-7 | 5SY8302-8 |
| 3 A | 5SY8103-7 | 5SY8103-8 | 5SY8503-7 | 5SY8503-8 | 5SY8203-7 | 5SY8203-8 | 5SY8303-7 | 5SY8303-8 |
| 4 A | 5SY8104-7 | 5SY8104-8 | 5SY8504-7 | 5SY8504-8 | 5SY8204-7 | 5SY8204-8 | 5SY8304-7 | 5SY8304-8 |
| 6 A | 5SY8106-7 | 5SY8106-8 | 5SY8506-7 | 5SY8506-8 | 5SY8206-7 | 5SY8206-8 | 5SY8306-7 | 5SY8306-8 |
| 8 A | 5SY8108-7 | 5SY8108-8 | 5SY8508-7 | 5SY8508-8 | 5SY8208-7 | 5SY8208-8 | 5SY8308-7 | 5SY8308-8 |
| 10 A | 5SY8110-7 | 5SY8110-8 | 5SY8510-7 | 5SY8510-8 | 5SY8210-7 | 5SY8210-8 | 5SY8310-7 | 5SY8310-8 |
| 12.5 A | – | – | – | – | – | – | – | – |
| 13 A | 5SY8113-7 | 5SY8113-8 | 5SY8513-7 | 5SY8513-8 | 5SY8213-7 | 5SY8213-8 | 5SY8313-7 | 5SY8313-8 |
| 16 A | 5SY8116-7 | 5SY8116-8 | 5SY8516-7 | 5SY8516-8 | 5SY8216-7 | 5SY8216-8 | 5SY8316-7 | 5SY8316-8 |
| 20 A | 5SY8120-7 | 5SY8120-8 | 5SY8520-7 | 5SY8520-8 | 5SY8220-7 | 5SY8220-8 | 5SY8320-7 | 5SY8320-8 |
| 25 A | 5SY8125-7 | 5SY8125-8 | 5SY8525-7 | 5SY8525-8 | 5SY8225-7 | 5SY8225-8 | 5SY8325-7 | 5SY8325-8 |
| 32 A | 5SY8132-7 | 5SY8132-8 | 5SY8532-7 | 5SY8532-8 | 5SY8232-7 | 5SY8232-8 | 5SY8332-7 | 5SY8332-8 |
| 40 A | 5SY8140-7 | 5SY8140-8 | 5SY8540-7 | 5SY8540-8 | 5SY8240-7 | 5SY8240-8 | 5SY8340-7 | 5SY8340-8 |
| 50 A | 5SY8150-7 | 5SY8150-8 | 5SY8550-7 | 5SY8550-8 | 5SY8250-7 | 5SY8250-8 | 5SY8350-7 | 5SY8350-8 |
| 63 A | 5SY8163-7 | 5SY8163-8 | 5SY8563-7 | 5SY8563-8 | 5SY8263-7 | 5SY8263-8 | 5SY8363-7 | 5SY8363-8 |

Mounting concept



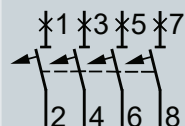
AFDD Arc fault detection devices [See page 3/51](#) AS+FC Auxiliary switches and fault signal contacts [See page 3/47](#) UR Undervoltage releases [See page 3/49](#)
AS Auxiliary switches [See page 3/44](#) FC Fault signal contacts [See page 3/46](#) ST Shunt trips [See page 3/48](#) RC mech. Remote controlled mechanisms [See page 3/50](#)



3P+N
400 V AC
4 MW



4P
400 V AC
4 MW



Characteristic

C

D

Characteristic

C

D

| | | | |
|-----------|-----------|-----------|-----------|
| 5SY8614-7 | 5SY8614-8 | 5SY8414-7 | 5SY8414-8 |
| 5SY8605-7 | 5SY8605-8 | 5SY8405-7 | 5SY8405-8 |
| 5SY8601-7 | 5SY8601-8 | 5SY8401-7 | 5SY8401-8 |
| 5SY8615-7 | 5SY8615-8 | 5SY8415-7 | 5SY8415-8 |
| 5SY8602-7 | 5SY8602-8 | 5SY8402-7 | 5SY8402-8 |
| 5SY8603-7 | 5SY8603-8 | 5SY8403-7 | 5SY8403-8 |
| 5SY8604-7 | 5SY8604-8 | 5SY8404-7 | 5SY8404-8 |
| 5SY8606-7 | 5SY8606-8 | 5SY8406-7 | 5SY8406-8 |
| 5SY8608-7 | 5SY8608-8 | 5SY8408-7 | 5SY8408-8 |
| 5SY8610-7 | 5SY8610-8 | 5SY8410-7 | 5SY8410-8 |
| – | – | – | – |
| 5SY8613-7 | 5SY8613-8 | 5SY8413-7 | 5SY8413-8 |
| 5SY8616-7 | 5SY8616-8 | 5SY8416-7 | 5SY8416-8 |
| 5SY8620-7 | 5SY8620-8 | 5SY8420-7 | 5SY8420-8 |
| 5SY8625-7 | 5SY8625-8 | 5SY8425-7 | 5SY8425-8 |
| 5SY8632-7 | 5SY8632-8 | 5SY8432-7 | 5SY8432-8 |
| 5SY8640-7 | 5SY8640-8 | 5SY8440-7 | 5SY8440-8 |
| 5SY8650-7 | 5SY8650-8 | 5SY8450-7 | 5SY8450-8 |
| 5SY8663-7 | 5SY8663-8 | 5SY8463-7 | 5SY8463-8 |

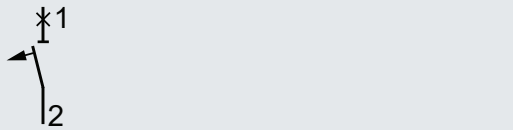
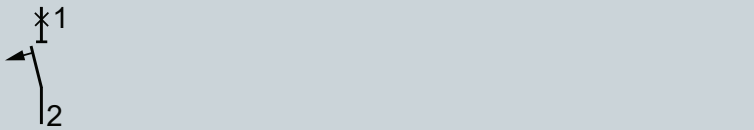
Accessories

| Auxiliary switches (AS) | Article No. |
|--|---|
| 1 NO + 1 NC | Standard 5ST3010 |
| | For low power 5ST3013 |
| | For low power (with diode) 5ST3013-0XX01 |
| 2 NO | Standard 5ST3011 |
| | For low power 5ST3014 |
| 2 NC | Standard 5ST3012 |
| | For low power 5ST3015 |
| 1 CO | Standard 5ST3016 |
| Fault signal contacts (FC) | Article No. |
| 1 NO + 1 NC | 5ST3020 |
| 2 NO | 5ST3021 |
| 2 NC | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | Article No. |
| 1 CO (AS) + 1 CO (FC) | 5ST3062 |
| Shunt trip (ST) | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030 |
| 24 ... 48 V AC/DC | 5ST3031 |
| 12 V DC new | 5ST3031-0XX01 |

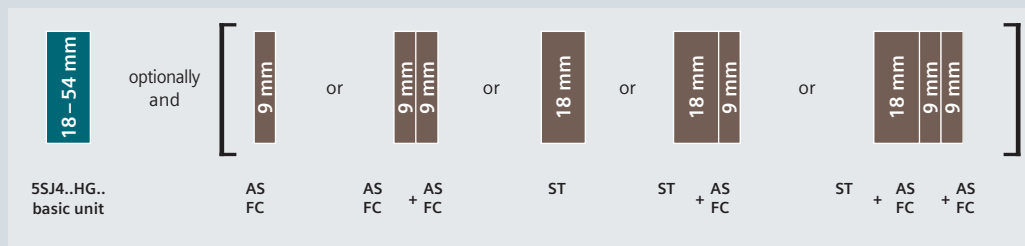
| Undervoltage releases (UR) | Article No. |
|--|--|
| With integrated auxiliary switch | 230 V AC 110 V DC 24 V DC |
| | 5ST3040 5ST3041 5ST3042 |
| Without integrated auxiliary switch | 230 V AC 110 V DC 24 V DC |
| | 5ST3043 5ST3044 5ST3045 |
| Remote controlled mechanisms (RC mech.) | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC 177 ... 270 V AC |
| | 5ST3053 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC 177 ... 270 V AC |
| | 5ST3055 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC 177 ... 270 V AC |
| | 5ST3057 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC |
| | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | Article No. |
| 1–2 MW | 5ST3820-1 |
| 3–4 MW | 5ST3820-2 |

5SJ4..HG.. miniature circuit breakers

According to UL489, 14/10 kA

| Mounting width | 1P "same polarity only" 240 V AC | | | 1P 240 V AC | | | 480Y/277 V AC | | 240 V AC | | 480Y/277 V AC | |
|------------------------------|---|---------------|---------------|--|---------------|---------------|---------------|------|----------|------|---------------|------|
| | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW | 1 MW |
| |  | | |  | | | | | | | | |
| Rated current I _n | Characteristic | | | Characteristic | | | | | | | | |
| | B | C | D | C | C | D | D | | | | | |
| 0.3 A | – | 5SJ4114-7HG40 | 5SJ4114-8HG40 | 5SJ4114-7HG41 | 5SJ4114-7HG42 | 5SJ4114-8HG41 | 5SJ4114-8HG42 | | | | | |
| 0.5 A | – | 5SJ4105-7HG40 | 5SJ4105-8HG40 | 5SJ4105-7HG41 | 5SJ4105-7HG42 | 5SJ4105-8HG41 | 5SJ4105-8HG42 | | | | | |
| 1 A | – | 5SJ4101-7HG40 | 5SJ4101-8HG40 | 5SJ4101-7HG41 | 5SJ4101-7HG42 | 5SJ4101-8HG41 | 5SJ4101-8HG42 | | | | | |
| 1.6 A | – | 5SJ4115-7HG40 | 5SJ4115-8HG40 | 5SJ4115-7HG41 | 5SJ4115-7HG42 | 5SJ4115-8HG41 | 5SJ4115-8HG42 | | | | | |
| 2 A | – | 5SJ4102-7HG40 | 5SJ4102-8HG40 | 5SJ4102-7HG41 | 5SJ4102-7HG42 | 5SJ4102-8HG41 | 5SJ4102-8HG42 | | | | | |
| 3 A | – | 5SJ4103-7HG40 | 5SJ4103-8HG40 | 5SJ4103-7HG41 | 5SJ4103-7HG42 | 5SJ4103-8HG41 | 5SJ4103-8HG42 | | | | | |
| 4 A | – | 5SJ4104-7HG40 | 5SJ4104-8HG40 | 5SJ4104-7HG41 | 5SJ4104-7HG42 | 5SJ4104-8HG41 | 5SJ4104-8HG42 | | | | | |
| 5 A | – | 5SJ4111-7HG40 | 5SJ4111-8HG40 | 5SJ4111-7HG41 | 5SJ4111-7HG42 | 5SJ4111-8HG41 | 5SJ4111-8HG42 | | | | | |
| 6 A | 5SJ4106-6HG40 | 5SJ4106-7HG40 | 5SJ4106-8HG40 | 5SJ4106-7HG41 | 5SJ4106-7HG42 | 5SJ4106-8HG41 | 5SJ4106-8HG42 | | | | | |
| 8 A | – | 5SJ4108-7HG40 | 5SJ4108-8HG40 | 5SJ4108-7HG41 | 5SJ4108-7HG42 | 5SJ4108-8HG41 | 5SJ4108-8HG42 | | | | | |
| 10 A | 5SJ4110-6HG40 | 5SJ4110-7HG40 | 5SJ4110-8HG40 | 5SJ4110-7HG41 | 5SJ4110-7HG42 | 5SJ4110-8HG41 | 5SJ4110-8HG42 | | | | | |
| 13 A | 5SJ4113-6HG40 | 5SJ4113-7HG40 | 5SJ4113-8HG40 | 5SJ4113-7HG41 | 5SJ4113-7HG42 | 5SJ4113-8HG41 | 5SJ4113-8HG42 | | | | | |
| 15 A | 5SJ4118-6HG40 | 5SJ4118-7HG40 | 5SJ4118-8HG40 | 5SJ4118-7HG41 | 5SJ4118-7HG42 | 5SJ4118-8HG41 | 5SJ4118-8HG42 | | | | | |
| 16 A | 5SJ4116-6HG40 | 5SJ4116-7HG40 | 5SJ4116-8HG40 | 5SJ4116-7HG41 | 5SJ4116-7HG42 | 5SJ4116-8HG41 | 5SJ4116-8HG42 | | | | | |
| 20 A | 5SJ4120-6HG40 | 5SJ4120-7HG40 | 5SJ4120-8HG40 | 5SJ4120-7HG41 | 5SJ4120-7HG42 | 5SJ4120-8HG41 | 5SJ4120-8HG42 | | | | | |
| 25 A | 5SJ4125-6HG40 | 5SJ4125-7HG40 | 5SJ4125-8HG40 | 5SJ4125-7HG41 | 5SJ4125-7HG42 | 5SJ4125-8HG41 | 5SJ4125-8HG42 | | | | | |
| 30 A | 5SJ4130-6HG40 | 5SJ4130-7HG40 | 5SJ4130-8HG40 | 5SJ4130-7HG41 | 5SJ4130-7HG42 | 5SJ4130-8HG41 | 5SJ4130-8HG42 | | | | | |
| 32 A | 5SJ4132-6HG40 | 5SJ4132-7HG40 | 5SJ4132-8HG40 | 5SJ4132-7HG41 | 5SJ4132-7HG42 | 5SJ4132-8HG41 | 5SJ4132-8HG42 | | | | | |
| 35 A | 5SJ4135-6HG40 | 5SJ4135-7HG40 | 5SJ4135-8HG40 | 5SJ4135-7HG41 | 5SJ4135-7HG42 | 5SJ4135-8HG41 | – | | | | | |
| 40 A | 5SJ4140-6HG40 | 5SJ4140-7HG40 | 5SJ4140-8HG40 | 5SJ4140-7HG41 | 5SJ4140-7HG42 | 5SJ4140-8HG41 | – | | | | | |
| 45 A | 5SJ4145-6HG40 | 5SJ4145-7HG40 | 5SJ4145-8HG40 | 5SJ4145-7HG41 | – | 5SJ4145-8HG41 | – | | | | | |
| 50 A | 5SJ4150-6HG40 | 5SJ4150-7HG40 | 5SJ4150-8HG40 | 5SJ4150-7HG41 | – | 5SJ4150-8HG41 | – | | | | | |
| 60 A | 5SJ4160-6HG40 | 5SJ4160-7HG40 | 5SJ4160-8HG40 | 5SJ4160-7HG41 | – | 5SJ4160-8HG41 | – | | | | | |
| 63 A | 5SJ4163-6HG40 | 5SJ4163-7HG40 | 5SJ4163-8HG40 | 5SJ4163-7HG41 | – | 5SJ4163-8HG41 | – | | | | | |

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 ST Shunt trip

[See page 3/44](#)

[See page 3/46](#)

[See page 3/48](#)



| 2P | | | | 3P | | | | |
|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|
| 240 V AC | | 480Y/277 V AC | 240 V AC | 240 V AC | | 480Y/277 V AC | 240 V AC | 480Y/277 V AC |
| 2 MW | | | | 3 MW | | | | |
| | | | | | | | | |
| Characteristic | | | | Characteristic | | | | |
| C | C | D | D | C | C | D | D | |
| 5SJ4214-7HG41 | 5SJ4214-7HG42 | 5SJ4214-8HG41 | 5SJ4214-8HG42 | 5SJ4314-7HG41 | 5SJ4314-7HG42 | 5SJ4314-8HG41 | 5SJ4314-8HG42 | |
| 5SJ4205-7HG41 | 5SJ4205-7HG42 | 5SJ4205-8HG41 | 5SJ4205-8HG42 | 5SJ4305-7HG41 | 5SJ4305-7HG42 | 5SJ4305-8HG41 | 5SJ4305-8HG42 | |
| 5SJ4201-7HG41 | 5SJ4201-7HG42 | 5SJ4201-8HG41 | 5SJ4201-8HG42 | 5SJ4301-7HG41 | 5SJ4301-7HG42 | 5SJ4301-8HG41 | 5SJ4301-8HG42 | |
| 5SJ4215-7HG41 | 5SJ4215-7HG42 | 5SJ4215-8HG41 | 5SJ4215-8HG42 | 5SJ4315-7HG41 | 5SJ4315-7HG42 | 5SJ4315-8HG41 | 5SJ4315-8HG42 | |
| 5SJ4202-7HG41 | 5SJ4202-7HG42 | 5SJ4202-8HG41 | 5SJ4202-8HG42 | 5SJ4302-7HG41 | 5SJ4302-7HG42 | 5SJ4302-8HG41 | 5SJ4302-8HG42 | |
| 5SJ4203-7HG41 | 5SJ4203-7HG42 | 5SJ4203-8HG41 | 5SJ4203-8HG42 | 5SJ4303-7HG41 | 5SJ4303-7HG42 | 5SJ4303-8HG41 | 5SJ4303-8HG42 | |
| 5SJ4204-7HG41 | 5SJ4204-7HG42 | 5SJ4204-8HG41 | 5SJ4204-8HG42 | 5SJ4304-7HG41 | 5SJ4304-7HG42 | 5SJ4304-8HG41 | 5SJ4304-8HG42 | |
| 5SJ4211-7HG41 | 5SJ4211-7HG42 | 5SJ4211-8HG41 | 5SJ4211-8HG42 | 5SJ4311-7HG41 | 5SJ4311-7HG42 | 5SJ4311-8HG41 | 5SJ4311-8HG42 | |
| 5SJ4206-7HG41 | 5SJ4206-7HG42 | 5SJ4206-8HG41 | 5SJ4206-8HG42 | 5SJ4306-7HG41 | 5SJ4306-7HG42 | 5SJ4306-8HG41 | 5SJ4306-8HG42 | |
| 5SJ4208-7HG41 | 5SJ4208-7HG42 | 5SJ4208-8HG41 | 5SJ4208-8HG42 | 5SJ4308-7HG41 | 5SJ4308-7HG42 | 5SJ4308-8HG41 | 5SJ4308-8HG42 | |
| 5SJ4210-7HG41 | 5SJ4210-7HG42 | 5SJ4210-8HG41 | 5SJ4210-8HG42 | 5SJ4310-7HG41 | 5SJ4310-7HG42 | 5SJ4310-8HG41 | 5SJ4310-8HG42 | |
| 5SJ4213-7HG41 | 5SJ4213-7HG42 | 5SJ4213-8HG41 | 5SJ4213-8HG42 | 5SJ4313-7HG41 | 5SJ4313-7HG42 | 5SJ4313-8HG41 | 5SJ4313-8HG42 | |
| 5SJ4218-7HG41 | 5SJ4218-7HG42 | 5SJ4218-8HG41 | 5SJ4218-8HG42 | 5SJ4318-7HG41 | 5SJ4318-7HG42 | 5SJ4318-8HG41 | 5SJ4318-8HG42 | |
| 5SJ4216-7HG41 | 5SJ4216-7HG42 | 5SJ4216-8HG41 | 5SJ4216-8HG42 | 5SJ4316-7HG41 | 5SJ4316-7HG42 | 5SJ4316-8HG41 | 5SJ4316-8HG42 | |
| 5SJ4220-7HG41 | 5SJ4220-7HG42 | 5SJ4220-8HG41 | 5SJ4220-8HG42 | 5SJ4320-7HG41 | 5SJ4320-7HG42 | 5SJ4320-8HG41 | 5SJ4320-8HG42 | |
| 5SJ4225-7HG41 | 5SJ4225-7HG42 | 5SJ4225-8HG41 | 5SJ4225-8HG42 | 5SJ4325-7HG41 | 5SJ4325-7HG42 | 5SJ4325-8HG41 | 5SJ4325-8HG42 | |
| 5SJ4230-7HG41 | 5SJ4230-7HG42 | 5SJ4230-8HG41 | 5SJ4230-8HG42 | 5SJ4330-7HG41 | 5SJ4330-7HG42 | 5SJ4330-8HG41 | 5SJ4330-8HG42 | |
| 5SJ4232-7HG41 | 5SJ4232-7HG42 | 5SJ4232-8HG41 | 5SJ4232-8HG42 | 5SJ4332-7HG41 | 5SJ4332-7HG42 | 5SJ4332-8HG41 | 5SJ4332-8HG42 | |
| 5SJ4235-7HG41 | 5SJ4235-7HG42 | 5SJ4235-8HG41 | – | 5SJ4335-7HG41 | 5SJ4335-7HG42 | 5SJ4335-8HG41 | – | |
| 5SJ4240-7HG41 | 5SJ4240-7HG42 | 5SJ4240-8HG41 | – | 5SJ4340-7HG41 | 5SJ4340-7HG42 | 5SJ4340-8HG41 | – | |
| 5SJ4245-7HG41 | – | 5SJ4245-8HG41 | – | 5SJ4345-7HG41 | – | 5SJ4345-8HG41 | – | |
| 5SJ4250-7HG41 | – | 5SJ4250-8HG41 | – | 5SJ4350-7HG41 | – | 5SJ4350-8HG41 | – | |
| 5SJ4260-7HG41 | – | 5SJ4260-8HG41 | – | 5SJ4360-7HG41 | – | 5SJ4360-8HG41 | – | |
| 5SJ4263-7HG41 | – | 5SJ4263-8HG41 | – | 5SJ4363-7HG41 | – | 5SJ4363-8HG41 | – | |

Accessories

| Auxiliary switches (AS) acc. to UL 489 | Article No. |
|---|-------------|
| 1 NO + 1 NC | 5ST3010-OHG |
| 2 NO | 5ST3011-OHG |
| 2 NC | 5ST3012-OHG |
| Fault signal contacts (FC) acc. to UL 489 | Article No. |
| 1 NO + 1 NC | 5ST3020-OHG |
| 2 NO | 5ST3021-OHG |
| 2 NC | 5ST3022-OHG |
| Shunt trip (ST) acc. to UL 489 | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030-OHG |
| 24 ... 48 V AC/DC | 5ST3031-OHG |

5SP3 selective main miniature circuit breakers (SHU)

25 kA, mounting on a 40 mm busbar



| Mounting width | 1P 230/400 V AC | | | | 3 × 1P 230/400 V AC | |
|------------------------------|--------------------|---------------|---------------|--------------|------------------------|--|
| | 1.5 MW | | | | 4.5 MW | |
| | | | | | | |
| Rated current I _n | Characteristic E | | | | Characteristic E | |
| | L1 | L2 | L3 | L1 + L2 + L3 | | |
| 16 A | 5SP3716-2KK01 | 5SP3716-2KK02 | 5SP3716-2KK03 | 5SP3716-2 | 5SP3816-2 | |
| 20 A | 5SP3720-2KK01 | 5SP3720-2KK02 | 5SP3720-2KK03 | 5SP3720-2 | 5SP3820-2 | |
| 25 A | 5SP3725-2KK01 | 5SP3725-2KK02 | 5SP3725-2KK03 | 5SP3725-2 | 5SP3825-2 | |
| 35 A | 5SP3735-2KK01 | 5SP3735-2KK02 | 5SP3735-2KK03 | 5SP3735-2 | 5SP3835-2 | |
| 40 A | 5SP3740-2KK01 | 5SP3740-2KK02 | 5SP3740-2KK03 | 5SP3740-2 | 5SP3840-2 | |
| 50 A | 5SP3750-2KK01 | 5SP3750-2KK02 | 5SP3750-2KK03 | 5SP3750-2 | 5SP3850-2 | |
| 63 A | 5SP3763-2KK01 | 5SP3763-2KK02 | 5SP3763-2KK03 | 5SP3763-2 | 5SP3863-2 | |

25 kA, mounting on a 40 mm busbar

| Mounting width | 3 × 1P 230/400 V AC | |
|------------------------------|------------------------|--|
| | 4.5 MW | |
| | | |
| Rated current I _n | Characteristic E | |
| | | |
| 80 A | 5SP3780-1 | |
| 100 A | 5SP3791-1 | |



Specific accessories

Busbar adapters



- For fitting 5SP37...-1 SHU circuit breakers
- Plug-on

Busbar spacing
40 mm

Article No.
5ST1328

Breaker blocking covers



Purpose

To prevent manual switching OFF

Article No.
5ST1318

Operating protective covers (spare part)



- Multiple locking options against accidental and intentional operation
 - With padlock
 - With Phillips screwdriver
 - With special wrench (Antilux)
 - These can be installed by the operator or the power utility
- 3 units included with the main miniature circuit breaker (SHU) 5SP37...-1

Version

Transparent

Article No.
5ST1323

Terminal covers


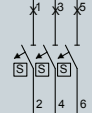
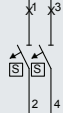

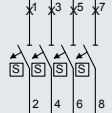


- Terminal covers in compliance with cladding dimensions acc. to DIN 43880
- 2 units required per device

Article No.
5ST1316




25 kA, mounting on a mounting rail

| | 1P 230/400 V AC | 3 × 1P 230/400 V AC | 2P 230/400 V AC | 3P 230/400 V AC | 4P 230/400 V AC |
|------------------------------|---|---|---|---|---|
| Mounting width | 1.5 MW  | 4.5 MW  | 3 MW  | 4.5 MW  | 6 MW  |
| Rated current I _n | Characteristic E | Characteristic E | Characteristic E | Characteristic E | Characteristic E |
| 16 A | 5SP3716-3 | 5SP3816-3 | 5SP3216-3 | 5SP3316-3 | 5SP3416-3 |
| 20 A | 5SP3720-3 | 5SP3820-3 | 5SP3220-3 | 5SP3320-3 | 5SP3420-3 |
| 25 A | 5SP3725-3 | 5SP3825-3 | 5SP3225-3 | 5SP3325-3 | 5SP3425-3 |
| 35 A | 5SP3735-3 | 5SP3835-3 | 5SP3235-3 | 5SP3335-3 | 5SP3435-3 |
| 40 A | 5SP3740-3 | 5SP3840-3 | 5SP3240-3 | 5SP3340-3 | 5SP3440-3 |
| 50 A | 5SP3750-3 | 5SP3850-3 | 5SP3250-3 | 5SP3350-3 | 5SP3450-3 |
| 63 A | 5SP3763-3 | 5SP3863-3 | 5SP3263-3 | 5SP3363-3 | 5SP3463-3 |

3

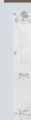
25 kA, mounting on a mounting rail or 40 mm busbar



| | 1P 230/400 V AC |
|------------------------------|---|
| Mounting width | 1.5 MW  |
| Rated current I _n | Characteristic E |
| 80 A | 5SP3780 |
| 100 A | 5SP3791 |

Specific accessories

Mounting plates



- For mounting on standard mounting rails according to EN 60715
- For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm

Article No.
5ST1322

Busbar adapters



- For fitting 3 5SP37.. SHU circuit breakers
- Plug-on

Busbar spacing

40 mm

Article No.
5ST1328

Breaker blocking covers



Purpose

To prevent manual switching OFF

Article No.
5ST1318

Operating protective covers (spare part)



- Multiple locking options against accidental and intentional operation
 - With padlock
 - With Phillips screwdriver
 - With special wrench (Antilux)
 - These can be installed by the operator or the power utility

Version

Transparent

Article No.
5ST1323

Terminal covers



- Terminal covers in compliance with cladding dimensions acc. to DIN 43880
- 2 units required per device

Article No.
5ST1316

5SY17 device protection switches

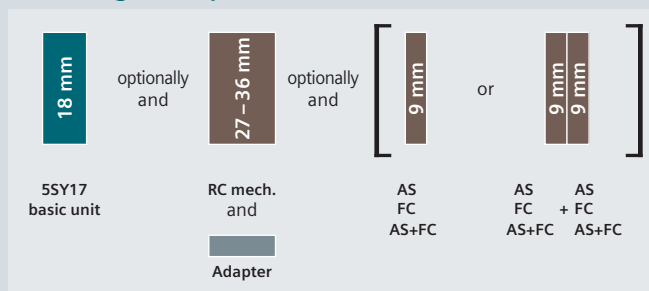
Electromechanical



| 1P+AS | 230 V AC/60 V DC | 230 V AC/60 V DC |
|----------------|------------------|------------------|
| Mounting width | 1 MW (18 mm) | |
| | | |

| Rated current I_n | Characteristic | |
|---------------------|----------------|-----------|
| | F1 (quick) | F2 (slow) |
| 0.5 A | 5SY1705-2 | 5SY1705-4 |
| 1 A | 5SY1701-2 | 5SY1701-4 |
| 2 A | 5SY1702-2 | 5SY1702-4 |
| 4 A | 5SY1704-2 | 5SY1704-4 |
| 6 A | 5SY1706-2 | 5SY1706-4 |
| 8 A | 5SY1708-2 | 5SY1708-4 |
| 10 A | 5SY1710-2 | 5SY1710-4 |
| 16 A | 5SY1716-2 | 5SY1716-4 |

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

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[See page 3/46](#)
[See page 3/47](#)
[See page 3/50](#)

Accessories

| Auxiliary switches (AS) | | Article No. |
|----------------------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| | Standard | 5ST3016 |
| 1 CO | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |

| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
|--|--------------------------------|-------------|
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| Remote controlled mechanisms (RC mech.) | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| Power | 177 ... 270 V AC | 5ST3056 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Power with ARD | 177 ... 270 V AC | 5ST3058 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapters for remote controlled mechanisms (RC mech.) | | Article No. |
| 1 MW | | 5ST3820-6 |

5SK9 device protection switches

Electronic



| | |
|----------------|----------------|
| | 1P+AS |
| | 24 V DC |
| Mounting width | 6.2 mm |
| | |

| Rated current I_n | |
|---------------------|-----------|
| 1 A | 5SK9101-1 |
| 2 A | 5SK9102-1 |
| 3 A | 5SK9103-1 |
| 4 A | 5SK9104-1 |
| 6 A | 5SK9106-1 |
| 8 A | 5SK9108-1 |

3

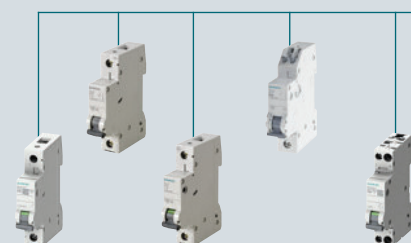
Specific accessories

| Connecting combs | | | |
|---|----------------------------------|------------------------|---|
| | Variant | Number of poles | Max. load current I_{max} |
| | For parallel infeed | 2-pole | 24 A |
| | | | 32 A |
| | | 5-pole | 24 A |
| | | | 32 A |
| | For remote signal – group signal | 2-pole | 32 A |
| | | | 32 A |
| | | | 32 A |
| | | | 32 A |
| Reducing combs for 10 mm ² terminal blocks | | | |
| | Variant | Number of poles | Max. load current I_{max} |
| | For bypassing the power supply | 2-pole | 40 A |
| | | | 40 A |
| | | | 40 A |









Siehe allgemeines Zubehör page 14/57 onwards

Overview of the modular system

Miniature circuit breakers



5SL3 5SL6 5SL4 5SJ6...-KS 5SL30

| | | | Article No. | | | | | |
|---|--|----------------------------------|---------------|---|---|---|---|---|
|  | Auxiliary switches (AS) | | | | | | | |
| | 1 NO + 1 NC | Standard | 5ST3010 | ■ | ■ | ■ | – | ■ |
| | | For low power | 5ST3013 | ■ | ■ | ■ | – | ■ |
| | | For low power (with diode) | 5ST3013-0XX01 | ■ | ■ | ■ | – | ■ |
| | 2 NO | Standard | 5ST3011 | ■ | ■ | ■ | – | ■ |
| For low power | | 5ST3014 | ■ | ■ | ■ | – | ■ | |
| 2 NC | Standard | 5ST3012 | ■ | ■ | ■ | – | ■ | |
| | For low power | 5ST3015 | ■ | ■ | ■ | – | ■ | |
| 1 CO | Standard | 5ST3016 | ■ | ■ | ■ | – | ■ | |
|  | Fault signal contacts (FC) | | | | | | | |
| | 1 NO + 1 NC | Standard | 5ST3020 | ■ | ■ | ■ | – | ■ |
| | | 2 NO | 5ST3021 | ■ | ■ | ■ | – | ■ |
| | | 2 NC | 5ST3022 | ■ | ■ | ■ | – | ■ |
| Auxiliary switches and fault signal contacts (AS+FC) | | Standard | 5ST3062 | ■ | ■ | ■ | – | ■ |
|  | Shunt trip (ST) | | | | | | | |
| | 110 ... 415 V AC, 110 ... 220 V DC | Standard | 5ST3030 | – | – | ■ | – | – |
| | | 24 ... 48 V AC/DC | 5ST3031 | – | – | ■ | – | – |
| | | 12 V DC new | 5ST3031-0XX01 | – | – | ■ | – | – |
| Undervoltage releases (UR) | | | | | | | | |
|  | With integrated auxiliary switch | 230 V AC | 5ST3040 | – | – | ■ | – | – |
| | | 110 V DC | 5ST3041 | – | – | ■ | – | – |
| | | 24 V DC | 5ST3042 | – | – | ■ | – | – |
| | Without integrated auxiliary switch | 230 V AC | 5ST3043 | – | – | ■ | – | – |
| | | 110 V DC | 5ST3044 | – | – | ■ | – | – |
| | | 24 V DC | 5ST3045 | – | – | ■ | – | – |
|  | Remote controlled mechanisms (RC mech.) | | | | | | | |
| | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 | ■ | ■ | □ | – | – |
| | | 177 ... 270 V AC | 5ST3054 | ■ | ■ | □ | – | – |
| | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 | ■ | ■ | □ | – | – |
| | | 177 ... 270 V AC | 5ST3056 | ■ | ■ | □ | – | – |
| | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 | ■ | ■ | □ | – | – |
| | Power with extended function | 177 ... 270 V AC | 5ST3058 | ■ | ■ | □ | – | – |
| 12 ... 30 V AC, 12 ... 48 V DC | | 5ST3070 | ■ | ■ | □ | – | – | |
|  | 5SM6 arc fault detection devices | | | | | | | |
| | Rated current up to 16 A | Standard | 5SM6021-2 | – | – | □ | – | – |
| | | For compact devices 1P+N in 1 MW | 5SM6011-2 | – | – | – | – | – |
| | Rated current up to 40 A | Standard | 5SM6024-2 | – | – | □ | – | – |
| For compact devices 1P+N in 1 MW | | 5SM6014-2 | – | – | – | – | – | |
|  | Standard busbars | | | | | | | |
| | Cannot be cut | Article No. | 5ST36.. | ■ | ■ | ■ | ■ | ■ |
| Can be cut | Article No. | 5ST37.. | ■ | ■ | ■ | ■ | ■ | |
|  | Compact busbars | | | | | | | |
| | Cannot be cut | Article No. | 5ST36.. | □ | □ | □ | – | ■ |
| Can be cut | Article No. | 5ST37.. | □ | □ | □ | – | ■ | |

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■ Suitable for all versions

□ Suitable for some versions

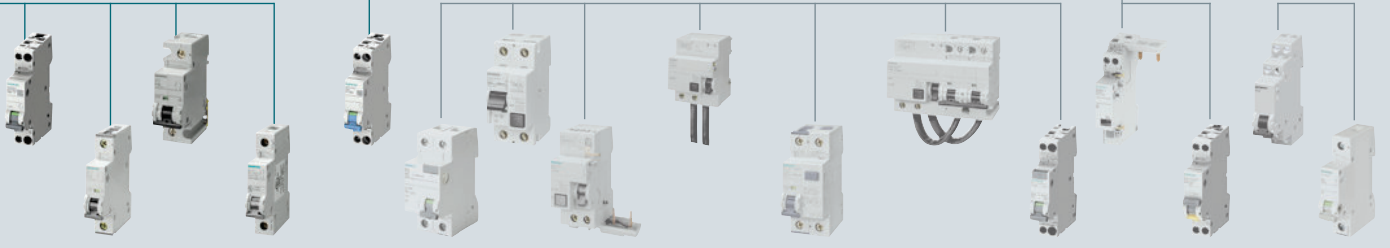
Device protection switches

Arc fault detection devices

Miniature circuit breakers

Residual current protective devices

Switching devices



| 5SL60 | 5SY | 5SP4 | 5SJ4..HG.. | 5SY17 | 5SV | 5SM3 | 5SM2 | 5SM2 (100 A) | 5SU1 | 5SU1 (125 A) | 5SV1 | 5SM6 | 5SV6 | 5TE8 | 5TL |
|-------|-----|------|------------|-------|-----|------|------|--------------|------|--------------|------|------|------|------|-----|
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | - | - |
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | - | - |
| ■ | ■ | ■ | ...-OHG | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | - | - |
| ■ | ■ | ■ | - | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | - | - |
| - | ■ | ■ | ...-OHG | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| - | ■ | ■ | ...-OHG | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| - | ■ | ■ | - | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| - | ■ | ■ | - | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| - | ■ | ■ | - | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| - | ■ | ■ | - | - | ■ | - | ■ | ■ | ■ | ■ | - | □ | - | - | - |
| □ | □ | ■ | - | ■ | - | - | - | - | ■ | - | ■ | - | - | - | ■ |
| □ | □ | ■ | - | ■ | - | - | - | - | ■ | - | ■ | - | - | - | ■ |
| □ | □ | ■ | - | ■ | ■ | - | ■ | - | ■ | - | ■ | - | - | - | ■ |
| □ | □ | ■ | - | ■ | ■ | - | ■ | - | ■ | - | ■ | - | - | - | ■ |
| □ | □ | ■ | - | ■ | ■ | - | ■ | - | ■ | - | ■ | - | - | - | ■ |
| □ | □ | ■ | - | ■ | ■ | - | ■ | - | ■ | - | ■ | - | - | - | ■ |
| - | □ | - | - | - | - | - | - | - | ■ | - | ■ | - | - | - | - |
| □ | - | - | - | - | - | - | - | - | - | - | ■ | - | - | - | - |
| - | □ | - | - | - | - | - | - | - | ■ | - | ■ | - | - | - | - |
| □ | - | - | - | - | - | - | - | - | - | - | ■ | - | - | - | - |
| ■ | ■ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ |
| ■ | - | - | - | ■ | ■ | - | - | - | - | - | ■ | ■ | ■ | - | - |
| ■ | - | - | - | - | ■ | - | - | - | - | - | ■ | ■ | ■ | - | - |

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from page 4/14

from page 4/50

from page 5/6

Electrical accessories



Auxiliary switches (AS)

- Signals the contact position of the mounted device
- Version for the switching of small currents and voltages according to EN 61131-2 for control of programmable control systems (PLCs).
- Test button enables the testing of control circuits without the need to switch the mounted device

| For combining with basic units | | | | | | Contacts | Version | Mounting width (1 MW = 18 mm) | Article No. |
|---|----------------------------|-------|---------------------------|-----------------------------|-----------------|---|----------------------------|----------------------------------|---------------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBOs | Arc fault detection devices | ON/OFF switches | | | | |
| Auxiliary switches (AS) | | | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 5TL1, 5TE8 | 1 NO + 1 NC | Standard | 0.5 MW | 5ST3010 |
| | | | | | | | For low power | 0.5 MW | 5ST3013 |
| | | | | | | | For low power (with diode) | 0.5 MW | 5ST3013-0XX01 |
| | | | | | | 2 NO | Standard | 0.5 MW | 5ST3011 |
| | | | | | | | For low power | 0.5 MW | 5ST3014 |
| | | | | | | 2 NC | Standard | 0.5 MW | 5ST3012 |
| | | | | | | | For low power | 0.5 MW | 5ST3015 |
| | | | | | | 1 CO | Standard | 0.5 MW | 5ST3016 |
| | | | | | | Auxiliary switches (AS) with TEST button | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 5TL1, 5TE8 | 1 NO + 1 NC | Standard | 0.5 MW | 5ST3010-2 |
| | | | | | | | For low power | 0.5 MW | 5ST3013-2 |
| | | | | | | 2 NO | Standard | 0.5 MW | 5ST3011-2 |
| | | | | | | | For low power | 0.5 MW | 5ST3014-2 |
| | | | | | | 2 NC | Standard | 0.5 MW | 5ST3012-2 |
| | | | | | | | For low power | 0.5 MW | 5ST3015-2 |
| Auxiliary switches (AS) acc. to UL 489 | | | | | | | | | |
| 5SJ4...-HG | - | - | - | - | - | 1 NO + 1 NC | Standard | 0.5 MW | 5ST3010-0HG |
| | | | | | | 2 NO | Standard | 0.5 MW | 5ST3011-0HG |
| | | | | | | 2 NC | Standard | 0.5 MW | 5ST3012-0HG |

¹⁾ Handle coupler 5ST3805-1 required

| Further technical specifications | | 5ST3010, 5ST3010-2 5ST3011, 5ST3011-2 5ST3012, 5ST3012-2 | 5ST3013, 5ST3014 5ST3015, 5ST3016 5ST3013-0XX01 | 5ST3013-2 5ST3014-2 5ST3015-2 | 5ST3010-0HG 5ST3011-0HG 5ST3012-0HG |
|---|------------------------|--|---|-------------------------------------|---|
| Standards | | | | | |
| Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 | | | – UL 489, UL-File E321559, CSA 22.2 No. 5-02 |
| Contacts | | | | | |
| Minimum contact load | | 50 mA, 24 V | 1 mA, 5 V DC | 5 mA, 5 V DC | 50 mA, 24 V |
| Maximum contact load | | – | 100 mA, 30 V DC | 30 mA, 30 V DC | – |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A | – | – | 6 A |
| | 400 V AC, AC-14 | 2 A | – | – | 2 A |
| | 24 V DC, DC-13 | 6 A | – | – | 6 A (3 A) |
| | 60 V DC, DC-13 | 3 A | – | – | 3 A (1.5 A) |
| | 110 V DC, DC-13 | 1 A | – | – | 1 A (0.75 A) |
| | 220 V DC, DC-13 | 1 A | – | – | 1 A (0.5 A) |
| Contact load acc. to UL | 120 V AC | – | – | – | 6 A |
| | 240 V AC | – | – | – | 4 A |
| | 277 V AC | – | – | – | 3 A |
| | 480 V AC | – | – | – | 1.5 A |
| | 60 V DC | – | – | – | 3 A |
| | 125 V DC | – | – | – | 1 A |
| Service life, on average, with rated load | Actuations | 20000 | | | 12000 |
| Safety | | | | | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse | | | |
| Connections | | | | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) | | | |
| Terminals | Max. tightening torque | 0.5 Nm (4.5 lb-in) | | | |
| Ambient conditions | | | | | |
| Permissible ambient temperature | | –25 ... +55 °C | | | |
| Permissible storage temperature | | –40 ... +75 °C | | | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | | | |
| Mounting position | | Any | | | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² | | | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² | | | |

Electrical accessories



Fault signal contacts (FC)

- Signals automatic tripping of the protective switching device in the event of a fault, such as an overload or a short circuit
- If the fault signal contact is activated, the contact position does not change if the protective switching device is tripped manually
- Version with TEST and RESET buttons enable the testing of control circuits without operation of the protective switching device
- Red RESET button in the operating handle indicates automatic tripping of the mounted protective switching device

| For combining with basic units | | | | | Contacts | Mounting width (1 MW = 18 mm) | Article No. |
|--|----------------------------|-------|---------------------------|-----------------------------|-------------|----------------------------------|-------------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBOs | Arc fault detection devices | | | |
| Fault signal contacts (FC) | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 NO + 1 NC | 0.5 MW | 5ST3020 |
| | | | | | 2 NO | 0.5 MW | 5ST3021 |
| | | | | | 2 NC | 0.5 MW | 5ST3022 |
| Fault signal contacts (FC) with TEST and RESET button | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 NO + 1 NC | 0.5 MW | 5ST3020-2 |
| | | | | | 2 NO | 0.5 MW | 5ST3021-2 |
| | | | | | 2 NC | 0.5 MW | 5ST3022-2 |
| Fault signal contacts (FC) acc. to UL 489 | | | | | | | |
| 5SJ4...-HG | – | – | – | – | 1 NO + 1 NC | 0.5 MW | 5ST3020-0HG |
| | | | | | 2 NO | 0.5 MW | 5ST3021-0HG |
| | | | | | 2 NC | 0.5 MW | 5ST3022-0HG |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3020, 5ST3020-2
5ST3021, 5ST3021-2
5ST3022, 5ST3022-2

5ST3020-0HG
5ST3021-0HG
5ST3022-0HG

| Standards | | | |
|--|------------------------|--|--|
| Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 | UL 489, UL-File E321559, CSA 22.2 No. 5-02 |
| Contacts | | | |
| Minimum contact load | | 50 mA, 24 V | |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A | |
| | 400 V AC, AC-14 | 2 A | |
| | 24 V DC, DC-13 | 6 A | 6 A (3 A) |
| | 60 V DC, DC-13 | 3 A | 3 A (1.5 A) |
| | 110 V DC, DC-13 | 1 A | 1 A (0.75 A) |
| | 220 V DC, DC-13 | 1 A | 1 A (0.5 A) |
| Contact load acc. to UL | 120 V AC | – | 6 A |
| | 240 V AC | – | 4 A |
| | 277 V AC | – | 3 A |
| | 480 V AC | – | 1.5 A |
| | 60 V DC | – | 3 A |
| | 125 V DC | – | 1 A |
| Service life, on average, with rated load | Actuations | 20000 | 12000 |
| Safety | | | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse | |
| Connections | | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) | |
| Terminals | Max. tightening torque | 0.5 Nm (4.5 lb-in) | |
| Ambient conditions | | | |
| Permissible ambient temperature | | –25 ... +55 °C | |
| Permissible storage temperature | | –40 ... +75 °C | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | |
| Mounting position | | Any | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² | |



Auxiliary switches and fault signal contacts (AS+FC)

- Combines the function of both switches in a width of only 0.5 MW (9 mm).
- Signals the contact position of the mounted device
- Signals automatic tripping of the protective switching device in the event of a fault, such as an overload, a short circuit or a fault current
- If the fault signal contact is activated, the contact position does not change if the protective switching device is tripped manually

| For combining with basic units | | | | | Contacts | Mounting width (1 MW = 18 mm) | Article No. |
|---|----------------------------|-------|---------------------------|-----------------------------|-----------------------|----------------------------------|-------------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBOs | Arc fault detection devices | | | |
| Auxiliary switches and fault signal contacts (AS+FC) | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 CO (AS) + 1 CO (FC) | 0.5 MW | 5ST3062 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3062

| Standards | | |
|--|------------------------|--|
| Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 |
| Contacts | | |
| Minimum contact load | | 50 mA, 24 V |
| Maximum contact load | | – |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A |
| | 400 V AC, AC-14 | 2 A |
| Contact load acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1) | 24 V DC, DC-13 | 3 A (3 A) |
| | 60 V DC, DC-13 | 3 A (1 A) |
| | 110 V DC, DC-13 | 0.5 A (0.5 A) |
| | 220 V DC, DC-13 | 0.5 A (0.3 A) |
| Service life, on average, with rated load | Actuations | 20000 |
| Safety | | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse |
| Connections | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) |
| Terminals | Max. tightening torque | 0.5 Nm (4.5 lb-in) |
| Ambient conditions | | |
| Permissible ambient temperature | | –25 ... +55 °C |
| Permissible storage temperature | | –40 ... +75 °C |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| Mounting position | | Any |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² |

Electrical accessories

Shunt trip (ST)



- For remote-controlled tripping of the mounted device

| For combining with basic units | | | Rated voltage U_n | Mounting width (1 MW = 18 mm) | Article No. |
|---------------------------------------|-------|--------------------|------------------------------------|----------------------------------|---------------|
| Miniature circuit breakers | RCCBs | RCBOs | | | |
| Shunt trip (ST) | | | | | |
| 5SL4, 5SY, 5SP | 5SV | 5SU1 ¹⁾ | 110 ... 415 V AC, 110 ... 220 V DC | 1 MW | 5ST3030 |
| | | | 24 ... 48 V AC/DC | 1 MW | 5ST3031 |
| | | | 12 V DC new | 1 MW | 5ST3031-0XX01 |
| Shunt trip (ST) acc. to UL 489 | | | | | |
| 5SJ4...-HG | - | - | 110 ... 415 V AC, 110 ... 220 V DC | 1 MW | 5ST3030-OHG |
| | | | 24 ... 60 V AC/DC | 1 MW | 5ST3031-OHG |

¹⁾ Handle coupler 5ST3805-1 required

| Further technical specifications | | 5ST3030 | 5ST3031 | 5ST3031-0XX01 | 5ST3030-OHG | 5ST3031-OHG |
|--|--|---------------------|---------|----------------|---|-------------|
| Standards | | | | | | |
| Standards | IEC/EN UL, CSA | EN 60947-1 - | | | IEC/EN 60947-1 UL 489, UL-File E321559, CSA 22.2 No. 5-02 | |
| Supply | | | | | | |
| Primary operating range | 0.7 ... 1.1 × U_n | | | | | |
| Rated frequency f_n | 50 ... 60 Hz | | | - | 50 ... 60 Hz | |
| Contacts | | | | | | |
| Minimum contact load | 50 mA, 24 V | | | 1 mA, 5 V | 50 mA, 24 V | |
| Tripping operations | Max. 2000 | | | | | |
| Service life, on average, with rated load | Actuations | 20000 | | | 12000 | |
| Safety | | | | | | |
| Short-circuit protection | Miniature circuit breaker B/C 6 A or fuse gG 6 A | | | | | |
| Connections | | | | | | |
| Conductor cross-sections | 0.5 ... 2.5 mm ² (AWG 22 ... 14) | | | | | |
| Terminals | Max. tightening torque | 0.8 Nm (6.8 lb-in) | | | | |
| Ambient conditions | | | | | | |
| Permissible ambient temperature | -25 ... +55 °C | | | -40 ... +70 °C | -25 ... +55 °C | |
| Permissible storage temperature | -40 ... +75 °C | | | | | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | | | | |
| Mounting position | Any | | | | | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² | | | | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² | | | | |



Undervoltage releases (UR)

- Integrated, e.g. in EMERGENCY-STOP loops
- Ensure that the mounted device trips in the event of an emergency, which, in turn, ensures disconnection of the control circuit according to EN 60204.
- Trip the mounted device if the voltage is interrupted or too low or prevents the mounted device from closing

| For combining with basic units | | | Rated voltage U_n | Mounting width (1 MW = 18 mm) | Article No. |
|--|-------|--------------------|---------------------|----------------------------------|-------------|
| Miniature circuit breakers | RCCBs | RCBOs | | | |
| With integrated auxiliary switch | | | | | |
| 5SL4, 5SY, 5SP4 | 5SV | 5SU1 ¹⁾ | 230 V AC | 1 MW | 5ST3040 |
| | | | 110 V DC | 1 MW | 5ST3041 |
| | | | 24 V DC | 1 MW | 5ST3042 |
| Without integrated auxiliary switch | | | | | |
| 5SL4, 5SY, 5SP4 | 5SV | 5SU1 ¹⁾ | 230 V AC | 1 MW | 5ST3043 |
| | | | 110 V DC | 1 MW | 5ST3044 |
| | | | 24 V DC | 1 MW | 5ST3045 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST304.

| Standards | | |
|---|------------------------|--|
| Standards | IEC/EN | EN 60947-1 |
| Supply | | |
| Primary operating range | | 0.85 ... 1.1 × U_n |
| Rated frequency f_n | | 50/60 Hz |
| Contacts | | |
| Minimum contact load | | 50 mA, 24 V |
| Tripping operations | | Max. 2000 |
| Service life, on average, with rated load | | 20000 actuations |
| Safety | | |
| Short-circuit protection | | Miniature circuit breaker B/C 6 A or fuse gG 6 A |
| Connections | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) |
| Terminals | Max. tightening torque | 0.8 Nm (6.8 lb-in) |
| Ambient conditions | | |
| Permissible ambient temperature | | -25 ... +55 °C |
| Permissible storage temperature | | -40 ... +75 °C |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| Mounting position | | Any |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² |

Electrical accessories



5ST3 remote controlled mechanisms (RC mech.)

- For locations that are spread out over a wide area or not permanently attended
- Permits direct and immediate access to the installation even if it is remote or in a location that is hard to access
- Permits fast reconnection after a fault
- Version with ARD with automatic restart
- Versions with ARD and Power with integrated auxiliary switches and fault signal contacts

| Type of remote operating mechanism | Display | Ambient temperature | Vibration and shock requirements | Rated voltage U_n | Mounting width (1 MW = 18 mm) | Article No. |
|------------------------------------|---------|---------------------|--|--------------------------------|-------------------------------|-------------|
| Basic | – | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 1.5 MW | 5ST3053 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3054 |
| Power | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3055 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3056 |
| Power with ARD | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3057 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3058 |
| Power with extended function | LED | –40 °C ... +70 °C | Acc. to DIN EN 61373 / DIN EN 50155 "1B" | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3070 |

Further technical specifications

| | 5ST3053 | 5ST3054 | 5ST3055 | 5ST3056 | 5ST3057 | 5ST3058 | 5ST3070 |
|--|---|---------|---------|-------------------------|---------|---------|----------------|
| Standards | | | | | | | |
| Standards | EN 50557 (VDE 0640-20) | | | | | | |
| Supply | | | | | | | |
| Rated frequency f_n | 50 ... 60 Hz | | | | | | |
| Rated power dissipation in standby | ≤1 VA | | | | | | |
| Contacts | | | | | | | |
| Service life, on average, with rated load | Actuations | 10000 | | | | | |
| Number of remote switching operations per minute | 2 | | | | | | |
| Number of automatic reclose attempts | – | | | | | 3 | – |
| Cable length in the control circuit | ≤1500 m | | | | | | |
| Sliding selector with locking device | – | | | | | | |
| Integrated auxiliary switches | – | | | 1W (1CO); 2 A; 250 V | | | |
| Integrated fault signal contact | – | | | 1W (1CO); 2 A; 250 V | | | |
| Connections | | | | | | | |
| Conductor cross-sections | 0.5 ... 1.5 mm ² (AWG 14 ... 30) | | | | | | |
| Terminal tightening torque | 0.2 ... 0.25 Nm (2.0 lb-in) | | | | | | |
| Ambient conditions | | | | | | | |
| Permissible storage temperature | –40 ... +55 °C | | | | | | –40 ... +70 °C |
| Degree of protection | IP20 | | | | | | |
| Pollution degree for overvoltage category | 3/II | | | | | | |

Suitable adapters for combination with miniature circuit breakers



| Basic units | Mounting width | | | Adapters |
|---------------|----------------|--------|--------|-----------|
| | 1–2 MW | 3–4 MW | 3–6 MW | |
| 5SY4/5/6/7/8 | ■ | – | – | 5ST3820-1 |
| | – | ■ | – | 5ST3820-2 |
| 5SL3/4/6 | ■ | – | – | 5ST3820-6 |
| | – | ■ | – | 5ST3820-7 |
| 5SL60 / 5SY17 | ■ | – | – | 5ST3820-6 |
| 5SP4 | ■ | – | – | 5ST3820-1 |
| | – | – | ■ | 5ST3820-2 |



5SM6 arc fault detection devices (AFDD)

- Detects arcing faults
- Offers extremely effective protection against fires started by electrical faults
- Ensures adequate fire protection even in applications without residual current protective device

| For combining with basic units | | | Rated current I _e | Mounting width (1 MW = 18 mm) | Article No. |
|--------------------------------|--|--------|------------------------------|----------------------------------|-------------|
| Width of basic unit | Miniature circuit breakers | RCBOs | | | |
| 1 MW | 5SL60 2-pole (no KL types) | 5SV1 | Up to 16 A | 1 MW | 5SM6011-2 |
| | | | Up to 40 A | 1 MW | 5SM6014-2 |
| 2 MW | 5SY ¹⁾ , 5SL4 (1P+N devices only) | 5SU1.5 | Up to 16 A | 1 MW | 5SM6021-2 |
| | | | Up to 40 A | 1 MW | 5SM6024-2 |

¹⁾ Not for 5SY5, 5SY8, 5SL60 2-pole

Further technical specifications

5SM6

| Standards | | |
|--|--|---|
| Standards | | IEC/EN 62606 |
| Supply | | |
| Rated voltage U _n | | 230 V |
| Rated current I _n | | Up to 16/40 A |
| Rated frequency | | 50 Hz |
| Power loss | | 0.6 W |
| Contacts | | |
| Number of poles | | 2-pole |
| Service life | | Average number of switching cycles >10000 |
| Safety | | |
| Touch protection | | Acc. to EN 50274 (VDE 0660-514) Finger and back-of-hand safe |
| Degree of protection | | Acc. to EN 60529 (VDE 0470-1) IP20, with connected conductors |
| Overvoltage category | | III |
| Tripping in the event of overvoltage | | >275 V |
| Connections | | |
| Terminal/conductor cross-sections | | Solid and stranded 0.75 ... 16 mm ² Finely stranded with end sleeve 0.75 ... 10 mm ² |
| Terminal tightening torque | | 2.0 ... 2.5 Nm |
| Mains connection | | Bottom |
| Ambient conditions | | |
| Permissible ambient temperature | | -25 ... +40 °C |
| Permissible storage temperature | | -40 ... +75 °C |
| Resistance to climate at 95% relative air humidity | | Acc. to IEC 60068-2-30 28 cycles, 55 °C |
| Pollution degree | | 2 |
| CFC and silicone-free | | Yes |
| Mounting position | | Any |

Suitable busbars, page 3/54 onwards

Suitable busbars and end caps, page 3/66 onwards

Mechanical accessories

Mechanical rotary operating mechanisms complete with handle



- For 5SY, 5SP4, 5SL (but not for 5SL.0 1P + N in 1TE), 5TL1, 5TE2, 5TE8, 5SU1

| Versions | Article No. |
|-------------------|-------------|
| Handle black | 5ST3060 |
| Handle red/yellow | 5ST3061 |

Terminal cover



- For miniature circuit breakers, but not for 5SL60..
- For additional covering of the screw openings per pole
- Lockable
- In the case of 5SY, also prevents removal of device from the standard mounting rail

| Article No. |
|-------------|
| 5ST3800 |

Handle locking devices

- To prevent undesired mechanical ON/OFF switching
- Sealable



| For miniature circuit breakers | For padlocks with | Article No. |
|--------------------------------|--------------------|-------------|
| 5SP4, 5SY | Max. 3 mm shackle | 5ST3801 |
| 5SL, 5TL1 | 3 ... 6 mm shackle | 5ST3806 |

Padlocks



- For 5ST3801 and 5ST3806 handle locking devices and remote operating mechanisms 5ST3054 ... 58, 5ST3070

| Article No. |
|-------------|
| 5ST3802 |

Locking devices

- Comprising 5ST3801 or 5ST3806 handle locking device and 5ST3802 padlock




| For miniature circuit breakers | Comprising | Article No. |
|--------------------------------|---|-------------|
| 5SP4 and 5SY | 5ST3801 handle locking device, 5ST3802 padlock | 5ST3803 |
| 5SL, 5SV, 5TL1 | 5ST3806 handle locking device, 5ST3802 padlock | 5ST3807 |

Spacers



- Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing

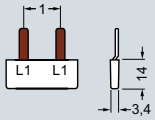
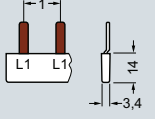
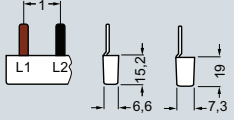
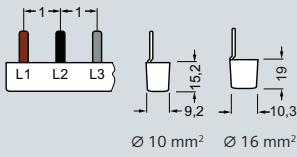
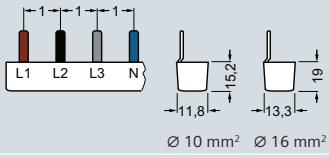
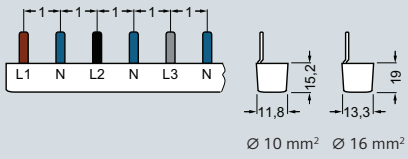
| Mounting width | Article No. |
|----------------|-------------|
| 0.5 MW | 5TG8240 |

| Device labels | | | |
|---|--|------------------------------|---------------|
|  | <ul style="list-style-type: none"> Adhesive For modular installation devices, e.g. 5SY, 5SL, 5TL1 | | |
| | Versions | | Article No. |
| | 15 mm x 6 mm, white (WIN 098) | | 8WH8210-0AA35 |
| 15 mm x 6 mm, yellow (WIN 099) | | 8WH8210-0AA36 | |
| Terminal covers, gray | | | |
|  | <ul style="list-style-type: none"> For surface mounting, degree of protection IP40 Sealable Can be used with 35 mm mounting rail | | |
| | For widths up to | | Article No. |
| | 2.5 MW | | 5SW3004 |
| 4.5 MW | | 5SW3005 | |
| Wall enclosures, gray | | | |
|  | <ul style="list-style-type: none"> For flush mounting, degree of protection IP40 Can be used with 35 mm mounting rail | | |
| | For widths up to | | Article No. |
| | 2.5 MW | | 5SW3006 |
| 4.5 MW | | 5SW3007 | |
| Molded-plastic enclosures, gray | | | |
|  | <ul style="list-style-type: none"> For surface mounting, degree of protection IP54 Sealable Can be used with 35 mm mounting rail With transparent hinged lid | | |
| | For widths up to | | Article No. |
| | 4.5 MW | | 5SW1200 |
| Covers | | | |
|  | <ul style="list-style-type: none"> Can be assembled as mini distribution board Suitable for all devices Cover parts prepared for rail mounting of conventional label caps | | |
| | Comprising | | Article No. |
| | End plate | | 5ST2134 |
| | Angled profile | | 5ST2135 |
| Alternatively flat profile | | 5ST2136 | |
| Holders for front panel installation | | | |
|  | <ul style="list-style-type: none"> Universal use for devices from 1 to 6 MW | | |
| | Cutout height | Cutout width | Article No. |
| | 45 ^{+0.5} mm | 23, 41, 59, 77, 95 or 113 mm | 7LF9006 |
| Intermediate frames | | | |
|  | <ul style="list-style-type: none"> For 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards | | |
| | Versions | | Article No. |
| | 1-tier | | 8GB4561 |
| | 2-tier | | 8GB4562 |
| | 3-tier | | 8GB4563 |
| 4-tier | | 8GB4564 | |

Standard busbars

5ST36, fixed length, cannot be cut

For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section | |
|--|---|-----------|-------------------|-------------------------|--------------------|
| | | | | 10 mm ² | 16 mm ² |
| Single-phase | | | | | |
|  | For 2 MCBs 1P | 2 MW | 33 mm | 5ST3600 | 5ST3630 |
| | For 6 MCBs 1P | 6 MW | 105 mm | 5ST3601 | 5ST3631 |
|  | For 12 MCBs 1P | 12 MW | 212 mm | 5ST3602 | 5ST3632 |
| | | | | | Article No. |
| Two-phase | | | | | |
|  Ø 10 mm ² Ø 16 mm ² | For 2 MCBs 2P | 4 MW | 76 mm | 5ST3606 | 5ST3636 |
| | For 3 MCBs 2P | 6 MW | 105 mm | 5ST3607 | 5ST3637 |
| | For 6 MCBs 2P | 12 MW | 210 mm | 5ST3608 | 5ST3638 |
| | | | | Article No. | Article No. |
| Three-phase | | | | | |
|  Ø 10 mm ² Ø 16 mm ² | For 2 MCBs 3P | 6 MW | 102 mm | 5ST3613 | 5ST3643 |
| | For 3 MCBs 3P | 9 MW | 157.5 mm | 5ST3614 | 5ST3644 |
| | For 4 MCBs 3P | 12 MW | 210 mm | 5ST3615 | 5ST3645 |
| | Combi pack: 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655 | | | | 5ST3656 |
| | | | | – | 5ST3657 |
| | | | | Article No. | Article No. |
| Four-phase | | | | | |
|  Ø 10 mm ² Ø 16 mm ² | For 2 MCBs 4P or 3P+N | 8 MW | 138 mm/ 140 mm | 5ST3621 | 5ST3651 |
| | For 3 MCBs 4P or 3P+N | 12 MW | 210 mm | 5ST3622 | 5ST3652 |
|  Ø 10 mm ² Ø 16 mm ² | For 6 MCBs 2P or 1P+N | 12 MW | 210 mm | 5ST3623 | 5ST3653 |
| | | | | | Article No. |



For MCBs equipped with auxiliary switch (AS) or fault signal contact (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section | |
|-------------------------------------|---------------|-----------|-------------------|-------------------------|--------------------|
| | | | | 10 mm ² | 16 mm ² |
| Single-phase | | | | | |
| | For 2 MCBs 1P | 2 MW | 40 mm | 5ST3603 | 5ST3633 |
| | For 6 MCBs 1P | 6 MW | 158 mm | 5ST3604 | 5ST3634 |
| | For 9 MCBs 1P | 9 MW | 237 mm | 5ST3605 | 5ST3635 |
| Two-phase | | | | | |
| | For 2 MCBs 2P | 4 MW | 76 mm | – | 5ST3640 |
| | For 3 MCBs 2P | 6 MW | 121 mm | – | 5ST3641 |
| | For 5 MCBs 2P | 10 MW | 210 mm | – | 5ST3642 |
| Three-phase | | | | | |
| | For 2 MCBs 3P | 6 MW | 115 mm | 5ST3616 | 5ST3646 |
| | For 4 MCBs 3P | 12 MW | 237 mm | 5ST3617 | 5ST3647 |
| | For 6 MCBs 1P | 9 MW | 156 mm/ 158 mm | 5ST3618 | 5ST3648 |
| | For 9 MCBs 1P | 12 MW | 227 mm | 5ST3620 | 5ST3650 |

For MCBs with RCCB

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section | |
|-------------------------------------|---|-----------|--------|-------------------------|--------------------|
| | | | | 10 mm ² | 16 mm ² |
| Three-phase | | | | | |
| | For 8 MCBs 1P with 1 RCCB 3P+N, N right | 12 MW | 210 mm | 5ST3624 | 5ST3654 |
| | For 8 MCBs 1P with 1 RCCB 3P+N, N left | 12 MW | 192 mm | 5ST3667 | 5ST3668 |

Accessories

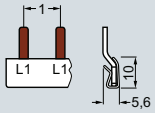
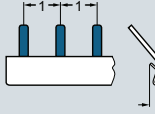
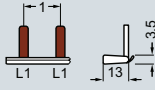
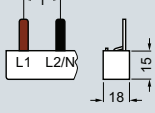
| Terminals for 5ST36 and 5ST37 | Article No. | |
|---|---------------------------|-----------|
| For conductors up to 25 mm ² | Cable entry on the left | 5ST3768-4 |
| | Cable entry in the center | 5ST3768-3 |
| | Cable entry on the right | 5ST3768-5 |
| For conductors up to 50 mm ² | Cable entry on the left | 5ST3760-4 |
| | Cable entry in the center | 5ST3760-3 |
| | Cable entry on the right | 5ST3760-5 |

| Terminals for infeed at side | Article No. | |
|--|--------------------|-----------|
| For conductors up to 25 mm ² | Short | 5ST3768 |
| | Short, IP20 | 5ST3771-2 |
| Touch protection | Article No. | |
| For free connections, yellow (RAL 1004) 5x 1 pin | 5ST3655 | |

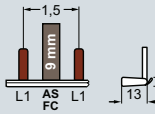
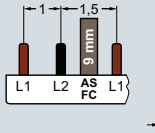
Standard busbars

5ST37, can be cut

For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Color | Conductor cross-section | | |
|---|--|---------------------------|---------|----------------|-------|-------------------------|--------------------|---------|
| | | | | | | 10 mm ² | 16 mm ² | |
| | | | | | | Article No. | Article No. | |
| Single-phase, straight | | | | | | | | |
|  | For MCB 1P+N compact | 12 MW | 216 mm | ■ | Gray | 5ST3762 | – | |
| | | 56 MW | 1016 mm | – | Blue | 5ST3687-0 | – | |
| | | | 12 MW | 216 mm | ■ | Blue | 5ST3763 | – |
| | | | 56 MW | 1016 mm | – | Blue | 5ST3765 | – |
| Single-phase, angled 45° | | | | | | | | |
|  | For MCB 1P+N compact | 12 MW | 216 mm | ■ | Blue | 5ST3763 | – | |
| | | 56 MW | 1016 mm | – | Blue | 5ST3765 | – | |
| | | | 12 MW | 214 mm | ■ | | 5ST3730 | 5ST3700 |
| | | | 56 MW | 1016 mm | – | | 5ST3731 | 5ST3701 |
| Single-phase, angled 90° | | | | | | | | |
|  | For MCBs 1P | 12 MW | 214 mm | ■ | | 5ST3730 | 5ST3700 | |
| | | 56 MW | 1016 mm | – | | 5ST3731 | 5ST3701 | |
| | Two-phase | | | | | | | |
| |  | für 2TE Geräte (2P / 1+N) | 12 MW | 214 mm | ■ | | 5ST3734 | 5ST3704 |
| 56 MW | | | 1016 mm | – | | 5ST3735 | 5ST3705 | |

For MCBs equipped with auxiliary switch (AS) / fault signal contact (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section | | | |
|---|---|-------------|---------|----------------|-------------------------|--------------------|-------------|---------|
| | | | | | 10 mm ² | 16 mm ² | | |
| | | | | | | Article No. | Article No. | |
| Single-phase, angled 90° | | | | | | | | |
|  | For MCBs 1P | 12 MW | 214 mm | ■ | | 5ST3732 | 5ST3702 | |
| | | 56 MW | 1016 mm | – | | 5ST3733 | 5ST3703 | |
| | Two-phase | | | | | | | |
| |  | For MCBs 2P | 12 MW | 214 mm | ■ | | 5ST3736 | 5ST3706 |
| 56 MW | | | 1016 mm | – | | 5ST3737 | 5ST3707 | |



For MCBs equipped with undervoltage release (UR) / shunt release (ST)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section | |
|-------------------------------------|--------------------------|-----------|---------|----------------|-------------------------|--------------------|
| | | | | | 10 mm ² | 16 mm ² |
| Two-phase | | | | | Article No. | Article No. |
| | For MCBs 1P with UR / ST | 56 MW | 1016 mm | – | 5ST3735-2 | – |

3

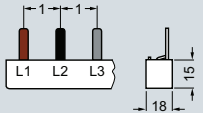
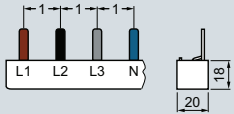
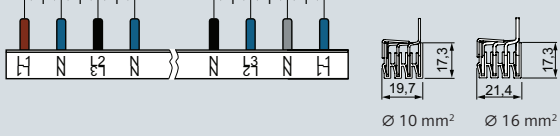
Accessories

| | | | | | |
|---|---------------------------|-------------------------------------|--|--------------------|---------|
| Terminals for 5ST36 and 5ST37 | | Terminals for infeed at side | | | |
| For conductors up to 25 mm ² | Cable entry on the left | 5ST3768-4 | For conductors up to 25 mm ² Short | 5ST3768 | |
| | Cable entry in the center | 5ST3768-3 | Short, IP20 | 5ST3771-2 | |
| | Cable entry on the right | 5ST3768-5 | | | |
| For conductors up to 50 mm ² | Cable entry on the left | 5ST3760-4 | End caps | Article No. | |
| | Cable entry in the center | 5ST3760-3 | For single-phase busbars (MCB 1P+N compact) | Gray | 5ST3766 |
| | Cable entry on the right | 5ST3760-5 | Blue | 5ST3767 | |
| | | | White | 5ST3748 | |
| | | | For two-phase busbars | 5ST3750 | |
| | | | Touch protection | Article No. | |
| | | | For free connections, yellow (RAL 1004) 5x 1 pin | 5ST3655 | |

Standard busbars

5ST37, can be cut

For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section | |
|---|------------------------|-----------|---------|-------------------|-------------------------|--------------------|
| | | | | | 10 mm ² | 16 mm ² |
| Three-phase | | | | | | |
|  | For MCBs 3P | 12 MW | 214 mm | ■ | Article No. | Article No. |
| | | 56 MW | 1016 mm | - | 5ST3738 | 5ST3708 |
| Four-phase | | | | | | |
|  | For MCBs 4P or 3P+N | 12 MW | 214 mm | ■ | Article No. | Article No. |
| | | 56 MW | 1016 mm | - | 5ST3745 | 5ST3715 |
|  | For RCBOs or MCBs 1P+N | 56 MW | 1000 mm | - | 5ST3770-2 | 5ST3770-3 |

For MCBs equipped with auxiliary switch (AS) / fault signal contact (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section | |
|---|---------------|-----------|---------|-------------------|-------------------------|--------------------|
| | | | | | 10 mm ² | 16 mm ² |
| Three-phase | | | | | | |
|  | For MCBs 3P | 12 MW | 214 mm | ■ | Article No. | Article No. |
| | | 56 MW | 1016 mm | - | 5ST3741 | 5ST3711 |
|  | For MCBs 1P | 12 MW | 214 mm | ■ | 5ST3743 | 5ST3713 |
| | | 56 MW | 1016 mm | - | 5ST3744 | 5ST3714 |
| Four-phase | | | | | | |
|  | For MCBs 1P+N | 56 MW | 1016 mm | - | 5ST3746-2 | - |



For MCBs with line-side RCCB or RCCBs equipped with AS/FC devices

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section | |
|-------------------------------------|---|--------------|---------|-------------------|-------------------------|--------------------|
| | | | | | 10 mm ² | 16 mm ² |
| Four-phase | | | | | Article No. | Article No. |
| | For RCCBs/MCBs | 56 MW | 1016 mm | – | 5ST3746-2 | – |
| | For 6 MCBs 1P+N with 1 RCCB 3P+N, N right | 16 MW | 292 mm | ■ | 5ST3770-4 | 5ST3770-5 |

3

Accessories

| Terminals for 5ST36 and 5ST37 | | Article No. | End caps | | Article No. |
|---|---------------------------|-------------|--|--|--------------------|
| For conductors up to 25 mm ² | Cable entry on the left | 5ST3768-4 | For three-phase busbars | | 5ST3750 |
| | Cable entry in the center | 5ST3768-3 | For four-phase busbars | | 5ST3718 |
| | Cable entry on the right | 5ST3768-5 | Touch protection | | Article No. |
| For conductors up to 50 mm ² | Cable entry on the left | 5ST3760-4 | For free connections, yellow (RAL 1004) 5× 1 pin | | 5ST3655 |
| | Cable entry in the center | 5ST3760-3 | | | |
| | Cable entry on the right | 5ST3760-5 | | | |

Standard busbars

5ST37 acc. to UL 508, can be cut

For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section | |
|---|--|-----------|---------|-------------------------|--------------------|
| | | | | 18 mm ² | 25 mm ² |
| | | | | Article No. | Article No. |
| Single-phase | | | | | |
|  | For MCBs 1P or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3701-0HG | – |
|  | For MCBs 1P or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3701-2HG |
| | | | | Article No. | Article No. |
| Two-phase | | | | | |
|  | For MCBs 2P or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3705-0HG | – |
|  | For MCBs 2P or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3705-2HG |
| | | | | Article No. | Article No. |
| Three-phase | | | | | |
|  | For MCBs 3P or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3710-0HG | – |
|  | For MCBs 3P or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3710-2HG |

für LS mit angebautem Hilfsstrom- (AS) / Fehlersignalschalter (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section | |
|--|-------------|-----------|---------|-----------------------------------|-----------------------------------|
| | | | | 18 mm ² Article No. | 25 mm ² Article No. |
| Single-phase | | | | | |
|  | For MCBs 1P | 56 MW | 1000 mm | 5ST3703-0HG | – |
| Two-phase | | | | | |
|  | For MCBs 2P | 56 MW | 1000 mm | 5ST3707-0HG | – |
| Three-phase | | | | | |
|  | For MCBs 3P | 56 MW | 1000 mm | 5ST3712-0HG | – |
|  | For MCBs 1P | 56 MW | 1000 mm | 5ST3714-0HG | – |

3

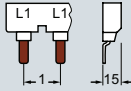
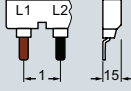
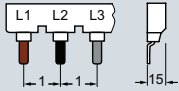
Accessories

| | | | |
|--------------------------------------|--------------------------------|--|--------------------|
| Terminals according to UL 508 | Article No. | Touch protection acc. to UL 508 | Article No. |
| For infeed at the device | 35 mm ² 5ST3770-0HG | For open terminals, yellow 5x 1 pin | 5ST3655-0HG |
| For infeed at the busbar | 50 mm ² 5ST3770-1HG | | |
| End caps acc. to UL 508 | Article No. | | |
| For single-phase busbars | 5ST3748-0HG | | |
| For two- and three-phase busbars | 5ST3750-0HG | | |

Standard busbars

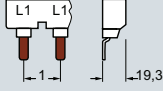
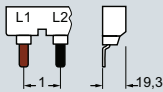
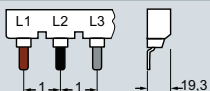
5ST3.. acc. to UL 489 specially for 5SJ4... -HG..

Fixed length, cannot be cut, for miniature circuit breakers (MCBs)¹⁾

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 16 mm ² |
|---|----------------|-----------|--------|---|
| Single-phase | | | | Article No. |
|  | For 6 MCBs 1P | 6 MW | 100 mm | 5ST3663-0HG |
| | For 12 MCBs 1P | 12 MW | 205 mm | 5ST3663-1HG |
| | For 18 MCBs 1P | 18 MW | 310 mm | 5ST3663-2HG |
| Two-phase | | | | Article No. |
|  | For 6 MCBs 1P | 6 MW | 100 mm | 5ST3664-0HG |
| | For 12 MCBs 1P | 12 MW | 205 mm | 5ST3664-1HG |
| | For 18 MCBs 1P | 18 MW | 310 mm | 5ST3664-2HG |
| Three-phase | | | | Article No. |
|  | For 2 MCBs 3P | 6 MW | 100 mm | 5ST3665-0HG |
| | For 4 MCBs 3P | 12 MW | 205 mm | 5ST3665-1HG |
| | For 6 MCBs 3P | 18 MW | 310 mm | 5ST3665-2HG |

¹⁾ All unassigned pins of the busbars that cannot be cut must be covered with 5ST3666-1HG touch protection covers.

Can be cut, for MCBs

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 18 mm ² |
|---|-------------|-----------|---------|---|
| Single-phase | | | | Article No. |
|  | For MCBs 1P | 56 MW | 1016 mm | 5ST3701-3HG |
| Two-phase | | | | Article No. |
|  | For MCBs 2P | 56 MW | 1016 mm | 5ST3705-3HG |
| Three-phase | | | | Article No. |
|  | For MCBs 3P | 56 MW | 1016 mm | 5ST3710-3HG |



Can be cut, for MCBs equipped with auxiliary switch (AS) / fault signal contact (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 18 mm ² |
|-------------------------------------|-------------|-----------|---------|---|
| Single-phase | | | | |
| | For MCBs 1P | 56 MW | 1016 mm | Article No. 5ST3703-3HG |
| Two-phase | | | | |
| | For MCBs 2P | 56 MW | 1016 mm | Article No. 5ST3707-3HG |
| Three-phase | | | | |
| | For MCBs 3P | 56 MW | 1016 mm | Article No. 5ST3712-3HG |
| | For MCBs 1P | 56 MW | 1016 mm | 5ST3714-3HG |

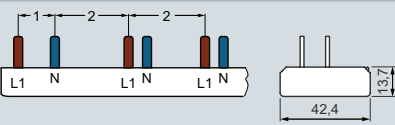
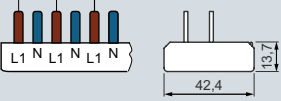

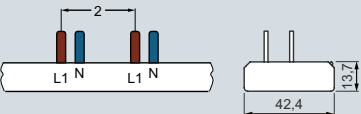

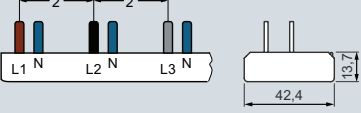
3

Accessories

| | | |
|---|--|-------------|
| Terminals according to UL 489 | | Article No. |
| For infeed at the 5SJ4... -HG.. miniature circuit breaker | 16 mm ² | 5ST3666-0HG |
| | 18 mm ² | 5ST3770-3HG |
| For infeed at the busbar | 16 mm ² | 5ST3666-2HG |
| End caps acc. to UL 489 | | Article No. |
| For single-, two- and three-phase busbars | | 5ST3750-3HG |
| Touch protection acc. to UL 489 | | Article No. |
| For open terminals, yellow 3 × 1 pin | For 5ST37...-HG busbars that cannot be cut | 5ST3666-1HG |
| | For 5ST37...-3HG busbars that can be cut | 5ST3655-3HG |

Compact busbars

5ST36, fixed length, cannot be cut

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm ² | Article No. |
|---|---|-----------|--------|----------------|---|----------------------|
| Two-phase, for infeed via RCCB | | | | | | |
|  | For 1× RCCB 1P+N and 5× compact devices equipped with 5SM6 arc fault detection device | 12 MW | 216 mm | ■ | | 5ST3685-0 |
| Two-phase | | | | | | |
|  | For compact devices | 6 MW | 113 mm | ■ | | 5ST3674-6 new |
| | | 9 MW | 166 mm | ■ | | 5ST3674-7 new |
| | | 12 MW | 218 mm | ■ | | 5ST3674-0 |
|  | For 12x CBE (device protection switch) 5SY17 | 12 MW | 218 mm | ■ | | 5ST3674-1 new |
|  | For 6× compact devices equipped with 5SM6 arc fault detection device | 11 MW | 200 mm | ■ | | 5ST3676-0 |
| Four-phase | | | | | | |
|  | For compact devices | 6 MW | 113 mm | ■ | | 5ST3673-6 new |
| | | 9 MW | 116 mm | ■ | | 5ST3673-7 new |
| | | 12 MW | 218 mm | ■ | | 5ST3673-0 |
| | | 14 MW | 254 mm | ■ | | 5ST3673-4 new |
|  | For 6× compact devices equipped with 5SM6 arc fault detection device | 11 MW | 200 mm | ■ | | 5ST3675-0 |

5ST37, can be cut

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm ² |
|--|--|-----------|---------|----------------|--|
| Two-phase, for infeed via RCCB | | | | | |
| | For 1× RCCB 1P+N and 10× compact devices | 12 MW | 215 mm | ■ | Article No. 5ST3784-0 |
| | For 1× RCCB 1P+N (RCCB N-left only) and 10× compact devices | 12 MW | 215 mm | ■ | 5ST3784-0KL |
| Two-phase | | | | | |
| | For compact devices | 60 MW | 1060 mm | – | Article No. 5ST3774-0 |
| | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3776-0 |
| | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3778-0 |
| | For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch | 58.5 MW | 1036 mm | – | 5ST3780-0 |
| Four-phase, for infeed via RCCB | | | | | |
| | For 1× RCCB 3P+N and 8× compact devices | 12 MW | 216 mm | ■ | Article No. 5ST3783-0 |
| | For 1× RCCB 3P+N (RCCB N-left only) and 8× compact devices | 12 MW | 216 mm | ■ | 5ST3783-0KL |
| Four-phase | | | | | |
| | For compact devices | 60 MW | 1060 mm | – | Article No. 5ST3773-0 |
| | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3775-0 |
| | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3777-0 |








Accessories

| Terminals for infeed at side | Touch protection | Article No. |
|---|---|-------------|
| For conductors up to 25 mm ² Short, IP20 | For free connections, yellow (RAL 1004) | 5ST3655 |
| End caps | For pins L1, N | 5ST3655-OHG |
| Two- and three-phase busbars | For pins L2, L3 | |

Accessories for busbars

General accessories

Terminals

| | For conductors | Version | Cable entry | Infeed | Article No. |
|---|--------------------------|----------------------------------|-------------|---------------------------|-------------|
|  | Up to 25 mm ² | Short | – | Side | 5ST3768 |
| | | Short, IP20 | – | Side | 5ST3771-2 |
|  | Up to 25 mm ² | – | Center | – | 5ST3768-3 |
| | | | Left | – | 5ST3768-4 |
| | | | Right | – | 5ST3768-5 |
|  | Up to 30 mm ² | – | – | Busbar | 5ST3770-1HG |
|  | Up to 35 mm ² | – | – | Device | 5ST3770-0HG |
|  | Up to 35 mm ² | For 5SJ4... -HG.. | – | Miniature circuit breaker | 5ST3666-0HG |
| | | For 5ST37...-3HG that can be cut | – | Miniature circuit breaker | 5ST3770-3HG |
|  | Up to 50 mm ² | – | Center | – | 5ST3760-3 |
| | | | Left | – | 5ST3760-4 |
| | | | Right | – | 5ST3760-5 |
|  | Up to 50 mm ² | – | – | Busbar | 5ST3666-2HG |

| 5ST36 | 5ST37 | 5ST37 (acc. to UL 508) | 5ST3.. (acc. to UL 489) | 5ST3 compact |
|-------|-------|------------------------|-------------------------|--------------|
| ■ | ■ | | | |
| ■ | ■ | | | |
| | ■ | | | |
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| | ■ | | | |
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| | | | ■ | |

Accessories for busbars

General accessories

Touch protection



| Version | Scope of supply | Version | Article No. |
|---|---|------------------|-------------|
| For free connections, yellow (RAL 1004) | 5× 1 pin | – | 5ST3655 |
| | | | 5ST3655-0HG |
| | 3× 1 pin | – | 5ST3666-1HG |
| | | – | 5ST3655-3HG |
| For 10 mm ² conductors | 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655 | – | 5ST3656 |
| For 16 mm ² conductors | 20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655 | For 5ST337..-3HG | 5ST3657 |

End caps



| Version | Color | Article No. |
|---|-------|-------------|
| For single-phase busbars | Gray | 5ST3748 |
| For two- and three-phase busbars | Gray | 5ST3750 |
| For four-phase busbars | Gray | 5ST3718 |
| For single-, two- and three-phase busbars | Gray | 5ST3750-3HG |
| – | Gray | 5ST3766 |
| – | Blue | 5ST3767 |
| For single-phase busbars | Gray | 5ST3748-0HG |
| For two- and three-phase busbars | Gray | 5ST3750-0HG |
| For two- and four-phase compact busbars | Gray | 5ST3788-0 |

| 5ST36 | 5ST37 | 5ST37 (acc. to UL 508) | 5ST3.. (acc. to UL 489) | 5ST3 compact |
|-------|-------|------------------------|-------------------------|--------------|
| ■ | | ■ | ■ | ■ |
| | | | ■ | ■ |
| ■ | | | ■ | |
| ■ | | | | |
| | ■ | | | |
| | ■ | | | |
| | ■ | | ■ | |
| ■ | | | | |
| ■ | | | | |
| | | | ■ | |
| | | | ■ | |
| | | | | ■ |

Accessories for busbars

General accessories

Series connectors




| Conductor cross-section | Length of cable | Color | Number of phases | Article No. | |
|-------------------------|-----------------|--|------------------|-------------|-----------|
| 10 mm ² | 125 mm | N conductor blue | 1 | 5ST3781-0 | |
| | | Cable black | 1 | 5ST3791-0 | |
| | | | 3 | 5ST3793-0 | |
| | 150 mm | N conductor blue | 1 | 5ST3781-1 | |
| | | Cable black | 1 | 5ST3791-1 | |
| | | | 3 | 5ST3793-1 | |
| 16 mm ² | 125 mm | N conductor blue | 1 | 5ST3782-0 | |
| | | Cable black | 1 | 5ST3792-0 | |
| | | | 3 | 5ST3794-0 | |
| | 150 mm | N conductor blue | 1 | 5ST3782-1 | |
| | | Cable black | 1 | 5ST3792-1 | |
| | | | 3 | 5ST3794-1 | |
| | 200 mm | N conductor blue | 1 | 5ST3781-2 | |
| | | | Cable black | 1 | 5ST3791-2 |
| | | | | 3 | 5ST3793-2 |
| | | 3× cables black and 1× N conductor blue | 3 + N | 5ST3793-3 | |

Distribution blocks for standard rail mounting

Acc. to IEC



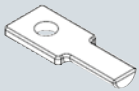
Distribution blocks acc. to IEC

| | Number of poles | Operational voltage U_e | Rated current I_e | Mounting width | Article No. |
|---|-----------------|---------------------------|---------------------|----------------|-------------|
|  | 4-pole | 690 V AC | 80 A | 5 MW | 5ST2501 |
| | | | 125 A | 5.5 MW | 5ST2502 |
| | | | 160 A | 9 MW | 5ST2503 |

Further technical specifications

| | | 5ST2501 | 5ST2502 | 5ST2503 | |
|---|---------------------------------|-------------------------------|---|---|---------------------|
| Standards | | | | | |
| Standards | | IEC 60947-7-1 | | | |
| Supply | | | | | |
| Operational voltage AC | | 690 V | | | |
| Max. rated current | | 80 A | 125 A | 160 A | |
| Conductor cross-section | | | | | |
| Inputs per pole | Solid/stranded | 1× 2.5 ... 16 mm ² | 1× 6 ... 35 mm ² | 1× 10 ... 50 mm ² | |
| | Finely stranded with end sleeve | 1× 1.5 ... 10 mm ² | 1× 6 ... 25 mm ² | 1× 10 ... 35 mm ² | |
| Outputs per pole | Solid/stranded | 8× 1.5 ... 10 mm ² | 5× 1.5 ... 6 mm ² 2× 4 ... 16 mm ² | 8× 2.5 ... 16 mm ² 3× 10 ... 35 mm ² | |
| | Finely stranded with end sleeve | 8× 1.5 ... 10 mm ² | 5× 1.5 ... 6 mm ² (small) 2× 4 ... 10 mm ² (large) | 8× 1.5 ... 16 mm ² (small) 3× 10 ... 25 mm ² (large) | |
| Tightening torque | | | | | |
| Inputs | Screw terminals | 13.5 lb-in (1.5 Nm) | | 3.5 ... 5 lb-in (2 Nm) | |
| | Tools | PZ2 | | | |
| Outputs | Screw terminals | Large | 13.5 lb-in (1.5 Nm) | | |
| | | Small | – | 7.2 lb-in (0.8 Nm) | 13.5 lb-in (1.5 Nm) |
| | Tools | Large | PZ1 | PZ2 | |
| | | Small | – | PZ1 | PZ2 |
| Safety | | | | | |
| Rated peak withstand current I_{pk} | | 21.6 kA | 24 kA | 20 kA | |
| Rated short-time withstand current I_{cw} (1 s) | | 3 kA | 4.2 kA | 6.2 kA | |
| Ambient conditions | | | | | |
| Permissible ambient temperature | | –25 ... +70 °C | | | |
| Degree of protection | Acc. to EN 60529 | IP 20 | | | |
| Approved cable | | Copper | | | |

According to IEC and UL

| Distribution blocks acc. to IEC and UL | | | | | |
|---|--|------------------------------------|------------------------------|----------------|-------------|
|  | Number of poles | Operational voltage U _e | Rated current I _e | Mounting width | Article No. |
| | 1-pole | 600 V AC | 80 A | 1.5 MW | 5ST2504 |
| | | | 125 A | 1.5 MW | 5ST2505 |
| | | | 160 A | 2 MW | 5ST2507 |
| | | | 250 A | 2.5 MW | 5ST2508 |
| | | | 350 A | 2.5 MW | 5ST2511 |
| Connector for 5ST2505 distribution board | | | | | |
|  | <ul style="list-style-type: none"> • Touch protection • 20 mm² • 32 mm | | | | |
| | Version | Single-phase | | | Article No. |
| | | | | | 5ST2506 |
| Terminal lug for ring terminal ends | | | | | |
|  | Versions | | | | Article No. |
| | For 5ST2508 distribution block | | | | 5ST2510 |
| | For 5ST2511 distribution block | | | | 5ST2512 |

| Further technical specifications | | 5ST2504 | 5ST2505 | 5ST2507 | 5ST2508 | 5ST2511 | | | |
|----------------------------------|------------------|--|---------------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------|
| Standards | | | | | | | | | |
| Standards | | UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2 C22.2 No. 158 -1987 / XCFR8 | | | | | | | |
| Supply | | | | | | | | | |
| Operational voltage | | UL | 600 V AC | | | | | | |
| | | IEC | 1000/1500 V AC/DC | | | | | | |
| Max. rated current | | UL | 80 A | 115 A | 160 A | 230 A | 310 A | | |
| | | IEC | 80 A | 125 A | 160 A | 250 A | 400 A | | |
| Conductor cross-section | | | | | | | | | |
| Inputs per pole | Solid/stranded | Large | 3× 2.5 ... 25 mm ² | 10 ... 35 mm ² | 10 ... 70 mm ² | 35 ... 120 mm ² | 95 ... 185 mm ² | | |
| | | | AWG 3× 14 ... 4 | AWG 1× 8 ... 2 | AWG 1× 8 ... 2/0 | AWG 1× 2 ... 4/0 | AWG 1× 3/0 ... 350 MCM | | |
| | | | – | 2.5 ... 25 mm ² | – | – | – | | |
| | | Small | – | AWG 1× 14 ... 6 | – | – | – | | |
| | | | Finely stranded with end sleeve | Large | 3× 2.5 ... 16 mm ² | 10 ... 35 mm ² | 10 ... 50 mm ² | 35 ... 95 mm ² | 95 ... 150 mm ² |
| | | | | AWG 3× 14 ... 6 | AWG 1× 8 ... 2 | AWG 1× 8 ... 1 | AWG 1× 2 ... 3/0 | AWG 3/0 ... 300 MCM | |
| | Outputs per pole | Solid/stranded | Top | 2.5 ... 6 mm ² | 2.5 ... 16 mm ² | 2.5 ... 16 mm ² | 2.5 ... 10 mm ² | 2× 2.5... 35 mm ² | |
| | | | | AWG 4× 14 ... 10 | AWG 6× 14 ... 4 | AWG 6× 14 ... 4 | AWG 4× 16 ... 8 | AWG 2× 14 ... 2 | |
| | | | Center | – | – | – | 2.5 ... 16 mm ² | 5× 2.5 ... 16 mm ² | |
| | | Bottom | – | – | – | AWG 5× 14 ... 6 | – | | |
| | | | 2.5 ... 6 mm ² | – | – | 2× 2.5... 35 mm ² | 4× 2.5 ... 10 mm ² | | |
| | | | AWG 4× 14 ... 10 | – | – | AWG 2× 14 ... 2 | AWG 4× 14 ... 8 | | |
| Finely stranded with end sleeve | Top | 2.5 ... 6 mm ² | 2.5 ... 16 mm ² | – | 2× 2.5... 25 mm ² | – | | | |
| | | AWG 4× 14 ... 10 | AWG 6× 14 ... 6 | AWG 6× 14 ... 4 | AWG 2× 14 ... 4 | – | | | |
| | Bottom | 2.5 ... 6 mm ² | – | – | 2× 2.5... 25 mm ² | 4× 2.5 ... 25 mm ² | | | |
| | | AWG 4× 14 ... 10 | – | – | AWG 2× 14 ... 4 | AWG 5× 14 ... 4 | | | |

Continued on next page

Distribution blocks for standard rail mounting

According to IEC and UL (continued)

| Further technical specifications | | 5ST2504 | 5ST2505 | 5ST2507 | 5ST2508 | 5ST2511 | |
|---|--------------------|---------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------------------------|----------------------|
| Tightening torque | | | | | | | |
| Inputs | Screw terminals | 13.2 ... 26.5 lb-in (1.5 ... 3 Nm) | 31 ... 44 lb-in (3.5 ... 5 Nm) | 44 ... 53 lb-in (5 ... 6 Nm) | 170 ... 186 lb-in (19 ... 21 Nm) | 222 lb-in (25 Nm) | |
| | Tools | PZ2 | Allen key 4 mm | Allen key 5 mm | Allen key 6 mm | Allen key 8 mm | |
| Outputs | Screw terminals | Large | 13.2 ... 26.5 lb-in (1.5 ... 3 Nm) | 17.7 ... 26.5 lb-in (2 ... 3 Nm) | 13.2 ... 26.5 lb-in (1.5 ... 3 Nm) | 31 ... 62 lb-in (3.5 ... 7 Nm) | |
| | | Small | 7 ... 13.2 lb-in (0.8 ... 1.5 Nm) | – | – | 18 ... 27 lb-in (2 ... 3 Nm) | |
| | Tools | Large | PZ2 | – | – | – | Standard screwdriver |
| | | Small | PZ1 | PZ2 | – | – | Standard screwdriver |
| Safety | | | | | | | |
| Rated peak withstand current I_{pk} | | 2.7 kA | 30 kA | – | 51 kA | – | |
| Rated short-time withstand current I_{cw} (1 s) | | 1.9 kA | 4.2 kA | 11 kA | 21 kA | – | |
| Overcurrent protection class | | J | | | | | |
| Short circuit current rating (SCCR) | RMS Sym A | 100 kA | | | | | |
| Electrical isolation | Creepage distances | 1/2" (12.7 mm) | | | | | |
| | Clearances | 3/8" (9.5 mm) | | | | | |
| Ambient conditions | | | | | | | |
| Permissible ambient temperature | | –25 ... +70 °C | | | | | |
| Degree of protection | Acc. to EN 60529 | IP20 | | | | | |
| Fire class | | UL 94V-0 | | | | | |
| Approved cable | | Copper | | | | | |

SIKclip wiring system

SIKclip busbar



| Length | Article No. |
|--------|-------------|
| 12 MW | 5ST2520 |
| 24 MW | 5ST2521 |
| 36 MW | 5ST2522 |

Connecting cables with plug



| Length | Conductor cross-section | Color | Article No. |
|--------|-------------------------|-------|-------------|
| 120 mm | 6 mm ² | Black | 5ST2523 |
| | | Blue | 5ST2524 |
| | 10 mm ² | Black | 5ST2525 |
| | | Blue | 5ST2526 |
| 200 mm | 6 mm ² | Black | 5ST2527 |
| | | Blue | 5ST2528 |
| | 10 mm ² | Black | 5ST2530 |
| | | Blue | 5ST2531 |

Crimp connector



| | |
|---|-------------|
| <ul style="list-style-type: none"> For connection to cables 4/6 mm² | Article No. |
| | 5ST2532 |

Mounting brackets



| | |
|---|-------------|
| <ul style="list-style-type: none"> For mounting on the rear of the standard mounting rail (pair) | Article No. |
| | 5ST2533 |

Further technical specifications

5ST25..

| Standards | |
|--|---|
| Test specifications | EN 60947-1, EN 61439-1 |
| Rated values | |
| Rated operational voltage U_n | 400 V AC |
| Max. rated current I_n | 250 A |
| Max. rated output current I_n (at 40 °C ambient temperature) | 63 A |
| Rated insulation voltage | 660 V AC |
| Test voltage (50 Hz) | 2.5 kV |
| Ambient conditions | |
| Degree of protection | IP20 |
| Connecting cables | 40 A (6 mm ²), 63 A (10 mm ²) |
| Connecting cable type | H07VK |
| Ambient temperature | -5 ... +60 °C |



More safety for humans, plants and assets

The number of electrical consumers in residential homes and commercial buildings has increased dramatically in recent decades.

Modern appliances often have quite different characteristics in terms of current consumption than earlier equipment due, for example, to the use of frequency converters in washing machines, or switched-mode power supply units in TVs, PCs or LED lights.

There are also decentralized power generators like photovoltaic systems or charging devices for electric vehicles.

All of this requires new protection strategies for electrical installations. This also includes appropriate residual current protection devices or residual current circuit breakers that will cut the current immediately and safely in the event of a fault.

Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)

| | |
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| RCBOs | 4/10 |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about residual current protective devices / arc fault detection devices, please visit our websites

www.siemens.com/rccb

www.siemens.com/protection-concept

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information – SENTRON protection concept ([109767456](#))
- Technology primer – Residual current protective devices ([109482301](#))

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- Residual current protective devices (general)
bit.ly/2kKQhCj

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Residual current protective devices / arc fault detection devices sie.ag/2m55Y7j

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.

www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAX Download Manager at

www.siemens.com/lowvoltage/cax

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Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Residual current protective devices / arc fault detection devices ([45303255](https://www.siemens.com/lowvoltage/manuals))

Training and tutorials

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- Protection concept (WT-LVBPC)
- 5SM6 arc fault detection devices (WT-LVBAFDD)

Technical overview – Residual current protective devices / arc fault detection devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on residual current protective devices / arc fault detection devices

www.siemens.com/lowvoltage/product-support (109769082)

System overview

Basic devices and accessories

Basic units



5SV3 RCCBs



5SM3 RCCBs



5SM2 RC units



5SU1 RCBOs



5SV1 RCBOs

5SM6 and 5SV6
arc fault detection devices

Electrical accessories



Auxiliary switches (AS)

Fault signal contacts
(FC)Auxiliary switches and
fault signal contacts
(AS+FC)

Shunt releases (ST)

Undervoltage releases
(UR)Remote controlled (RC)
mechanisms

Mechanical accessories



Locking devices



Handle couplers



Touch protection



Wall enclosures

Molded-plastic
enclosures

Terminal covers

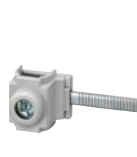
Busbars and accessories



Compact busbars



Standard busbars



Terminals



Touch protection



End caps

RCCB protective socket outlets

In molded-plastic
enclosureFor mounting
on device box

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

Introduction

Residual current protective devices

Selection criteria

Equipment, power, environmental conditions

Design

RCCBs
RCBOs
RC units

Number of pole

1P+N
2P
3P
3P+N
4P

Rated current I_n

0.3 ... 125 A

Types and waveform



| Type | AC | A | F | B | B+ |
|---------|----|---|---|---|----|
| Type AC | ■ | - | - | - | - |
| Type A | ■ | ■ | ■ | ■ | - |
| Type F | ■ | ■ | ■ | ■ | ■ |
| Type B | ■ | ■ | ■ | ■ | ■ |
| Type B+ | ■ | ■ | ■ | ■ | ■ |

Version

| | |
|---------------|--|
| SIGRES | With active condensation protection for use in severe ambient conditions |
| [G] / [K] | Super-resistant, 10 ms short-term delayed devices with increased immunity to false triggering due to transient disruptions |
| [S] | As an upstream group switch for selective shutdown against downstream RCCBs |
| 500 V | With their creep and air distances designed for power grids up to 500 V alternating voltage |
| 50 ... 400 Hz | Meet the triggering conditions up to 400 Hz due to low decrease in sensitivity with increasing frequency |

Protection objective, equipment directives
VDE 0100-410,
VDE 0100-530,
VDE 0100-7xx,
VDS 3501,
Shutdown conditions according to VDE 0100-410

Rated residual current $I_{\Delta n}$ (Protection objective)

Additional protection $I_{\Delta n} \leq 30$ mA
Error protection $I_{\Delta n} > 30$ mA
Fire protection $I_{\Delta n} \leq 300$ mA

Characteristic CB (for residual current operated circuit breakers)

A
B
C
D

RCCBs



5SV

| Types | | Instantaneous | SIGRES, instantaneous | Short-time delayed [G] |
|--|---|-----------------|---|------------------------|
| Type AC | | ■ | – | ■ |
| Type A | | ■ | ■ | ■ |
| Type F | | – | – | – |
| Type B/Type B+ | | – | – | – |
| Surge current withstand capability 8/20 μs | | | | |
| Type A | kA | >1 | >1 | >3 |
| Type F | kA | – | – | >3 |
| Type B/Type B+ | kA | – | – | – |
| Minimum operational voltage for test function operation | | | | |
| 30-mA devices | V AC | | 195 | |
| Non-30-mA devices | V AC | | 100 | |
| 24 V devices | V AC | | 20 | |
| Terminal conductor cross-sections | | | | |
| 1-wire | Solid/stranded | mm ² | 0.75 ... 35 | |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 25 | |
| | Finely stranded without end sleeve | mm ² | 1 ... 35 | |
| 2-wire, same cross-section, same conductor type | Solid/stranded | mm ² | 0.75 ... 10 | |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 4 | |
| | Finely stranded without end sleeve | mm ² | 1 ... 4 | |
| 1-wire + busbar (pin thickness 1.5 mm) | Solid/stranded | mm ² | 10 ... 25 | |
| | Finely stranded with non-insulated end sleeve | mm ² | 6 ... 25 | |
| | Finely stranded with insulated end sleeve | mm ² | 6 ... 16 | |
| Terminal tightening torque | Nm | | 2.5... 3.5 | |
| Poles | | | | |
| Number of poles | | | 1P+N 3P+N | |
| Rated voltage U _n | V AC | | 24 ... 125 230 400 500 | |
| Operating frequency | Hz | | 50 50 ... 400 50/60 | |
| Standards | | | | |
| IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40), ÖVE EN 61008, ÖVE/ÖNORM E 8601 | | | | |
| Rated residual current I _{Δn} | mA | | 10, 30, 100, 300, 500, 1000 | |
| Rated current I _n | A | | 16 ... 80 | |
| Rated breaking capacity I _{cn} | kA | | – | |
| Connection | | | N right N left | |
| Service life | Average number of switching cycles | | >10000 | |
| Test button Test cycles | | | Half-yearly ¹⁾ SIGRES annually ²⁾ | |
| Degree of protection | Acc. to EN 60529 (VDE 0470-1) | | IP20, if the distribution board is installed, with connected conductors | |
| Touch protection | Acc. to EN 50274 (VDE 0660-514) | | Finger and back-of-hand safe | |
| Temperatures | Storage temperature | °C | –40 to +75 °C | |
| | Ambient temperature | °C | –25 to +45, marked with | |
| Resistance to climate | Acc. to IEC 60068-2-30 | | 28 cycles (55 °C; 95% rel. air humidity) | |
| CFC and silicone-free | | | ■ | |
| Mains connection | | | Top bottom SIGRES on top only | |
| Overvoltage category Pollution degree | | | III 2 | |
| More information | | | | |
| Catalog LV 10 | | | See page 4/18 | |

¹⁾ Extension to annual test interval under certain conditions

²⁾ Extension to four-yearly test interval under certain conditions



| 5SV | | | SIQUENCE 5SV3 | | 5SM3 | |
|---|--|-----------------------|---|-----------------------|--|---------------|
| Super resistant [K] | Selective [S] | SIGRES, selective [S] | SIGRES, super-resistant [K] | SIGRES, Selective [S] | Instantaneous | Selective [S] |
| - | - | - | - | - | ■ | ■ |
| ■ | ■ | ■ | - | - | ■ | ■ |
| ■ | ■ | - | - | - | - | - |
| - | - | - | ■ | ■ | - | - |
| >3 | >5 | >5 | - | - | >1 | >5 |
| >3 | - | - | - | - | - | - |
| - | - | - | >3 | >5 | - | - |
| | 195 | | 195 | | 195 | |
| | 100 | | - | | - | |
| | 20 | | - | | - | |
| | 0.75 ... 35 | | 0.75 ... 35 | | 1.5 ... 50 (2 MW) 2.5 ... 50 (4 MW) | |
| | 0.75 ... 25 | | 0.75 ... 25 | | - | |
| | 1 ... 35 | | 1 ... 35 | | - | |
| | 0.75 ... 10 | | 0.75 ... 10 | | - | |
| | 0.75 ... 4 | | 0.75 ... 4 | | - | |
| | 1 ... 4 | | 1 ... 4 | | - | |
| | 10 ... 25 | | 0.75 ... 35 | | - | |
| | 6 ... 25 | | 0.75 ... 25 | | - | |
| | 6 ... 16 | | 1 ... 35 | | - | |
| | 2.5... 3.5 | | 2.5 ... 3.0 | | 3.0... 3.5 | |
| | 1P+N 3P+N | | 1P+N 3P+N | | 1P+N 3P+N | |
| | 24 ... 125 230 400 500 | | 230 400 | | 230 400 | |
| | 50/60 | | 50/60 | | 50 | |
| | IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40), ÖVE EN 61008, ÖVE/ÖNORM E 8601 | | IEC/EN 62423 (VDE 0664-40), IEC/EN 61543 (VDE 0664-30), DIN VDE 0664-400 (Type B+ only) | | IEC/EN 61008-1 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) | |
| | 10, 30, 100, 300, 500, 1000 | | 30, 300, 500 | | 30, 100, 300, 500 | |
| | 16 ... 80 | | 16 ... 80 | | 100 ... 125 | |
| | - | | - | | - | |
| | N right N left | | N right | | N right | |
| | >10000 | | >10000 | | >10 000 | |
| | Half-yearly ¹⁾ SIGRES annually ²⁾ | | Annually ²⁾ | | Half-yearly | |
| IP20, if the distribution board is installed, with connected conductors | | | | | | |
| Finger and back-of-hand safe | | | | | | |
| -40 to +75 °C | | | | | | |
| -25 to +45, marked with | | | | | | |
| 28 cycles (55 °C; 95% rel. air humidity) | | | | | | |
| | ■ | | ■ | | ■ | |
| | Top bottom SIGRES on top only | | Top bottom | | Top bottom | |
| | III 2 | | III 2 | | III 2 | |
| | See page 4/18 | | See page 4/26 | | See page 4/30 | |

RC units



5SM2 (0.3 ... 63 A)



| Types | | Instantaneous |
|--|------------------------------------|---|
| Type AC | | ■ |
| Type A | | ■ |
| Type F | | – |
| Surge current withstand capability 8/20 μs | | |
| Type A | kA | >1 |
| Type F | kA | – |
| Minimum operational voltage for test equipment | | |
| 30-mA devices | V AC | 195 |
| Non-30-mA devices | V AC | 100 |
| Terminal conductor cross-sections | | |
| Solid/stranded | mm ² | 1.0 ... 25 |
| Terminal tightening torque | Nm | 2.5 ... 3.0 |
| Poles | | |
| Number of poles | | 2P 3P 4P |
| Rated voltage U _n | V AC | 230 400 |
| Operating frequency | Hz | 50 50/60 |
| Standards | | |
| IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) | | |
| Rated residual current I _{Δn} | mA | 10, 30, 100, 300, 500, 1000 |
| Rated current I _n | A | 0.3 ... 63 |
| Service life | Average number of switching cycles | >10000 |
| Test button Test cycles | | half-yearly ¹⁾ |
| Degree of protection | Acc. to EN 60529 (VDE 0470-1) | IP20, if the distribution board is installed, with connected conductors |
| Touch protection | Acc. to EN 50274 (VDE 0660-514) | Finger and back-of-hand safe |
| Temperatures | Storage temperature | °C -40 to +75 °C |
| | Ambient temperature | °C -25 to +45, marked with |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles (55 °C; 95% rel. air humidity) |
| CFC and silicone-free | | ■ |
| Mains connection | | Top bottom |
| Overvoltage category Pollution degree | | III 2 |
| More information | | |
| Catalog LV 10 | | See page 4/32 |

¹⁾ Extension to annual test interval under certain conditions



5SM2 (0.3 ... 63 A)

5SM2 (80 ... 100 A)

| Super resistant [K] | Selective [S] | Instantaneous | Selective [S] |
|---|---------------------------|---|---------------------------|
| ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ |
| ■ | - | - | - |
| >3 | >5 | >1 | >5 |
| >3 | - | - | - |
| 195 | 195 | 195 | 195 |
| 100 | 100 | 100 | 100 |
| 1.0 ... 25 | 6.0 ... 50 | 2.5 ... 3.0 | 2.5 ... 3.0 |
| 2.5 ... 3.0 | 2.5 ... 3.0 | 2.5 ... 3.0 | 2.5 ... 3.0 |
| 2P 3P 4P | 2P 4P | 2P 3P 4P | 2P 4P |
| 230 400 | 230 400 | 230 400 | 230 400 |
| 50 50/60 | 50 50/60 | 50 50/60 | 50 50/60 |
| IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) | | IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) | |
| 30 | 300, 500, 1000 | 30, 300 | 300, 1000 |
| 0.3 ... 63 | 0.3 ... 63 | 80 ... 100 | 80 ... 100 |
| >10000 | >10000 | >10000 | >10000 |
| half-yearly ¹⁾ | half-yearly ¹⁾ | half-yearly ¹⁾ | half-yearly ¹⁾ |
| IP20, if the distribution board is installed, with connected conductors Finger and back-of-hand safe -40 to +75 °C -25 to +45, marked with  28 cycles (55 °C; 95% rel. air humidity) | | IP20, if the distribution board is installed, with connected conductors Finger and back-of-hand safe -40 to +75 °C -25 to +45, marked with  28 cycles (55 °C; 95% rel. air humidity) | |
| ■ | ■ | ■ | ■ |
| Top bottom | Top bottom | Top bottom | Top bottom |
| III 2 | III 2 | III 2 | III 2 |

See page 4/32

See page 4/32

RCBOs



5SU1 (up to 40 A)

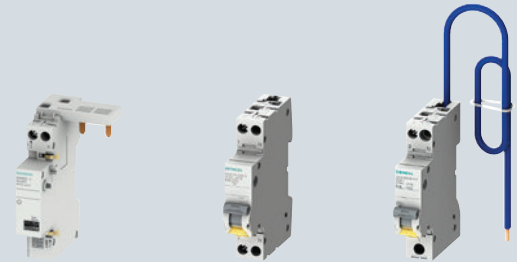
| Types | Instantaneous | Short-time delayed / Super resistant | Selective [S] |
|--|---|--------------------------------------|---|
| Type AC | ■ | ■ | – |
| Type A | ■ | ■ | ■ |
| Type B | – | – | – |
| Type B+ | – | – | – |
| Type F | – | ■ | – |
| Surge current withstand capability 8/20 μs 8/20 μs | | | |
| Type A | kA | >1 | >3 |
| Type F | kA | – | >3 |
| Minimum voltage for operation of the test equipment | | | |
| 30-mA devices | AC V | | 195 |
| Non-30-mA devices | AC V | | 100 |
| Terminal conductor cross-sections | | | |
| 1 conductor at front + busbar at rear | Solid/stranded | mm ² | 0.75 ... 35 |
| | Finely stranded with end sleeve | mm ² | 0.75 ... 25 |
| | Finely stranded without end sleeve | mm ² | 1 ... 25 |
| 2 conductors at rear | Solid/stranded | mm ² | 0.75 ... 6 |
| | Finely stranded with non-insulated end sleeve | mm ² | 0.75 ... 4 |
| | Finely stranded with insulated end sleeve | mm ² | 0.75 ... 4 |
| | Finely stranded without end sleeve | mm ² | 1 ... 4 |
| Terminal tightening torque | Nm | | 2.5 ... 3.0 |
| Poles | | | |
| Number of poles | | | 1P+N 2P |
| Rated voltage U _n | AC V | | 110 230 |
| Operating frequency | Hz | | 50 50/60 |
| Standards | | | |
| | | | IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40) |
| Rated residual current I _{Δn} | mA | | 10, 30, 100, 300 |
| Rated current I _n | A | | 6 ... 40 |
| Rated breaking capacity I _{cn} | kA | | 4.5 6 10 |
| Connection | | | N right N left |
| Service life | Average number of switching cycles | | >10000 |
| Test button Test cycles | | | Half-yearly ¹⁾ |
| Degree of protection | Acc. to EN 60529 (VDE 0470-1) | | IP20, if the distribution board is installed, with connected conductors |
| Touch protection | Acc. to EN 50274 (VDE 0660-514) | | Finger and back-of-hand safe |
| Temperatures | Storage temperature | °C | -40 to +75 °C |
| | Ambient temperature | °C | -25 to +45, marked with |
| Resistance to climate | Acc. to IEC 60068-2-30 | | 28 cycles (55 °C; 95% rel. air humidity) |
| CFC and silicone-free | | | ■ |
| Mains connection | | | Top bottom |
| Energy limitation class | | | 3 |
| Overvoltage category Pollution degree | | | III 2 |
| More information | | | |
| Catalog LV 10 | | | See page 4/42 |

¹⁾ Extension to annual test interval under certain conditions



| 5SV1 | | 5SU1 (125 A) | | 5SU1 (100 A, 125 A) | |
|---|--------------------------------------|---|--------------------------------------|---|---------------|
| Instantaneous | Short-time delayed / Super resistant | Instantaneous | Short-time delayed / Super resistant | Short-time delayed / Super resistant | Selective [S] |
| ■ | – | ■ | ■ | – | – |
| ■ | ■ | ■ | ■ | – | – |
| – | – | – | – | ■ | ■ |
| – | ■ | – | – | – | – |
| >1 | >3 | >1 | >3 | >3 | >5 |
| – | >3 | – | – | – | – |
| 195 | | 195 | | 195 | |
| 100 | | 100 | | 100 | |
| 0.75 ... 16 | | 25 ... 50 | | 20 ... 50 | |
| 0.75 ... 10 | | 25 ... 35 | | 25 ... 35 | |
| 0.75 ... 16 | | – | | – | |
| 0.75 ... 4 | | – | | – | |
| 0.75 ... 2.5 | | – | | – | |
| 0.75 ... 1.5 | | – | | – | |
| 0.75 ... 4 | | – | | – | |
| 1.2 ... 2.0 | | 3.0 ... 3.5 | | 3.0 ... 3.5 | |
| 1P+N | | 2P 4P | | 4P | |
| 230 | | 230 400 | | 400 430 | |
| 50 50/60 | | 50 50/60 | | 50/60 | |
| IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40) | | IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40) | | IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40) | |
| 30, 300 | | 30, 300, 1000 | | 30, 300 | |
| 2 ... 16 | | 125 | | 100, 125 | |
| 4.5 6 | | 10 | | 10 | |
| N right | | N right N left | | N right N left | |
| >10 000 | | >10000 | | >10000 | |
| Half-yearly ¹⁾ | | Half-yearly ¹⁾ | | Half-yearly ¹⁾ | |
| IP20, if the distribution board is installed, with connected conductors | | | | | |
| Finger and back-of-hand safe | | | | | |
| -40 to +75 °C | | | | | |
| -25 to +45, marked with | | | | | |
| 28 cycles (55 °C; 95% rel. air humidity) | | | | | |
| ■ | | ■ | | ■ | |
| Top bottom | | Top bottom | | Top bottom | |
| 3 | | 3 | | 3 | |
| III 2 | | III 2 | | III 2 | |
| See page 4/48 | | See page 4/42 | | See page 4/47 | |

Arc fault detection devices (AFDD)



5SM6

5SV6

5SV6...KP..

| Poles | | | 5SM6 | 5SV6 | 5SV6...KP.. |
|---|------------------------------------|----|--|-------------------------------|---|
| Number of poles | | | 2P | 1P+N | 1P+N |
| Rated voltage U_n | V AC | | 230 | 230 | 230 |
| Operating frequency | Hz | | 50 | 50 | 50 |
| Terminal conductor cross-sections | | | | | |
| Solid and stranded | mm ² | | 0.75 ... 16 | 0.75 ... 16 | 0.75 ... 16 (top) 0.75 ... 35 (bottom) |
| Finely stranded with end sleeve | mm ² | | 0.75 ... 10 | 0.75 ... 10 | 0.75 ... 10 (top) 0.75 ... 25 (bottom) |
| Terminal tightening torque | Nm | | 2.0 ... 2.5 | 1.2 ... 2.0 | 1.2 ... 2.0 (top) 2.5 ... 3.5 (bottom) |
| Standards | | | | | |
| | | | IEC/EN 62606 | IEC/EN 62606 | IEC/EN 62606 |
| Rated current I_n | A | | Up to 16/40 A | 6 ... 40 | 6 ... 40 |
| Service life | Average number of switching cycles | | >10000 | >10000 | >10000 |
| Mounting position | | | Any | Any | Any |
| Degree of protection | Acc. to EN 60529 (VDE 0470-1) | | IP20, with connected conductors | | |
| Touch protection | Acc. to EN 50274 (VDE 0660-514) | | Finger and back-of-hand safe | | |
| Temperatures | Storage temperature | °C | -40 to +75 °C | | |
| | Ambient temperature | °C | -25 to +45, marked with | | |
| Resistance to climate | Acc. to IEC 60068-2-30 | | 28 cycles (55 °C; 95% rel. air humidity) | | |
| CFC and silicone-free | | | ■ | ■ | ■ |
| Mains connection | | | Bottom | Top bottom | Bottom |
| Overvoltage category Pollution degree | | | III 2 | III 2 | III 2 |
| Tripping in the event of overvoltage | V | | >275 | >285 | >285 |
| More information | | | | | |
| Catalog LV 10 | | | See page 4/50 | See page 4/51 | See page 4/51 |

5SV RCCBs

Type A, 1P+N (2 MW)

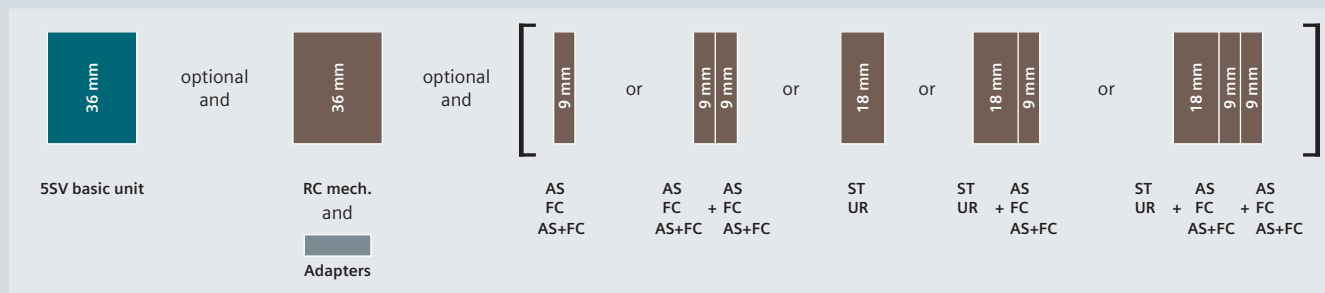


| $I_{\Delta n}$ | I_n | Thermal overload protection ¹⁾ | Bulk packaging (36 units) | Instantaneous 24 ... 125 V AC | | Instantaneous 230 V AC | |
|----------------|-------|---|---------------------------|-------------------------------|---------------|------------------------|-------------|
| | | | | Right | Left | Right | Left |
| Type A | | | | | | | |
| 10 mA | 16 A | – | – | – | 5SV3111-6 | 5SV3111-6KL | – |
| 30 mA | 16 A | – | – | 5SV3311-6KK13 | 5SV3311-6 | 5SV3311-6KL | – |
| | | – | ■ | – | 5SV3311-6GV01 | – | – |
| | 25 A | – | – | 5SV3312-6KK13 | 5SV3312-6 | 5SV3312-6KL | 5SV3312-6BA |
| | | – | ■ | – | 5SV3312-6GV01 | – | – |
| | 40 A | – | – | 5SV3314-6KK13 | 5SV3314-6 | 5SV3314-6KL | 5SV3314-6BA |
| | | – | ■ | – | 5SV3314-6GV01 | – | – |
| | | ■ | – | – | 5SV3314-6LA | – | – |
| | 63 A | – | – | 5SV3316-6KK13 | 5SV3316-6 | 5SV3316-6KL | 5SV3316-6BA |
| | | – | – | – | 5SV3317-6 | 5SV3317-6KL | – |
| 100 mA | 25 A | – | – | – | 5SV3412-6 | 5SV3412-6KL | 5SV3612-6BA |
| | 40 A | – | – | – | 5SV3414-6 | 5SV3414-6KL | 5SV3614-6BA |
| | 63 A | – | – | – | 5SV3416-6 | 5SV3416-6KL | 5SV3616-6BA |
| | 80 A | – | – | – | 5SV3417-6 | 5SV3417-6KL | – |
| 300 mA | 25 A | – | – | – | 5SV3612-6 | 5SV3612-6KL | – |
| | 40 A | – | – | – | 5SV3614-6 | 5SV3614-6KL | – |
| | 63 A | – | – | – | 5SV3616-6 | 5SV3616-6KL | – |
| | 80 A | – | – | – | 5SV3617-6 | 5SV3617-6KL | – |

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).

²⁾ These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

| SIGRES, instantaneous | Short-time delayed [G] | Super resistant [K] | Selective [S] | |
|--|---|---|--|---|
| 230 V AC | 230 V AC | 230 V AC | 230 V AC | |
| Right | Right | Right | Right | Left |
|  |  |  |  |  |
| - | - | - | - | - |
| 5SV3311-6KK12 | - | - | - | - |
| - | - | - | - | - |
| 5SV3312-6KK12 | - | 5SV3312-6KK01 | - | - |
| - | - | - | - | - |
| 5SV3314-6KK12 | - | 5SV3314-6KK01 | - | - |
| - | - | - | - | - |
| - | 5SV3314-6LA01 | - | - | - |
| 5SV3316-6KK12 | - | 5SV3316-6KK01 | - | - |
| - | - | 5SV3317-6KK01 | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | 5SV3416-8 | - |
| - | - | - | - | - |
| - | - | 5SV3612-6KK01 | 5SV3612-8 | - |
| - | - | 5SV3614-6KK01 | 5SV3614-8 | 5SV3614-8KL |
| - | - | 5SV3616-6KK01 | 5SV3616-8 | 5SV3616-8KL |
| - | - | 5SV3617-6KK01 | 5SV3617-8 | - |

Accessories

| Auxiliary switches (AS) | | Article No. | Undervoltage releases (UR) | | Article No. |
|--|----------------------------|---------------|-------------------------------------|--------------------------------|-------------|
| 1 NO contact + | Standard | 5ST3010 | With integrated auxiliary switch | 230 V AC | 5ST3040 |
| 1 NC contact | For low power | 5ST3013 | | 110 V DC | 5ST3041 |
| | For low power (with diode) | 5ST3013-0XX01 | | 24 V DC | 5ST3042 |
| 2 NO contacts | Standard | 5ST3011 | Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | For low power | 5ST3014 | | 110 V DC | 5ST3044 |
| 2 NC contacts | Standard | 5ST3012 | | 24 V DC | 5ST3045 |
| | For low power | 5ST3015 | | | |
| 1 CO contact | Standard | 5ST3016 | | | |
| Fault signal contacts (FC) | | Article No. | Remote controlled (RC) mechanisms | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| 2 NO contacts | | 5ST3021 | | 177 ... 270 V AC | 5ST3056 |
| 2 NC contacts | | 5ST3022 | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | | | | 177 ... 270 V AC | 5ST3058 |
| | | | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. | Adapter for RC mechanism | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 | 2 MW | | 5ST3820-6 |
| Shunt releases (ST) | | Article No. | | | |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | | | |
| 24 ... 48 V AC/DC | | 5ST3031 | | | |
| 12 V DC new | | 5ST3031-0XX01 | | | |

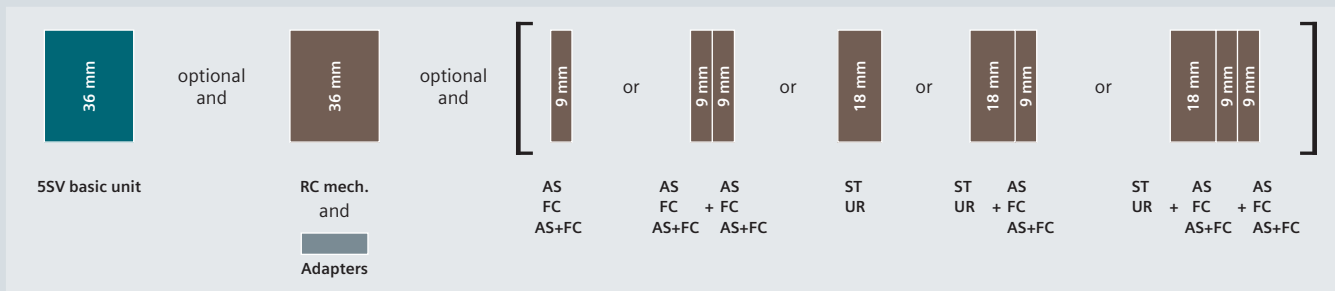
5SV RCCBs

Type F, 1P+N (2 MW)

| N connection | Super resistant [K] | Selective [S] |
|--------------|---|---|
| | 230 V AC | 230 V AC |
| | Right | Right |
| |  |  |

| $I_{\Delta n}$ | I_n | | |
|----------------|-------|-----------|-----------|
| Type F | | | |
| 30 mA | 25 A | 5SV3312-3 | – |
| | 40 A | 5SV3314-3 | – |
| | 63 A | 5SV3316-3 | – |
| | 80 A | 5SV3317-3 | – |
| 300 mA | 25 A | 5SV3612-3 | – |
| | 40 A | 5SV3614-3 | 5SV3614-7 |
| | 63 A | 5SV3616-3 | – |
| | 80 A | 5SV3617-3 | 5SV3617-7 |

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

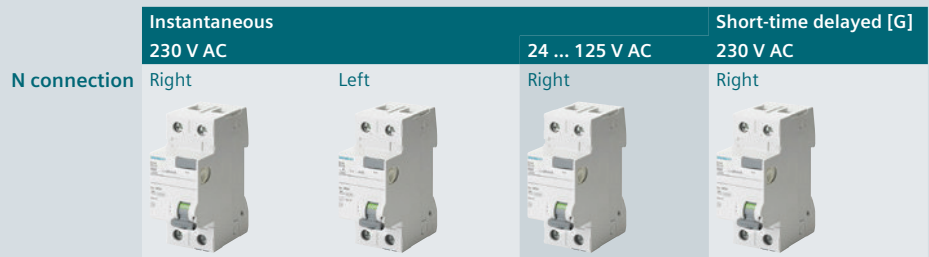
Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 2 MW | | 5ST3820-6 |

5SV RCCBs

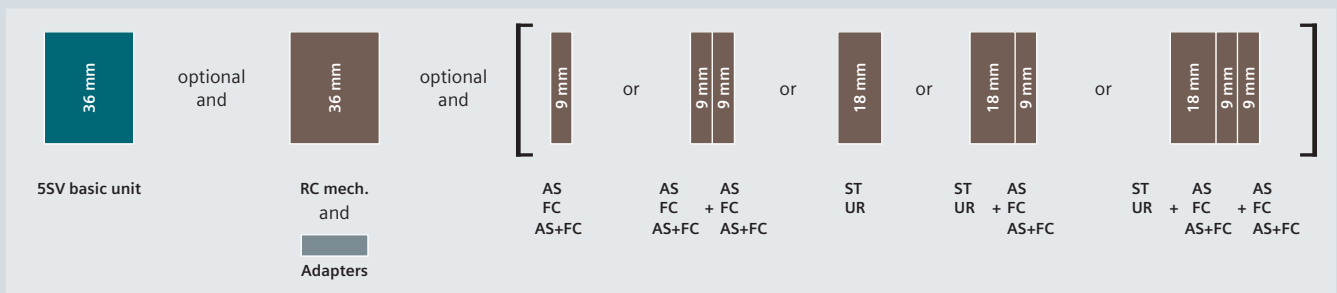
Type AC, 1P+N (2 MW)



| $I_{\Delta n}$ | I_n | Thermal overload protection ¹⁾ | Bulk packaging (36 units) | Instantaneous 230 V AC | Instantaneous 230 V AC | Short-time delayed [G] 230 V AC | Short-time delayed [G] 230 V AC |
|----------------|-------|---|---------------------------|------------------------|------------------------|---------------------------------|---------------------------------|
| | | | | Right | Left | 24 ... 125 V AC Right | Right |
| Type AC | | | | | | | |
| 10 mA | 16 A | – | – | 5SV4111-0 | 5SV4111-OKL | – | – |
| 30 mA | 16 A | – | – | 5SV4311-0 | 5SV4311-OKL | 5SV4311-OKK13 | – |
| | 25 A | – | – | 5SV4312-0 | 5SV4312-OKL | 5SV4312-OKK13 | – |
| | – | – | ■ | 5SV4312-0GV01 | – | – | – |
| | 40 A | – | – | 5SV4314-0 | 5SV4314-OKL | 5SV4314-OKK13 | 5SV4314-OLA01 |
| | – | – | ■ | 5SV4314-0GV01 | 5SV4314-0GV02 | – | – |
| – | – | ■ | – | 5SV4314-OLA | – | – | – |
| | 63 A | – | – | 5SV4316-0 | 5SV4316-OKL | 5SV4316-OKK13 | – |
| | 80 A | – | – | 5SV4317-0 | 5SV4317-OKL | – | – |
| 100 mA | 25 A | – | – | 5SV4412-0 | – | – | – |
| | 40 A | – | – | 5SV4414-0 | 5SV4414-OKL | – | – |
| | 63 A | – | – | 5SV4416-0 | 5SV4416-OKL | – | – |
| | 80 A | – | – | 5SV4417-0 | – | – | – |
| 300 mA | 25 A | – | – | 5SV4612-0 | 5SV4612-OKL | – | – |
| | 40 A | – | – | 5SV4614-0 | 5SV4614-OKL | – | – |
| | 63 A | – | – | 5SV4616-0 | 5SV4616-OKL | – | – |
| | 80 A | – | – | 5SV4617-0 | 5SV4617-OKL | – | – |

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

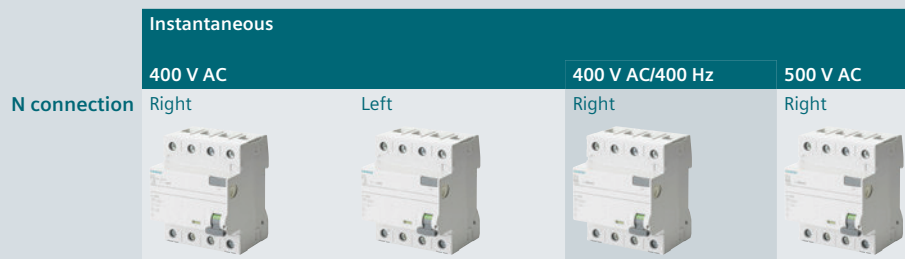
Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 2 MW | | 5ST3820-6 |

5SV RCCBs

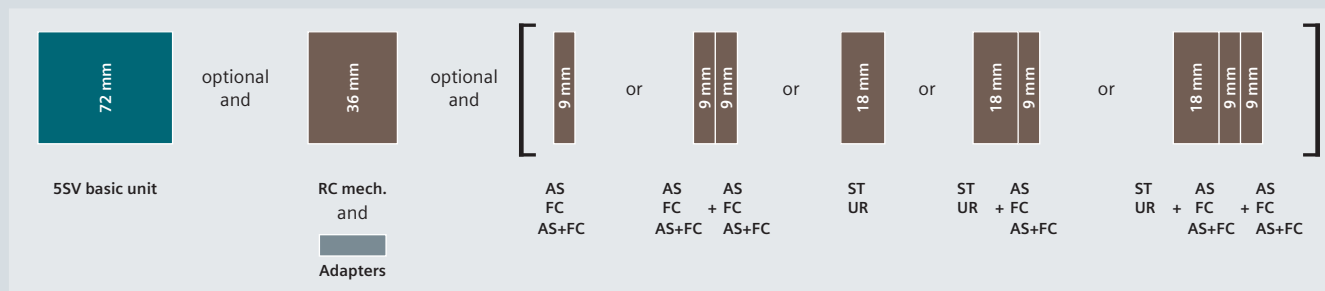
Type A, 3P+N (4 MW)



| $I_{\Delta n}$ | I_n | Thermal overload protection ¹⁾ | Bulk packaging (18 units) | 400 V AC Right | 400 V AC Left | 400 V AC/400 Hz Right | 500 V AC Right |
|----------------|-------|---|---------------------------|----------------|---------------|-----------------------|----------------|
| Type A | | | | | | | |
| 30 mA | 25 A | – | – | 5SV3342-6 | 5SV3342-6KL | 5SV3342-6KK03 | 5SV3352-6 |
| | | – | ■ | 5SV3342-6GV01 | – | – | – |
| | 40 A | – | – | 5SV3344-6 | 5SV3344-6KL | 5SV3344-6KK03 | 5SV3354-6 |
| | | – | ■ | 5SV3344-6GV01 | 5SV3344-6GV02 | – | – |
| | 63 A | – | – | 5SV3344-6LA | – | – | – |
| | | – | ■ | 5SV3346-6 | 5SV3346-6KL | – | 5SV3356-6 |
| 100 mA | 25 A | – | – | 5SV3346-6GV01 | – | – | – |
| | | – | ■ | 5SV3346-6LA | – | – | – |
| | 40 A | – | – | 5SV3347-6 | 5SV3347-6KL | – | 5SV3357-6 |
| | | – | ■ | – | – | – | – |
| 300 mA | 25 A | – | – | 5SV3442-6 | – | – | – |
| | | – | ■ | 5SV3444-6 | – | – | – |
| | 40 A | – | – | 5SV3444-6LA | – | – | – |
| | | – | ■ | 5SV3446-6 | – | – | – |
| | 63 A | – | – | 5SV3446-6LA | – | – | – |
| | | – | ■ | 5SV3447-6 | – | – | – |
| 500 mA | 25 A | – | – | 5SV3642-6 | 5SV3642-6KL | – | 5SV3652-6 |
| | | – | ■ | 5SV3644-6 | 5SV3644-6KL | – | 5SV3654-6 |
| | 40 A | – | – | – | – | – | – |
| | | – | ■ | 5SV3646-6 | 5SV3646-6KL | – | 5SV3656-6 |
| 63 A | – | – | – | – | – | – | |
| | – | ■ | 5SV3647-6 | 5SV3647-6KL | – | 5SV3657-6 | |
| 1000 mA | 25 A | – | – | 5SV3742-6 | – | – | – |
| | | – | ■ | 5SV3744-6 | – | – | – |
| | 40 A | – | – | 5SV3746-6 | 5SV3746-6KL | – | – |
| | | – | ■ | 5SV3746-6GV01 | – | – | – |
| 63 A | – | – | 5SV3747-6 | – | – | – | |
| | – | ■ | – | – | – | – | |

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).
²⁾ These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

Mounting concept










AS Auxiliary switch
 FC Fault signal contact
 AS+FC Auxiliary switch and fault signal contact

See page 4/54
 See page 4/56
 See page 4/58

ST Shunt release
 UR Undervoltage release
 RC mech. Remote controlled mechanism

See page 4/59
 See page 4/60
 See page 4/61

| Instantaneous (only available in Belgium) ²⁾ 400 V AC | SIGRES, instantaneous 400 V AC | Short-time delayed [G] 400 V AC | Super resistant [K] 400 V AC | Selective [S] 400 V AC | | SIGRES, Selective [S] 400 V AC |
|--|---|---|---|--|---|---|
| Right | Right | Right | Right | Right | Left | Right |
|  |  |  |  |  |  |  |
| 5SV3342-6BA | 5SV3342-6KK12 | – | 5SV3342-6KK01 | – | – | – |
| – | – | – | – | – | – | – |
| 5SV3344-6BA | 5SV3344-6KK12 | 5SV3344-6LB01 | 5SV3344-6KK01 | – | – | – |
| – | – | – | – | – | – | – |
| – | – | 5SV3344-6LA01 | – | – | – | – |
| 5SV3346-6BA | 5SV3346-6KK12 | 5SV3346-6LB01 | 5SV3346-6KK01 | – | – | – |
| – | – | – | – | – | – | – |
| – | – | 5SV3346-6LA01 | – | – | – | – |
| – | 5SV3347-6KK12 | 5SV3347-6LB01 | 5SV3347-6KK01 | – | – | – |
| – | – | – | – | – | – | – |
| – | – | 5SV3444-6LB01 | – | 5SV3444-8 | – | – |
| – | – | 5SV3444-6LA01 | – | 5SV3444-8LA | – | – |
| – | – | 5SV3446-6LB01 | – | 5SV3446-8 | – | – |
| – | – | 5SV3446-6LA01 | – | 5SV3446-8LA | – | – |
| – | – | – | – | – | – | – |
| 5SV3642-6BA | 5SV3642-6KK12 | – | 5SV3642-6KK01 | 5SV3642-8 | – | – |
| 5SV3644-6BA | 5SV3644-6KK12 | – | 5SV3644-6KK01 | 5SV3644-8 | – | – |
| – | – | – | – | 5SV3644-8LA | – | – |
| 5SV3646-6BA | 5SV3646-6KK12 | – | 5SV3646-6KK01 | 5SV3646-8 | 5SV3646-8KL | 5SV3646-8KK12 |
| – | – | – | – | 5SV3646-8LA | – | – |
| – | 5SV3647-6KK12 | – | 5SV3647-6KK01 | 5SV3647-8 | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | – | – | – |
| – | – | – | – | 5SV3846-8 | – | – |

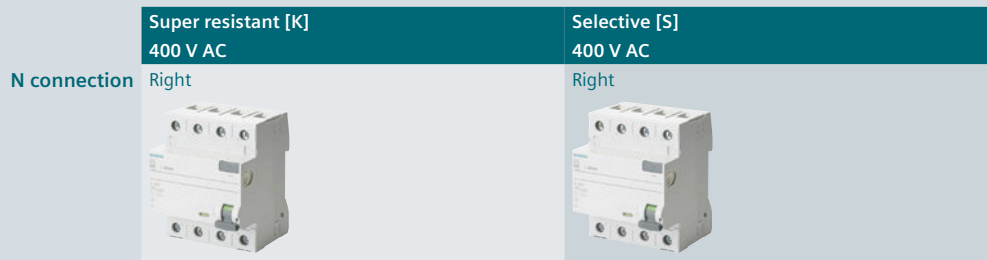
Accessories

| Auxiliary switches (AS) | Article No. |
|--|---|
| 1 NO contact + 1 NC contact | Standard For low power For low power (with diode) |
| | 5ST3010 5ST3013 5ST3013-0XX01 |
| 2 NO contacts | Standard For low power |
| | 5ST3011 5ST3014 |
| 2 NC contacts | Standard For low power |
| | 5ST3012 5ST3015 |
| 1 CO contact | Standard |
| | 5ST3016 |
| Fault signal contacts (FC) | Article No. |
| 1 NO contact + 1 NC contact | 5ST3020 |
| 2 NO contacts | 5ST3021 |
| 2 NC contacts | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | 5ST3062 |
| Shunt releases (ST) | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030 |
| 24 ... 48 V AC/DC | 5ST3031 |
| 12 V DC new | 5ST3031-0XX01 |

| Undervoltage releases (UR) | Article No. |
|--|--|
| With integrated auxiliary switch | 230 V AC 110 V DC 24 V DC |
| | 5ST3040 5ST3041 5ST3042 |
| Without integrated auxiliary switch | 230 V AC 110 V DC 24 V DC |
| | 5ST3043 5ST3044 5ST3045 |
| Remote controlled (RC) mechanisms | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC 177 ... 270 V AC |
| | 5ST3055 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC 177 ... 270 V AC |
| | 5ST3057 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC |
| | 5ST3070 |
| Adapter for RC mechanism | Article No. |
| 4 MW | 5ST3820-6 |

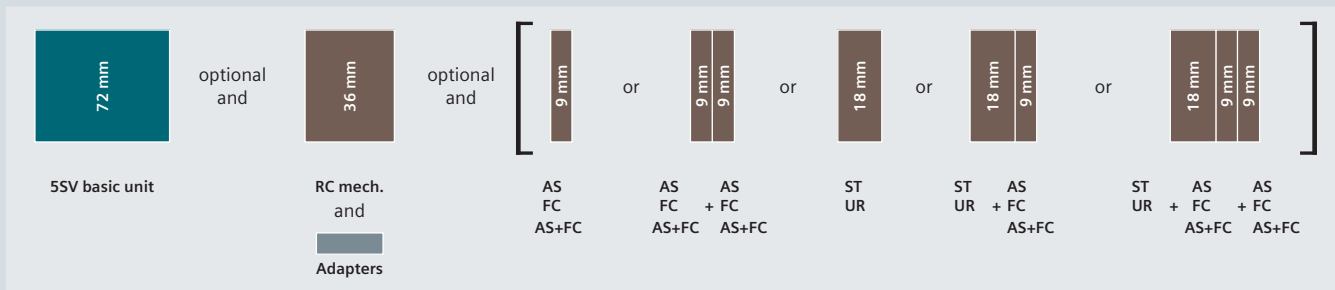
5SV RCCBs

Type F, 3P+N (4 MW)



| $I_{\Delta n}$ | I_n | Super resistant [K] 400 V AC | Selective [S] 400 V AC |
|----------------|-------|---------------------------------|---------------------------|
| Type F | | | |
| 30 mA | 25 A | 5SV3342-3 | – |
| | 40 A | 5SV3344-3 | – |
| | 63 A | 5SV3346-3 | – |
| | 80 A | 5SV3347-3 | – |
| 300 mA | 25 A | 5SV3642-3 | – |
| | 40 A | 5SV3644-3 | 5SV3644-7 |
| | 63 A | 5SV3646-3 | – |
| | 80 A | 5SV3647-3 | 5SV3647-7 |

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|---|-------------------------------------|
| 1 NO contact + 1 NC contact | Standard For low power For low power (with diode) | 5ST3010 5ST3013 5ST3013-0XX01 |
| 2 NO contacts | Standard For low power | 5ST3011 5ST3014 |
| 2 NC contacts | Standard For low power | 5ST3012 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 4 MW | | 5ST3820-6 |

5SV RCCBs

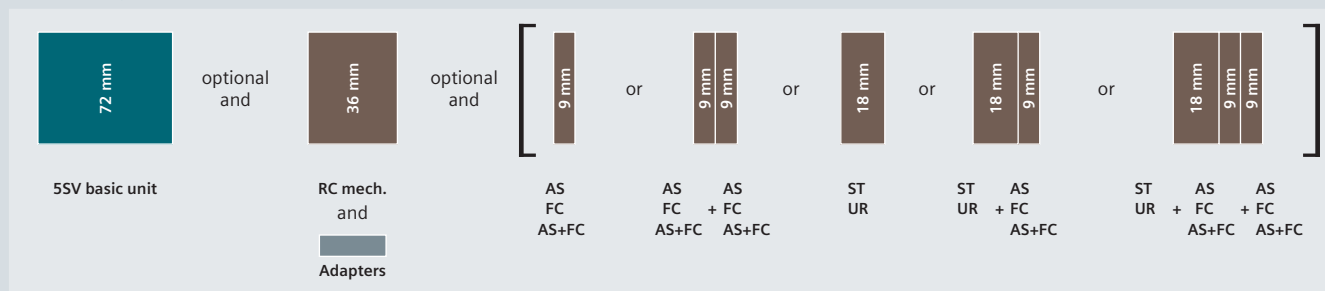
Type AC, 3P+N (4 MW)



| $I_{\Delta n}$ | I_n | Thermal overload protection ¹⁾ | Bulk packaging (18 units) | Instantaneous 400 V AC Right | Instantaneous 400 V AC Left | Short-time delayed [G] 400 V AC Right |
|----------------|-------|---|---------------------------|------------------------------|-----------------------------|---------------------------------------|
| Type AC | | | | | | |
| 30 mA | 25 A | – | – | 5SV4342-0 | 5SV4342-OKL | – |
| | | – | ■ | 5SV4342-0GV01 | – | – |
| | 40 A | – | – | 5SV4344-0 | 5SV4344-OKL | 5SV4344-OLA01 |
| | | – | ■ | 5SV4344-0GV01 | – | – |
| | 63 A | – | – | 5SV4344-OLA | – | – |
| | | – | ■ | 5SV4344-0LA | – | – |
| 80 A | – | – | 5SV4346-0 | 5SV4346-OKL | 5SV4346-OLA01 | |
| | – | ■ | 5SV4346-0LA | – | – | |
| 100 mA | 25 A | – | – | 5SV4347-0 | 5SV4347-OKL | – |
| | | – | ■ | 5SV4347-0LA | – | – |
| 100 mA | 40 A | – | – | 5SV4442-0 | – | – |
| | | – | ■ | 5SV4442-0LA | – | – |
| | 63 A | – | – | 5SV4444-0 | – | 5SV4444-OLA01 |
| | | – | ■ | 5SV4444-0LA | – | – |
| 300 mA | 25 A | – | – | 5SV4446-0 | – | 5SV4446-OLA01 |
| | | – | ■ | 5SV4446-0LA | – | – |
| | 40 A | – | – | 5SV4447-0 | – | – |
| | | – | ■ | 5SV4447-0LA | – | – |
| 500 mA | 25 A | – | – | 5SV4642-0 | 5SV4642-OKL | – |
| | | – | ■ | 5SV4642-0LA | – | – |
| | 40 A | – | – | 5SV4644-0 | 5SV4644-OKL | – |
| | | – | ■ | 5SV4644-0LA | – | – |
| 500 mA | 63 A | – | – | 5SV4646-0 | 5SV4646-OKL | – |
| | | – | ■ | 5SV4646-0LA | – | – |
| | 80 A | – | – | 5SV4647-0 | 5SV4647-OKL | – |
| | | – | ■ | 5SV4647-0LA | – | – |

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 4 MW | | 5ST3820-6 |

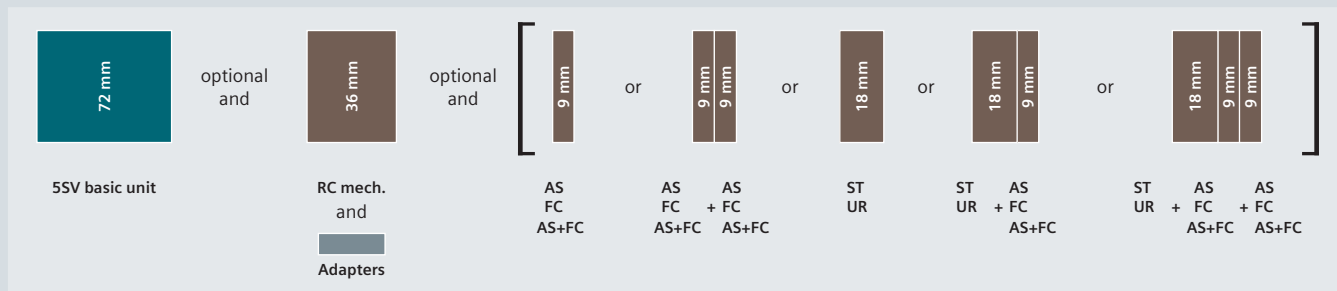
5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)



| $I_{\Delta n}$ | I_n | Bulk packaging (18 units) | |
|----------------|-------|---------------------------|---------------|
| Type B | | | |
| 30 mA | 16 A | – | 5SV3321-4 |
| | 25 A | – | 5SV3322-4 |
| | 40 A | – | 5SV3324-4 |
| | | ■ | 5SV3324-4GV01 |
| | 63 A | – | 5SV3326-4 |
| 300 mA | 16 A | – | 5SV3621-4 |
| | 25 A | – | 5SV3622-4 |
| | 40 A | – | 5SV3624-4 |
| | 63 A | – | 5SV3626-4 |

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 4 MW | | 5ST3820-6 |

5SV3 RCCBs (SIQUENCE)

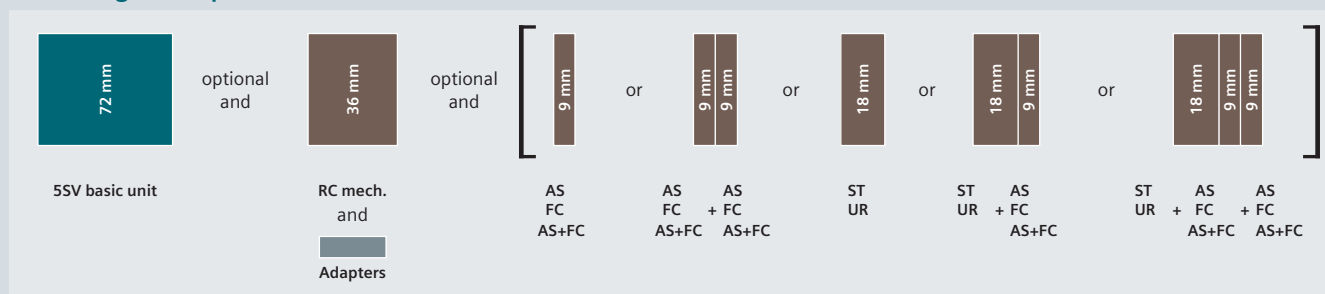
Type B and B+, 3P+N (4 MW)

N connection



| $I_{\Delta n}$ | I_n | Bulk packaging (18 units) | | |
|----------------|----------------|---------------------------|---------------|---------------|
| Type B | | | | |
| 30 mA | 25 A | – | 5SV3342-4 | – |
| | | ■ | 5SV3342-4GV01 | – |
| | 40 A | – | 5SV3344-4 | – |
| | | ■ | 5SV3344-4GV01 | – |
| | 63 A | – | 5SV3346-4 | – |
| | | ■ | 5SV3346-4GV01 | – |
| | 80 A | – | 5SV3347-4 | – |
| 300 mA | 25 A | – | 5SV3642-4 | – |
| | | ■ | 5SV3642-4GV01 | – |
| | 40 A | – | 5SV3644-4 | – |
| | | ■ | 5SV3644-4GV01 | – |
| | 63 A | – | 5SV3646-4 | 5SV3646-5 |
| | | ■ | 5SV3646-4GV01 | – |
| | 80 A | – | 5SV3647-4 | 5SV3647-5 |
| 500 mA | 25 A | – | 5SV3742-4 | – |
| | 40 A | – | 5SV3744-4 | – |
| | 63 A | – | 5SV3746-4 | 5SV3746-5 |
| | 80 A | – | 5SV3747-4 | 5SV3747-5 |
| | Type B+ | | | |
| 30 mA | 25 A | – | 5SV3342-4KK14 | – |
| | 40 A | – | 5SV3344-4KK14 | – |
| | 63 A | – | 5SV3346-4KK14 | – |
| | 80 A | – | 5SV3347-4KK14 | – |
| 300 mA | 25 A | – | 5SV3642-4KK14 | – |
| | 40 A | – | 5SV3644-4KK14 | – |
| | 63 A | – | 5SV3646-4KK14 | 5SV3646-5KK14 |
| | 80 A | – | 5SV3647-4KK14 | 5SV3647-5KK14 |

Mounting concept



- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 4 MW | | 5ST3820-6 |

5SM3 RCCBs

Type A and AC, 1P+N (2 MW), high-current



| $I_{\Delta n}$ | I_n | |
|----------------|-------|-------------|
| Type A | | |
| 30 mA | 100 A | 5SM3318-6KK |
| | 125 A | 5SM3315-6KK |
| 100 mA | 100 A | 5SM3418-6KK |
| | 125 A | 5SM3415-6KK |
| 300 mA | 100 A | 5SM3618-6KK |
| | 125 A | 5SM3615-6KK |
| Type AC | | |
| 30 mA | 100 A | 5SM3318-0KK |
| | 125 A | 5SM3315-0KK |
| 100 mA | 100 A | 5SM3418-0KK |
| | 125 A | 5SM3415-0KK |
| 300 mA | 100 A | 5SM3618-0KK |
| | 125 A | 5SM3615-0KK |

Type A and AC, 3P+N (4 MW), high-current



| $I_{\Delta n}$ | I_n | | |
|----------------|-------|-----------|-----------|
| Type A | | | |
| 30 mA | 100 A | 5SM3348-6 | – |
| | 125 A | 5SM3345-6 | – |
| 100 mA | 100 A | 5SM3448-6 | – |
| | 125 A | 5SM3445-6 | – |
| 300 mA | 100 A | 5SM3648-6 | 5SM3648-8 |
| | 125 A | 5SM3645-6 | 5SM3645-8 |
| 500 mA | 100 A | 5SM3748-6 | – |
| | 125 A | 5SM3745-6 | 5SM3745-8 |
| Type AC | | | |
| 30 mA | 100 A | 5SM3348-0 | – |
| | 125 A | 5SM3345-0 | – |
| 100 mA | 100 A | 5SM3448-0 | – |
| | 125 A | 5SM3445-0 | – |
| 300 mA | 100 A | 5SM3648-0 | 5SM3648-2 |
| | 125 A | 5SM3645-0 | – |
| 500 mA | 100 A | 5SM3748-0 | – |
| | 125 A | 5SM3745-0 | – |

5SM2 RC units

Type A, F and AC, 2-pole

For 5SY miniature circuit breakers¹⁾
230 V AC

Version
Mounting width

Instantaneous
2 MW

Super resistant [K]
2 MW

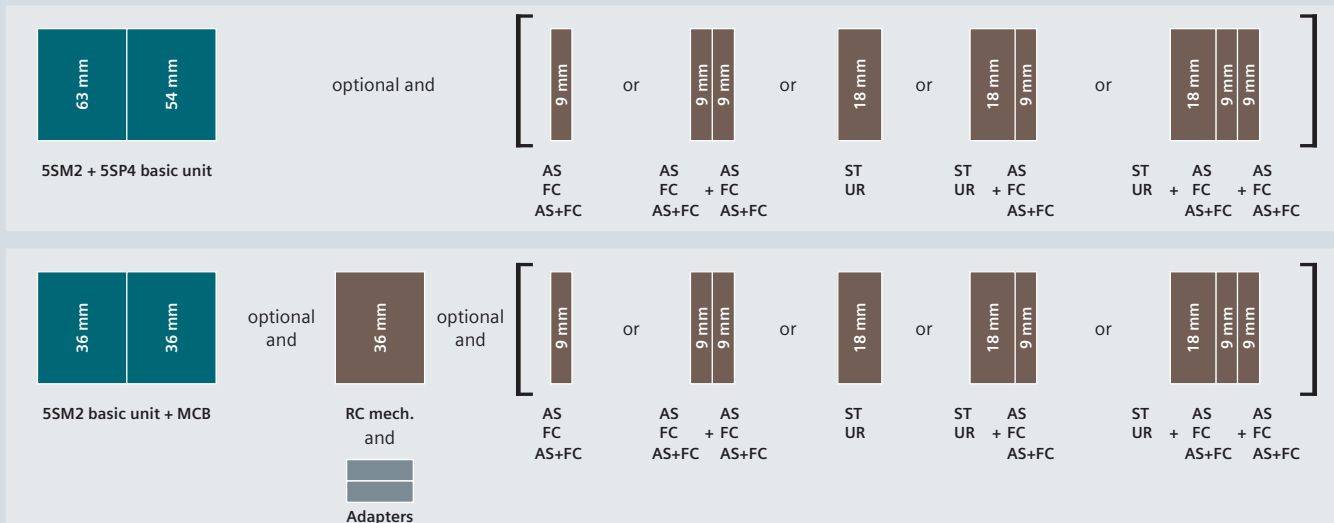
Selective [S]
2 MW



| $I_{\Delta n}$ | I_n | Instantaneous | Super resistant [K] | Selective [S] | |
|----------------|--------------|---------------|---------------------|---------------|-----------|
| Type A | | | | | |
| 10 mA | 0.3 ... 16 A | 5SM2121-6 | – | – | |
| 30 mA | 0.3 ... 40 A | 5SM2322-6 | 5SM2322-6KK01 | – | |
| | 0.3 ... 63 A | 5SM2325-6 | 5SM2325-6KK01 | – | |
| | 80 ... 100 A | – | – | – | |
| 100 mA | 0.3 ... 63 A | 5SM2425-6 | – | – | |
| | 300 mA | 0.3 ... 40 A | 5SM2622-6 | – | 5SM2622-8 |
| | | 0.3 ... 63 A | 5SM2625-6 | – | 5SM2625-8 |
| | 80 ... 100 A | – | – | – | |
| 500 mA | 0.3 ... 63 A | 5SM2725-6 | – | – | |
| 1000 mA | 0.3 ... 40 A | – | – | 5SM2822-8 | |
| | 0.3 ... 63 A | – | – | 5SM2825-8 | |
| | 80 ... 100 A | – | – | – | |
| Type F | | | | | |
| 30 mA | 0.3 ... 40 A | – | 5SM2322-3 | – | |
| | 0.3 ... 63 A | – | 5SM2325-3 | – | |
| Type AC | | | | | |
| 10 mA | 0.3 ... 40 A | 5SM2121-0 | – | – | |
| 30 mA | 0.3 ... 40 A | 5SM2322-0 | – | – | |
| | 0.3 ... 63 A | 5SM2325-0 | – | – | |
| | 80 ... 100 A | – | – | – | |
| 300 mA | 0.3 ... 40 A | 5SM2622-0 | – | 5SM2622-2 | |
| | 0.3 ... 63 A | 5SM2625-0 | – | 5SM2625-2 | |
| | 80 ... 100 A | – | – | – | |
| 500 mA | 0.3 ... 63 A | 5SM2725-0 | – | – | |
| 1000 mA | 0.3 ... 63 A | 5SM2825-0 | – | – | |





¹⁾ but not for 5SY5 or 5SY8

Mounting concept



MCB Miniature circuit breaker [See page 3/1](#)
 AS Auxiliary switch [See page 4/54](#)
 FC Fault signal contact [See page 4/56](#)
 AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
 ST Shunt release [See page 4/59](#)

UR Undervoltage release [See page 4/60](#)
 RC mech. Remote controlled mechanism [See page 4/61](#)

| For 5SL4 miniature circuit breakers 230 V AC | | For 5SP4 miniature circuit breakers (B and C characteristics) 230 V AC | |
|--|---|---|---|
| Instantaneous 2 MW | Selective [S] 2 MW | Instantaneous 3.5 MW | Selective [S] 3.5 MW |
|  |  |  |  |
| - | - | - | - |
| 5SM2323-6 | - | - | - |
| 5SM2326-6 | - | - | - |
| - | - | 5SM2327-6 | - |
| - | - | - | - |
| 5SM2623-6 | 5SM2623-8 | - | - |
| 5SM2626-6 | 5SM2626-8 | - | - |
| - | - | 5SM2627-6 | 5SM2627-8 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | 5SM2827-8 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| 5SM2323-0 | - | - | - |
| 5SM2326-0 | - | - | - |
| - | - | 5SM2327-0 | - |
| 5SM2623-0 | 5SM2623-2 | - | - |
| 5SM2626-0 | 5SM2626-2 | - | - |
| - | - | 5SM2627-0 | - |
| - | - | - | - |
| - | - | - | - |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-OXX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-OXX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|--------------------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 5SM2 with 5SY (2P) | | 5ST3820-3 + 5ST3820-1 |
| | | 5ST3820-3 + 5ST3820-6 |
| 5SM2 with 5SL (2P) | | |

5SM2 RC units

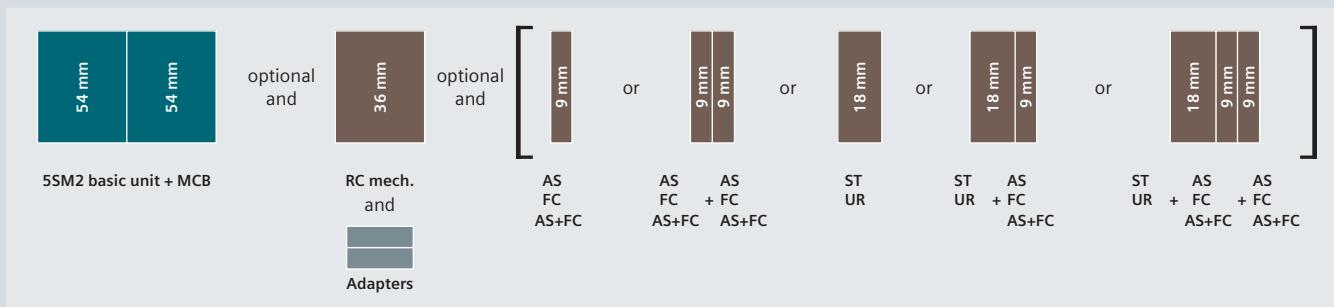
Type A and AC, 3-pole

| Version Mounting width | For 5SY miniature circuit breakers ¹⁾ 400 V AC | | | For 5SL4 miniature circuit breakers 400 V AC | |
|---------------------------|--|-----------------------------|-----------------------|---|-----------------------|
| | Instantaneous 3 MW | Super resistant [K] 3 MW | Selective [S] 3 MW | Instantaneous 3 MW | Selective [S] 3 MW |
| | | | | | |

| $I_{\Delta n}$ | I_n | For 5SY miniature circuit breakers ¹⁾ 400 V AC | | For 5SL4 miniature circuit breakers 400 V AC | |
|----------------|--------------|--|---------------|---|-----------|
| Type A | | | | | |
| 30 mA | 0.3 ... 40 A | 5SM2332-6 | 5SM2332-6KK01 | – | 5SM2333-6 |
| | 0.3 ... 63 A | 5SM2335-6 | 5SM2335-6KK01 | – | 5SM2336-6 |
| 100 mA | 0.3 ... 63 A | 5SM2435-6 | – | – | – |
| | 0.3 ... 40 A | 5SM2632-6 | – | – | 5SM2633-6 |
| 300 mA | 0.3 ... 63 A | 5SM2635-6 | – | 5SM2635-8 | 5SM2636-8 |
| | 0.3 ... 40 A | 5SM2735-6 | – | 5SM2735-8 | – |
| 500 mA | 0.3 ... 40 A | – | – | 5SM2832-8 | – |
| | 0.3 ... 63 A | – | – | 5SM2835-8 | – |
| Type AC | | | | | |
| 30 mA | 0.3 ... 40 A | 5SM2332-0 | – | – | 5SM2333-0 |
| | 0.3 ... 63 A | 5SM2335-0 | – | – | 5SM2336-0 |
| 300 mA | 0.3 ... 40 A | 5SM2632-0 | – | – | 5SM2633-0 |
| | 0.3 ... 63 A | 5SM2635-0 | – | – | 5SM2636-0 |
| 500 mA | 0.3 ... 63 A | 5SM2735-0 | – | – | – |

¹⁾ but not for 5SY5 or 5SY8

Mounting concept



- MCB Miniature circuit breaker
- AS Auxiliary switch
- FC Fault signal contact
- AS+FC Auxiliary switch and fault signal contact

- See page 3/1
- See page 4/54
- See page 4/56
- See page 4/58

- ST Shunt release
- UR Undervoltage release
- RC mech. Remote controlled mechanism
- See page 4/59
- See page 4/60
- See page 4/61

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|--------------------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 5SM2 with 5SY (3P) | | 5ST3820-3 + 5ST3820-2 |
| | | 5ST3820-3 + 5ST3820-7 |
| 5SM2 with 5SL (3P) | | |

5SM2 RC units

Type A and AC, 4-pole

For 5SY miniature circuit breakers¹⁾
400 V AC

Version
Mounting width

Instantaneous
3 MW

Super resistant [K]
3 MW

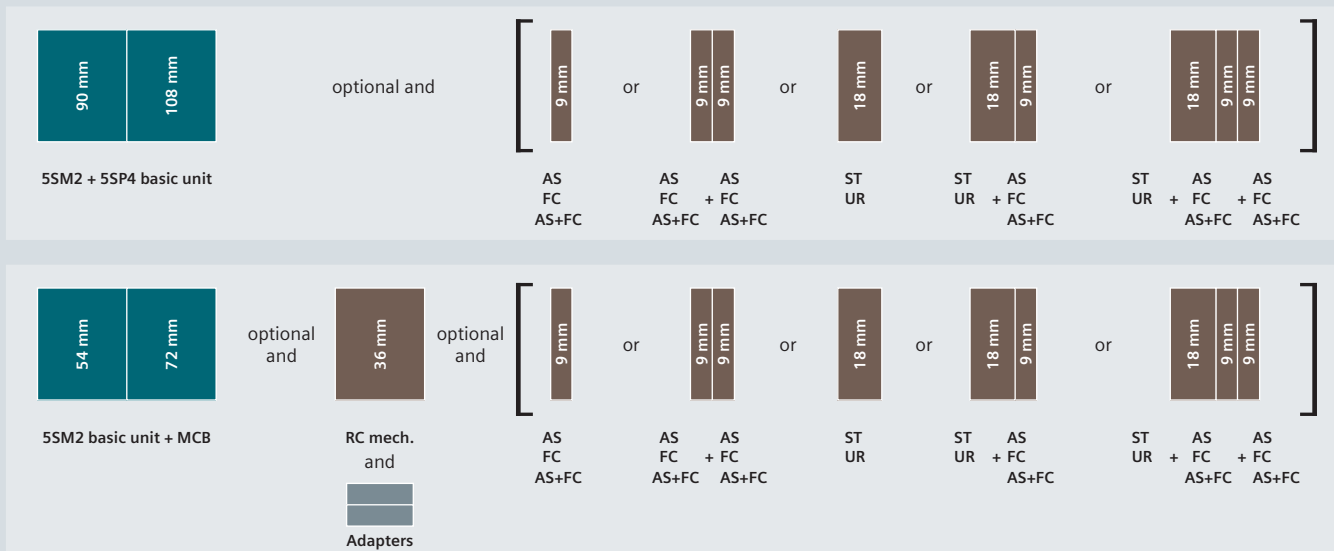
Selective [S]
3 MW







| $I_{\Delta n}$ | I_n | Instantaneous | Super resistant [K] | Selective [S] |
|----------------|--------------|---------------|---------------------|---------------|
| Type A | | | | |
| 30 mA | 0.3 ... 40 A | 5SM2342-6 | 5SM2342-6KK01 | – |
| | 0.3 ... 63 A | 5SM2345-6 | 5SM2345-6KK01 | – |
| | 80 ... 100 A | – | – | – |
| 100 mA | 0.3 ... 63 A | 5SM2445-6 | – | – |
| | 0.3 ... 40 A | 5SM2642-6 | – | – |
| | 0.3 ... 63 A | 5SM2645-6 | – | 5SM2645-8 |
| 300 mA | 80 ... 100 A | – | – | – |
| | 0.3 ... 63 A | 5SM2745-6 | – | 5SM2745-8 |
| | 0.3 ... 40 A | – | – | 5SM2842-8 |
| 500 mA | 0.3 ... 63 A | – | – | 5SM2845-8 |
| | 0.3 ... 40 A | – | – | – |
| | 80 ... 100 A | – | – | – |
| Type AC | | | | |
| 30 mA | 0.3 ... 40 A | 5SM2342-0 | – | – |
| | 0.3 ... 63 A | 5SM2345-0 | – | – |
| | 80 ... 100 A | – | – | – |
| 300 mA | 0.3 ... 40 A | 5SM2642-0 | – | – |
| | 0.3 ... 63 A | 5SM2645-0 | – | 5SM2645-2 |
| | 80 ... 100 A | – | – | – |
| 500 mA | 0.3 ... 63 A | 5SM2745-0 | – | – |
| | 0.3 ... 40 A | – | – | – |
| 1000 mA | 0.3 ... 63 A | – | – | 5SM2845-2 |

¹⁾ but not for 5SY5 or 5SY8

Mounting concept



MCB Miniature circuit breaker [See page 3/1](#) AS+FC Auxiliary switch and fault signal contact [See page 4/58](#) UR Undervoltage release [See page 4/60](#)
 AS Auxiliary switch [See page 4/54](#) FC Fault signal contact [See page 4/56](#) ST Shunt release [See page 4/59](#) RC mech. Remote controlled mechanism [See page 4/61](#)

| For 5SL4 miniature circuit breakers 400 V AC | | For 5SP4 miniature circuit breakers (B and C characteristics) 400 V AC | |
|--|---|---|---|
| Instantaneous 3 MW | Selective [S] 3 MW | Instantaneous 5 MW | Selective [S] 5 MW |
|  |  |  |  |
| 5SM2343-6 | – | – | – |
| 5SM2346-6 | – | – | – |
| – | – | 5SM2347-6 | – |
| – | – | – | – |
| 5SM2643-6 | – | – | – |
| 5SM2646-6 | 5SM2646-8 | – | – |
| – | – | 5SM2647-6 | 5SM2647-8 |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | 5SM2847-8 |
| 5SM2343-0 | – | – | – |
| 5SM2346-0 | – | – | – |
| – | – | 5SM2347-0 | – |
| 5SM2643-0 | – | – | – |
| 5SM2646-0 | 5SM2646-2 | – | – |
| – | – | 5SM2647-0 | – |
| – | – | – | – |
| – | – | – | – |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|---|-------------------------------------|
| 1 NO contact + 1 NC contact | Standard For low power For low power (with diode) | 5ST3010 5ST3013 5ST3013-0XX01 |
| 2 NO contacts | Standard For low power | 5ST3011 5ST3014 |
| 2 NC contacts | Standard For low power | 5ST3012 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|--------------------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Remote controlled (RC) mechanisms | | Article No. |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 5SM2 with 5SY (4P) | | 5ST3820-3 + 5ST3820-2 |
| 5SM2 with 5SL (4P) | | 5ST3820-3 + 5ST3820-7 |

5SU1 RCBOs

Type A, 1P+N

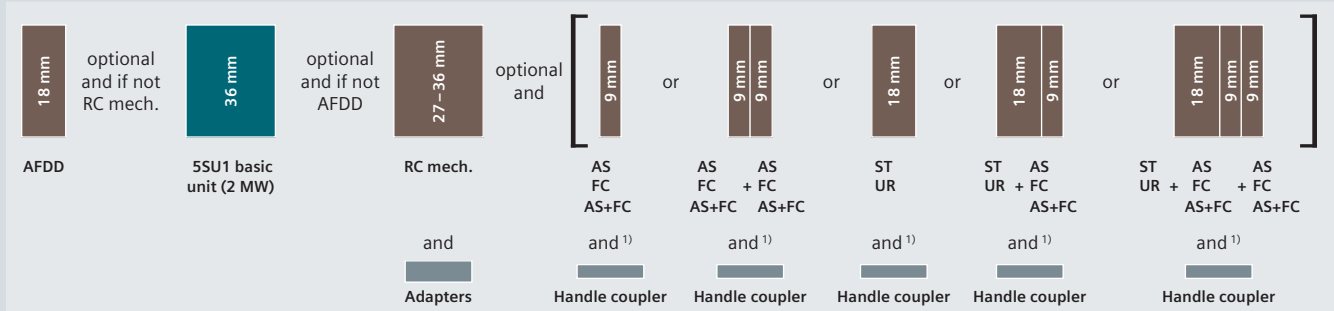
| Mounting width | Instantaneous 230 V AC | | |
|---------------------------------|------------------------|--------|-------|
| | 2 MW | 2 MW | 2 MW |
| Short-circuit breaking capacity | 4.5 kA | 4.5 kA | 6 kA |
| N connection | Right | Left | Right |



4



| $I_{\Delta n}$ | I_n | Bulk packaging (36 units) | Characteristic C | | Characteristic B | |
|----------------|-------|---------------------------|------------------|---------------|------------------|---------------|
| | | | C | C | B | C |
| Type A | | | | | | |
| 10 mA | 6 A | – | – | – | – | – |
| | 10 A | – | – | – | – | – |
| | 13 A | – | – | – | – | – |
| | 16 A | – | – | – | – | – |
| 30 mA | 6 A | – | 5SU1353-7KK06 | 5SU1353-7KL06 | 5SU1356-6KK06 | 5SU1356-7KK06 |
| | | ■ | – | – | 5SU1356-6GV06 | 5SU1356-7GV06 |
| | 8 A | – | 5SU1353-7KK08 | – | – | 5SU1356-7KK08 |
| | 10 A | – | 5SU1353-7KK10 | 5SU1353-7KL10 | 5SU1356-6KK10 | 5SU1356-7KK10 |
| | | ■ | – | – | 5SU1356-6GV10 | 5SU1356-7GV10 |
| | 13 A | – | 5SU1353-7KK13 | – | 5SU1356-6KK13 | 5SU1356-7KK13 |
| | 16 A | – | 5SU1353-7KK16 | 5SU1353-7KL16 | 5SU1356-6KK16 | 5SU1356-7KK16 |
| | | ■ | – | – | 5SU1356-6GV16 | 5SU1356-7GV16 |
| | 20 A | – | 5SU1353-7KK20 | 5SU1353-7KL20 | 5SU1356-6KK20 | 5SU1356-7KK20 |
| | 25 A | – | 5SU1353-7KK25 | 5SU1353-7KL25 | 5SU1356-6KK25 | 5SU1356-7KK25 |
| | 32 A | – | 5SU1353-7KK32 | 5SU1353-7KL32 | 5SU1356-6KK32 | 5SU1356-7KK32 |
| 300 mA | 40 A | – | 5SU1353-7KK40 | 5SU1353-7KL40 | 5SU1356-6KK40 | 5SU1356-7KK40 |
| | 6 A | – | 5SU1653-7KK06 | – | 5SU1656-6KK06 | 5SU1656-7KK06 |
| | 10 A | – | 5SU1653-7KK10 | – | 5SU1656-6KK10 | 5SU1656-7KK10 |
| | 13 A | – | 5SU1653-7KK13 | – | 5SU1656-6KK13 | 5SU1656-7KK13 |
| | 16 A | – | 5SU1653-7KK16 | – | 5SU1656-6KK16 | 5SU1656-7KK16 |
| | 20 A | – | 5SU1653-7KK20 | – | 5SU1656-6KK20 | 5SU1656-7KK20 |
| | 25 A | – | 5SU1653-7KK25 | – | 5SU1656-6KK25 | 5SU1656-7KK25 |
| | 32 A | – | 5SU1653-7KK32 | – | 5SU1656-6KK32 | 5SU1656-7KK32 |
| 40 A | – | 5SU1653-7KK40 | – | 5SU1656-6KK40 | 5SU1656-7KK40 | |

Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

- AFDD Arc fault detection device [See page 4/50](#)
- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

| Instantaneous 230 V AC | | Short-time delayed [G], Super resistant [K] 230 V AC | |
|--|----------------|---|----------------|
| 2 MW | | 2 MW | |
| 10 kA | | 10 kA | |
| Right | | Right | |
|  | |  | |
| Characteristic | Characteristic | Characteristic | Characteristic |
| B | C | B | C |
| 5SU1154-6KK06 | 5SU1154-7KK06 | – | – |
| 5SU1154-6KK10 | 5SU1154-7KK10 | – | – |
| 5SU1154-6KK13 | 5SU1154-7KK13 | – | – |
| 5SU1154-6KK16 | 5SU1154-7KK16 | – | – |
| 5SU1354-6KK06 | 5SU1354-7KK06 | – | – |
| 5SU1354-6GV06 | 5SU1354-7GV06 | – | – |
| – | 5SU1354-7KK08 | – | – |
| 5SU1354-6KK10 | 5SU1354-7KK10 | 5SU1354-6LB10 | 5SU1354-7LB10 |
| 5SU1354-6GV10 | 5SU1354-7GV10 | – | – |
| 5SU1354-6KK13 | 5SU1354-7KK13 | 5SU1354-6LB13 | 5SU1354-7LB13 |
| 5SU1354-6KK16 | 5SU1354-7KK16 | 5SU1354-6LB16 | 5SU1354-7LB16 |
| 5SU1354-6GV16 | 5SU1354-7GV16 | – | – |
| 5SU1354-6KK20 | 5SU1354-7KK20 | 5SU1354-6LB20 | 5SU1354-7LB20 |
| 5SU1354-6KK25 | 5SU1354-7KK25 | 5SU1354-6LB25 | 5SU1354-7LB25 |
| 5SU1354-6KK32 | 5SU1354-7KK32 | 5SU1354-6LB32 | 5SU1354-7LB32 |
| 5SU1354-6KK40 | 5SU1354-7KK40 | 5SU1354-6LB40 | 5SU1354-7LB40 |
| 5SU1654-6KK06 | 5SU1654-7KK06 | – | – |
| 5SU1654-6KK10 | 5SU1654-7KK10 | – | – |
| 5SU1654-6KK13 | 5SU1654-7KK13 | – | – |
| 5SU1654-6KK16 | 5SU1654-7KK16 | – | – |
| 5SU1654-6KK20 | 5SU1654-7KK20 | – | – |
| 5SU1654-6KK25 | 5SU1654-7KK25 | – | – |
| 5SU1654-6KK32 | 5SU1654-7KK32 | – | – |
| 5SU1654-6KK40 | 5SU1654-7KK40 | – | – |


Accessories

| Auxiliary switches (AS) | | Article No. | Undervoltage releases (UR) | | Article No. |
|---|----------------------------|---------------|---|--------------------------------|-------------|
| 1 NO contact + | Standard | 5ST3010 | With integrated | 230 V AC | 5ST3040 |
| 1 NC contact | For low power | 5ST3013 | auxiliary switch | 110 V DC | 5ST3041 |
| | For low power (with diode) | 5ST3013-0XX01 | | 24 V DC | 5ST3042 |
| 2 NO contacts | Standard | 5ST3011 | Without integrated | 230 V AC | 5ST3043 |
| | For low power | 5ST3014 | auxiliary switch | 110 V DC | 5ST3044 |
| 2 NC contacts | Standard | 5ST3012 | | 24 V DC | 5ST3045 |
| | For low power | 5ST3015 | Handle couplers for AS, FC, AS+FC, ST and UR | | |
| 1 CO contact | Standard | 5ST3016 | 1 set = 5 units | | 5ST3805-1 |
| Fault signal contacts (FC) | | Article No. | Remote controlled (RC) mechanisms | | |
| 1 NO contact + 1 NC contact | | 5ST3020 | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| 2 NO contacts | | 5ST3021 | | 177 ... 270 V AC | 5ST3054 |
| 2 NC contacts | | 5ST3022 | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| Auxiliary switches and fault signal contacts (AS+FC) | | | | 177 ... 270 V AC | 5ST3056 |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Shunt releases (ST) | | Article No. | | 177 ... 270 V AC | 5ST3058 |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | Power with ext. function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| 24 ... 48 V AC/DC | | 5ST3031 | Adapter for RC mechanism | | |
| 12 V DC new | | 5ST3031-0XX01 | 2 MW | | 5ST3820-5 |
| | | | Arc fault detection devices (AFDD) | | |
| | | | For 5SU1 basic units | | Article No. |
| | | | I_n up to 16 A | | 5SM6021-2 |
| | | | I_n up to 40 A | | 5SM6024-2 |

5SU1 RCBOs

Type F, 1P+N

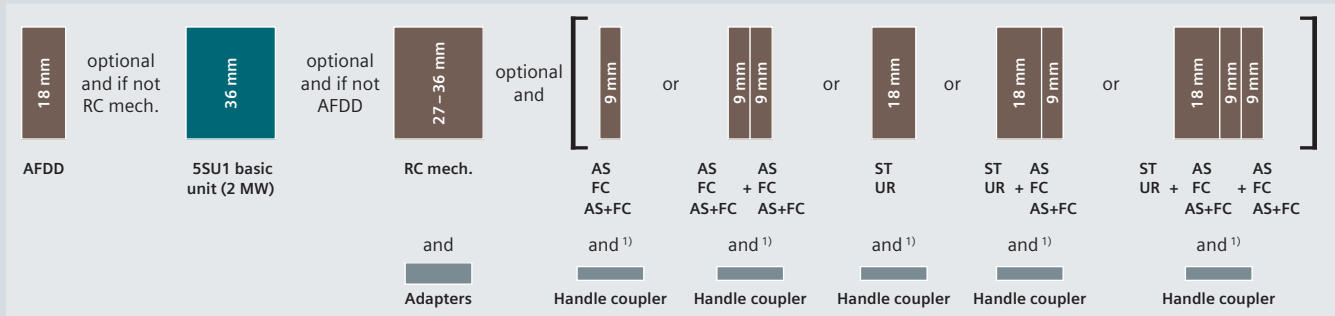
| | |
|--|----------------------------|
| | Super resistant [K] |
| | 230 V AC |
| Mounting width | 2 MW |
| Short-circuit breaking capacity | 10 kA |
| N connection | Right |



4

| $I_{\Delta n}$ | I_n | Characteristic | |
|----------------|-------|----------------|---------------|
| | | B | C |
| Type F | | | |
| 30 mA | 6 A | 5SU1354-3KK06 | 5SU1354-4KK06 |
| | 10 A | 5SU1354-3KK10 | 5SU1354-4KK10 |
| | 13 A | 5SU1354-3KK13 | 5SU1354-4KK13 |
| | 16 A | 5SU1354-3KK16 | 5SU1354-4KK16 |
| | 20 A | 5SU1354-3KK20 | 5SU1354-4KK20 |
| | 25 A | 5SU1354-3KK25 | 5SU1354-4KK25 |
| | 32 A | 5SU1354-3KK32 | 5SU1354-4KK32 |
| | 40 A | 5SU1354-3KK40 | 5SU1354-4KK40 |

Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

- AFDD Arc fault detection device [See page 4/50](#)
- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)

- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)




Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + | Standard | 5ST3010 |
| 1 NC contact | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Handle couplers for AS, FC, AS+FC, ST and UR | | Article No. |
| 1 set = 5 units | | 5ST3805-1 |
| Remote controlled (RC) mechanisms | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with ext. function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 2 MW | | 5ST3820-5 |
| Arc fault detection devices (AFDD) | | Article No. |
| For 5SU1 basic units | I_n up to 16 A | 5SM6021-2 |
| | I_n up to 40 A | 5SM6024-2 |

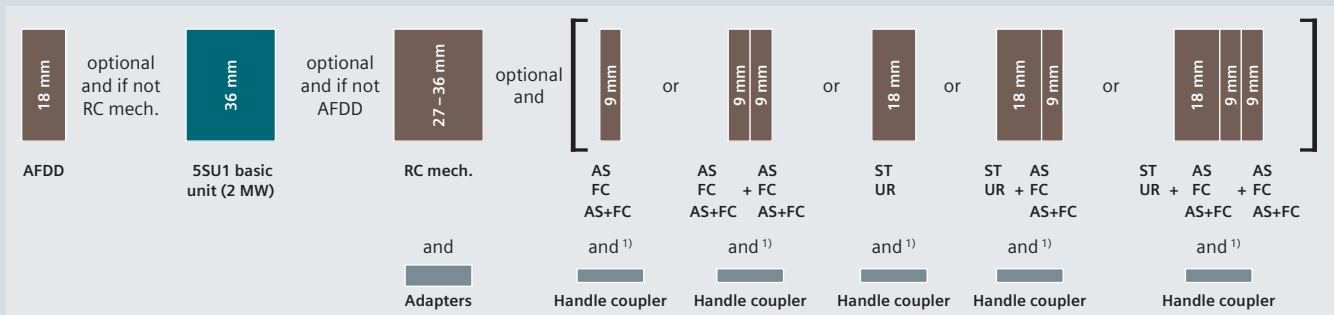
5SU1 RCBOs

Type AC, 1P+N

| Mounting width | Instantaneous 230 V AC | | |
|---------------------------------|---|---|---|
| | 2 MW | 2 MW | 2 MW |
| Short-circuit breaking capacity | 4.5 kA | 4.5 kA | 6 kA |
| N connection | Right | Left | Right |
| |  |  |  |



| I _{Δn} | I _n | Bulk packaging (36 units) | Characteristic C | | Characteristic B | |
|-----------------|----------------|---------------------------|------------------|---------------|------------------|---------------|
| | | | C | C | B | C |
| Type AC | | | | | | |
| 30 mA | 6 A | – | 5SU1353-1KK06 | 5SU1353-1KL06 | 5SU1356-0KK06 | 5SU1356-1KK06 |
| | 8 A | – | 5SU1353-1KK08 | – | – | 5SU1356-1KK08 |
| | 10 A | – | 5SU1353-1KK10 | 5SU1353-1KL10 | 5SU1356-0KK10 | 5SU1356-1KK10 |
| | | ■ | 5SU1353-1GV10 | – | – | – |
| | 13 A | – | 5SU1353-1KK13 | 5SU1353-1KL13 | 5SU1356-0KK13 | 5SU1356-1KK13 |
| | 16 A | – | 5SU1353-1KK16 | 5SU1353-1KL16 | 5SU1356-0KK16 | 5SU1356-1KK16 |
| | | ■ | 5SU1353-1GV16 | – | – | 5SU1356-1GV16 |
| | 20 A | – | 5SU1353-1KK20 | 5SU1353-1KL20 | 5SU1356-0KK20 | 5SU1356-1KK20 |
| | 25 A | – | 5SU1353-1KK25 | 5SU1353-1KL25 | 5SU1356-0KK25 | 5SU1356-1KK25 |
| | 32 A | – | 5SU1353-1KK32 | 5SU1353-1KL32 | 5SU1356-0KK32 | 5SU1356-1KK32 |
| 40 A | – | 5SU1353-1KK40 | 5SU1353-1KL40 | 5SU1356-0KK40 | 5SU1356-1KK40 | |
| 100 mA | 6 A | – | – | – | – | – |
| | 10 A | – | – | – | – | – |
| | 13 A | – | – | – | – | – |
| | 16 A | – | – | – | – | – |
| | 20 A | – | – | – | – | – |
| | 25 A | – | – | – | – | – |
| | 32 A | – | – | – | – | – |
| 300 mA | 6 A | – | 5SU1653-1KK06 | 5SU1653-1KL06 | 5SU1656-0KK06 | 5SU1656-1KK06 |
| | 10 A | – | 5SU1653-1KK10 | 5SU1653-1KL10 | 5SU1656-0KK10 | 5SU1656-1KK10 |
| | 13 A | – | 5SU1653-1KK13 | 5SU1653-1KL16 | 5SU1656-0KK13 | 5SU1656-1KK13 |
| | 16 A | – | 5SU1653-1KK16 | – | 5SU1656-0KK16 | 5SU1656-1KK16 |
| | | ■ | 5SU1653-1GV16 | – | – | – |
| | 20 A | – | 5SU1653-1KK20 | 5SU1653-1KL20 | 5SU1656-0KK20 | 5SU1656-1KK20 |
| | 25 A | – | 5SU1653-1KK25 | 5SU1653-1KL25 | 5SU1656-0KK25 | 5SU1656-1KK25 |
| | 32 A | – | 5SU1653-1KK32 | 5SU1653-1KL32 | 5SU1656-0KK32 | 5SU1656-1KK32 |
| | 40 A | – | 5SU1653-1KK40 | 5SU1653-1KL40 | 5SU1656-0KK40 | 5SU1656-1KK40 |

Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

| | | | | | |
|-------|---|-------------------------------|----------|-----------------------------|-------------------------------|
| AFDD | Arc fault detection device | See page 4/50 | ST | Shunt release | See page 4/59 |
| AS | Auxiliary switch | See page 4/54 | UR | Undervoltage release | See page 4/60 |
| FC | Fault signal contact | See page 4/56 | RC mech. | Remote controlled mechanism | See page 4/61 |
| AS+FC | Auxiliary switch and fault signal contact | See page 4/58 | | | |

| Instantaneous 230 V AC | | Short-time delayed [G], Super resistant [K] 230 V AC | |
|--|---------------|---|---------------|
| 2 MW | | 2 MW | |
| 10 kA | | 10 kA | |
| Right | | Right | |
|  | |  | |
| Characteristic | | Characteristic | |
| B | C | B | C |
| 5SU1354-0KK06 | 5SU1354-1KK06 | – | – |
| – | 5SU1354-1KK08 | – | – |
| 5SU1354-0KK10 | 5SU1354-1KK10 | 5SU1354-0LB10 | 5SU1354-1LB10 |
| – | – | – | – |
| 5SU1354-0KK13 | 5SU1354-1KK13 | 5SU1354-0LB13 | 5SU1354-1LB13 |
| 5SU1354-0KK16 | 5SU1354-1KK16 | 5SU1354-0LB16 | 5SU1354-1LB16 |
| – | – | – | – |
| 5SU1354-0KK20 | 5SU1354-1KK20 | 5SU1354-0LB20 | 5SU1354-1LB20 |
| 5SU1354-0KK25 | 5SU1354-1KK25 | 5SU1354-0LB25 | 5SU1354-1LB25 |
| 5SU1354-0KK32 | 5SU1354-1KK32 | 5SU1354-0LB32 | 5SU1354-1LB32 |
| 5SU1354-0KK40 | 5SU1354-1KK40 | 5SU1354-0LB40 | 5SU1354-1LB40 |
| – | 5SU1454-1KK06 | – | – |
| – | 5SU1454-1KK10 | – | – |
| – | 5SU1454-1KK13 | – | – |
| – | 5SU1454-1KK16 | – | – |
| – | 5SU1454-1KK20 | – | – |
| – | 5SU1454-1KK25 | – | – |
| – | 5SU1454-1KK32 | – | – |
| – | 5SU1454-1KK40 | – | – |
| 5SU1654-0KK06 | 5SU1654-1KK06 | – | – |
| 5SU1654-0KK10 | 5SU1654-1KK10 | – | – |
| 5SU1654-0KK13 | 5SU1654-1KK13 | – | – |
| 5SU1654-0KK16 | 5SU1654-1KK16 | – | – |
| – | – | – | – |
| 5SU1654-0KK20 | 5SU1654-1KK20 | – | – |
| 5SU1654-0KK25 | 5SU1654-1KK25 | – | – |
| 5SU1654-0KK32 | 5SU1654-1KK32 | – | – |
| 5SU1654-0KK40 | 5SU1654-1KK40 | – | – |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|---|-------------------------------------|
| 1 NO contact + 1 NC contact | Standard For low power For low power (with diode) | 5ST3010 5ST3013 5ST3013-0XX01 |
| 2 NO contacts | Standard For low power | 5ST3011 5ST3014 |
| 2 NC contacts | Standard For low power | 5ST3012 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Handle couplers for AS, FC, AS+FC, ST and UR | | Article No. |
| 1 set = 5 units | | 5ST3805-1 |
| Remote controlled (RC) mechanisms | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| Power | 177 ... 270 V AC | 5ST3056 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Power with ARD | 177 ... 270 V AC | 5ST3058 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 2 MW | | 5ST3820-5 |
| Arc fault detection devices (AFDD) | | Article No. |
| For 5SU1 basic units | I _n up to 16 A | 5SM6021-2 |
| | I _n up to 40 A | 5SM6024-2 |

5SU1 RCBOs

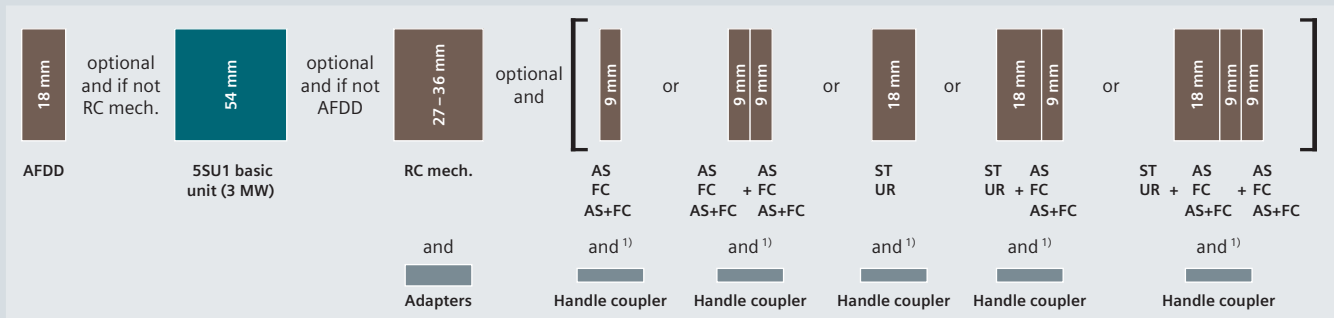
Type A and AC, 2-pole

| Mounting width | Instantaneous | |
|---------------------------------|---------------|---------------|
| | 110 V AC | 230 V AC |
| Short-circuit breaking capacity | 3 MW 10 kA | 3 MW 10 kA |

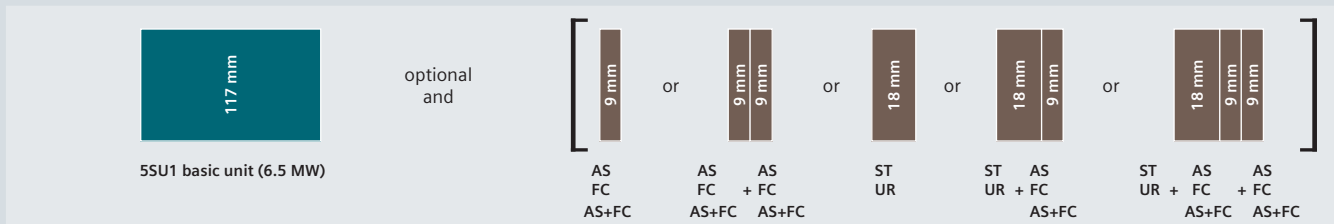


| $I_{\Delta n}$ | I_n | Characteristic | | Characteristic |
|----------------|-------|----------------|---------------|----------------|
| | | B | C | B |
| Type A | | | | |
| 30 mA | 6 A | 5SU1324-6KX06 | 5SU1324-7KX06 | 5SU1324-6FA06 |
| | 10 A | 5SU1324-6KX10 | 5SU1324-7KX10 | 5SU1324-6FA10 |
| | 13 A | 5SU1324-6KX13 | 5SU1324-7KX13 | 5SU1324-6FA13 |
| | 16 A | 5SU1324-6KX16 | 5SU1324-7KX16 | 5SU1324-6FA16 |
| | 20 A | 5SU1324-6KX20 | 5SU1324-7KX20 | 5SU1324-6FA20 |
| | 25 A | 5SU1324-6KX25 | 5SU1324-7KX25 | 5SU1324-6FA25 |
| | 32 A | 5SU1324-6KX32 | 5SU1324-7KX32 | 5SU1324-6FA32 |
| | 40 A | 5SU1324-6KX40 | 5SU1324-7KX40 | 5SU1324-6FA40 |
| | 125 A | – | – | – |
| 300 mA | 125 A | – | – | – |
| Type AC | | | | |
| 30 mA | 125 A | – | – | – |
| 300 mA | 125 A | – | – | – |



Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.



- AFDD Arc fault detection device [See page 4/50](#)
- AS Auxiliary switch [See page 4/54](#)
- FC Fault signal contact [See page 4/56](#)
- AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
- ST Shunt release [See page 4/59](#)
- UR Undervoltage release [See page 4/60](#)
- RC mech. Remote controlled mechanism [See page 4/61](#)

| | | Selective [S] | |
|----------------|---------------|---|--|
| | | 230 V AC | |
| | | 6.5 MW | 6.5 MW |
| | | 10 kA | 10 kA |
| | |  |  |
| Characteristic | | Characteristic | |
| C | B | C | B |
| C | B | C | B |
| 5SU1324-7FA06 | – | – | – |
| 5SU1324-7FA10 | – | – | – |
| 5SU1324-7FA13 | – | – | – |
| 5SU1324-7FA16 | – | – | – |
| 5SU1324-7FA20 | – | – | – |
| 5SU1324-7FA25 | – | – | – |
| 5SU1324-7FA32 | – | – | – |
| 5SU1324-7FA40 | – | – | – |
| – | 5SU1324-6KK82 | 5SU1324-7KK82 | – |
| – | 5SU1624-6KK82 | 5SU1624-7KK82 | 5SU1624-6WK82 |
| – | 5SU1324-0KK82 | 5SU1324-1KK82 | – |
| – | 5SU1624-0KK82 | 5SU1624-1KK82 | – |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

| Undervoltage releases (UR) | | Article No. |
|--|--------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |
| Handle couplers for AS, FC, AS+FC, ST and UR | | Article No. |
| 1 set = 5 units | | 5ST3805-1 |
| Remote controlled (RC) mechanisms | | Article No. |
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| Power | 177 ... 270 V AC | 5ST3056 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| Power with ARD | 177 ... 270 V AC | 5ST3058 |
| | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Power with ext. function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 2 MW | | 5ST3820-5 |
| Arc fault detection devices (AFDD) | | Article No. |
| For 5SU1 basic units (3 MW) | I_n up to 16 A | 5SM6021-2 |
| | I_n up to 40 A | 5SM6024-2 |

5SU1 RCBOs

Type A and AC, 4-pole

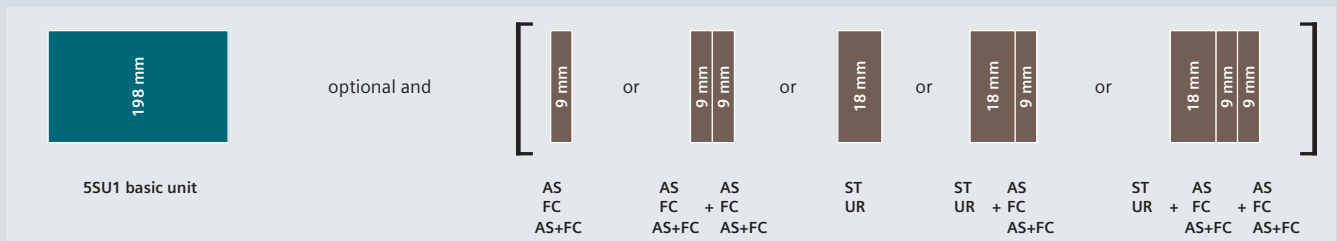
| Mounting width Short-circuit breaking capacity | Instantaneous 400 V AC | Selective [S] 400 V AC |
|---|---------------------------|---------------------------|
| | 11 MW 10 kA | 11 MW 10 kA |



| $I_{\Delta n}$ | I_n | Characteristic | | Characteristic | |
|----------------|-------|----------------|---------------|----------------|---------------|
| | | B | C | B | C |
| Type A | | | | | |
| 30 mA | 125 A | 5SU1344-6KK82 | 5SU1344-7KK82 | – | – |
| 300 mA | 125 A | 5SU1644-6KK82 | 5SU1644-7KK82 | 5SU1644-6WK82 | 5SU1644-7WK82 |
| 1000 mA | 125 A | – | – | 5SU1844-6WK82 | 5SU1844-7WK82 |
| Type AC | | | | | |
| 30 mA | 125 A | 5SU1344-0KK82 | 5SU1344-1KK82 | – | – |
| 300 mA | 125 A | 5SU1644-0KK82 | 5SU1644-1KK82 | – | – |

4

Mounting concept





AS Auxiliary switch
 FC Fault signal contact
 AS+FC Auxiliary switch and fault signal contact

See page 4/54
 See page 4/56
 See page 4/58

ST Shunt release
 UR Undervoltage release

See page 4/59
 See page 4/60

Type B and B+, 4-pole

| | Mounting width | Super resistant [K] | | Selective [S] | |
|---------------------------------|----------------|---|---------------|---|---------------|
| | | 400 V AC | 480 V AC | 400 V AC | |
| Short-circuit breaking capacity | | 11 MW | 11 MW | 11 MW | |
| | | 10 kA | 10 kA | 10 kA | |
| | |  | |  | |
| $I_{\Delta n}$ | I_n | Characteristic | | Characteristic | |
| | | C | D | C | D |
| Type B | | | | | |
| 30 mA | 100 A | 5SU1374-7AK81 | 5SU1374-8AK81 | – | – |
| | 125 A | 5SU1374-7AK82 | – | – | – |
| 300 mA | 100 A | 5SU1674-7AK81 | 5SU1674-8AK81 | 5SU1674-7CK81 | 5SU1674-8BK81 |
| | 125 A | 5SU1674-7AK82 | – | 5SU1674-7CK82 | 5SU1674-7BK82 |
| Type B+ | | | | | |
| 30 mA | 100 A | 5SU1374-7DK81 | 5SU1374-8DK81 | – | – |
| | 125 A | 5SU1374-7DK82 | – | – | – |
| 300 mA | 100 A | 5SU1674-7DK81 | 5SU1674-8DK81 | 5SU1674-7FK81 | 5SU1674-8EK81 |
| | 125 A | 5SU1674-7DK82 | – | 5SU1674-7FK82 | 5SU1674-7EK82 |

Accessories

| Auxiliary switches (AS) | | Article No. |
|-----------------------------|----------------------------|---------------|
| 1 NO contact + | Standard | 5ST3010 |
| 1 NC contact | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |

| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
|--|----------|---------------|
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |
| Shunt releases (ST) | | Article No. |
| 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |
| Undervoltage releases (UR) | | Article No. |
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |

5SV1 RCBOs

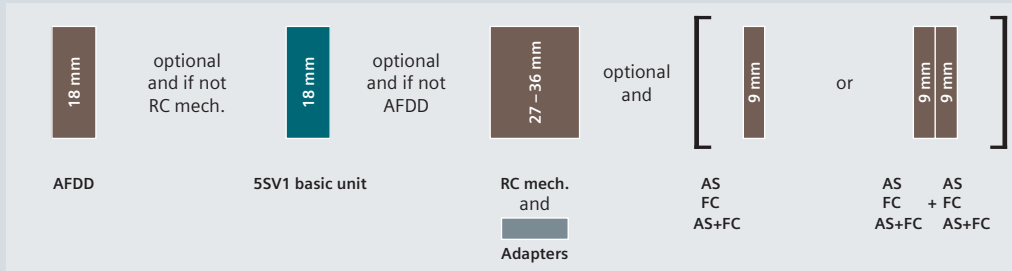
Type A, 1P+N

| Mounting width Short-circuit breaking capacity N connection | Instantaneous 230 V AC | | Short-time delayed [G], Super resistant [K] new 230 V AC | |
|---|---------------------------|-------------------------|---|-----------------------|
| | | 1 MW 4,5 kA Right | 1 MW 6 kA Right | 1 MW 6 kA Right |



| $I_{\Delta n}$ | I_n | Bulk packaging (12 units) | Characteristic | | Characteristic | | Characteristic | |
|-------------------|-------|------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|
| | | | B | C | B | C | B | C |
| Type A | | | | | | | | |
| 30 mA | 2 A | – | – | 5SV1313-7KK02 | – | 5SV1316-7KK02 | – | – |
| | 4 A | – | – | 5SV1313-7KK04 | – | 5SV1316-7KK04 | – | – |
| | 6 A | – | 5SV1313-6KK06 | 5SV1313-7KK06 | 5SV1316-6KK06 | 5SV1316-7KK06 | – | – |
| | | ■ | – | – | 5SV1316-6GV06 | 5SV1316-7GV06 | – | – |
| | 10 A | – | – | – | – | – | 5SV1316-6LK06 | 5SV1316-7LK06 |
| | | ■ | – | – | 5SV1316-6GV10 | 5SV1316-7GV10 | – | – |
| | | – | – | – | – | – | 5SV1316-6LK10 | 5SV1316-7LK10 |
| | 13 A | – | 5SV1313-6KK13 | 5SV1313-7KK13 | 5SV1316-6KK13 | 5SV1316-7KK13 | – | – |
| | | ■ | – | – | 5SV1316-6GV13 | 5SV1316-7GV13 | – | – |
| | | – | – | – | – | – | 5SV1316-6LK13 | 5SV1316-7LK13 |
| | 16 A | – | 5SV1313-6KK16 | 5SV1313-7KK16 | 5SV1316-6KK16 | 5SV1316-7KK16 | – | – |
| | | ■ | – | – | 5SV1316-6GV16 | 5SV1316-7GV16 | – | – |
| – | | – | – | – | – | 5SV1316-6LK16 | 5SV1316-7LK16 | |
| 300 mA new | 2 A | – | – | 5SV1613-7KK02 | – | 5SV1616-7KK02 | – | – |
| | 4 A | – | – | 5SV1613-7KK04 | – | 5SV1616-7KK04 | – | – |
| | 6 A | – | 5SV1613-6KK06 | 5SV1613-7KK06 | 5SV1616-6KK06 | 5SV1616-7KK06 | – | – |
| | 10 A | – | 5SV1613-6KK10 | 5SV1613-7KK10 | 5SV1616-6KK10 | 5SV1616-7KK10 | – | – |
| | 13 A | – | 5SV1613-6KK13 | 5SV1613-7KK13 | 5SV1616-6KK13 | 5SV1616-7KK13 | – | – |
| | 16 A | – | 5SV1613-6KK16 | 5SV1613-7KK16 | 5SV1616-6KK16 | 5SV1616-7KK16 | – | – |




Mounting concept



AFDD Arc fault detection device [See page 4/50](#)
 AS Auxiliary switch [See page 4/54](#)
 FC Fault signal contact [See page 4/56](#)

AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)
 RC mech. Remote controlled mechanism [See page 4/61](#)

Type F and AC, 1P+N

| | Instantaneous 230 V AC | | Super resistant [K] new |
|---------------------------------|---|---|---|
| | 1 MW | 1 MW | 230 V AC |
| Mounting width | 4,5 kA | 6 kA | 6 kA |
| Short-circuit breaking capacity | Right | Right | Right |
| N connection |  |  |  |

| $I_{\Delta n}$ | I_n | Bulk packaging (12 units) | Characteristic | | | Characteristic | |
|-------------------|-------|------------------------------|----------------|---------------|---------------|----------------|---------------|
| | | | C | B | C | B | C |
| Type F | | | | | | | |
| 30 mA | 6 A | – | – | – | – | 5SV1316-3KK06 | 5SV1316-4KK06 |
| | 10 A | – | – | – | – | 5SV1316-3KK10 | 5SV1316-4KK10 |
| | 13 A | – | – | – | – | 5SV1316-3KK13 | 5SV1316-4KK13 |
| | 16 A | – | – | – | – | 5SV1316-3KK16 | 5SV1316-4KK16 |
| Type AC | | | | | | | |
| 30 mA | 2 A | – | 5SV1313-1KK02 | – | 5SV1316-1KK02 | – | – |
| | 4 A | – | 5SV1313-1KK04 | – | 5SV1316-1KK04 | – | – |
| | 6 A | – | 5SV1313-1KK06 | 5SV1316-0KK06 | 5SV1316-1KK06 | – | – |
| | 10 A | – | 5SV1313-1KK10 | 5SV1316-0KK10 | 5SV1316-1KK10 | – | – |
| | | ■ | 5SV1313-1GV10 | – | 5SV1316-1GV10 | – | – |
| | 13 A | – | 5SV1313-1KK13 | 5SV1316-0KK13 | 5SV1316-1KK13 | – | – |
| | 16 A | – | 5SV1313-1KK16 | 5SV1316-0KK16 | 5SV1316-1KK16 | – | – |
| 300 mA new | | ■ | 5SV1313-1GV16 | – | 5SV1316-1GV16 | – | – |
| | 2 A | – | 5SV1613-1KK02 | – | 5SV1616-1KK02 | – | – |
| | 4 A | – | 5SV1613-1KK04 | – | 5SV1616-1KK04 | – | – |
| | 6 A | – | 5SV1613-1KK06 | 5SV1616-0KK06 | 5SV1616-1KK06 | – | – |
| | 10 A | – | 5SV1613-1KK10 | 5SV1616-0KK10 | 5SV1616-1KK10 | – | – |
| | 13 A | – | 5SV1613-1KK13 | 5SV1616-0KK13 | 5SV1616-1KK13 | – | – |
| | 16 A | – | 5SV1613-1KK16 | 5SV1616-0KK16 | 5SV1616-1KK16 | – | – |

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |

| Remote controlled (RC) mechanisms | | Article No. |
|------------------------------------|--------------------------------|-------------|
| Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 |
| | 177 ... 270 V AC | 5ST3054 |
| Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 |
| | 177 ... 270 V AC | 5ST3056 |
| Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 |
| | 177 ... 270 V AC | 5ST3058 |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 |
| Adapter for RC mechanism | | Article No. |
| 1 MW | | 5ST3820-6 |
| Arc fault detection devices (AFDD) | | Article No. |
| For 5SV1 basic units | I_n up to 16 A | 5SM6011-2 |

5SM6 arc fault detection devices

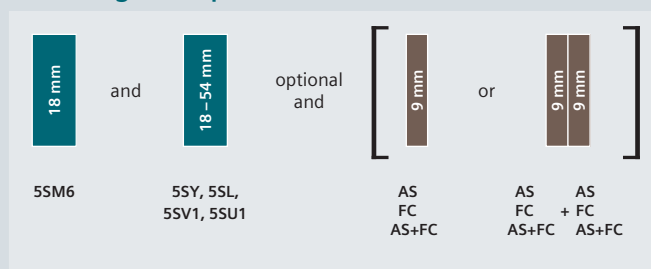
For combination with an MCB or RCBO



| For combination with basic units | | | Rated current I _n | |
|----------------------------------|--|-------------------|------------------------------|-----------|
| Width of basic unit | Miniature circuit breakers | RCBO | | |
| 1 MW | 5SL60 (no KL types) | 5SV1 | Up to 16 A | 5SM6011-2 |
| | | | Up to 40 A | 5SM6014-2 |
| 2 MW | 5SY ¹⁾ , 5SL4 (only 1+N devices) | 5SU1 (2 MW, 3 MW) | Up to 16 A | 5SM6021-2 |
| | | | Up to 40 A | 5SM6024-2 |

¹⁾ but not for 5SY5 or 5SY8

Mounting concept



AS Auxiliary switch [See page 4/54](#)
 FC Fault signal contact [See page 4/56](#)
 AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)

The mounting concept shown is only one example of how devices and accessories can be combined.

Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |

siehe Suitable busbars, page 4/64 onwards
 siehe Suitable terminals and end caps, page 4/64 onwards

5SV6 arc fault detection devices

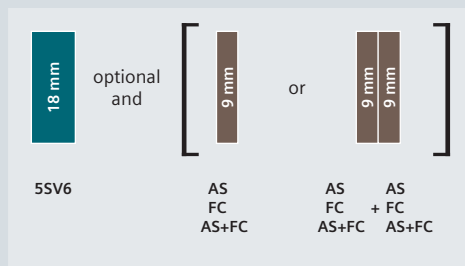
With integrated miniature circuit breaker



| Rated current I _n | Bulk packaging (12 units) | Characteristic | | Characteristic | |
|------------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------|--------------------------|
| | | B | C | B | C |
| 6 A | – ■ | 5SV6016-6KK06 5SV6016-6GV06 | 5SV6016-7KK06 5SV6016-7GV06 | 5SV6016-6KP06 new | 5SV6016-7KP06 new |
| 10 A | – ■ | 5SV6016-6KK10 5SV6016-6GV10 | 5SV6016-7KK10 5SV6016-7GV10 | 5SV6016-6KP10 new | 5SV6016-7KP10 new |
| 13 A | – ■ | 5SV6016-6KK13 5SV6016-6GV13 | 5SV6016-7KK13 – | 5SV6016-6KP13 new | 5SV6016-7KP13 new |
| 16 A | – ■ | 5SV6016-6KK16 5SV6016-6GV16 | 5SV6016-7KK16 5SV6016-7GV16 | 5SV6016-6KP16 new | 5SV6016-7KP16 new |
| 20 A | – | 5SV6016-6KK20 | 5SV6016-7KK20 | 5SV6016-6KP20 new | 5SV6016-7KP20 new |
| 25 A | – ■ | 5SV6016-6KK25 5SV6016-6GV25 | 5SV6016-7KK25 – | 5SV6016-6KP25 new | 5SV6016-7KP25 new |
| 32 A | – | 5SV6016-6KK32 | 5SV6016-7KK32 | 5SV6016-6KP32 new | 5SV6016-7KP32 new |
| 40 A | – | 5SV6016-6KK40 | 5SV6016-7KK40 | 5SV6016-6KP40 | 5SV6016-7KP40 |

4

Mounting concept



AS Auxiliary switch [See page 4/54](#)
 FC Fault signal contact [See page 4/56](#)
 AS+FC Auxiliary switch and fault signal contact [See page 4/58](#)

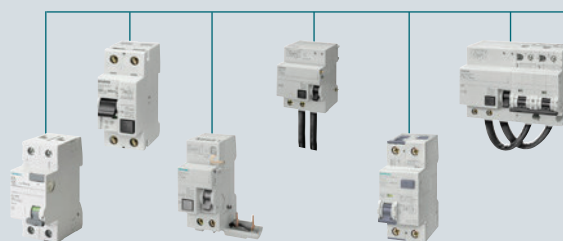
Accessories

| Auxiliary switches (AS) | | Article No. |
|--|----------------------------|---------------|
| 1 NO contact + 1 NC contact | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO contacts | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC contacts | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO contact | Standard | 5ST3016 |
| Fault signal contacts (FC) | | Article No. |
| 1 NO contact + 1 NC contact | | 5ST3020 |
| 2 NO contacts | | 5ST3021 |
| 2 NC contacts | | 5ST3022 |
| Auxiliary switches and fault signal contacts (AS+FC) | | Article No. |
| 1 CO contact (AS) + 1 CO contact (FC) | | 5ST3062 |

siehe Suitable busbars, page 4/64 onwards
 siehe Suitable terminals and end caps, page 4/64 onwards

Overview of modular system

Residual current protective devices



5SV 5SM3 5SM2+LS 5SM2+5SP4 5SU1 5SU1 (125 A)

4

| | | | Article No. | 5SV | 5SM3 | 5SM2+LS | 5SM2+5SP4 | 5SU1 | 5SU1 (125 A) |
|---|-------------------------------------|----------------------------------|---------------|-------------|------|---------|-----------|------|--------------|
| 5SM6 arc fault detection devices | | | | | | | | | |
|  | Rated current up to 16 A | Standard | 5SM6021-2 | - | - | - | - | ■ | - |
| | | For compact devices 1P+N in 1 MW | 5SM6011-2 | - | - | - | - | - | - |
| | Rated current up to 40 A | Standard | 5SM6024-2 | - | - | - | - | ■ | - |
| | | For compact devices 1P+N in 1 MW | 5SM6014-2 | - | - | - | - | - | - |
| Auxiliary switches (AS) | | | Article No. | | | | | | |
|  | 1 NO contact + 1 NC contact | Standard | 5ST3010 | ■ | - | ■ | ■ | ■ | ■ |
| | | For low power | 5ST3013 | ■ | - | ■ | ■ | ■ | ■ |
| | | For low power (with diode) | 5ST3013-0XX01 | ■ | - | ■ | ■ | ■ | ■ |
| | 2 NO contacts | Standard | 5ST3011 | ■ | - | ■ | ■ | ■ | ■ |
| | | For low power | 5ST3014 | ■ | - | ■ | ■ | ■ | ■ |
| | 2 NC contacts | Standard | 5ST3012 | ■ | - | ■ | ■ | ■ | ■ |
| For low power | | 5ST3015 | ■ | - | ■ | ■ | ■ | ■ | |
| 1 CO contact | Standard | 5ST3016 | ■ | - | ■ | ■ | ■ | ■ | |
| Fault signal contacts (FC) | | | Article No. | | | | | | |
|  | 1 NO contact + 1 NC contact | | 5ST3020 | ■ | - | ■ | ■ | ■ | ■ |
| | 2 NO contacts | | 5ST3021 | ■ | - | ■ | ■ | ■ | ■ |
| | 2 NC contacts | | 5ST3022 | ■ | - | ■ | ■ | ■ | ■ |
| Auxiliary switches and fault signal contacts (AS+FC) | | | Article No. | | | | | | |
| 1 CO contact (AS) + 1 CO contact (FC) | Standard | | 5ST3062 | ■ | - | ■ | ■ | ■ | ■ |
| Shunt releases (ST) | | | Article No. | | | | | | |
|  | 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | ■ | - | ■ | ■ | ■ | ■ |
| | 24 ... 48 V AC/DC | | 5ST3031 | ■ | - | ■ | ■ | ■ | ■ |
| | 12 V DC new | | 5ST3031-0XX01 | ■ | - | ■ | ■ | ■ | ■ |
| Undervoltage releases (UR) | | | Article No. | | | | | | |
|  | With integrated auxiliary switch | 230 V AC | 5ST3040 | ■ | - | ■ | ■ | ■ | ■ |
| | | 110 V DC | 5ST3041 | ■ | - | ■ | ■ | ■ | ■ |
| | | 24 V DC | 5ST3042 | ■ | - | ■ | ■ | ■ | ■ |
| | Without integrated auxiliary switch | 230 V AC | 5ST3043 | ■ | - | ■ | ■ | ■ | ■ |
| | | 110 V DC | 5ST3044 | ■ | - | ■ | ■ | ■ | ■ |
| | | 24 V DC | 5ST3045 | ■ | - | ■ | ■ | ■ | ■ |
| Remote controlled (RC) mechanisms | | | Article No. | | | | | | |
|  | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 | - | - | - | - | ■ | - |
| | | 177 ... 270 V AC | 5ST3054 | - | - | - | - | ■ | - |
| | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 | ■ | - | ■ | - | ■ | - |
| | | 177 ... 270 V AC | 5ST3056 | ■ | - | ■ | - | ■ | - |
| | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 | ■ | - | ■ | - | ■ | - |
| | | 177 ... 270 V AC | 5ST3058 | ■ | - | ■ | - | ■ | - |
| | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 | ■ | - | ■ | - | ■ | - |
| | Standard busbars | | | Article No. | | | | | |
|  | Cannot be cut | | 5ST36.. | ■ | - | ■ | ■ | ■ | ■ |
| | Can be cut | | 5ST37.. | ■ | - | ■ | ■ | ■ | ■ |
| Compact busbars | | | Article No. | | | | | | |
|  | Cannot be cut | | 5ST36.. | ■ | - | - | - | - | - |
| | Can be cut | | 5ST37.. | ■ | - | - | - | - | - |

from page 4/18

from page 4/32

■ Suitable for all versions

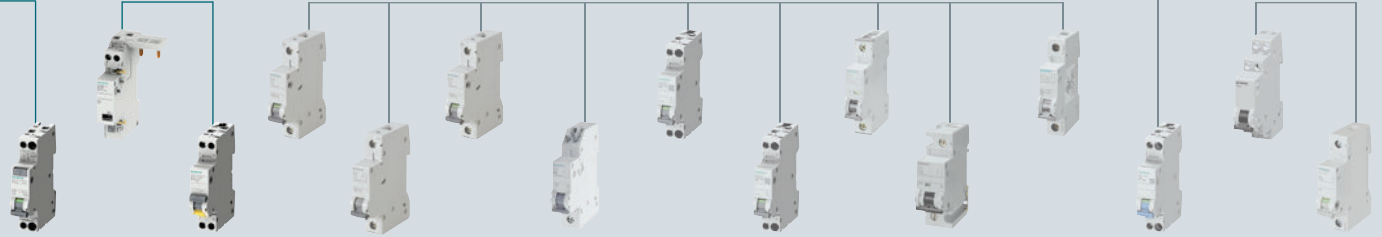
□ Suitable for some versions

Device protection switches

Arc fault detection devices

Miniature circuit breakers

Switching devices



| 5SV1 | 5SM6 | 5SV6 | 5SL3 | 5SL6 | 5SL4 | 5SJ6...-KS | 5SL30 | 5SL60 | 5SY | 5SP4 | 5SJ4..HG.. | 5SY17 | 5TE8 | 5TL |
|------|------|------|------|------|------|------------|-------|-------|-----|------|------------|-------|------|-----|
| - | - | - | - | - | □ | - | - | - | □ | - | - | - | - | - |
| ■ | - | - | - | - | - | - | - | □ | - | - | - | - | - | - |
| - | - | - | - | - | □ | - | - | - | □ | - | - | - | - | - |
| ■ | - | - | - | - | - | - | - | □ | - | - | - | - | - | - |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | - | - |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | - | - |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | ...-OHG | ■ | - | - |
| ■ | □ | ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ | - | ■ | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | ...-OHG | - | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | ...-OHG | - | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | - | - | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | - | - | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | - | - | - | - |
| - | □ | - | - | - | ■ | - | - | - | ■ | ■ | - | - | - | - |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | - | - | ■ | ■ | □ | - | - | □ | □ | ■ | - | ■ | - | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ |
| ■ | □ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | □ | ■ |
| ■ | ■ | ■ | □ | □ | □ | - | ■ | ■ | - | - | - | ■ | - | - |
| ■ | ■ | ■ | □ | □ | □ | - | ■ | ■ | - | - | - | - | - | - |

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from page 3/12

from page 3/40

from page 5/6

Electrical accessories



Auxiliary switches (AS)

- Signals contact point of the mounted device
- Version for the switching of small currents and voltages for the control of programmable control systems (PLCs) according to EN 61131-2
- Test button enables the testing of control circuits without the need to switch the mounted device

| For combination with basic units | | | | | | Contacts | Version | Width (1 MW = 18 mm) | Article No. | | | | | | |
|---|----------------------------------|---------------------------|------------------------------|-----------------------------------|--------------------|--------------------------------|-------------------------------|----------------------------|---------------|--|--|---------------|---------------|--------|-----------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBOs | Arc fault detection devices | ON/OFF switches | | | | | | | | | | |
| Auxiliary switches (AS) | | | | | | | | | | | | | | | |
| – | – | 5SM3 (3P+N, 100/125 A) | – | – | – | 1 NO contact + 1 NC contact | Standard | 0.5 MW | 5SW3330 | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 5TL1, 5TE8 | 1 NO contact + 1 NC contact | Standard | 0.5 MW | 5ST3010 | | | | | | |
| | | | | | | | For low power | 0.5 MW | 5ST3013 | | | | | | |
| | | | | | | | For low power (with diode) | 0.5 MW | 5ST3013-0XX01 | | | | | | |
| | | | | | | | | | | | | 2 NO contacts | Standard | 0.5 MW | 5ST3011 |
| | | | | | | | | | | | | | For low power | 0.5 MW | 5ST3014 |
| | | | | | | | | | | | | 2 NC contacts | Standard | 0.5 MW | 5ST3012 |
| | | | | | | For low power | 0.5 MW | 5ST3015 | | | | | | | |
| | | | | | | 1 CO contact | Standard | 0.5 MW | 5ST3016 | | | | | | |
| Auxiliary switches (AS) with TEST button | | | | | | | | | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 5TL1, 5TE8 | 1 NO contact + 1 NC contact | Standard | 0.5 MW | 5ST3010-2 | | | | | | |
| | | | | | | | For low power | 0.5 MW | 5ST3013-2 | | | | | | |
| | | | | | | | | | | | | 2 NO contacts | Standard | 0.5 MW | 5ST3011-2 |
| | | | | | | | | | | | | | For low power | 0.5 MW | 5ST3014-2 |
| | | | | | | | | | | | | 2 NC contacts | Standard | 0.5 MW | 5ST3012-2 |
| | | | | | | For low power | 0.5 MW | 5ST3015-2 | | | | | | | |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

| | | 5ST3010, 5ST3010-2, 5ST3011, 5ST3011-2, 5ST3012, 5ST3012-2, 5ST3016 | 5ST3013, 5ST3014, 5ST3015, 5ST3013-0XX01 | 5ST3013-2 5ST3014-2 5ST3015-2 |
|---|------------------------|--|--|-------------------------------------|
| Standards | | | | |
| Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 | | |
| Contacts | | | | |
| Minimum contact load | | 50 mA, 24 V | 1 mA, 5 V DC | 5 mA, 5 V DC |
| Maximum contact load | | – | 100 mA, 30 V DC | 30 mA, 30 V DC |
| Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A | – | – |
| | 400 V AC, AC-14 | 2 A | – | – |
| | 24 V DC, DC-13 | 6 A | – | – |
| | 60 V DC, DC-13 | 3 A | – | – |
| | 110 V DC, DC-13 | 1 A | – | – |
| | 220 V DC, DC-13 | 1 A | – | – |
| Service life, on average, with rated load | | 20 000 actuations | | |
| Safety | | | | |
| Short-circuit protection | | Miniature circuit breakers or gG 6 A fuse | | |
| Connections | | | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) | | |
| Terminals | Max. tightening torque | 0.5 Nm [4.5 lb-in] | | |
| Environmental conditions | | | | |
| Permissible ambient temperature | | –25 ... +55 °C | | |
| Permissible storage temperature | | –40 ... +75 °C | | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | | |
| Mounting position | | Any | | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² | | |
| Vibration resistance at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² | | |

Electrical accessories



Fault signal contacts (FC)

- Signals the automatic tripping of the protective device in the event of a fault, such as an overload or a short circuit
- If the fault signal contact is activated, the contact position does not change if the in-built protective device is tripped manually
- Version with TEST and RESET buttons enables the testing of control circuits without the need to trip the protective device
- Red RESET button in the operating handle indicates automatic shutdown of the mounted protective device

| For combination with basic units | | | | | Contacts | Width (1 MW = 18 mm) | Article No. |
|---|----------------------------|-------|---------------------------|-----------------------------|-----------------------------|-------------------------|-------------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBO | Arc fault detection devices | | | |
| Fault signal contacts (FC) | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 NO contact + 1 NC contact | 0.5 MW | 5ST3020 |
| | | | | | 2 NO contacts | 0.5 MW | 5ST3021 |
| | | | | | 2 NC contacts | 0.5 MW | 5ST3022 |
| Fault signal contacts (FC) with Test and Reset buttons | | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 NO contact + 1 NC contact | 0.5 MW | 5ST3020-2 |
| | | | | | 2 NO contacts | 0.5 MW | 5ST3021-2 |
| | | | | | 2 NC contacts | 0.5 MW | 5ST3022-2 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3020, 5ST3020-2
5ST3021, 5ST3021-2
5ST3022, 5ST3022-2

| Standards | | |
|---|--|--|
| Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 |
| Contacts | | |
| Minimum contact load | | 50 mA, 24 V |
| Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 400 V AC, AC-14 24 V DC, DC-13 60 V DC, DC-13 110 V DC, DC-13 220 V DC, DC-13 | 6 A 2 A 6 A 3 A 1 A 1 A |
| Service life, on average, with rated load | | 20 000 actuations |
| Safety | | |
| Short-circuit protection | | Miniature circuit breakers or gG 6 A fuse |
| Connections | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) |
| Terminals | Max. tightening torque | 0.5 Nm [4.5 lb-in] |
| Environmental conditions | | |
| Permissible ambient temperature | | -25 ... +55 °C |
| Permissible storage temperature | | -40 ... +75 °C |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| Mounting position | | Any |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² |
| Vibration resistance at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² |

Electrical accessories



Auxiliary switches and fault signal contacts (AS+FC)

- Combine the properties of both switches in a width of only 0.5 MW (9 mm)
- Signal contact point of the mounted device
- Signal the automatic tripping of the protective device in the event of a fault, such as an overload, short circuit or residual current
- If the fault signal contact is activated, the contact position does not change if the in-built protective device is tripped manually

| For combination with basic units | | | | Contacts | Width (1 MW = 18 mm) | Article No. |
|---|----------------------------|-------|---------------------------|-----------------------------|--|-----------------------|
| Miniature circuit breakers | Device protection switches | RCCBs | RCBO | Arc fault detection devices | | |
| Auxiliary switches and fault signal contacts (AS+FC) | | | | | | |
| 5SL, 5SY, 5SP4 | 5SY17 | 5SV | 5SU1 ¹⁾ , 5SV1 | 5SV6 | 1 CO contact (AS) + 1 CO contact (FC) | 0.5 MW 5ST3062 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3062

| Standards | | Standards | IEC/EN UL, CSA | IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235 |
|---------------------------------|--|---|------------------------|--|
| Contacts | | Minimum contact load | | 50 mA, 24 V |
| | | Maximum contact load | | – |
| | | Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A |
| | | | 400 V AC, AC-14 | 2 A |
| | | Contact load according to IEC/EN 62019 (acc. to IEC/EN 60947-5-1) | 24 V DC, DC-13 | 3 A (3 A) |
| | | | 60 V DC, DC-13 | 3 A (1 A) |
| | | | 110 V DC, DC-13 | 0.5 A (0.5 A) |
| | | | 220 V DC, DC-13 | 0.5 A (0.3 A) |
| | | Service life, on average, with rated load | | 20 000 actuations |
| Safety | | Short-circuit protection | | Miniature circuit breakers or gG 6 A fuse |
| Connections | | Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) |
| | | Terminals | Max. tightening torque | 0.5 Nm [4.5 lb-in] |
| Environmental conditions | | Permissible ambient temperature | | –25 ... +55 °C |
| | | Permissible storage temperature | | –40 ... +75 °C |
| | | Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| | | Mounting position | | Any |
| | | Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² |
| | | Vibration resistance at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² |



Shunt releases (ST)

- For remote-controlled tripping of the mounted device

| For combination with basic units | | | Rated voltage U_n | Width (1 MW = 18 mm) | Article No. |
|----------------------------------|-------|--------------------|------------------------------------|-------------------------|---------------|
| Miniature circuit breakers | RCCBs | RCBO | | | |
| Shunt releases (ST) | | | | | |
| 5SL4, 5SY, 5SP4 | 5SV | 5SU1 ¹⁾ | 110 ... 415 V AC, 110 ... 220 V DC | 1 MW | 5ST3030 |
| | | | AC/24 ... 48 V DC | 1 MW | 5ST3031 |
| | | | 12 V DC new | 1 MW | 5ST3031-0XX01 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

| | 5ST3030 | 5ST3031 | 5ST3031-0XX01 |
|---|---|---------------------|---------------|
| Standards | | | |
| Standards | IEC/EN | EN 60947-1 | |
| Supply | | | |
| Primary operating range | 0.7 ... 1.1 × U_n | | |
| Rated frequency f_n | 50 ... 60 Hz | | – |
| Contacts | | | |
| Minimum contact load | 50 mA, 24 V | | 1 mA, 5 V |
| Tripping operations | Max. 2000 | | |
| Service life, on average, with rated load | Actuations | 20000 | |
| Safety | | | |
| Short-circuit protection | Miniature circuit breakers B/C 6 A or fuse gG 6 A | | |
| Connections | | | |
| Conductor cross-sections | 0.5 ... 2.5 mm ² (AWG 22 ... 14) | | |
| Terminals | Max. tightening torque | 0.8 Nm [6.8 lb-in] | |
| Environmental conditions | | | |
| Permissible ambient temperature | –25 ... +55 °C | –40 ... +70 °C | |
| Permissible storage temperature | –40 ... +75 °C | | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | |
| Mounting position | Any | | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² | |
| Vibration resistance at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² | |

Electrical accessories



Undervoltage releases (UR)

- Integrated, for example, in EMERGENCY-OFF loops
- Ensure that the mounted device trips in the event of an emergency, guaranteeing disconnection of the control circuit according to EN 60204.
- Trip the mounted device if the voltage is interrupted or too low, i.e. prevents activation of the mounted device

| For combination with basic units | | | Rated voltage U_n | Width (1 MW = 18 mm) | Article No. |
|--|-------|--------------------|---------------------|-------------------------|-------------|
| Miniature circuit breakers | RCCBs | RCBO | | | |
| With integrated auxiliary switch | | | | | |
| 5SL4, 5SY, 5SP4 | 5SV | 5SU1 ¹⁾ | 230 V AC | 1 MW | 5ST3040 |
| | | | 110 V DC | 1 MW | 5ST3041 |
| | | | 24 V DC | 1 MW | 5ST3042 |
| Without integrated auxiliary switch | | | | | |
| 5SL4, 5SY, 5SP4 | 5SV | 5SU1 ¹⁾ | 230 V AC | 1 MW | 5ST3043 |
| | | | 110 V DC | 1 MW | 5ST3044 |
| | | | 24 V DC | 1 MW | 5ST3045 |

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST304.

| | | |
|---|------------------------|---|
| Standards | | |
| Standards | IEC/EN | EN 60947-1 |
| Supply | | |
| Primary operating range | | 0.85 ... 1.1 × U_n |
| Rated frequency f_n | | 50/60 Hz |
| Contacts | | |
| Minimum contact load | | 50 mA, 24 V |
| Tripping operations | | Max. 2000 |
| Service life, on average, with rated load | Actuations | 20000 |
| Safety | | |
| Short-circuit protection | | Miniature circuit breakers B/C 6 A or fuse gG 6 A |
| Connections | | |
| Conductor cross-sections | | 0.5 ... 2.5 mm ² (AWG 22 ... 14) |
| Terminals | Max. tightening torque | 0.8 Nm [6.8 lb-in] |
| Environmental conditions | | |
| Permissible ambient temperature | | -25 ... +55 °C |
| Permissible storage temperature | | -40 ... +75 °C |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| Mounting position | | Any |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 m/s ² |
| Vibration resistance at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 m/s ² |



5ST3 remote controlled (RC) mechanisms

- For operating facilities that are extensive or not continuously staffed
- Allow direct and immediate access to the plant even if it is remote or in a location that is hard to reach
- Permit fast restarts following a fault
- Version with ARD with automatic restart
- Versions with ARD and Power with integrated auxiliary switches and fault signal contacts

| Remote controlled type | Display | Ambient temperature | Vibration and shock requirements | Rated voltage U_n | Width (1 MW = 18 mm) | Article No. |
|------------------------------|---------|---------------------|----------------------------------|--------------------------------|----------------------|-------------|
| Basic | – | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 1.5 MW | 5ST3053 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3054 |
| Power | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3055 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3056 |
| Power with ARD | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3057 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3058 |
| Power with extended function | LED | –40 °C ... +70 °C | Acc. to EN 61373 / EN 50155 "1B" | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3070 |

| Further technical specifications | 5ST3053 | 5ST3054 | 5ST3055 | 5ST3056 | 5ST3057 | 5ST3058 | 5ST3070 |
|--|---|---------|-----------------|---------|---------|----------------|---------|
| Standards | | | | | | | |
| Standards | EN 50557 (VDE 0640-20) | | | | | | |
| Supply | | | | | | | |
| Rated frequency f_n | 50 ... 60 Hz | | | | | | |
| Rated power dissipation on standby | ≤1 VA | | | | | | |
| Contacts | | | | | | | |
| Service life, on average, with rated load | Actuations | 10000 | | | | | |
| Number of remote switching operations per minute | 2 | | | | | | |
| Number of automatic reclose attempts | – | | | | 3 | – | |
| Cable length in the control circuit | ≤1500 m | | | | | | |
| Sliding selector with locking device | – | ■ | – | | | | |
| Integrated auxiliary switches | – | | 1CO; 2 A; 250 V | | | | |
| Integrated fault signal contacts | – | | 1CO; 2 A; 250 V | | | | |
| Connections | | | | | | | |
| Conductor cross-sections | 0.5 ... 1.5 mm ² (AWG 14 ... 30) | | | | | | |
| Terminal tightening torque | 0.2 ... 0.25 Nm (2.0 lb-in) | | | | | | |
| Environmental conditions | | | | | | | |
| Permissible storage temperature | –40 ... +55 °C | | | | | –40 ... +70 °C | |
| Degree of protection | IP20 | | | | | | |
| Pollution degree for overvoltage category | 3/II | | | | | | |

Suitable adapters for combination with basic units



| Basic units | Mounting width | | | | | | | Adapters |
|---------------|----------------|------|------|------|--------|--------|--------|-----------------------|
| | 1 MW | 2 MW | 3 MW | 4 MW | 2-pole | 3-pole | 4-pole | |
| 5SU1 | – | ■ | ■ | – | – | – | – | 5ST3820-5 |
| 5SV1 | ■ | – | – | – | – | – | – | 5ST3820-6 |
| 5SV3 | – | ■ | – | ■ | – | – | – | 5ST3820-6 |
| 5SM2 with 5SY | – | – | – | – | ■ | – | – | 5ST3820-3 + 5ST3820-1 |
| | – | – | – | – | – | ■ | ■ | 5ST3820-3 + 5ST3820-2 |
| 5SM2 with 5SL | – | – | – | – | ■ | – | – | 5ST3820-3 + 5ST3820-6 |
| | – | – | – | – | – | ■ | ■ | 5ST3820-3 + 5ST3820-7 |

Mechanical accessories

Handle couplers for additional components



- Necessary for mounting the additional components auxiliary switches, fault signal contacts, shunt trips and undervoltage releases onto the 5SU1 RCBO
- 1 set = 5 units

Article No.

5ST3805-1

Handle locking devices



- To prevent undesired mechanical ON/OFF switching
- Sealable and lockable
- For padlock with 3 ... 6 mm shackle

Version

For 5SV RCCBs, 5SV1 RCBOs, 5SV6 arc fault detection devices

Article No.

5ST3806

For 5SU1 RCBOs

5ST3801-1



Locking device

- For 5SV RCCBs, 5SV1 RCBOs, 5SV6 arc fault detection devices

Comprising:

5ST3806 handle locking device and 5ST3802 padlock

Article No.

5ST3807

Padlock



- For 5ST3801 and 5ST3806 handle locking devices and remote operating mechanisms 5ST3054 ... 58, 5ST3070

Article No.

5ST3802

Device labels



- For adhesive attachment
- For modular installation devices, such as 5SY, 5SL, 5TL1

Versions

15 mm x 6 mm, white (WIN 098)

Article No.

8WH8210-0AA35

15 mm x 6 mm, yellow (WIN 099)

8WH8210-0AA36

Covers for connection terminals



- For 5SV3 and 5SV4 residual current operated circuit breakers, sealable (2 units in plastic bag)

Mounting width

2 MW

Article No.

5SW3010

4 MW

5SW3008

Terminal covers, gray



- For surface mounting, IP40 degree of protection
- Sealable
- Can be used with 35 mm DIN rail

For width up to

2.5 MW

Article No.

5SW3004

4.5 MW

5SW3005

Wall enclosures, gray



- For flush mounting, IP40 degree of protection
- Can be used with 35 mm DIN rail

For width up to

2.5 MW

Article No.


5SW3006


4.5 MW

5SW3007

RCCB protective socket outlets

Acc. to VDE 0664

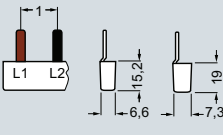
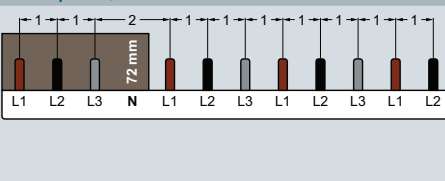
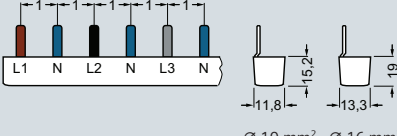
| Covers | | |
|---|--|--------------------|
|  | <ul style="list-style-type: none"> • Can be assembled as mini-distribution board • Suitable for all devices • Cover parts prepared for rail mounting of conventional label caps | |
| | Comprising: | Article No. |
| | End plates | 5ST2134 |
| | Angled profile | 5ST2135 |
| Flat profile as alternative | 5ST2136 | |

| RCCB protective socket outlets in molded-plastic enclosures | | | |
|---|---|---------------------------------------|--------------------|
|  | <ul style="list-style-type: none"> • Equipped with RCCB and flush-mounted SCHUKO® socket outlet • IP54 degree of protection | | |
| | Rated residual current $I_{\Delta n}$ | Rated current I_n | Article No. |
| | 10 mA | 16 A | 5SZ9206 |
| | 30 mA | 16 A | 5SZ9216 |

Standard busbars



5ST36, fixed lengths, cannot be cut

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | Conductor cross-section | |
|--|---|---------------|--------|-------------------------|------------------------|
| | | | | 10 mm ² | 16 mm ² |
| Two-phase  Ø 10 mm ² Ø 16 mm ² | For 6 MCBs 2P | 12 MW | 210 mm | Article No. 5ST3608 | Article No. 5ST3638 |
| Three-phase, for MCBs with RCCB  Ø 10 mm ² Ø 16 mm ² | For 8 MCBs 1P with 1 RCCB 3P+N, N right | 12 MW | 210 mm | Article No. 5ST3624 | Article No. 5ST3654 |
| Four-phase  Ø 10 mm ² Ø 16 mm ² | For 6 MCBs 2P or 1P+N | 12 MW | 215 mm | Article No. 5ST3623 | Article No. 5ST3653 |

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5ST37, schneidbar

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | End caps included | Conductor cross-section | |
|---------------------------------------|---|---------------|---------|-------------------|-------------------------|--------------------|
| | | | | | 10 mm ² | 16 mm ² |
| Two-phase | | | | | Article No. | Article No. |
| | For 2 MW units (2P / 1+N) | 12 MW | 214 mm | ■ | 5ST3734 | 5ST3704 |
| | | 56 MW | 1016 mm | – | 5ST3735 | 5ST3705 |
| Four-phase, for MCBs with RCCB | | | | | Article No. | Article No. |
| | For MCBs 2P with 1 RCCB 1P+N | 56 MW | 1000 mm | – | 5ST3770-2 | 5ST3770-3 |
| | | | | | | |
| | For 6 MCBs 1P+N with 1 RCCB 4P N right | 16 MW | 292 mm | ■ | 5ST3770-4 | 5ST3770-5 |
| | | | | | | |

4

Accessories for busbars 5ST36 and 5ST37

| End caps for 5ST37 | | |
|---------------------------------------|-------------|--|
| Version | Article No. | |
| For two-phase and three-phase busbars | 5ST3750 | |
| For 4-phase busbars | 5ST3718 | |



Standard busbars

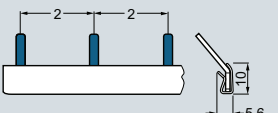
5ST36 and 5ST37

Fixed lengths, cannot be cut, for devices with add-on 5SM6 arc fault detection devices

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | Endkappen inkl. | Color | Conductor cross-section 10 mm ² | Article No. |
|---|-------------|---------------|--------|-----------------|-------|---|-------------|
| Three-phase  | For 5SM601 | 12 MW | 210 mm | – | Gray | | 5ST3615-1 |

4

Can be cut, for devices with add-on 5SM6 arc fault detection devices

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | Endkappen inkl. | Color | Conductor cross-section 10 mm ² | Article No. |
|--|--------------------|---------------|---------|-----------------|--------------|---|------------------------|
| Single-phase, straight  | For 5SM601. | 56 MW | 1000 mm | – | Gray Blue | | 5ST3764-1 5ST3765-2 |
| Single-phase, angled 45°  | For 5SM601. | 56 MW | 1000 mm | – | Blue | | 5ST3765-1 |
| Two-phase  | For 5SM602. (1P+N) | 56 MW | 1000 mm | – | Gray | | 5ST3735-1 |
| Three-phase  | For 5SM601. | 60 MW | 1050 mm | – | Gray | | 5ST3740-1 |
| Four-phase  | For 5SM602. | 52 MW | 950 mm | – | Gray | | 5ST3746-1 |



Can be cut, for devices with add-on 5SM6 arc fault detection devices and infeed via RCCB

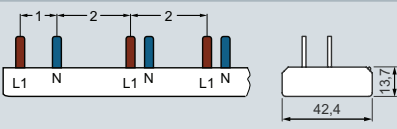

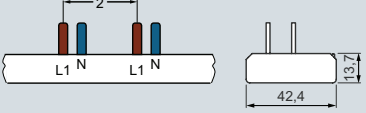
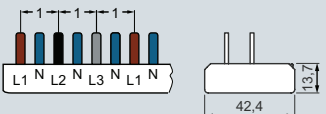
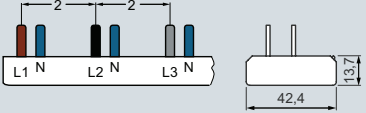
| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | End caps included | Color | Conductor cross-section 16 mm ² Article No. |
|--------------------------------------|---|---------------|--------|-------------------|-------|--|
| Two-phase | For RCCB 2P N-right and 5 AFDD (5SM601.) + compact device | 12 MW | 214 mm | ■ | Gray | 5ST3772 |

Accessories

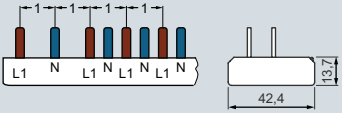
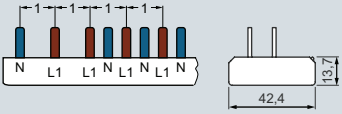
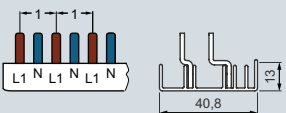

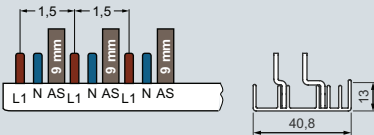
| | | |
|--|-------------|--------------------|
| Terminals for infeed at side | | Article No. |
| For conductors up to 25 mm ² | Short | 5ST3768 |
| | Short, IP20 | 5ST3771-2 |
| | Long | 5ST3771-1 |
| End caps | | Article No. |
| For single-phase busbars | Gray | 5ST3766 |
| | Blue | 5ST3767 |
| For two- and three-phase busbars | | 5ST3750 |
| For four-phase busbars | | 5ST3718 |
| Touch protection | | Article No. |
| For free connections, yellow (RAL 1004) 5x 1 pin | | 5ST3655 |

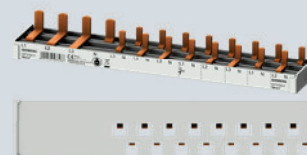
Compact busbars

5ST36, fixed lengths, cannot be cut

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | End caps included | Conductor cross-section 10 mm ² |
|---|---|------------------|--------|----------------------|--|
| Two-phase, for infeed via RCCB | | | | | |
|  | For 1 x RCCB 1P+N and 5 x compact devices equipped with 5SM6 arc fault detection device | 12 MW | 216 mm | ■ | Article No. 5ST3685-0 |
| Two-phase | | | | | |
|  | For compact devices | 6 MW | 113 mm | ■ | Article No. 5ST3674-6 new |
| | | 9 MW | 166 mm | ■ | 5ST3674-7 new |
| | | 12 MW | 218 mm | ■ | 5ST3674-0 |
|  | For 6 compact devices equipped with 5SM6 arc fault detection device | 12 MW | 200 mm | ■ | 5ST3676-0 |
| Four-phase | | | | | |
|  | For compact devices | 6 MW | 113 mm | ■ | Article No. 5ST3673-6 new |
| | | 9 MW | 166 mm | ■ | 5ST3673-7 new |
| | | 12 MW | 218 mm | ■ | 5ST3673-0 |
| | | 14 MW | 254 mm | ■ | 5ST3673-4 new |
|  | For 6 compact devices equipped with 5SM6 arc fault detection device | 11 MW | 200 mm | ■ | 5ST3675-0 |

5ST37, can be cut

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | End caps included | Conductor cross-section 10 mm ² |
|---|---|------------------|---------|----------------------|--|
| Two-phase, for infeed via RCCB | | | | | |
|  | For 1 x RCCB 1P+N and 10 x compact devices | 12 MW | 215 mm | ■ | Article No. 5ST3784-0 |
|  | For 1 x RCCB 1P+N (RCCB N left only) and 10 x compact devices | 12 MW | 215 mm | ■ | 5ST3784-0KL |
| Two-phase | | | | | |
|  | For compact devices | 60 MW | 1060 mm | ■ | Article No. 5ST3774-0 |
|  | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3776-0 |
|  | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3778-0 |



5ST37, can be cut

| Pin spacings in MW (1 MW = 18 mm) | Application | Number of MWs | Length | End caps included | Conductor cross-section 10 mm ² |
|--|--|---------------|---------|-------------------|---|
| Two-phase | | | | | |
| | For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch | 58.5 MW | 1036 mm | – | Article No. 5ST3780-0 |
| Four-phase, for infeed via RCCB | | | | | |
| | For 1× RCCB 3P+N and 8× compact devices | 12 MW | 216 mm | ■ | Article No. 5ST3783-0 |
| | For 1× RCCB 3P+N (RCCB N left only) and 8× compact devices | 12 MW | 216 mm | ■ | 5ST3783-0KL |
| Four-phase | | | | | |
| | For compact devices | 60 MW | 1060 mm | – | Article No. 5ST3773-0 |
| | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3775-0 |
| | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3777-0 |

4

Accessories for 5ST3 compact busbars, versions that can and cannot be cut

| Touch protection for 5ST3 | | | | |
|---------------------------|--------------------------------------|------------------|-------------|--|
| Version | Color | Article No. | | |
| | For free connections, for pins L1, N | Yellow (RAL1004) | 5ST3655 | |
| | For pins L2 / L3 | Yellow (RAL1004) | 5ST3655-0HG | |
| End caps for 5ST3 | | | | |
| Version | Color | Article No. | | |
| | For two-phase and four-phase busbars | Gray | 5ST3788-0 | |
| Terminals, short, IP20 | | | | |
| Version | For conductors | Infeed | Article No. | |
| | Up to 25 mm ² | Lateral | 5ST3771-2 | |



Electrical switching – on the safe side

Control and automatic functions always employ electrical switching.

Remote control switches for pulse controls, switching relays, or Insta contactors switch electrical loads.

Our low-voltage circuit protection technology offers a wide variety of contact versions and rated currents for the different requirements of these devices.

Safety, convenience and energy savings – these characterize automatic switching.

Switching Devices



| | |
|---|------|
| All the information you need | 5/2 |
| System overview | 5/4 |
| Installation switching devices | 5/6 |
| 5TE8 control switches | 5/6 |
| 5TE48 pushbuttons | 5/8 |
| 5TE58 light indicators | 5/10 |
| 5TE81/82 On/Off switches | 5/12 |
| 5TL1 On/Off switches | 5/14 |
| 5TE DC isolator | 5/16 |
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| 5TT44 remote control switches | 5/24 |
| 5TT4 auxiliary switches | 5/26 |
| 5TT42 switching relays | 5/28 |
| 5TT50 Insta contactors | 5/30 |
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| 5TT5 auxiliary switches | 5/34 |
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| 5TT3 timers for industrial applications | 5/47 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

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- Configuration manual – Switching devices (45315361)

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You can find further information on services at

www.siemens.com/service-catalog

Technical overview – Switching devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on switching devices

www.siemens.com/lowvoltage/product-support (109769083)

System overview

Basic units and accessories

Installation switching devices



5TE8 control switches



5TE48 pushbuttons



5TE58 light indicators



5TE81/82, 5TL1 On/Off switches, 5TE2



5TE DC isolators



5TE busbars



5TT41, 5TT4 remote control switches



5TT4, 5TT5 auxiliary switches



5TT42 switching relays



5TT50, 5TT58 Insta contactors



5TT3 soft-starting devices

Accessories



Auxiliary switches (AS)



Shunt trips (ST)



Undervoltage releases (UR)



Handle locking devices



LEDs



Caps/covers



Connectors

Timers



7LF4 digital time switches



7LF5 mechanical time switches



7LF6 timers for buildings **new**



5TT3 timers for industrial applications

Accessories



Holders

Note:

You will find a detailed range of accessories with the basic units.

5TE8 control switches

| | Control switches | Two-way switches | Group switches with center position |
|---|---|--|---|
| Rated operational current I_e per conducting path | 20 A | 20 A | 20 A |
| Rigid conductor cross-section | 1 ... 6 mm ² | 1 ... 6 mm ² | 1 ... 6 mm ² |
| Flexible conductor cross-section, with end sleeve | 1 ... 6 mm ² | 1 ... 6 mm ² | 1 ... 6 mm ² |
| |  |  |  |

| Contacts | U_e AC | Mounting width | Auxiliary switches | | Auxiliary switches | | Auxiliary switches |
|-------------------|----------|----------------|-----------------------|---------|-----------------------|---------|-----------------------|
| | | | Cannot be retrofitted | Mounted | Cannot be retrofitted | Mounted | Cannot be retrofitted |
| 1 NO | 48 V | 1 MW | 5TE8101-3 | – | – | – | – |
| | 230 V | 1 MW | 5TE8101 | – | – | – | – |
| 2 NO | 400 V | 1 MW | 5TE8102 | – | – | – | – |
| | | 1.5 MW | – | 5TE8108 | – | – | – |
| 3 NO | 400 V | 1 MW | 5TE8103 | – | – | – | – |
| 1 NO + 1 NC | 400 V | 1 MW | – | – | – | 5TE8151 | – |
| 2 NO + 2 NC | 400 V | 1 MW | – | – | 5TE8152 | – | – |
| 3 NO + 1 NC | 400 V | 1 MW | – | – | 5TE8153 | – | – |
| 1 CO | 230 V | 1 MW | – | – | 5TE8161 | – | – |
| 2 CO | 400 V | 1 MW | – | – | 5TE8162 | – | – |
| 1 toggle switch | 230 V | 1 MW | – | – | – | – | 5TE8141 |
| 2 toggle switches | 400 V | 1 MW | – | – | – | – | 5TE8142 |

Further technical specifications

5TE8

| Standards | | |
|---|--|----------------|
| Standards | IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1) | |
| Approvals | IEC/EN 60947-3 (VDE 0660-107), GB14048.3-2008 CCC | |
| Supply | | |
| Rated power dissipation P_v | Per pole 0.7 VA | |
| Contacts | | |
| Minimum contact load | 10 V; 300 mA | |
| Rated making/rated breaking capacity | At p.f. = 0.65 60 A / 60 A | |
| Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7 | Up to 0.2 s | 650 A |
| | Up to 0.5 s | 400 A |
| | Up to 1 s | 290 A |
| | Up to 3 s | 170 A |
| Thermal rated current I_{th} | 20 A | |
| Electrical/mechanical service life | Actuations 10000 / 25000 | |
| Safety | | |
| Clearances | Open contacts | 2x >2 mm |
| | Between the poles | >7 mm |
| Creepage distances | >7 mm | |
| Sealable switch position | Yes | |
| Separate handle locking device | Yes | |
| Rated short-circuit making capacity I_{cm} | 10 kA | |
| Rated impulse withstand voltage U_{imp} | >5 kV | |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| | Max. tightening torque | 0.8 ... 1.0 Nm |
| Environmental conditions | | |
| Permissible ambient temperature | –5 ... +40 °C | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 45 °C | |

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

| Contacts | Version | Article No. |
|-------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |

Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

| Article No. |
|-------------|
| 5ST3801 |

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

| Article No. |
|-------------|
| 5TG8240 |

Set of mixed caps






- For manual changing of the luminous plates for the control switches

| Article No. |
|-------------|
| 5TG8068 |

5TE48 pushbuttons

With/without LED

| | Pushbuttons without maintained-contact function | Pushbuttons with maintained-contact function | Control pushbuttons with maintained-contact function or momentary-contact function |
|---|---|--|---|
| | Without LED | Without LED | With LED |
| Rated operational current I_e per conducting path | 20 A | 20 A | 20 A |
| Rigid/flexible conductor cross-section | 1 ... 6 mm ² | 1 ... 6 mm ² | 1 ... 6 mm ² |
| Max. cable length | Standard | Standard | Standard |
| |  |  |  |


| Contacts | U _e AC | Mounting width | | | | | | |
|------------------|-------------------|----------------|-------------------|-----------|---------|-----------|--------|---------|
| 1 NO | 230 V | 1 MW | | – | | – | 1× red | 5TE4821 |
| | | | | – | | – | | – |
| 2x 1 NO | 400 V | 1 MW | 1× green, 1× blue | 5TE4804 | | – | | – |
| 2 NO | 400 V | 1 MW | | – | 1× gray | 5TE4811 | 1× red | 5TE4823 |
| 1 NO + 1 NC | 400 V | 1 MW | 1× gray | 5TE4800 | 1× gray | 5TE4810 | | – |
| | | | 1× red | 5TE4805 | | – | 1× red | 5TE4820 |
| | | | 1× green | 5TE4806 | | – | | – |
| | | | 1× yellow | 5TE4807 | | – | | – |
| | | | 1× blue | 5TE4808 | | – | | – |
| 2x (1 NO + 1 NC) | 400 V | 1 MW | | – | | – | | – |
| 2 NO + 2 NC | 400 V | 1 MW | 1× gray | 5TE4801-2 | 1× gray | 5TE4811-2 | | – |
| 3 NO + 1 NC | 400 V | 1 MW | 1× gray | 5TE4802 | 1× gray | 5TE4812-1 | | – |
| 3 NO + N | 400 V | 1 MW | | – | 1× gray | 5TE4812 | | – |
| 2 NC | 400 V | 1 MW | | – | | – | 1× red | 5TE4824 |
| 4 NC | 400 V | 1 MW | | – | 1× gray | 5TE4813 | | – |
| 2 CO | 400 V | 1 MW | | – | 1× gray | 5TE4814 | | – |

Further technical specifications

5TE48


| | | |
|--|--|----------------|
| Standards | | |
| Standards | IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1) | |
| Approvals | IEC/EN 60947-3 (VDE 0660-107) | |
| Supply | | |
| Rated power dissipation P_v | Per pole | 0.6 VA |
| Contacts | | |
| Minimum contact load | 10 V; 300 mA | |
| Rated making/rated breaking capacity | At p.f. = 0.65 | 60 A / 60 A |
| Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7 | Up to 0.2 s | 650 A |
| | Up to 0.5 s | 400 A |
| | Up to 1 s | 290 A |
| | Up to 3 s | 170 A |
| Thermal rated current I_{th} | 20 A | |
| Mechanical service life | Actuations | 25000 |
| Safety | | |
| Clearances | Open contacts | 2x >2 mm |
| | Between the poles | >7 mm |
| Creepage distances | >7 mm | |
| Rated impulse withstand voltage U_{imp} | >5 kV | |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| | Max. tightening torque | 0.8 ... 1.0 Nm |
| Environmental conditions | | |
| Permissible ambient temperature | –5 ... +40 °C | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 45 °C |

Double pushbuttons with maintained-contact function and/or momentary-contact function

| With LED | | Without LED | | With LED | |
|--|-----------|---|---------|---|---------|
| 20 A | | 20 A | | 20 A | |
| 1 ... 6 mm ² | | 1 ... 6 mm ² | | 1 ... 6 mm ² | |
| 150 m | | Standard | | Standard | |
|  | |  | |  | |
| 1× red | 5TE4822 | – | – | – | – |
| 1× blue new | 5TE4822-1 | – | – | – | – |
| – | – | – | – | 1× green, 1× red | 5TE4840 |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | 1× green, 1× red | 5TE4830 | 1× green, 1× red | 5TE4841 |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | 1× green, 1× red | 5TE4831 | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |

Accessories

LEDs for manual replacement


|  | I _e | U _e | Color | Article No. |
|---|----------------|-------------------|--------|-------------|
| | 0.4 A | 12 ... 60 V AC/DC | White | 5TG8056-0 |
| | | | Red | 5TG8056-1 |
| | | | Yellow | 5TG8056-2 |
| | | | Green | 5TG8056-3 |
| | 115 V AC/DC | | White | 5TG8057-0 |
| | | | Red | 5TG8057-1 |
| | | | Yellow | 5TG8057-2 |
| | | | Green | 5TG8057-3 |
| | 230 V AC | | White | 5TG8058-0 |
| | | | Red | 5TG8058-1 |
| | | | Yellow | 5TG8058-2 |
| | | | Green | 5TG8058-3 |
| | | | Blue | 5TG8058-4 |

Cap sets

- For manual changing of colored caps with or without lamps
- 1 set = 5 units

|  | Color | Article No. |
|---|------------------------|-------------|
|  | Red, transparent | 5TG8061 |
|  | Green, transparent | 5TG8062 |
|  | Yellow, transparent | 5TG8063 |
|  | Blue, transparent | 5TG8064 |
|  | Black, non-transparent | 5TG8065 |
|  | White, transparent | 5TG8066 |
|  | Gray, non-transparent | 5TG8060 |

Sets of mixed caps

|  | Color | Article No. |
|---|---|-------------|
| | 10× each of red/green + 5× each of yellow/blue/white | 5TG8067 |
| | 1× each of red/green/yellow | 5TG8070 |

Color coding according to IEC 60073

| Color | Safety of people/ environment | Process state | System state |
|-----------------------|----------------------------------|---------------|--------------|
| Red | Danger | Emergency | Faulty |
| Green | Safety | Normal | Normal |
| Yellow | Warning/Caution | Abnormal | Abnormal |
| Blue | Stipulation | | |
| Black, white, gray | No special significance assigned | | |

5TE58 light indicators

With LED

5TE58 light indicators

| | | |
|---|---------------------------|---------------------------|
| Rigid conductor cross-section | 1.5 ... 6 mm ² | 1.5 ... 6 mm ² |
| Flexible conductor cross-section, with end sleeve | 1 ... 6 mm ² | 1 ... 6 mm ² |
| Max. cable length | Standard | 250 m |



| U _e AC | Mounting width | | | | |
|------------------------|----------------|-----------------------------|-----------|--------|---------|
| 230 V | 1 MW | 1× red | 5TE5800 | 1× red | 5TE5804 |
| | | 1× green, 1× red | 5TE5801 | | – |
| | | 3× green | 5TE5802 | | – |
| | | 1× red, 1× yellow, 1× green | 5TE5803 | | – |
| 12 ... 60 V new | 1 MW | 1× red | 5TE5810 | | – |
| | | 1× green | 5TE5810-1 | | – |
| | | 1× green, 1× red | 5TE5811 | | – |
| | | 3× green | 5TE5812 | | – |
| | | 1× red, 1× yellow, 1× green | 5TE5812-1 | | – |

Further technical specifications

5TE58

Standards

| | |
|-----------|-------------------|
| Standards | DIN VDE 0710-1-11 |
|-----------|-------------------|

Supply

| | | |
|--|-----|--------|
| Rated power dissipation P _v | LED | 0.4 VA |
|--|-----|--------|

Safety

| | | |
|------------|-----------------------|-------|
| Clearances | Between the terminals | >7 mm |
|------------|-----------------------|-------|

Connections

| | | |
|-----------|------------------------|--------|
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| | Max. tightening torque | 1.2 Nm |

Environmental conditions

| | | |
|--|-------------------|---------------|
| Permissible ambient temperature | | –5 ... +40 °C |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 45 °C |

Accessories

LEDs for manual replacement



| I_e | U_e | Color | Article No. |
|--------|-------------------|-------------|-------------|
| 0.4 A | 12 ... 60 V AC/DC | White | 5TG8056-0 |
| | | Red | 5TG8056-1 |
| | | Yellow | 5TG8056-2 |
| | | Green | 5TG8056-3 |
| | | Blue | 5TG8056-4 |
| | | 115 V AC/DC | White |
| | Red | 5TG8057-1 | |
| | Yellow | 5TG8057-2 | |
| | Green | 5TG8057-3 | |
| | Blue | 5TG8057-4 | |
| | 230 V AC | White | 5TG8058-0 |
| | | Red | 5TG8058-1 |
| Yellow | | 5TG8058-2 | |
| Green | | 5TG8058-3 | |
| | Blue | 5TG8058-4 | |

Cap sets

- For manual changing of colored caps
- 1 set = 5 units

| Version | Article No. |
|---------------------|-------------|
| Red, transparent | 5TG8061 |
| Green, transparent | 5TG8062 |
| Yellow, transparent | 5TG8063 |
| Blue, transparent | 5TG8064 |
| White, transparent | 5TG8066 |

Sets of mixed caps



- For manual changing of colored caps

| Color | Article No. |
|---|-------------|
| 10× each of red/green + 5× each of yellow/blue/white | 5TG8067 |
| 1× each of red/green/yellow | 5TG8070 |

Color coding according to IEC 60073

| Color | Safety of people/ environment | Process state | System state |
|-----------------------|----------------------------------|---------------|--------------|
| Red | Danger | Emergency | Faulty |
| Green | Safety | Normal | Normal |
| Yellow | Warning/Caution | Abnormal | Abnormal |
| Blue | Stipulation | | |
| Black, white, gray | No special significance assigned | | |

5TE81/82 On/Off switches

| | 5TE81 On/Off switches | | | 5TE82 On/Off switches | | | | |
|---|---|----------------|--------------------|---|---------|--------------------|-----------------------|---------|
| Rated operational current I_e per conducting path | 20 A | | | 32 A | | | | |
| Rigid conductor cross-section | 1.5 ... 6 mm ² | | | 1.5 ... 6 mm ² | | | | |
| Flexible conductor cross-section, with end sleeve | 1 ... 6 mm ² | | | 1 ... 6 mm ² | | | | |
| |  | | |  | | | | |
| Contacts | U_e AC | Mounting width | Auxiliary switches | | | Auxiliary switches | | |
| | | | Can be retrofitted | Cannot be retrofitted | Mounted | Can be retrofitted | Cannot be retrofitted | Mounted |
| 1 NO | 230 V | 1 MW | 5TE8111 | – | – | 5TE8211 | – | – |
| 2 NO | 400 V | 1 MW | 5TE8112 | – | – | 5TE8212 | – | – |
| 3 NO | 400 V | 1 MW | 5TE8113 | – | – | 5TE8213 | – | – |
| 3 NO + N | 400 V | 1 MW | – | 5TE8114 | – | – | 5TE8214 | – |
| | | 1.5 MW | – | – | 5TE8118 | – | – | 5TE8218 |

Further technical specifications

| | 5TE81 | 5TE82 | |
|--|---|-------------------------------|-------------|
| Standards | | | |
| Standards | IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 | IEC/EN 60947-3 (VDE 0660-107) | |
| Approvals | IEC/EN 60947-3 (VDE 0660-107) | | |
| Supply | | | |
| Rated power dissipation P_v | Per pole | 0.7 VA | |
| Contacts | | | |
| Minimum contact load | 10 V; 300 mA | | |
| Rated making/rated breaking capacity | At p.f. = 0.65 | 60 A / 60 A | 96 A / 96 A |
| Rated short-time withstand current $I_{c,w}$ per conducting path at p.f. = 0.7 | Up to 0.2 s | 650 A | 1000 A |
| | Up to 0.5 s | 400 A | 630 A |
| | Up to 1 s | 290 A | 450 A |
| | Up to 3 s | 170 A | 250 A |
| Thermal rated current I_{th} | 20 A | | 32 A |
| Electrical/mechanical service life | Actuations | 10000 / 25000 | |
| Safety | | | |
| Clearances | Open contacts | 2× >2 mm | |
| | Between the poles | >7 mm | |
| Creepage distances | >7 mm | | |
| Rated short-circuit making capacity I_{cm} | 10 kA | | |
| Rated impulse withstand voltage U_{imp} | >5 kV | | |
| Connections | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | |
| | Max. tightening torque | 1.2 Nm | |
| Environmental conditions | | | |
| Permissible ambient temperature | –5 ... +40 °C | | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 45 °C | |

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

| Contacts | Version | Article No. |
|-------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |

Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

| Article No. |
|-------------|
| 5ST3801 |

Terminal cover



- For covering screw openings
- Sealable

| Article No. |
|-------------|
| 5ST3800 |







Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

| Article No. |
|-------------|
| 5TG8240 |

5TL1 On/Off switches

| | | Rated operational current I_g per conducting path | | | | | | | |
|---|------------------------------------|---|---|--|---|---|---|-------------|--|
| | | 32 A | 40 A | 63 A | | 80 A | 100 A | | |
| Rigid conductor cross-section | | 1 ... 35 mm ² | 1 ... 35 mm ² | 1 ... 35 mm ² | | 2.5 ... 50 mm ² | 2.5 ... 50 mm ² | | |
| Flexible conductor cross-section, with end sleeve | | 1 ... 25 mm ² | 1 ... 25 mm ² | 1 ... 25 mm ² | | 2.5 ... 50 mm ² | 2.5 ... 50 mm ² | | |
| | |  |  |  |  |  |  | | |
| Contacts | Rated operational voltage U_g AC | Mounting width | Gray handle | Gray handle | Gray handle | Red handle | Gray handle | Gray handle | |
| 1 NO | 230 V | 1 MW | 5TL1132-0 | 5TL1140-0 | 5TL1163-0 | 5TL1163-1 | 5TL1180-0 | 5TL1191-0 | |
| 2 NO | 400 V | 2 MW | 5TL1232-0 | 5TL1240-0 | 5TL1263-0 | 5TL1263-1 | 5TL1280-0 | 5TL1291-0 | |
| 3 NO | 400 V | 3 MW | 5TL1332-0 | 5TL1340-0 | 5TL1363-0 | 5TL1363-1 | 5TL1380-0 | 5TL1391-0 | |
| 4 NO | 400 V | 4 MW | 5TL1432-0 | 5TL1440-0 | 5TL1463-0 | – | 5TL1480-0 | 5TL1491-0 | |
| 3 NO + N | 400 V | 4 MW | 5TL1632-0 | 5TL1640-0 | 5TL1663-0 | 5TL1663-1 | 5TL1680-0 | 5TL1691-0 | |

Further technical specifications

| | | 5TL1.32 | 5TL1.40 | 5TL1.63 | 5TL1.80 | 5TL1.91 | 5TL1.92 |
|--|------------------------|-------------------------------|---------------|---------------|---------------|---------------|---------------|
| Standards | | | | | | | |
| Standards | | IEC/EN 60947-3 (VDE 0660-107) | | | | | |
| Approvals | | EN 60669-1 | | | | | |
| Supply | | | | | | | |
| Rated power dissipation P_v | Per pole, max. | 0.7 VA | 0.9 VA | 2.2 VA | 3.5 VA | 5.5 VA | 8.6 VA |
| Contacts | | | | | | | |
| Minimum contact load | | 24 V; 300 mA | | | | | |
| Rated making/rated breaking capacity AC-22A | At p.f. = 0.65 | 96 A / 96 A | 120 A / 120 A | 196 A / 196 A | 240 A / 240 A | 300 A / 300 A | 375 A / 375 A |
| Rated short-time withstand current I_{cw} per conducting path at p.f. = 0.7 ¹⁾ | Up to 0.2 s | 760 A | 950 A | 1500 A | 2700 A | 3400 A | |
| | Up to 0.5 s | 500 A | 630 A | 1000 A | 1650 A | 2100 A | |
| | Up to 1 s | 400 A | 500 A | 800 A | 1350 A | 1700 A | |
| | Up to 3 s | 280 A | 350 A | 560 A | 800 A | 1000 A | |
| Thermal rated current I_{th} | | 32 A | 40 A | 63 A | 80 A | 100 A | 125 A |
| Electrical/mechanical service life | Switching cycles | 10000 / 20000 | 10000 | 5000 | 2000 | | |
| Rated power for the switching of resistive load including moderate overload AC-21 | 1-pole | 5 kW | 6.5 kW | 10 kW | 13 kW | 16 kW | |
| | 2-pole | 9 kW | 11 kW | 18 kW | 22 kW | 28 kW | |
| | 3-/4-pole | 15 kW | 15 kW | 30 kW | 39 kW | 48 kW | |
| Safety | | | | | | | |
| Creepage distances | | >7 mm | | | | | |
| Clearances | Open contacts | >7 mm | | | | | |
| | Between the poles | >7 mm | | | | | |
| Rated short-circuit making capacity I_{cm} (in conjunction with fuse of the same rated operational current EN 60269 gL/gG) | | 10 kA | | | | | |
| Rated impulse withstand voltage U_{imp} | | >5 kV | | | | | |
| Connections | | | | | | | |
| Terminals | ± Screw (Pozidriv) | PZ 2 | | | | | |
| | Max. tightening torque | 3.5 Nm | | | | | |
| Environmental conditions | | | | | | | |
| Permissible ambient temperature | | –5 ... +40 °C | | | | | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 45 °C | | | | | |

125 A

2.5 ... 50 mm²2.5 ... 50 mm²

Red handle

Gray handle

5TL1191-1 5TL1192-0

5TL1291-1 5TL1292-0

5TL1391-1 5TL1392-0

– 5TL1492-0

5TL1691-1 5TL1692-0

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

| Contacts | Version | Article No. |
|-------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |

Handle locking device



- To prevent undesired mechanical On/Off switching
- Sealable
- For padlock with max. 3 mm shackle

| Article No. |
|-------------|
| 5ST3806 |

Terminal cover



- For covering screw openings
- Sealable

| Article No. |
|-------------|
| 5ST3800 |

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

| Article No. |
|-------------|
| 5TG8240 |

Phase connectors



- For easy wiring in various circuit versions and bus mountings
- As a support terminal for conductors from 2.5 to 50 mm²

| Number of poles | I _e | U _e AC | Mounting width | Article No. |
|-----------------|----------------|-------------------|----------------|-------------|
| 1-pole | 125 A | 230 V | 1 MW | 5TL1192-4 |

N conductor connectors



- For easy wiring in various circuit versions and bus mountings
- As a support terminal for N conductors from 2.5 to 50 mm² with blue color marking

| Number of poles | I _e | U _e AC | Mounting width | Article No. |
|-----------------|----------------|-------------------|----------------|-------------|
| 1-pole | 125 A | 230 V | 1 MW | 5TL1192-3 |

5TE DC isolator

Can be used as switch disconnectors according to EN 60947-3

Rated operational current I_e

63 A

Rigid conductor cross-section

0.75 ... 35 mm²

Flexible conductor cross-section, with end sleeve

0.75 ... 25 mm²



| Contacts | Max. operational voltage U_{max} DC | Mounting width | Auxiliary switches can be retrofitted |
|----------|--|----------------|---------------------------------------|
| 4 NO | 1000 V | 4 MW | 5TE2515-1 |

Further technical specifications

| Standards | | |
|--|--|--------------|
| Standards | IEC/EN 60947-3; IEC/EN 60669-1; GB14048.3-2008 CCC | |
| Supply | | |
| Rated operational voltage U_e | For 4 poles in series | 880 V DC |
| Rated power dissipation P_v | Per pole, max. | 4.4 W |
| Contacts | | |
| Minimum contact load | 24 V; 300 mA | |
| Rated short-time withstand current I_{cw} | 1000 V DC, 4-pole | 760 A |
| Electrical/mechanical service life | Actuations | 5000 / 10000 |
| Safety | | |
| Rated short-circuit making capacity I_{cm} | 1000 V DC, 4-pole | 500 A |
| Rated impulse withstand voltage U_{imp} | >5 kV | |
| Overvoltage category | At $U = 440 \dots 880$ V | II |
| | At $U = 1000$ V | I |
| Utilization category | DC-21B | |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 2 |
| | Max. tightening torque | 2.5 ... 3 Nm |
| Environmental conditions | | |
| Permissible ambient temperature | -25 ... +40 °C | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 45 °C |

Accessories

Auxiliary switches (AS)



- For right-hand-side retrofitting with factory-fitted brackets

| Contacts | Version | Article No. |
|-------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |

Shunt trips (ST)



| Rated operational voltage U_n | Article No. |
|------------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030 |
| 24 ... 48 V AC/DC | 5ST3031 |
| 12 V AC/DC | 5ST3031-0XX01 |

Undervoltage releases (UR)



| Version | Rated operational voltage U_n | Article No. |
|-------------------------------------|---------------------------------|-------------|
| With integrated auxiliary switch | 230 V AC | 5ST3040 |
| | 110 V DC | 5ST3041 |
| | 24 V DC | 5ST3042 |
| Without integrated auxiliary switch | 230 V AC | 5ST3043 |
| | 110 V DC | 5ST3044 |
| | 24 V DC | 5ST3045 |

5TE busbars

For modular installation devices

Single-phase busbar



- For all 5TE8 switches, 20 A and 32 A
- For the cutting of unused terminal lugs and to ensure insulation clearances if one device terminal is to be supplied separately despite being mounted on the bus
- Infeed to unit terminal with conductor cross-section of 6 mm² up to 32 A
- Can be mounted from either top or bottom, in the front or rear terminal area
- An end cap is not required on single-phase busbars

| Length | Division | Article No. |
|--------|---|-------------|
| 210 mm | 12 MW version with 1 MW modular clearance | 5TE9100 |

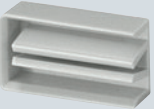
Two-phase busbar



- For all 5TE8 switches, 20 A and 32 A
- Infeed to unit terminal with conductor cross-section of 6 mm² Up to 32 A
- Can be mounted from either top or bottom, in the front and/or rear terminal area, thus allowing realization of a 4-conductor connection using 2 two-phase busbars
- Both copper conductors of the two-phase busbar are insulated together

| Length | Division | Article No. |
|--------|---|-------------|
| 220 mm | 12 MW version each with 1 MW modular clearance, phases offset by 0.5 MW | 5TE9101 |

End caps for two-phase busbars



- End caps for 5TE9101 two-phase busbars to maintain insulation clearances when the bar is being cut
- 1 set = 10 units

| Article No. |
|-------------|
| 5TE9102 |

5TT41 remote control switches

Rated current 16 A

Rated operational current I_e

16 A

Rigid conductor cross-section

1 ... 6 mm²

Flexible conductor cross-section, with end sleeve

1 ... 6 mm²





| Contacts | U_e | U_c AC | U_c DC | Mounting width | | Auxiliary switches can be retrofitted |
|-------------|-------|----------|----------|----------------|------|---------------------------------------|
| | | | | 1 MW | 2 MW | |
| 1 NO | 250 V | 230 V | – | ■ | – | 5TT4101-0 |
| | | 115 V | – | ■ | – | 5TT4101-1 |
| | | 24 V | – | ■ | – | 5TT4101-2 |
| | | 12 V | – | ■ | – | 5TT4101-3 |
| | | 8 V | – | ■ | – | 5TT4101-4 |
| | | – | 110 V | ■ | – | 5TT4111-1 |
| | | – | 24 V | ■ | – | 5TT4111-2 |
| | | – | 12 V | ■ | – | 5TT4111-3 |
| 1 NO + 1 NC | 250 V | 230 V | – | ■ | – | 5TT4105-0 |
| | | 115 V | – | ■ | – | 5TT4105-1 |
| | | 24 V | – | ■ | – | 5TT4105-2 |
| | | 12 V | – | ■ | – | 5TT4105-3 |
| | | 8 V | – | ■ | – | 5TT4105-4 |
| | | – | 110 V | ■ | – | 5TT4115-1 |
| | | – | 24 V | ■ | – | 5TT4115-2 |
| | | – | 12 V | ■ | – | 5TT4115-3 |
| 2 NO | 400 V | 230 V | – | ■ | – | 5TT4102-0 |
| | | 115 V | – | ■ | – | 5TT4102-1 |
| | | 24 V | – | ■ | – | 5TT4102-2 |
| | | 12 V | – | ■ | – | 5TT4102-3 |
| | | 8 V | – | ■ | – | 5TT4102-4 |
| | | – | 110 V | ■ | – | 5TT4112-1 |
| | | – | 24 V | ■ | – | 5TT4112-2 |
| | | – | 12 V | ■ | – | 5TT4112-3 |
| 3 NO | 400 V | 230 V | – | – | ■ | 5TT4103-0 |
| | | 24 V | – | – | ■ | 5TT4103-2 |
| 4 NO | 400 V | 230 V | – | – | ■ | 5TT4104-0 |
| | | 24 V | – | – | ■ | 5TT4104-2 |
| | | – | 110 V | – | ■ | 5TT4114-1 |
| – | 24 V | – | ■ | 5TT4114-2 | | |

Further technical specifications



| | | 5TT4101 5TT4102 5TT4105 | 5TT4111 5TT4112 5TT4115 | 5TT4103 5TT4104 5TT4114 |
|---|---|---|-------------------------------|-------------------------------|
| Standards | | | | |
| Standards | | IEC 60669-1, IEC 60669-2, IEC 60669-3, EN 60669 (VDE 0632), EN 60669-2-2, EN 60669-2-2/A1 | | |
| Approvals | | VDE | | |
| Supply | | | | |
| Rated operational current I_e | At p.f. = 0.6 ... 1 (AC-15) | 16 A | | |
| Primary operating range | | 0.8 ... 1.1 × U_c | | |
| Rated frequency f_c | | 50 Hz | | |
| Rated power dissipation P_v | Magnet coil, only pulse Per pole, max. | 4.5 W / 7 VA | 9 W / 13 VA | |
| Contacts | | | | |
| Contact gap | | >1.2 mm | | |
| Minimum contact load | | 10 V; 100 mA | | |
| Electrical service life at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W | Switching cycles | 50000 | | |
| Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles) | At AC-5b (230 V) | 1200 W | | |
| Glow lamp load at 230 V | | 5 mA | | |
| | With 1 5TT4920 compensator | 25 mA | | |
| | With 2 5TT4920 compensators | 45 mA | | |
| Minimum pulse duration | | 50 ms | | |
| Safety | | | | |
| Different phases between magnet coil and contact | | Permissible | | |
| Clearances | Between magnet coil and contact | >6 mm | | |
| Creepage distances | Between magnet coil and contact | >6 mm | | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | | |
| Function | | | | |
| Manual operation | | Yes | | |
| Switching position indication | | Yes | | |
| Connections | | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | | |
| | Max. tightening torque | 0.8 ... 1 Nm | | |
| Environmental conditions | | | | |
| Permissible ambient temperature | | -10 ... +40 °C | | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 35 °C | | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | |



Accessories

| Auxiliary switches | | | | | | |
|---|---|----------------|-------|------------|----------------|-------------|
|  | • One device per remote control switch can be retrofitted | | | | | |
| | Contacts | Version | I_e | U_e | Mounting width | Article No. |
| | 1 CO | Standard | 5 A | 250 V AC | 0.5 MW | 5TT4900 |
| | | For low power | 0.1 A | 30 V AC/DC | 0.5 MW | 5TT4901 |
| Compensator | | | | | | |
|  | • For increasing the glow lamp load by 20 mA | | | | | |
| | U_e | Mounting width | | | | Article No. |
| | 250 V AC | 1 MW | | | | 5TT4920 |

5TT41 remote control switches

For special applications, rated current 16 A

| | | | | Remote control switches with central On/Off switching | Remote control switches with central and group On/Off switching |
|---|----------------|-------------------|----------------|---|---|
| Rigid conductor cross-section | | | | 1 ... 6 mm ² | 1 ... 6 mm ² |
| Flexible conductor cross-section, with end sleeve | | | | 1 ... 6 mm ² | 1 ... 6 mm ² |
| | | | |  |  |
| Contacts | U _e | U _c AC | Mounting width | Auxiliary switches cannot be retrofitted | Auxiliary switches cannot be retrofitted |
| 1 NO | 250 V | 230 V | 1.5 MW | 5TT4121-0 | 5TT4151-0 |
| | | 24 V | 1.5 MW | 5TT4121-2 | 5TT4151-2 |
| 2 NO | 400 V | 230 V | 1.5 MW | 5TT4122-0 | 5TT4152-0 |
| | | 24 V | 1.5 MW | 5TT4122-2 | 5TT4152-2 |
| 3 NO | 400 V | 230 V | 2.5 MW | 5TT4123-0 | – |
| 1 NO + 1 NC | 250 V | 115 V | 1.5 MW | 5TT4125-0 | – |

| | | | | Series remote control switch contact sequence 1 – 2 – 1+2 – 0 | Shutter/blind remote control switch contact sequence 1 – 0 – 2 – 0 |
|---|----------------|-------------------|----------------|---|---|
| Rigid conductor cross-section | | | | 1 ... 6 mm ² | 1 ... 6 mm ² |
| Flexible conductor cross-section, with end sleeve | | | | 1 ... 6 mm ² | 1 ... 6 mm ² |
| | | | |  |  |
| Contacts | U _e | U _c AC | Mounting width | Auxiliary switches cannot be retrofitted | Auxiliary switches cannot be retrofitted |
| 2 NO | 250 V | 230 V | 1 MW | 5TT4132-0 | 5TT4142-0 |
| | | 24 V | 1 MW | – | 5TT4142-2 |
| | | 12 V | 1 MW | 5TT4132-3 | 5TT4142-3 |

| Further technical specifications | | 5TT412 5TT415 | 5TT413 5TT414 |
|---|---------------------------------|---|------------------|
| Standards | | | |
| Standards | | IEC 60669-1, IEC 60669-2, IEC 60669-3, EN 60669 (VDE 0632), EN 60669-2-2, EN 60669-2-2/A1 | |
| Approvals | | VDE | |
| Supply | | | |
| Rated operational current I_e | At p.f. = 0.6 ... 1 (AC-15) | 16 A | |
| Primary operating range | | 0.8 ... 1.1 × U_c | |
| Rated frequency f_c | | 50 Hz | |
| Rated power dissipation P_v | Magnet coil, only pulse | 4.5 W / 7 VA | |
| | Per pole, max. | 1.2 W | |
| Contacts | | | |
| Contact gap | | >1.2 mm | |
| Minimum contact load | | 10 V; 100 mA | |
| Electrical service life at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W | Switching cycles | 50000 | |
| Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles) | At AC-5b (230 V) | 1200 W | |
| Glow lamp load at 230 V | | 5 mA | |
| | With 1 5TT4920 compensator | 25 mA | |
| | With 2 5TT4920 compensators | 45 mA | |
| Minimum pulse duration | | 50 ms | |
| Safety | | | |
| Different phases between magnet coil and contact | | Permissible | |
| Clearances | Between magnet coil and contact | >6 mm | |
| Creepage distances | Between magnet coil and contact | >6 mm | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | |
| Function | | | |
| Manual operation | | Yes | |
| Switching position indication | | Yes | – |
| Connections | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | |
| | Max. tightening torque | 0.8 ... 1 Nm | |
| Environmental conditions | | | |
| Permissible ambient temperature | | –10 ... +40 °C | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 35 °C | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | |

Accessories

Auxiliary switches



- One device per remote control switch can be retrofitted

| Contacts | Version | I_e | U_e | Mounting width | Article No. |
|----------|---------------|-------|------------|----------------|-------------|
| 1 CO | Standard | 5 A | 250 V AC | 0.5 MW | 5TT4900 |
| | For low power | 0.1 A | 30 V AC/DC | 0.5 MW | 5TT4901 |

Compensator




- For increasing the glow lamp load by 20 mA

| U_e | Mounting width | Article No. |
|----------|----------------|-------------|
| 250 V AC | 1 MW | 5TT4920 |

5TT44 remote control switches

Rated current 20 A – 63 A




| | Rated operational current I_e | | | | |
|---|---------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|
| | 20 A | 25 A | 32 A | 40 A | 63 A |
| Rigid conductor cross-section | 1 ... 10 mm ² | 1 ... 10 mm ² | 1 ... 10 mm ² | 2.5 ... 25 mm ² | 2.5 ... 25 mm ² |
| Flexible conductor cross-section, with end sleeve | 1 ... 10 mm ² | 1 ... 10 mm ² | 1 ... 10 mm ² | 2.5 ... 25 mm ² | 2.5 ... 25 mm ² |



| Contacts | U_e | U_c AC | U_c DC | Mounting width | | | | | |
|--|-------|----------|----------|----------------|-----------|-----------|-----------|-----------|-----------|
| For AC applications – auxiliary switches can be retrofitted | | | | | | | | | |
| 1 NO + 1 NC | 440 V | 230 V | – | 1 MW | 5TT4405-0 | 5TT4425-0 | 5TT4455-0 | – | – |
| | | | | 2 MW | – | – | – | 5TT4465-0 | 5TT4475-0 |
| | | 24 V | – | 1 MW | 5TT4405-2 | 5TT4425-2 | 5TT4455-2 | – | – |
| | | | | 2 MW | – | – | – | 5TT4465-2 | 5TT4475-2 |
| 1 CO | 250 V | 230 V | – | 1 MW | 5TT4407-0 | – | – | – | – |
| | | | | 1 MW | 5TT4407-2 | – | – | – | – |
| 2 NO | 440 V | 230 V | – | 1 MW | 5TT4402-0 | 5TT4422-0 | 5TT4452-0 | – | – |
| | | | | 2 MW | – | – | – | 5TT4462-0 | 5TT4472-0 |
| | | | | 1 MW | 5TT4402-2 | 5TT4422-2 | 5TT4452-2 | – | – |
| | | | | 2 MW | – | – | – | 5TT4462-2 | 5TT4472-2 |
| 2 CO | 440 V | 230 V | – | 2 MW | – | 5TT4428-0 | 5TT4458-0 | 5TT4468-0 | 5TT4478-0 |
| | | | | 2 MW | – | 5TT4428-2 | 5TT4458-2 | 5TT4468-2 | 5TT4478-2 |
| 4 NO | 440 V | 230 V | – | 2 MW | – | 5TT4424-0 | 5TT4454-0 | – | – |
| | | | | 4 MW | – | – | – | 5TT4464-0 | 5TT4474-0 |
| | | | | 2 MW | – | 5TT4424-2 | 5TT4454-2 | – | – |
| | | | | 4 MW | – | – | – | 5TT4464-2 | 5TT4474-2 |
| 2 NO + 2 NC | 440 V | 230 V | – | 2 MW | – | 5TT4426-0 | 5TT4456-0 | – | – |
| | | | | 4 MW | – | – | – | 5TT4466-0 | 5TT4476-0 |
| | | | | 2 MW | – | 5TT4426-2 | 5TT4456-2 | – | – |
| | | | | 4 MW | – | – | – | 5TT4466-2 | 5TT4476-2 |
| For DC applications | | | | | | | | | |
| 1 NO | 250 V | – | 24 V | 1 MW | 5TT4411-5 | 5TT4431-5 | 5TT4451-5 | – | – |
| 2 NO | 440 V | – | 24 V | 1 MW | 5TT4412-5 | 5TT4432-5 | 5TT4452-5 | – | – |
| 1 NO + 1 NC | 440 V | – | 24 V | 1 MW | 5TT4415-5 | 5TT4435-5 | 5TT4455-5 | – | – |
| 1 CO | 250 V | – | 24 V | 1 MW | 5TT4417-5 | 5TT4437-5 | 5TT4457-5 | – | – |

| Further technical specifications | | 5TT440 | 5TT442 | 5TT445 | 5TT446 | 5TT447 |
|---|------------------------------|---------------------------------|---------------------|--------|-----------------------------|---------|
| Standards | | | | | | |
| Standards | | IEC 60669-2-2 | | | IEC/EN 60947-4-1 | |
| Approvals | | CE | | | | |
| Supply | | | | | | |
| Rated operational current I_e | At p.f. = 0.6 ... 1 (AC-15) | 20 A | 25 A | 32 A | 40 A | 63 A |
| Rated frequency f_c | | 50/60 Hz | | | | |
| Rated power dissipation P_v | Magnet coil, "On" pulse | 13 W / 18 VA | | | 12 W / 26 VA | |
| | Per pole, max. | 1.5 W | 2 W | 3 W | | 3.5 W |
| Rated operational power (AC-3) | 1-phase, at 230 V | 0.5 kW | 0.75 kW | 1.1 kW | 2.2 kW | 4 kW |
| | 3-phase, at 230 V | 1.5 kW | 2.2 kW | 3 kW | 5.5 kW | 11 kW |
| | 3-phase, at 400 V | 3 kW | 4 kW | 5.5 kW | 11 kW | 18.5 kW |
| Contacts | | | | | | |
| Contact gap | | >3 mm | | | | |
| Minimum contact load AC | | 10 V; 100 mA | | | | |
| Electrical service life at I_e/U_e , p. f. = 0.6, incandescent lamp load 600 W | Switching cycles | 50000 | | | | |
| Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles) | At AC-5b (230 V) | 4400 W | 5500 W | 7000 W | 8800 W | 13800 W |
| Max. switching speed | In switching cycles per hour | 600 h ⁻¹ | 450 h ⁻¹ | | 360 h ⁻¹ | |
| Safety | | | | | | |
| Different phases between magnet coil and contact | | Permissible | | | | |
| Rated impulse withstand voltage U_{imp} | | 3 kV | | | | |
| Function | | | | | | |
| Manual operation | | Yes | | | | |
| Switching position indication | | Yes | | | | |
| Connections | | | | | | |
| Terminals | ± Screw (Pozidriv) | Coil: PZ 1, contact: PZ 2 | | | | |
| | Max. tightening torque | Coil: 0.6 Nm, contact: 1.2 Nm | | | Coil: 0.6 Nm, contact: 2 Nm | |
| Coil conductor cross-sections | | 1 ... 4 mm ² | | | | |
| Environmental conditions | | | | | | |
| Permissible ambient temperature | For operation/for storage | -25 ... +55 °C / -30 ... +80 °C | | | | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 55 °C | | | | |
| Degree of protection | Acc. to EN 60529 | IP20 | | | | |
| Mounting position | | Any (not upside down) | | | | |

Accessories

| Auxiliary switch | | | | | | |
|---|--|----------------|-------------|----------------|-------------|--|
| | Contacts | U_e | I_e | Mounting width | Article No. | |
|  | 1 NO + 1 NC | 250 V AC | 16 A | 0.5 MW | 5TT4930 | |
| Auxiliary switches, central with diode | | | | | | |
|  | <ul style="list-style-type: none"> For central function (no auxiliary switch) | | | | | |
| | U_e | Mounting width | Article No. | | | |
| | 250 V AC | 0.5 MW | 5TT4931 | | | |
| Auxiliary switches, group with several diodes | | | | | | |
|  | <ul style="list-style-type: none"> For group function (no auxiliary switch) | | | | | |
| | U_e | Mounting width | Article No. | | | |
| | 250 V AC | 0.5 MW | 5TT4932 | | | |

5TT4 auxiliary switches

For 5TT4 remote control switches

| | Auxiliary switches for 5TT41 | Auxiliary switches for 5TT44 |
|---|------------------------------|------------------------------|
| Rigid conductor cross-section | 0.5 ... 2.5 mm ² | 1 ... 4 mm ² |
| Flexible conductor cross-section, with end sleeve | 0.5 ... 2.5 mm ² | 1 ... 4 mm ² |



| Contacts | Version | I _e | U _e | Mounting width | | |
|---|---------------|----------------|----------------|----------------|---------|---------|
| Auxiliary switches | | | | | | |
| 1 NO + 1 NC | Standard | 16 A | 250 V AC | 0.5 MW | – | 5TT4930 |
| 1 CO | Standard | 5 A | 250 V AC | 0.5 MW | 5TT4900 | – |
| | For low power | 0.1 A | 30 V AC/DC | 0.5 MW | 5TT4901 | – |
| Auxiliary switches, central with diode for central function (no auxiliary switch) | | | | | | |
| | | | 250 V AC | 0.5 MW | – | 5TT4931 |
| Auxiliary switches, group with several diodes for group function (no auxiliary switch) | | | | | | |
| | | | 250 V AC | 0.5 MW | – | 5TT4932 |

| Further technical specifications | | Auxiliary switches for 5TT41 | | Auxiliary switches for 5TT44 | |
|--|---------------------------------|--|---------|---------------------------------|---------|
| | | 5TT4900 | 5TT4901 | 5TT4930 | 5TT4931 |
| Standards | | | | | |
| Standards | | EN 60947-1 (VDE 0660 Part 100) EN 60947-5-1 (VDE 0660 Part 200) | | IEC/EN 60947-5-1 | |
| Approvals | | – | | CE, EAC | |
| Supply | | | | | |
| Rated operational current I _e | At p.f. = 0.6 ... 1 (AC-15) | 16 A | | 4 A | – |
| Rated frequency f _c | | – | | 50/60 Hz | |
| Rated power dissipation P _v | Per pole, max. | – | | 0.3 W | |
| Contacts | | | | | |
| Contact gap | | <1.2 mm | | >3 mm | |
| Minimum contact load | | 5 V; 1 mA | | 12 V; 5 mA | |
| Electrical service life at I _e /U _e , p.f. = 0.6, incandescent lamp load 600 W | Switching cycles | – | | 100000 | – |
| Safety | | | | | |
| Clearances | Between magnet coil and contact | >6 mm | | – | |
| Creepage distances | Between magnet coil and contact | >6 mm | | – | |
| Rated impulse withstand voltage U _{imp} | | 1 kV | | 1 kV | |
| Pushbutton malfunction protected against continuous voltage, safe due to design | | Yes | | – | |
| Function | | | | | |
| Manual operation | | – | | No | |
| Switching position indication | | – | | No | |
| Connections | | | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | | PZ 1 | |
| | Max. tightening torque | 0.5 Nm | | 0.8 Nm | |
| Environmental conditions | | | | | |
| Permissible ambient temperature | For operation/for storage | –10 ... +40 °C / –10 ... +40 °C | | –25 ... +70 °C / –30 ... +80 °C | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 35 °C | | 55 °C | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | IP20 | |
| Mounting position | | Any | | Any (not upside down) | |

Accessories

Compensator



- For increasing the glow lamp load by 20 mA

| U_e | Mounting width | Article No. |
|----------|----------------|-------------|
| 250 V AC | 1 MW | 5TT4920 |

5TT42 switching relays

Rated current 16 A

Rated operational current I_e

16 A

Rigid conductor cross-section

1 ... 6 mm²

Flexible conductor cross-section, with end sleeve

1 ... 6 mm²



| Contacts | U_e | U_c AC | U_c DC | Mounting width | |
|-------------|-------|----------|----------|----------------|-----------|
| 1 NO | 250 V | 230 V | – | 1 MW | 5TT4201-0 |
| | | 115 V | – | 1 MW | 5TT4201-1 |
| | | 24 V | – | 1 MW | 5TT4201-2 |
| | | 12 V | – | 1 MW | 5TT4201-3 |
| | | 8 V | – | 1 MW | 5TT4201-4 |
| 2 NO | 400 V | 230 V | – | 1 MW | 5TT4202-0 |
| | | 115 V | – | 1 MW | 5TT4202-1 |
| | | 24 V | – | 1 MW | 5TT4202-2 |
| | | 12 V | – | 1 MW | 5TT4202-3 |
| | | 8 V | – | 1 MW | 5TT4202-4 |
| 4 NO | 400 V | 230 V | – | 1 MW | 5TT4204-0 |
| | | 115 V | – | 1 MW | 5TT4204-1 |
| | | 24 V | – | 1 MW | 5TT4204-2 |
| | | 12 V | – | 1 MW | 5TT4204-3 |
| | | 8 V | – | 1 MW | 5TT4204-4 |
| 1 NO + 1 NC | 400 V | 230 V | – | 1 MW | 5TT4205-0 |
| | | 115 V | – | 1 MW | 5TT4205-1 |
| | | 24 V | – | 1 MW | 5TT4205-2 |
| | | 12 V | – | 1 MW | 5TT4205-3 |
| | | 8 V | – | 1 MW | 5TT4205-4 |
| 1 CO | 250 V | 230 V | – | 1 MW | 5TT4206-0 |
| | | 115 V | – | 1 MW | 5TT4206-1 |
| | | 24 V | – | 1 MW | 5TT4206-2 |
| | | 12 V | – | 1 MW | 5TT4206-3 |
| | | 8 V | – | 1 MW | 5TT4206-4 |
| 2 CO | 400 V | 230 V | – | 1 MW | 5TT4207-0 |
| | | 115 V | – | 1 MW | 5TT4207-1 |
| | | 24 V | – | 1 MW | 5TT4207-2 |
| | | 12 V | – | 1 MW | 5TT4207-3 |
| | | 8 V | – | 1 MW | 5TT4207-4 |
| | | – | 110 V | 1 MW | 5TT4217-1 |
| | | – | 30 V | 1 MW | 5TT4217-6 |
| | | – | 24 V | 1 MW | 5TT4217-2 |
| | | – | 12 V | 1 MW | 5TT4217-3 |
| | | – | – | – | – |

| Further technical specifications | | 5TT4201- | 5TT4202- | 5TT4204- | 5TT4205- | 5TT4206- | 5TT4207- | 5TT4217- |
|---|------------------------|---------------------------------|----------|-----------------|----------|-----------------|----------|-----------------|
| Standards | | | | | | | | |
| Standards | | EN 60947-5-1, EN 60669-2-2 | | | | | | |
| Approvals | | VDE, CCC | | | | | | |
| Supply | | | | | | | | |
| Rated operational current I_e | At p.f. = 0.6 ... 1 | 16 A | | | | | | |
| Primary operating range | | 0.8...1.1× U_c | | | | | | |
| Rated frequency f_c | | 50 Hz | | | | | | |
| Rated power dissipation P_v | Magnet coil | 2.4 W 3.0 VA | | 4.8 W 6.0 VA | | 2.4 W 3.0 VA | | 1.7 W 1.7 VA |
| | Per pole, max. | 1.0 W | | | | | | |
| Contacts | | | | | | | | |
| Contact gap | | >1.2 mm | | | | | | |
| Minimum contact load | | 10 V AC; 100 mA | | | | | | |
| Electrical service life at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W | Switching cycles | 50000 | | | | | | |
| Safety | | | | | | | | |
| Different phases between magnet coil and contact | | Permissible | | | | | | |
| Safe separation | | >6 mm | | | | | | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | | | | | | |
| Function | | | | | | | | |
| Manual operation | | Yes | | | | | | |
| Connections | | | | | | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | | | | | | |
| | Max. tightening torque | 0.8 ... 1 Nm | | | | | | |
| Environmental conditions | | | | | | | | |
| Permissible ambient temperature | | -10 ... +40 °C | | | | | | |
| Resistance to climate at 95% relative humidity | Acc. to DIN 50015 | 35 °C | | | | | | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | | | | | |

Accessories

Spacer



- Contour for modular devices with a mounting depth of 70 mm
- Can be snapped onto either side of the busbar for convenient cable routing
- Spacer is recommended for better heat dissipation

Article No.

5TG8240

5TT50 Insta contactors

AC/DC technology

| | Rated operational current I_e | | | |
|---|---------------------------------|----------------------------|----------------------------|----------------------------|
| | 20 A | 25 A | 40 A | 63 A |
| Main connection conductor cross-section, solid | 1.0 ... 10 mm ² | 1.5 ... 25 mm ² | 1.5 ... 25 mm ² | 1.5 ... 25 mm ² |
| Main connection conductor cross-section, stranded with end sleeve | 1.0 ... 6 mm ² | 1.5 ... 16 mm ² | 1.5 ... 16 mm ² | 1.5 ... 16 mm ² |
| Main connection conductor cross-section, AWG | 16 ... 8 | 16 ... 4 | 16 ... 4 | 16 ... 4 |



| Contacts | U_e | U_c AC | U_c DC | Mounting width | | | | |
|--|-------|----------|----------|----------------|-----------|-----------|-----------|-----------|
| Insta contactors with manual switch | | | | | | | | |
| 2 NO | 230 V | 230 V | 220 V | 1 MW | 5TT5000-0 | – | – | – |
| | | 24 V | 24 V | 1 MW | 5TT5000-2 | – | – | – |
| 4 NO | 400 V | 230 V | 220 V | 2 MW | – | 5TT5030-0 | – | – |
| | | | | 3 MW | – | – | 5TT5040-0 | 5TT5050-0 |
| | | 115 V | 110 V | 2 MW | – | 5TT5030-1 | – | – |
| | | | | 2 MW | – | 5TT5030-2 | – | – |
| | | | | 3 MW | – | – | 5TT5040-2 | 5TT5050-2 |
| 230 V | 24 V | 24 V | 1 MW | 5TT5002-0 | – | – | – | |
| | | | 1 MW | 5TT5002-2 | – | – | – | |
| 4 NC | 400 V | 230 V | 220 V | 2 MW | – | 5TT5033-0 | – | – |
| | | | | 3 MW | – | – | 5TT5043-0 | – |
| | | 24 V | 24 V | 2 MW | – | 5TT5033-2 | – | – |
| | | | | 3 MW | – | – | 5TT5043-2 | – |
| | | | | – | – | – | – | – |
| 1 NO + 1 NC | 230 V | 230 V | 220 V | 1 MW | 5TT5001-0 | – | – | |
| | | 24 V | 24 V | 1 MW | 5TT5001-2 | – | – | |
| 2 NO + 2 NC | 400 V | 230 V | 220 V | 2 MW | – | 5TT5032-0 | – | – |
| | | | | 3 MW | – | – | 5TT5042-0 | 5TT5052-0 |
| | | 24 V | 24 V | 2 MW | – | 5TT5032-2 | – | – |
| | | | | 3 MW | – | – | 5TT5042-2 | 5TT5052-2 |
| | | | | – | – | – | – | – |
| 3 NO + 1 NC | 400 V | 230 V | 220 V | 2 MW | – | 5TT5031-0 | – | – |
| | | | | 3 MW | – | – | 5TT5041-0 | 5TT5051-0 |
| | | 24 V | 24 V | 2 MW | – | 5TT5031-2 | – | – |
| | | | | 3 MW | – | – | 5TT5041-2 | 5TT5051-2 |
| | | | | – | – | – | – | – |
| Insta contactors with O//Automatic | | | | | | | | |
| 2 NO | 230 V | 230 V | 220 V | 1 MW | 5TT5000-6 | – | – | – |
| | | 24 V | 24 V | 1 MW | 5TT5000-8 | – | – | – |
| 4 NO | 400 V | 230 V | 220 V | 2 MW | – | 5TT5030-6 | – | – |
| | | 24 V | 24 V | 2 MW | – | 5TT5030-8 | – | – |
| 1 NO + 1 NC | 230 V | 230 V | 220 V | 1 MW | 5TT5001-6 | – | – | – |
| | | 24 V | 24 V | 1 MW | 5TT5001-8 | – | – | – |
| 3 NO + 1 NC | 400 V | 230 V | 220 V | 2 MW | – | 5TT5031-6 | – | – |
| | | 24 V | 24 V | 2 MW | – | 5TT5031-8 | – | – |


5


| Further technical specifications | | 5TT500 | 5TT503 | 5TT504 | 5TT505 |
|--|---|--------------------------------------|----------------------------|-----------------|-----------------|
| Standards | | | | | |
| Standards | | EN 60947-4-1; EN 60947-5-1; EN 61095 | | | |
| Approvals | | UL 508; UL File No. E303328 | | | |
| Supply | | | | | |
| Rated operational current I_e | AC-1/AC-7a, NO contacts / NC contacts | 20 A / 20 A | 25 A / 25 A | 40 A / 40 A | 63 A / 63 A |
| | AC-3/AC-7b, NO contacts / NC contacts | 9 A / 6 A | 8.5 A / 8.5 A | 22 A / 22 A | 30 A / 30 A |
| Primary operating range | | 0.85 ... 1.1 × U_c | | | |
| Rated frequency f_c at AC | | 50/60 Hz | | | |
| Rated power dissipation P_v | Pick-up power (without manual switch or with manual switch in "I" position) | 2.1 VA / 2.1 W | 2.6 VA / 2.6 W | 5 VA / 5 W | |
| | Pick-up power (with manual switch in "AUTO" position) | 2.1 VA / 4.1 W | 2.6 VA / 2.6 W | 5 VA / 5 W | |
| | Holding power | 2.1 VA / 2.1 W | 2.6 VA / 2.6 W | 5 VA / 5 W | |
| | Per contact AC-1/AC-7a | 1.7 VA | 2.2 VA | 4 VA | 8 VA |
| Contacts | | | | | |
| Contact gap (NO contacts) | Min. | 3.6 mm | | | |
| Minimum switching capacity | (= minimum contact load) | ≥17 V; 50 mA | | | |
| Electrical service life at I_e and load | AC-1/AC-7a switching cycles | 200000 | | 100000 | |
| | AC-3/AC-7b switching cycles | 300000 | 500000 | 150000 | |
| Mechanical service life | Switching cycles | 3 million | | | |
| Switching of resistive loads AC-1 at rated operational power P_s | Single-phase (NO contacts) | 4 kW (230 V) | 5.4 kW (400 V) | 8.7 kW (400 V) | 13.3 kW (400 V) |
| | Three-phase (NO contacts) | – | 16 kW (400 V) | 26 kW (400 V) | 40 kW (400 V) |
| Switching of three-phase asynchronous motors AC-3 at rated operational power P_s | Single-phase (NO contacts) | 1.3 kW / 0.75 kW | 1.3 kW / 1.3 kW | 3.7 kW / 3.7 kW | 5/5 kW |
| | Three-phase (NO contacts) | – | 4 kW | 11 kW | 15 kW |
| Maximum switching frequency at load | AC-1/AC-7a / AC-3/AC-7b | 600 h ⁻¹ | | | |
| Safety | | | | | |
| Rated impulse withstand voltage U_{imp} | | ≤4 kV | | | |
| Short-circuit protection, according to coordination type 1 | Back-up fuse characteristic gL/gG | 20 A | 25 A | 63 A | 80 A |
| Overload withstand capability at 10 s | Per conducting path (NO contacts only) | 72 A | 68 A | 176 A | 240 A |
| Function | | | | | |
| Switching times | Closing (NO contacts) | 15 ms ... 45 ms | | 15 ms ... 20 ms | |
| | Opening (NO contacts) | 20 ms ... 50 ms | 20 ms ... 70 ms | 35 ms ... 45 ms | |
| Connections | | | | | |
| Coil/main connection terminals | ± Screw (Pozidriv) | PZ 1 / PZ 1 | PZ 1 / PZ 2 | | |
| Coil connection conductor cross-section | Solid | 1.0 ... 2.5 mm ² | | | |
| | Stranded, with end sleeve | 1.0 ... 2.5 mm ² | | | |
| | AWG cables | 16 ... 10 | | | |
| Main connection conductor cross-section | Solid | 1.0 ... 10 mm ² | 1.5 ... 25 mm ² | | |
| | Stranded, with end sleeve | 1.0 ... 6 mm ² | 1.5 ... 16 mm ² | | |
| | AWG cables | 16 ... 8 | 16 ... 4 | | |
| Tightening torque | Coil connection | 0.6 Nm / 8 lbs/in. | | | |
| | Main connection | 1.2 Nm / 9 lbs/in. | 3.5 Nm / 20 lbs/in. | | |
| Environmental conditions | | | | | |
| Permissible ambient temperature | For operation ¹⁾ / For storage | –15 ... +55 °C / –50 ... +80 °C | | | |
| Degree of protection | Acc. to EN 60529 | IP 20, with connected conductors | | | |
| Characteristics according to UL 508 | | | | | |
| Rated operational current I_n | | 20 A | 25 A | 40 A | 63 A |
| UL 508 General Use 240 V/480 V | FLA | 20 A | 25 A | 40 A | 63 A |
| UL 508 AC discharge lamps | | 20 A | 25 A | 30 A | 40 A |
| UL 508 motor load | Power 240 V / 480 V | 1 hp / – | 3 hp / 5 hp | 7.5 hp / 15 hp | 10 hp / 20 hp |
| UL 508 short-circuit at 480 V | K5 fuses | 20 A | 25 A | 60 A | 70 A |

¹⁾ Contactors can be operated at ambient temperatures of between –25 °C and +70 °C, but only under special conditions.

For more information, please contact Siemens Support. For questions concerning heat dissipation, please refer to the instructions in the Configuration Manual "Switching Devices".

Accessories

| Auxiliary switches | | | |
|---|---|----------------|-------------|
|  | <ul style="list-style-type: none"> • For right-hand-side retrofitting • Max. one auxiliary switch per Insta contactor | | |
| | Contacts | Mounting width | Article No. |
| | 2 NO | 0.5 MW | 5TT5910-0 |
| 1 NO + 1 NC | 0.5 MW | 5TT5910-1 | |

| Sealable terminal covers | | | |
|---|---------------------|----------------|-------------|
|  | For Insta contactor | Mounting width | Article No. |
| | 20 A | 1 MW | 5TT5910-5 |
| | 25 A | 2 MW | 5TT5910-6 |
| 40 A and 63 A | 3 MW | 5TT5910-7 | |

5TT58 Insta contactors

AC technology

| | Rated operational current I_e | | | |
|---|---------------------------------|----------------------------|--------------------------|--------------------------|
| | 20 A | 25 A | 40 A | 63 A |
| Main connection conductor cross-section, rigid | 1.0 ... 10 mm ² | 1.0 ... 10 mm ² | 1 ... 25 mm ² | 1 ... 25 mm ² |
| Main connection conductor cross-section, flexible with end sleeve | 1.0 ... 6 mm ² | 1.0 ... 6 mm ² | 1 ... 16 mm ² | 1 ... 16 mm ² |



| Contacts | U_e | U_c AC | Mounting width | | | | | | |
|--|-------|----------|-------------------------------|-----------|-----------|-----------|-----------|-----------|---|
| Insta contactors without manual switch | | | | | | | | | |
| 2 NO | 230 V | 230 V | 1 MW | 5TT5800-0 | – | – | – | | |
| | | 24 V | 1 MW | 5TT5800-2 | – | – | – | | |
| 4 NO | 400 V | 230 V | Standard | 2 MW | – | 5TT5830-0 | – | | |
| | | | Capacitive loads up to 150 µF | 2 MW | – | – | 5TT5840-0 | 5TT5850-0 | |
| | | | | 2 MW | – | 5TT5820-0 | – | – | |
| | | 115 V | 2 MW | – | 5TT5830-1 | – | – | | |
| | | | 24 V | 2 MW | – | 5TT5830-2 | – | – | |
| | | | | 3 MW | – | – | 5TT5840-2 | 5TT5850-2 | |
| 2 NC | 230 V | 230 V | 1 MW | 5TT5802-0 | – | – | – | | |
| | | 24 V | 1 MW | 5TT5802-2 | – | – | – | | |
| 4 NC | 400 V | 230 V | 2 MW | – | 5TT5833-0 | – | – | | |
| | | | 3 MW | – | – | 5TT5843-0 | 5TT5853-0 | | |
| | | | 2 MW | – | 5TT5833-2 | – | – | | |
| | | 24 V | 3 MW | – | – | 5TT5843-2 | 5TT5853-2 | | |
| | | | 1 NO + 1 NC | 230 V | 230 V | 1 MW | 5TT5801-0 | – | – |
| | | | 24 V | 1 MW | 5TT5801-2 | – | – | – | |
| 2 NO + 2 NC | 400 V | 230 V | 2 MW | – | 5TT5832-0 | – | – | | |
| | | | 3 MW | – | – | 5TT5842-0 | 5TT5852-0 | | |
| | | | 2 MW | – | 5TT5832-2 | – | – | | |
| | | 24 V | 3 MW | – | – | 5TT5842-2 | 5TT5852-2 | | |
| | | | 3 NO + 1 NC | 400 V | 230 V | 2 MW | – | 5TT5831-0 | – |
| | | | 3 MW | – | – | 5TT5841-0 | 5TT5851-0 | | |
| 115 V | 2 MW | – | 5TT5831-1 | – | – | | | | |
| | 24 V | 2 MW | – | 5TT5831-2 | – | – | | | |
| | | 3 MW | – | – | 5TT5841-2 | 5TT5851-2 | | | |
| Insta contactors with manual switch O/I/Automatic | | | | | | | | | |
| 2 NO | 230 V | 230 V | 1 MW | 5TT5800-6 | – | – | – | | |
| | | 24 V | 1 MW | 5TT5800-8 | – | – | – | | |
| 4 NO | 400 V | 230 V | 2 MW | – | 5TT5830-6 | – | – | | |
| | | | 3 MW | – | – | 5TT5840-6 | 5TT5850-6 | | |
| | | 24 V | 2 MW | – | 5TT5830-8 | – | – | | |
| | | | 3 MW | – | – | 5TT5840-8 | – | | |
| 1 NO + 1 NC | 230 V | 230 V | 1 MW | 5TT5801-6 | – | – | – | | |
| | | 24 V | 1 MW | 5TT5801-8 | – | – | – | | |
| 3 NO + 1 NC | 400 V | 230 V | 2 MW | – | 5TT5831-6 | – | – | | |
| | | | 3 MW | – | – | 5TT5841-6 | – | | |
| | | 24 V | 2 MW | – | 5TT5831-8 | – | – | | |
| | | | 3 MW | – | – | 5TT5841-8 | – | | |

| Further technical specifications | | 5TT580. | 5TT582. 5TT583. | 5TT584. | 5TT585. | | |
|---|--|---|--------------------|----------------------------------|-----------------|--------------------------|---------|
| Standards | | | | | | | |
| Standards | | IEC 60947-4-1, IEC 60947-5-1, IEC 61095; EN 60947-4-1, EN 60947-5-1, EN 61095, VDE 0660 | | | | | |
| Supply | | | | | | | |
| Number of poles | | 2 | 4 | | | | |
| Rated operational current I_e | | 20 A | 25 A | 40 A | 63 A | | |
| Primary operating range | | 0.85 ... 1.1 × U_c | | | | | |
| Rated frequency f_c at AC | | 50/60 Hz | | | | | |
| Rated power dissipation P_v | | Pick-up power (without manual switch or manual switch in "I" position) | 6 VA / 3.8 W | 10 VA / 5 W | 15.4 VA / 4.6 W | | |
| | | Pick-up power (with manual switch in "AUTO" position) | 12 VA / 10 W | 33 VA / 25 W | 62 VA / 50 W | | |
| | | Holding power | 2.8 VA / 1.2 W | 5.5 VA / 1.6 W | 7.7 VA / 3 W | | |
| | | Per contact AC-1/AC-7a | 1.7 VA | 2.2 VA | 4 VA | 8 VA | |
| Contacts | | | | | | | |
| Contact gap | | Minimum | | 3.6 mm | 3.4 mm | | |
| Minimum switching capacity (= minimum contact load) | | ≥17 V; 50 mA | | | | | |
| Electrical service life at I_e and load | | AC-1/AC-7a switching cycles | | 200000 | 100000 | | |
| | | AC-3/AC-7b switching cycles | | 300000 | 500000 | 150000 | |
| Mechanical service life | | Switching cycles | | 3 million | | | |
| Switching of resistive loads AC-1/AC-7a for rated operational power P_s | | Single-phase (230 V) (NO contacts) | | 4 kW | 5.4 kW | 8.7 kW | 13.3 kW |
| | | Three-phase (400 V) (NO contacts) | | – | 16 kW | 26 kW | 40 kW |
| Switching of three-phase asynchronous motors AC-3/AC-7b for rated operational power P_s | | Single-phase (230 V) (NO contacts) | | 1.3 kW ¹⁾ | 1.3 kW | 3.7 kW | 5 kW |
| | | Three-phase (400 V) (NO contacts) | | – | 4 kW | 11 kW | 15 kW |
| Maximum switching frequency at load | | 600 h ⁻¹ | | | | | |
| Safety | | | | | | | |
| Rated insulation voltage U_i | | 440 V | | 500 V | | | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | | | | | |
| Short-circuit protection, according to coordination type 1 | | Back-up fuse characteristic gL/gG | | 20 A | 25 A | 63 A | 80 A |
| Overload withstand capability at 10 s | | Per conducting path (NO contacts only) | | 72 A | 68 A | 176 A | 240 A |
| Function | | | | | | | |
| Switching times | | Closing (NO contacts) | | 15 ms ... 25 ms | 10 ms ... 20 ms | 15 ms ... 20 ms | |
| | | Opening (NO contacts) | | 20 ms | | 10 ms | |
| | | Closing (NC contacts) | | 20 ms ... 30 ms | | 5 ms ... 10 ms | |
| | | Opening (NC contacts) | | 10 ms | | 10 ms ... 15 ms | |
| Connections | | | | | | | |
| Coil connection terminals | | ± Screw (Poqidriv) | | PZ 1 | | | |
| Main connection terminals | | ± Screw (Poqidriv) | | PZ 1 | | PZ 2 | |
| Coil connection conductor cross-section | | Rigid | | 1.0 ... 2.5 mm ² | | | |
| | | Flexible, with end sleeve | | 1.0 ... 2.5 mm ² | | | |
| Main connection conductor cross-section | | Rigid | | 1.0 ... 10 mm ² | | 1 ... 25 mm ² | |
| | | Flexible, with end sleeve | | 1.0 ... 6 mm ² | | 1 ... 16 mm ² | |
| Tightening torque | | Coil connection | | 0.6 Nm | | | |
| | | Main connection | | 1.2 Nm | | 3.5 Nm | |
| Environmental conditions | | | | | | | |
| Permissible ambient temperature | | For operation/for storage | | –5 ... +55 °C / –30 ... +80 °C | | | |
| Degree of protection | | Acc. to EN 60529 | | IP 20, with connected conductors | | | |

¹⁾ For NO contacts only.

Accessories

Auxiliary switches



- For right-hand-side retrofitting
- Max. one auxiliary switch per Insta contactor

| Contacts | Mounting width | Article No. |
|-------------|----------------|-------------|
| 2 NO | 0.5 MW | 5TT5910-0 |
| 1 NO + 1 NC | 0.5 MW | 5TT5910-1 |

Sealable terminal covers



| For Insta contactor | Mounting width | Article No. |
|---------------------|----------------|-------------|
| 20 A | 1 MW | 5TT5910-5 |
| 25 A | 2 MW | 5TT5910-6 |
| 40 A and 63 A | 3 MW | 5TT5910-7 |

5TT5 auxiliary switches

For 5TT5 Insta contactor

Rigid conductor cross-section 1 ... 2.5 mm²
Flexible conductor cross-section, with end sleeve 1 ... 2.5 mm²



| Contacts | U _e AC | Mounting width | |
|-------------|-------------------|----------------|-----------|
| 2 NO | 230 V / 400 V | 0.5 MW | 5TT5910-0 |
| 1 NO + 1 NC | 230 V / 400 V | 0.5 MW | 5TT5910-1 |

5

Further technical specifications

5TT5910

| Standards | | |
|--|-----------------------------------|----------------------------------|
| Standards | | IEC 60947-5-1 |
| Approvals | | CCC |
| Supply | | |
| Number of poles | | 2 |
| Rated operational current I _e | 230 V | 6 A |
| | 400 V | 4 A |
| Rated frequency f _c at AC | | 50/60 Hz |
| Contacts | | |
| Contact gap | Minimum | 4 mm |
| Minimum switching capacity | (= minimum contact load) | ≥12 V; 5 mA |
| Mechanical service life | Switching cycles | 3 million |
| Maximum switching frequency at load | | 600 h ⁻¹ |
| Safety | | |
| Rated insulation voltage U _i | | 500 V |
| Rated impulse withstand voltage U _{imp} | | 4 kV |
| Short-circuit protection, according to coordination type 1 | Back-up fuse characteristic gL/gG | 6 A |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| Conductor cross-section | Rigid | 1 ... 2.5 mm ² |
| | Flexible, with end sleeve | 1 ... 2.5 mm ² |
| Tightening torque | | 0.8 Nm |
| Environmental conditions | | |
| Permissible ambient temperature | For operation/for storage | -5 ... +55 °C / -30 ... +80 °C |
| Degree of protection | Acc. to EN 60529 | IP 20, with connected conductors |

5TT3 soft-starting devices

For two-phase motor control

Rigid conductor cross-section Max. 2 × 2.5 mm²
Flexible conductor cross-section, with end sleeve Min. 1 × 0.5 mm²



| Version | U _e AC | Mounting width | |
|-------------|-------------------|----------------|---------|
| Three-phase | 400 V | 6 MW | 5TT3440 |

Further technical specifications

5TT3440

| Standards | | |
|---|--------------------------------------|------------------------------|
| Standards | | EN 60947-4-2 (VDE 0660-117) |
| Supply | | |
| Line/motor voltage | | 400 V AC |
| Primary operating range | | 0.8 ... 1.1 × U _e |
| Rated frequency f _c at AC | | 50/60 Hz |
| Rated power | | 3.5 VA |
| Rated power dissipation P _v at rated operational current | Coil/drive | 3.5 VA |
| | Per contact | 4.6 VA |
| Rated output of motor at 400 V | Max. | 5500 VA |
| | Min. | 300 VA |
| Startup voltage | | 30 ... 70% |
| Starting ramp | | 0.1 ... 10 s |
| Safety | | |
| Quick-acting semiconductor fuse | | 35 A |
| Function | | |
| Switching frequency 3 × I _N , T _{AN} = 10 s, v _u = 20% | Switching cycles (up to 3 kW) | 36 h ⁻¹ |
| | Switching cycles (from 3 ... 5.5 kW) | 20 h ⁻¹ |
| Recovery time | | 100 ms |
| Connections | | |
| Conductor cross-section | Rigid | Max. 2 × 2.5 mm ² |
| | Flexible, with end sleeve | Min. 1 × 0.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | | -20 ... +60 °C |
| Resistance to climate | Acc. to EN 60068-1 | 20/60/4 |

7LF4 digital time switches

Mini



- Weekly program
- 28 programs
- Automatic daylight-saving adjustment

| Contacts | U_c | Channels | Mounting width | |
|----------|----------|----------|----------------|-----------|
| 1 NO | 230 V AC | 1 | 1 MW | 7LF4501-5 |

Further technical specifications

Mini

| Standards | | |
|--|--|---|
| Standards | | EN 60730-1, -2-7; VDE 0631-1, -2-7 |
| Supply | | |
| Primary operating range | | 0.85 ... 1.1 × U_c |
| Frequency range | | 50/60 Hz |
| Rated power dissipation P_v | | 0.9 VA |
| Channels | | |
| Rated operational voltage U_e | | 250 V AC |
| Rated operational current I_e | | At p.f. = 1 16 A |
| | | At p.f. = 0.6 10 A |
| Contacts | | |
| Minimum contact load | | 12 V / 100 mA |
| Electrical switching cycles | | At p.f. = 1 6000 (20 A) |
| Mechanical switching cycles | | >5 million |
| Incandescent lamp load | | 5 A |
| Energy-saving lamp load | | 300 W |
| Fluorescent lamp load | | Parallel p.f. correction 70 µF 60 VA |
| | | Uncorrected 2500 VA |
| Safety | | |
| Different phases between operating mechanism and contact | | Permissible |
| Rated impulse withstand voltage U_{imp} | | 4 kV |
| Electrostatic discharge | | Acc. to IEC 61000-4-2 >8.0 kV |
| EMC: Burst | | Acc. to IEC 61000-4-4 >4.4 kV |
| EMC: Surge | | Acc. to IEC 61000-4-5 >2.0 kV |
| Overvoltage category | | Acc. to EN 61010-1 III |
| Function | | |
| Clock errors per day | | Typical ±1 s/day |
| Power reserve storage | | Battery 3 years |
| Make and break cycles | | 1 min |
| Minimum switching sequences | | 1 min |
| Control input | | Terminal S – |
| Programs ¹⁾ | | 28 |
| Battery type | | Li primary cell |
| Connections | | |
| Terminals | | ± Screw (Pozidriv) PZ 1 |
| Conductor cross-sections of main current path | | Rigid 1.5 ... 4 mm ² Flexible, with end sleeve Max. 2.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | | For operation/ for storage –10 ... +55 °C / –20 ... +60 °C |
| Resistance to climate | | Acc. to EN 60068-1 10/055/21 |
| Degree of protection | | Acc. to EN 60529 IP20, with connected conductors |
| Safety class | | Acc. to EN 61140 II |

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

Top



- Weekly program
- 28 programs
- Text-assisted programming concept
 - Language: English
- Manual daylight-saving adjustment

| Contacts | U_c | Channels | Mounting width | |
|----------|----------|----------|----------------|-----------|
| 1 CO | 230 V AC | 1 | 2 MW | 7LF4511-0 |
| 2 CO | 230 V AC | 2 | 2 MW | 7LF4512-0 |

Further technical specifications

| Further technical specifications | | Top |
|--|-----------------------------------|---------------------------------------|
| Standards | | |
| Standards | | EN 60730-1, -2-7; VDE 0631-1, -2-7 |
| Supply | | |
| Primary operating range | | 0.85 ... 1.1 × U_c |
| Frequency range | | 50/60 Hz |
| Rated power dissipation P_v | | 2 VA |
| Channels | | |
| Rated operational voltage U_e | | 250 V AC |
| Rated operational current I_e | At p.f. = 1 | 16 A |
| | At p.f. = 0.6 | 10 A |
| Contacts | | |
| Minimum contact load | | 12 V / 100 mA |
| Electrical switching cycles | At p.f. = 1 | 100000 |
| Mechanical switching cycles | | 10 million |
| Incandescent lamp load | | 8 A |
| Energy-saving lamp load | | 60 VA |
| Fluorescent lamp load | Parallel p.f. correction 70 μF | 60 VA |
| | Uncorrected | 2300 VA |
| Safety | | |
| Different phases between operating mechanism and contact | | Permissible ²⁾ |
| Rated impulse withstand voltage U_{imp} | | 4 kV |
| Electrostatic discharge | Acc. to IEC 61000-4-2 | >8.0 kV |
| EMC: Burst | Acc. to IEC 61000-4-4 | >4.4 kV |
| EMC: Surge | Acc. to IEC 61000-4-5 | >2.0 kV |
| Oversvoltage category | Acc. to EN 61010-1 | III |
| Function | | |
| Clock errors per day | Typical | ±1.5 s/day |
| Power reserve storage | Battery | 3 years |
| Make and break cycles | | 1 min |
| Minimum switching sequences | | 1 min |
| Control input | Terminal S | No |
| Programs ¹⁾ | | 28 (14 per channel) |
| Program memory | Captive | No |
| Battery type | | Li primary cell |
| Connections | | |
| Terminals | ± Screw (Poqidriv) | PZ 1 |
| Conductor cross-sections of main current path | Rigid | 1.5 ... 4 mm ² |
| | Flexible, with end sleeve | Max. 2.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | For operation/ for storage | –20 ... +55 °C / –20 ... +60 °C |
| Resistance to climate | Acc. to EN 60068-1 | 20/055/21 |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | Acc. to EN 61140 | II |

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Profi



- Weekly program
- Vacation program
- Random program
- Expert mode
- Cycle function
- Text-assisted programming concept – 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz

| Contacts | U _c | Channels | Mounting width | |
|----------|----------------|----------|----------------|-----------|
| 1 CO | 230 V AC | 1 | 2 MW | 7LF4521-0 |
| | 24 V AC/DC | 1 | 2 MW | 7LF4521-2 |
| 2 CO | 230 V AC | 2 | 2 MW | 7LF4522-0 |
| | 24 V AC/DC | 2 | 2 MW | 7LF4522-2 |

Further technical specifications

Profi

| Standards | | |
|--|-----------------------------------|---------------------------------------|
| Standards | | EN 60730-1, -2-7; VDE 0631-1, -2-7 |
| Approvals | | UL File No. E301698 |
| Supply | | |
| Primary operating range | U _c 230 V | 0.85 ... 1.1 × U _c |
| | U _c 24 V | 0.9 ... 1.1 × U _c |
| Frequency range | U _c 230 V | 50/60 Hz |
| | U _c 24 V | 50/60 Hz |
| Rated power dissipation P _v | U _c 230 V | 2 VA |
| | U _c 24 V | 2 VA |
| Channels | | |
| Rated operational voltage U _e | | 250 V AC |
| Rated operational current I _e | At p.f. = 1 | 16 A |
| | At p.f. = 0.6 | 10 A |
| Contacts | | |
| Minimum contact load | | 12 V / 100 mA |
| Electrical switching cycles At p.f. = 1 | | 100000 |
| Mechanical switching cycles | | 10 million |
| Incandescent lamp load | | 8 A |
| Energy-saving lamp load | | 1000 W |
| Fluorescent lamp load | Parallel p.f. correction 70 μF | 600 VA |
| | Uncorrected | 2000 VA |
| Safety | | |
| Different phases between operating mechanism and contact | | Permissible ²⁾ |
| Rated impulse withstand voltage U _{imp} | | 4 kV |
| Electrostatic discharge Acc. to IEC 61000-4-2 | | >8.0 kV |
| EMC: Burst Acc. to IEC 61000-4-4 | | >4.4 kV |
| EMC: Surge Acc. to IEC 61000-4-5 | | >2.0 kV |
| Overvoltage category Acc. to EN 61010-1 | | III |
| Function | | |
| Clock errors per day | Typical | ±0.1 s/day |
| Power reserve storage | Battery | 5 years |
| Make and break cycles | | 1 s |
| Minimum switching sequences | | 1 s |
| Control input | Terminal S | No |
| Programs ¹⁾ | | 28 |
| Program memory | Captive | Yes |
| Battery type | | Li primary cell |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| Conductor cross-sections of main current path | Rigid | 1.5 ... 4 mm ² |
| | Flexible, with end sleeve | Max. 2.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | For operation/for storage | -20 ... +55 °C / -20 ... +60 °C |
| Resistance to climate | Acc. to EN 60068-1 | 20/055/21 |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | Acc. to EN 61140 | II |

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

Astro



- Weekly program
- Vacation program
- Random program
- Expert mode
- Astro function
- Text-assisted programming concept – 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz
- Input disable via PIN code
- Daylight-saving correction
- 1 h test

| Contacts | U_c | Channels | Mounting width | |
|----------|----------|----------|----------------|-----------|
| 1 CO | 230 V AC | 1 | 2 MW | 7LF4531-0 |
| 2 CO | 230 V AC | 2 | 2 MW | 7LF4532-0 |

Further technical specifications




| Further technical specifications | | Astro |
|--|-----------------------------------|---------------------------------------|
| Standards | | |
| Standards | | EN 60730-1, -2-7; VDE 0631-1, -2-7 |
| Approvals | | UL File No. E301698 |
| Supply | | |
| Primary operating range | | 0.85 ... 1.1 × U_c |
| Frequency range | | 50/60 Hz |
| Rated power dissipation P_v | | 2 VA |
| Channels | | |
| Rated operational voltage U_e | | 250 V AC |
| Rated operational current I_e | At p.f. = 1 | 16 A |
| | At p.f. = 0.6 | 10 A |
| Contacts | | |
| Minimum contact load | | 12 V / 100 mA |
| Electrical switching cycles | At p.f. = 1 | 100000 |
| Mechanical switching cycles | | 10 million |
| Incandescent lamp load | | 8 A |
| Energy-saving lamp load | | 1000 W |
| Fluorescent lamp load | Parallel p.f. correction 70 μF | 600 VA |
| | Uncorrected | 2000 VA |
| Safety | | |
| Different phases between operating mechanism and contact | | Permissible ²⁾ |
| Rated impulse withstand voltage U_{imp} | | 4 kV |
| Electrostatic discharge | Acc. to IEC 61000-4-2 | >8.0 kV |
| EMC: Burst | Acc. to IEC 61000-4-4 | >4.4 kV |
| EMC: Surge | Acc. to IEC 61000-4-5 | >2.0 kV |
| Oversvoltage category | Acc. to EN 61010-1 | III |
| Function | | |
| Clock errors per day | Typical | ±0.1 s/day |
| Power reserve storage | Battery | 5 years |
| Make and break cycles | | 1 s |
| Minimum switching sequences | | 1 s |
| Control input | Terminal S | Yes (with 1K clock) |
| Programs ¹⁾ | | 56 (2 × 28) |
| Program memory | Captive | Yes |
| Battery type | | Li primary cell |
| Connections | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 |
| Conductor cross-sections of main current path | Rigid | 1.5 ... 4 mm ² |
| | Flexible, with end sleeve | Max. 2.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | For operation/ for storage | -20 ... +55 °C / -20 ... +60 °C |
| Resistance to climate | Acc. to EN 60068-1 | 20/055/21 |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | Acc. to EN 61140 | II |

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Accessories

| | | Mini | Top | Profi | Astro |
|---|--|------|-----|-------|-------|
| Data keys | | | | | |
|  | <ul style="list-style-type: none"> • For Profi and Astro digital time switches • Programming at the PC (7LF4941-0 USB adapter and software required) • Read-in of programs to the time switch • Writing of programs from the time switch • Transfer of programs <ul style="list-style-type: none"> – From PC to time switch and vice versa – From time switch to time switch | | | | |
| | Article No. | | | | |
| | 7LF4941-1 | – | – | ■ | ■ |
| USB adapter and software | | | | | |
|  | <ul style="list-style-type: none"> • For Profi and Astro digital time switches • For the reading and writing of data keys at the PC • Including programming software • Including 7LF4941-1 data key for Profi and Astro • Compatible with 7LF4940-1 data key (predecessor model) and 7LF4940-2 data key • Can be connected via USB interface • System requirements: <ul style="list-style-type: none"> – Windows 7, Windows Vista, Windows 2000, Windows ME, Windows XP or Windows 98 Second Edition – USB connection – 40 MB free disk space | | | | |
| | Article No. | | | | |
| | 7LF4941-0 | – | – | ■ | ■ |
| Holders for front panel installation | | | | | |
|  | <ul style="list-style-type: none"> • Universal application for devices from 1 MW ... 6 MW • Cutout dimensions: <ul style="list-style-type: none"> – Height 45^{+0.5} mm – Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm | | | | |
| | Article No. | | | | |
| | 7LF9006 | ■ | ■ | ■ | ■ |

7LF5 mechanical time switches

Time switches without power reserve

For standard mounting rail

For wall mounting
(surface mounting)



| Contacts | Mounting width | | | |
|-----------------------|----------------|-----------|-----------|-----------|
| With day disk | | | | |
| 1 NO | 1 MW | 7LF5300-1 | – | – |
| 1 CO | 3 MW | – | 7LF5300-5 | – |
| | – | – | – | 7LF5301-0 |
| With week disk | | | | |
| 1 CO | 3 MW | – | 7LF5300-6 | – |

| Further technical specifications | | 7LF5300-1 | 7LF5300-5 | 7LF5300-6 | 7LF5301-0 |
|--|--|--|-----------|---------------------------------|-----------|
| Standards | | | | | |
| Standards | | EN 60730-1, -2-7, UL 917, UL 917, CSA C22.2 No. 14 and 177 | | | |
| Approvals | | VDE, UL file: E301698 | | | |
| Supply | | | | | |
| Rated control supply voltage U_c | | 230 V AC | | | |
| Primary operating range U_c 230 V AC | | 0.85 ... 1.1 × U_c | | | |
| Rated frequency | | 50 Hz | | | |
| Frequency range | | 50 Hz | | | |
| Rated power dissipation P_v | | 1 VA | | | |
| Channels | | | | | |
| Rated operational voltage U_e | | 250 V AC | | | |
| Rated operational current I_e | | At p.f. = 1 | | 16 A | |
| | | At p.f. = 0.6 | | 4 A | |
| Contacts | | | | | |
| Minimum contact load | | 4 V / 1 mA | | | |
| Electrical switching cycles | | At p.f. = 1 | | 100000 | |
| Mechanical switching cycles | | 20 million | | | |
| Incandescent lamp load | | 5 A | | | |
| Fluorescent lamp load | | Parallel p.f. correction 70 μF | | 60 VA | |
| | | Uncorrected | | 1400 VA | |
| Safety | | | | | |
| Different phases between operating mechanism and contact | | Permissible | | | |
| Electrical isolation, creepage distances and clearances | | Operating mechanism | | 8 mm | |
| | | Contact | | 6 mm | |
| Rated impulse withstand voltage U_{imp} | | 4 kV | | | |
| Electrostatic discharge | | Acc. to IEC 61000-4-2 | | >8.0 kV | |
| EMC: Burst | | Acc. to IEC 61000-4-4 | | >4.4 kV | |
| EMC: Surge | | Acc. to IEC 61000-4-5 | | >2.0 kV | |
| Overvoltage category | | Acc. to EN 61010-1 | | III | |
| Function | | | | | |
| Switching accuracy | | ±5 min | | ±30 min | ±5 min |
| Clock errors | | System-synchronized | | | |
| Make and break cycles | | 15 min | | 120 min | 10 min |
| Minimum switching sequences | | 30 min | | 240 min | 30 min |
| Connections | | | | | |
| Terminals | | ± Screw (Pozidriv) | | PZ 1 | |
| Conductor cross-sections of main current path | | Rigid | | 1.5 ... 4 mm ² | |
| | | Flexible, with end sleeve | | Max. 2.5 mm ² | |
| | | Flexible, without end sleeve | | Max. 4 mm ² | |
| Environmental conditions | | | | | |
| Permissible ambient temperature | | For operation/for storage | | -10 ... +55 °C / -10 ... +60 °C | |
| Resistance to climate | | Acc. to EN 60068-1 | | 10/055/21 | |
| Degree of protection | | Acc. to EN 60529 | | IP20, with connected conductors | |
| Safety class | | Acc. to EN 61140 | | II | |

Accessories

Holders for front panel installation







- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 - Height 45^{+0.5} mm
 - Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm

Article No.

7LF9006

7LF5 mechanical time switches

Time switches with power reserve

| | For standard mounting rail | | | For wall mounting (surface mounting) | |
|--|---|---|---|---|-----------|
| Time buffering in the event of a power failure | – | – | ■ | – | – |
| Automatic daylight-saving adjustment | – | – | ■ | – | – |
| Automatic time setting for Central European time zone during commissioning | – | – | ■ | – | – |
| |  |  |  |  | |
| Contacts | Mounting width | | | | |
| With day disk | | | | | |
| 1 NO | 1 MW | 7LF5301-1 | – | – | – |
| 1 CO | 3 MW | – | 7LF5301-6 | 7LF5301-4 | – |
| | – | – | – | – | 7LF5305-0 |
| With week disk | | | | | |
| 1 CO | 3 MW | – | 7LF5301-7 | 7LF5301-5 | – |

| Further technical specifications | | 7LF5301-1 | 7LF5301-4 | 7LF5301-5 | 7LF5301-6 | 7LF5301-7 | 7LF5305-0 | |
|--|--|---------------------------------|-----------------|-----------|-----------|-----------|------------|--|
| Standards | | | | | | | | |
| Standards | EN 60730-1, -2-7, UL 917, UL 917, CSA C22.2 No. 14 and 177 | | | | | | | |
| Approvals | VDE, UL file: E301698 | | | | | | | |
| Supply | | | | | | | | |
| Rated control supply voltage U_c | 230 V AC | | | | | | | |
| Primary operating range | 0.85 ... 1.1 × U_c | | | | | | | |
| Rated frequency | 50 Hz | | | | | | | |
| Frequency range | 50/60 Hz | | | | | | | |
| Rated power dissipation P_v | 1 VA | 0.2 VA | | 1 VA | | | | |
| Channels | | | | | | | | |
| Rated operational voltage U_e | 250 V AC | | | | | | | |
| Rated operational current I_e | At p.f. = 1 | 16 A | | | | | | |
| | At p.f. = 0.6 | 4 A | | | | | | |
| Contacts | | | | | | | | |
| Minimum contact load | 4 V / 1 mA | | | | | | | |
| Electrical switching cycles | At p.f. = 1 | 100000 | | | | | | |
| Mechanical switching cycles | 20 million | | | | | | | |
| Incandescent lamp load | 5 A | | | | | | | |
| Fluorescent lamp load | Parallel p.f. correction 70 µF | 60 VA | | | | | | |
| | Uncorrected | 1400 VA | | | | | | |
| Safety | | | | | | | | |
| Different phases between operating mechanism and contact | Permissible | | | | | | | |
| Electrical isolation, creepage distances and clearances | Operating mechanism | 8 mm | | | | | | |
| | Contact | 6 mm | | | | | | |
| Rated impulse withstand voltage U_{imp} | 4 kV | | | | | | | |
| Electrostatic discharge | Acc. to IEC 61000-4-2 | >8.0 kV | | | | | | |
| EMC: Burst | Acc. to IEC 61000-4-4 | >4.4 kV | | | | | | |
| EMC: Surge | Acc. to IEC 61000-4-5 | >2.0 kV | | | | | | |
| Overvoltage category | Acc. to EN 61010-1 | III | | | | | | |
| Function | | | | | | | | |
| Switching accuracy | ±5 min | | ±30 min | | ±5 min | | ±30 min | |
| Clock errors | ±2.5 s/day | | ±0.2 s/day | | ±60 s/day | | ±2.5 s/day | |
| Power reserve storage | 100 h | | 6 years | | 100 h | | | |
| Make and break cycles | 15 min | | 120 min | | 15 min | | 120 min | |
| Minimum switching sequences | 30 min | | 240 min | | 30 min | | 240 min | |
| Battery type | NiMH cell | | Li primary cell | | NiMH cell | | | |
| Minimum loading time | 48 h | | – | | 48 h | | | |
| Service life of battery | At 20 °C | 6 years | | 10 years | | 6 years | | |
| | At 40 °C | 5 years | | | | | | |
| Connections | | | | | | | | |
| Terminals | ± Screw (Pozidriv) | PZ 1 | | | | | | |
| Conductor cross-sections of main current path | Rigid | 1.5 ... 4 mm ² | | | | | | |
| | Flexible, with end sleeve | Max. 2.5 mm ² | | | | | | |
| | Flexible, without end sleeve | Max. 4 mm ² | | | | | | |
| Environmental conditions | | | | | | | | |
| Permissible ambient temperature | Storage/operation | –10 ... +60 °C / –10 ... +55 °C | | | | | | |
| Resistance to climate | Acc. to EN 60068-1 | 10/055/21 | | | | | | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | | | | | |
| Safety class | Acc. to EN 61140 | II | | | | | | |

Accessories

Holders for front panel installation



- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 - Height 45^{+0.5} mm
 - Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm

Article No.

7LF9006

7LF6 timers for buildings **new**

| | Standard stairwell lighting timers | Multi stairwell lighting timers |
|-----------------------|---|---|
| 3-wire circuit | ■ | ■ |
| 4-wire circuit | ■ | ■ |
| Zero crossing circuit | ■ | ■ |
| Operation | Resettable | Resettable |
| |  |  |



| Contacts | Warning of impending switch-off | Mounting width | 7LF6310 | 7LF6311 |
|----------|---------------------------------|----------------|--------------|--------------|
| 1 NO | – Flickering | 1 MW 1 MW | 7LF6310 – | – 7LF6311 |

Further technical specifications

| | | 7LF6310 | 7LF6311 |
|------------------------------------|--|----------------|-------------------|
| Supply | | | |
| Rated operational current I_e | At p.f. = 1 | 16 A | |
| Rated operational voltage U_e | | 250 V AC | |
| Rated control supply voltage U_c | | 230 V AC | |
| Frequency range | | 50/60 Hz | |
| Rated power dissipation P_v | | 1 W | |
| Rated impulse withstand voltage | | 4 kV | |
| Contacts | | | |
| Channels | | 1 | |
| Max. glow lamp load | | 25 mA | 50 mA |
| Separate multi-voltage input | | – | 8 ... 230 V AC/DC |
| Switching capacity | Inductive p.f. = 0.6 | 2000 VA | |
| Incandescent lamp load | Max. | 3680 W | |
| Fluorescent lamp load | Series p.f. correction | 2000 VA | |
| | Parallel p.f. correction at 70 μ F | 1000 W | |
| Compact fluorescent lamp load | | 1000 W | |
| LED | | 1000 W | |
| Electronic transformers | | 2000 VA | |
| Conventional transformers | | 2000 VA | |
| Function | | | |
| Setting range | | 0.5 ... 10 min | 0.5 ... 12 min |
| Manual switches | | Yes | |
| Programs | | – | 7 ¹⁾ |
| Environmental conditions | | | |
| Permissible ambient temperature | For operation | –20 ... +55 °C | |
| | For storage | –20 ... +60 °C | |
| Degree of protection | Installed | IP30 | |
| Pollution degree | | 2 | |

¹⁾ 7 functions, can be selected using selector switch on the device

5TT3 timers for industrial applications

| | Multifunction timers | Delay timers |
|-------------------|---|---|
| Programmable for: | <ul style="list-style-type: none"> • Response delay • Passing make contact function • Pulse generator, delayed • Clock generator, starting with impulse • OFF-delay • Pulse converter • Passing break contact function • Response delay/OFF-delay | – |
| |  |  |

| Contacts | Mounting width | | |
|----------|----------------|---------|---------|
| 1 CO | 1 MW | 5TT3185 | 5TT3181 |

| Further technical specifications | | 5TT3185 | 5TT3181 |
|---|---------------------------|------------------------------|-----------------------|
| Standards | | | |
| Standards | | EN 60255; DIN VDE 0435-110 | |
| Supply | | | |
| Rated operational current I_e | | 4 A | 8 A |
| Rated operational voltage U_e | | 250 V AC | |
| Rated control supply voltage U_c | | 12 ... 240 V AC | 220 ... 240 V AC |
| | | 12 ... 240 V DC | – |
| Primary operating range | U_c 230 V AC, 50/60 Hz | 0.8 ... 1.1 × U_c | |
| Rated frequency f_n | | 45 ... 400 Hz | 50/60 Hz |
| Rated power dissipation P_v | | Approx. 1.5 VA | Approx. 5 VA |
| Contacts | | | |
| Contact gap | | µm contact | |
| Minimum contact load | | 10 V / 300 mA | |
| Electrical service life | Switching cycles | 1.5 × 10 ⁵ | – |
| | At AC-15 | – | 1.5 × 10 ⁵ |
| Safety | | | |
| Rated impulse withstand voltage U_{imp} | Input / output | >4 kV | |
| Function | | | |
| Setting range | | 1 s ... 300 h | |
| Recovery time | | 15 ... 80 ms | Approx. 40 ms |
| Connections | | | |
| Terminals | ± Screw (Pozidriv) | PZ 2 | |
| Conductor cross-sections of main current path | Rigid | Max. 2 × 2.5 mm ² | |
| | Flexible, with end sleeve | Min. 2 × 1.5 mm ² | |
| Environmental conditions | | | |
| Permissible ambient temperature | | –40 ... +60 °C | |
| Resistance to climate | Acc. to EN 60068-1 | 40/60/4 | |



Overvoltage protection devices

The more than one million lightning strikes in Germany every year pose a considerable risk for buildings and systems that can be damaged due to the unhindered effect of lightning currents, overvoltage and power surges. In many cases however, it is not apparent that such damage has been caused by lightning currents, overvoltage and power surges.

Overvoltage results in considerable damage to electrical and electronic equipment. Even brief transients in power supply lines or between electrical lines and other conductive parts (e.g. grounded metallic parts, ground) are sufficient to cause such damage. The damage patterns of destroyed lines, circuit boards or switchgear demonstrate this. Such damage can be prevented employing suitable overvoltage protection means.

Reliably protected by Siemens lightning and surge arresters!

Overvoltage Protection Devices



| | |
|--|------|
| All the information you need | 6/2 |
| System overview | 6/4 |
| Basic units | 6/6 |
| 5SD74 lightning arresters, type 1 | 6/6 |
| 5SD74 combination surge arresters, type 1 + type 2 | 6/8 |
| 5SD74 combination surge arresters, type 1 / type 2 | 6/10 |
| 5SD74 surge arresters, type 2 | 6/12 |
| 5SD74 surge arresters, type 3 | 6/16 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about overvoltage protection devices, please visit our website
www.siemens.com/overvoltage-protection

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technology primer – Overvoltage protection devices (109756965)

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Overvoltage protection devices sie.ag/2kTfyTV

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Overvoltage protection devices (45315289)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Training and tutorials

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- Protection concept (WT-LVBPC)

Technical overview – Overvoltage protection devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on overvoltage protection devices

www.siemens.com/lowvoltage/product-support (109769084)

System overview

Basic units



5SD74 lightning arresters type 1



5SD74 combination surge arresters type 1 + type 2



5SD74 combination surge arresters type 1 / type 2



5SD74 surge arresters type 2 (standard design)



5SD74 surge arresters type 3

Replacement plugs



N-PE



L-N, L-PEN (type 1)



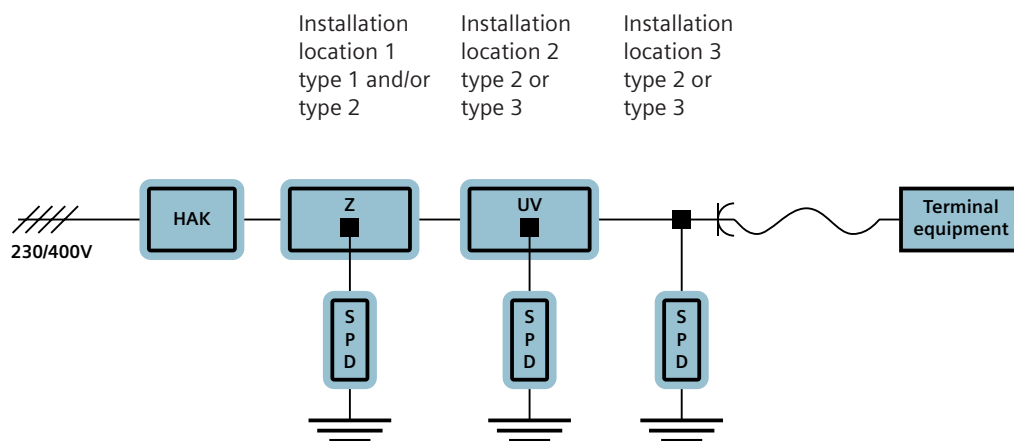
L-PEN

Note:

You will find a detailed range of accessories with the basic units.



Installation locations for surge protection devices (SPDs)







HAK: Main terminal box

Z/HV: In or close to the central meter system / main distribution board

UV: Subdistribution board

Installation location 1 must be as close as possible to the supply point for the electrical system, so that the downstream installations are protected. The SPDs at installation locations 2 and 3 shall not be used without SPDs at installation location 1, and they must be coordinated with these SPDs (i.e. SPDs all from the same manufacturer).

5SD74 lightning arresters, type 1

| | For TN-C and IT systems | For TN-C systems | For TN-S and TT systems | |
|----------------------------------|---|---|--|---|
| Protection paths | L-PE | L-PEN | L-N, L-PE and N-PE | L-N, L-PE and N-PE |
| Rated voltage U_n | 690 V AC | 240/415 V AC | 240 V AC | 240/415 V AC |
| Maximum continuous voltage U_c | 800 V AC | 350 V AC | 350 V AC | 350 V AC |
| |  |  |  |  |

| Circuit | Mounting width | | | | |
|------------------------------|-----------------|-----------|-----------|-----------|-----------|
| With remote signaling | | | | | |
| 1 + 0 | — ¹⁾ | 5SD7411-2 | — | — | — |
| 1 + 1 | 4 MW | — | — | 5SD7412-1 | — |
| 3 + 0 | 6 MW | — | 5SD7413-1 | — | — |
| 3 + 1 | 8 MW | — | — | — | 5SD7414-1 |

¹⁾ No modular installation device.

Further technical specifications

| | | 5SD7411-2 | 5SD7412-1 | 5SD7413-1 | 5SD7414-1 |
|--|-----------------------------|---------------------------------|----------------------------|-----------|-----------|
| Standards | | | | | |
| Standards | | IEC 61643-11, EN 61643-11 | | | |
| Approvals | | — | KEMA, UL/cUL | | |
| Voltage | | | | | |
| Protection level U_p | L-N and L-PEN | ≤4.50 kV | ≤1.50 kV | | |
| | L-PE | — | ≤2.50 kV | — | ≤2.50 kV |
| | N-PE | — | ≤1.50 kV | — | ≤1.50 kV |
| Current | | | | | |
| Lightning impulse current I_{imp} (10/350 μs) | L-N and L-PEN, 1P/3P | 35 kA | 25 kA | 25/75 kA | |
| | N-PE | — | 100 kA | — | 100 kA |
| Rated discharge surge current I_n (8/20 μs) | L-N and L-PEN, 1P/3P | 35 kA | 25 kA | 25/75 kA | |
| | N-PE | — | 100 kA | — | 100 kA |
| Follow current discharge capacity I_{fi} (AC) | L-N and L-PEN for 264/350 V | — | 50/25 kA | | — |
| | N-PE | — | 100 A | — | 100 A |
| Function | | | | | |
| Response time t_A | L-N and L-PEN | ≤100 ns | | | |
| | L-N and N-PE | — | ≤100 ns | — | ≤100 ns |
| Connections | | | | | |
| Conductor cross-section | Finely stranded | 16 ... 50 mm ² | 2.5 ... 25 mm ² | | |
| | Solid | 16 ... 50 mm ² | 2.5 ... 35 mm ² | | |
| Protection devices | | | | | |
| Max. back-up fuse acc. to IEC 61643-1 | For stub wiring (gL/gG) | 400 A | 315 A | | |
| | For V wiring (gL/gG) | 125 A | 125 A | | |
| Short-circuit withstand current | With max. back-up fuse | 50 kA | 50 kA | | |
| Environmental conditions | | | | | |
| Degree of protection | | IP20, with connected conductors | | | |
| Temperature range | | -40 ... +80 °C | | | |

Accessories

Replacement plugs



| Protection paths | Basic units | Article No. |
|------------------|--|-------------|
| N-PE | 5SD7412-1 and 5SD7414-1 | 5SD7418-0 |
| L-N and L-PEN | For 5SD7412-1, 5SD7413-1 and 5SD7414-1 | 5SD7418-1 |

5SD74 combination surge arresters, type 1 + type 2

| | For TN-C systems | For TN-S and TT systems | |
|----------------------------------|------------------|-------------------------|--------------------|
| Protection paths | L-PEN | L-N, L-PE and N-PE | L-N, L-PE and N-PE |
| Rated voltage U_n | 240/415 V AC | 240 V AC | 240 V AC |
| Maximum continuous voltage U_c | 350 V AC | 350 V AC | 350 V AC |



| Circuit | Mounting width | | |
|------------------------------|----------------|-----------|-----------|
| With remote signaling | | | |
| 1 + 1 | 4 MW | – | 5SD7442-1 |
| 3 + 0 | 6 MW | 5SD7443-1 | – |
| 3 + 1 | 8 MW | – | 5SD7444-1 |

Further technical specifications

| | | 5SD7442-1 | 5SD7443-1 | 5SD7444-1 |
|---|-------------------------|---------------------------------|-----------|-----------|
| Standards | | | | |
| Standards | | IEC 61643-11; EN 61643-11 | | |
| Approvals | | KEMA, UL/cUL | | |
| Voltage | | | | |
| Protection level U_p | L-N and L-PEN | ≤1.50 kV | | |
| | L-PE | ≤2.20 kV | – | ≤2.20 kV |
| | N-PE | ≤1.50 kV | – | ≤1.50 kV |
| Current | | | | |
| Lightning impulse current I_{imp} (10/350 μ s) | L-N and L-PEN | 25 kA | | |
| | N-PE | 100 kA | – | 100 kA |
| Rated discharge surge current I_n (8/20 μ s) | L-N and L-PEN | 25 kA | | |
| | N-PE | 100 kA | – | 100 kA |
| Follow current discharge capacity I_{fi} (AC) | L-N and L-PEN | 25 kA | | |
| | N-PE | 100 A | – | 100 A |
| Function | | | | |
| Response time t_A | L-N and L-PEN | ≤25 ns | | |
| | L-N and N-PE | ≤100 ns | – | ≤100 ns |
| Connections | | | | |
| Conductor cross-section | Finely stranded | 2.5 ... 25 mm ² | | |
| | Solid | 2.5 ... 35 mm ² | | |
| Protection devices | | | | |
| Max. back-up fuse acc. to IEC 61643-1 | For stub wiring (gL/gG) | 315 A | | |
| | For V wiring (gL/gG) | 125 A | | |
| Short-circuit withstand current | With max. back-up fuse | 25 kA | | |
| Environmental conditions | | | | |
| Degree of protection | | IP20, with connected conductors | | |
| Temperature range | | –40 ... +80 °C | | |
| Display | | | | |
| Visual function/fault indication | | Yes | | |

Accessories

Replacement plugs



| Protection paths | Type | Basic units | Article No. |
|------------------|------|------------------------------------|-------------|
| N-PE | – | 5SD7442-1 and 5SD7444-1 | 5SD7418-0 |
| L-N and L-PEN | 1 | 5SD7442-1, 5SD7443-1 and 5SD7444-1 | 5SD7448-1 |
| | 2 | 5SD7442-1, 5SD7443-1 and 5SD7444-1 | 5SD7428-1 |

5SD74 combination surge arresters, type 1 / type 2

| | For TN-C and IT systems | For TN-C systems | For TN-S and TT systems | For photovoltaic systems | |
|----------------------------------|-------------------------|------------------|-------------------------|--------------------------|-------------|
| Protection paths | L-PE | L-PEN | L-N, L-PE and N-PE | L-N, L-PE and N-PE | (L+) – (L–) |
| Rated voltage U_n | 690 V AC | 240/415 V AC | 240 V AC | 240/415 V AC | – |
| Maximum continuous voltage U_c | 800 V AC | 335 V AC | 335 V AC | 335 V AC | 1000 V DC |



| Circuit | Mounting width | Plug-in | | | |
|---------------------------------|-----------------|-----------|-----------|-----------|-----------|
| With remote signaling | | | | | |
| 1 + 0 | – ¹⁾ | 5SD7411-2 | – | – | – |
| 3 + 0 | 3 MW | – | 5SD7413-3 | – | – |
| 3 + 1 | 4 MW | – | – | 5SD7414-3 | – |
| Without remote signaling | | | | | |
| 1 + 1 | 2 MW | – | – | 5SD7412-2 | – |
| 3 + 0 | 3 MW | – | 5SD7413-2 | – | 5SD7483-6 |
| 3 + 1 | 4 MW | – | – | 5SD7414-2 | – |

¹⁾ No modular installation device.

| Further technical specifications | 5SD7411-2 | 5SD7412-2 | 5SD7413-2 5SD7413-3 | 5SD7414-2 5SD7414-3 | 5SD7483-6 |
|---|---------------------------------|---------------------------|----------------------------|------------------------|-----------|
| Standards | | | | | |
| Standards | IEC 61643-11 | | | | EN 50539 |
| Approvals | – | KEMA | | | – |
| Voltage | | | | | |
| Protection level U_p | L-N and L-PEN | ≤4.50 kV | ≤1.20 kV | | ≤3.50 kV |
| | L-PE | – | – | | ≤2.0 kV |
| | N-PE | – | ≤1.70 kV | – | ≤1.70 kV |
| Current | | | | | |
| Lightning impulse current I_{imp} (10/350 μs) | L-N and L-PEN | 35 kA | 12.5 kA | | ≤5 kA |
| | N-PE | – | 50 kA | – | 50 kA |
| Rated discharge surge current I_n (8/20 μs) | L-N and L-PEN | 35 kA | 12.5 kA | | 15 kA |
| | N-PE | – | 50 kA | – | – |
| Max. discharge surge current I_{max} (8/20 μs) | L-N | 100 kA | 12.5 kA | | 40 kA |
| | N-PE | – | 50 kA | – | 50 kA |
| Function | | | | | |
| Response time t_A | L-N and L-PEN | <100 ns | ≤25 ns | | – |
| | L-N and N-PE | – | ≤100 ns | – | ≤100 ns |
| Connections | | | | | |
| Conductor cross-section | Finely stranded | 16 ... 50 mm ² | 1.5 ... 25 mm ² | | – |
| | Solid | 16 ... 50 mm ² | 1.5 ... 35 mm ² | | – |
| Protection devices | | | | | |
| Max. back-up fuse acc. to IEC 61643-1 | For stub wiring (gL/gG) | 400 A | 160 A | | – |
| | For V wiring (gL/gG) | 125 A | 80 A | | – |
| Short-circuit withstand current | With max. back-up fuse | 50 kA | 25 kA | | – |
| Environmental conditions | | | | | |
| Degree of protection | IP20, with connected conductors | | | | |
| Temperature range | –40 ... +80 °C | | | | |

Accessories








Replacement plugs



| Protection paths | Type | Basic units | Article No. |
|------------------|------|---|-------------|
| N-PE | – | 5SD7412-2, 5SD7412-3, 5SD7414-2 and 5SD7414-3 | 5SD7418-2 |
| L-N and L-PEN | 1 | 5SD7412-2, 5SD7412-3, 5SD7413-2, 5SD7413-3, 5SD7414-2 and 5SD7414-3 | 5SD7418-3 |
| L-PE (PV) | 2 | 5SD7483-6 | 5SD7498-3 |

5SD74 surge arresters, type 2

Standard design

| | For TN and TT systems | | For TN-C and IT systems | For TN-C systems | For IT systems | | For TN-S and TT systems |
|----------------------------------|---|---|---|---|--|---|---|
| Protection paths | N-PE | L-PEN and L-N | L-PEN and L-N | L-PEN | L-PEN and L-PE | L-PEN and L-PE | L-N, L-PE and N-PE |
| Rated voltage U_n | 240/415 V AC | 240/415 V AC | 400/690 V AC | 240/415 V AC | 400/690 V AC | 554/960 V AC | 240/415 V AC |
| Maximum continuous voltage U_c | 260 V AC | 350 V AC | 800 V AC | 350 V AC | 580 V AC | 760 V AC | 350 V AC (L-N, L-PE) 260 V AC (N-PE) |
| |  |  |  |  |  |  |  |

| Circuit | Mounting width | | | | | | | |
|---------------------------------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| With remote signaling | | | | | | | | |
| 1 + 0 | 1 MW | – | 5SD7461-1 | – | – | – | – | – |
| | 2 MW | – | – | 5SD7481-1 | – | – | – | – |
| 3 + 0 | 3 MW | – | – | – | 5SD7463-1 | 5SD7473-1 | 5SD7483-5 | – |
| 3 + 1 | 4 MW | – | – | – | – | – | – | 5SD7464-1 |
| Without remote signaling | | | | | | | | |
| 1 + 0 | 1 MW | 5SD7481-0 | 5SD7461-0 | – | – | – | – | – |
| 3 + 0 | 3 MW | – | – | – | 5SD7463-0 | – | – | – |
| 3 + 1 | 4 MW | – | – | – | – | – | – | 5SD7464-0 |

| Further technical specifications | 5SD7481-0 | 5SD7461-0 5SD7461-1 | 5SD7481-1 | 5SD7463-0 5SD7463-1 | 5SD7464-0 5SD7464-1 | 5SD7473-1 | 5SD7483-5 | |
|---|---------------------------------|----------------------------|-----------|------------------------|------------------------|-----------|-----------|-----------------|
| Standards | | | | | | | | |
| Standards | IEC 61643-11; EN 61643-11 | | | | | | | |
| Approvals | KEMA | | | | | | – | KEMA, UL/cUL |
| Voltage | | | | | | | | |
| Protection level U_p | L-N and L-PEN | – | ≤1.50 kV | ≤5 kV | ≤1.50 kV | ≤1.60 kV | ≤2.50 kV | ≤2.90 kV |
| | L-PE | – | – | – | – | ≤1.90 kV | – | – |
| | N-PE | ≤1.50 kV | – | – | – | ≤1.50 kV | – | – |
| Current | | | | | | | | |
| Rated discharge surge current I_n (8/20 μs) | L-N and L-PEN | – | 20 kA | 15 kA | 20 kA | – | 15 kA | |
| | N-PE | 20 kA | – | – | – | 20 kA | – | |
| Max. discharge surge current I_{max} (8/20 μs) | L-N | – | 40 kA | 30 kA | 40 kA | – | 30 kA | |
| | N-PE | 40 kA | – | – | – | 40 kA | – | |
| Function | | | | | | | | |
| Response time t_A | L-N and L-PEN | – | ≤25 ns | ≤100 ns | ≤25 ns | – | – | |
| | L-N and N-PE | ≤100 ns | – | – | – | ≤100 ns | – | |
| Connections | | | | | | | | |
| Conductor cross-section | Finely stranded | 1.5 ... 25 mm ² | | | | | | |
| | Solid | 1.5 ... 35 mm ² | | | | | | |
| Protection devices | | | | | | | | |
| Max. back-up fuse acc. to IEC 61643-1 | For stub wiring (gL/gG) | – | 125 A | 100 A | 125 A | – | 100 A | |
| | For V wiring (gL/gG) | – | – | 80 A | – | – | – | |
| Short-circuit withstand current | With max. back-up fuse | 25 kA | | | | | | |
| Environmental conditions | | | | | | | | |
| Degree of protection | IP20, with connected conductors | | | | | | | |
| Temperature range | –40 ... +80 °C | | | | | | | |

Accessories

Replacement plugs



| Protection paths | Basic units | Article No. |
|------------------|---|-------------|
| N-PE | 5SD7481-0, 5SD7464-0 and 5SD7464-1 | 5SD7488-0 |
| L-N and L-PEN | 5SD7461-0, 5SD7461-1, 5SD7463-0, 5SD7463-1, 5SD7464-0 and 5SD7464-1 | 5SD7468-1 |
| L-PEN | 5SD7481-1 and 5SD7483-5 | 5SD7488-2 |
| | 5SD7481-1 | 5SD7488-4 |

5SD74 surge arresters, type 2

Narrow design

| | For TN-S and TT systems | |
|---|-------------------------|--------------|
| Protection paths | L-N and N-PE | L-N and N-PE |
| Rated voltage U_n | 240 V AC | 240/415 V AC |
| Rated arrester voltage U_C ; L-N, N-PE, L-(PE)N | 350 V AC | 350 V AC |
| Rated arrester voltage U_C ; N-PE | 264 V AC | 264 V AC |



| Circuit | Mounting width | Rated discharge surge current I_n (8/20 μ s) | | | |
|---------------------------------|------------------|---|-------|-----------|-----------|
| | | L-N or L-(PE)N | N-PE | | |
| With remote signaling | | | | | |
| 1 + 1 | 24 mm (1 1/3 MW) | 20 kA | 20 kA | 5SD7422-1 | – |
| 3 + 1 | 48 mm (2 2/3 MW) | 20 kA | 20 kA | – | 5SD7424-1 |
| | | 20 kA | 40 kA | – | – |
| Without remote signaling | | | | | |
| 1 + 1 | 24 mm (1 1/3 MW) | 20 kA | 20 kA | 5SD7422-0 | – |
| 3 + 1 | 48 mm (2 2/3 MW) | 20 kA | 20 kA | – | 5SD7424-0 |
| | | 20 kA | 40 kA | – | – |

Further technical specifications

5SD7422-0
5SD7422-15SD7424-0
5SD7424-1

| | | |
|---|---------------------------------|----------------------------|
| Standards | | |
| Standards | IEC 61643-11, EN 61643-11 | |
| Approvals | KEMA/UL/cUL | |
| Voltage | | |
| Protection level U_p | L-N and L-PEN | ≤ 1.50 kV |
| | L-PE | ≤ 1.90 kV |
| | N-PE | ≤ 1.50 kV |
| Current | | |
| Rated discharge surge current I_n (8/20 μ s) | L-N and L-PEN | 20 kA |
| | N-PE | 20 kA |
| Max. discharge surge current I_{max} (8/20 μ s) | L-N | 40 kA |
| | N-PE | 40 kA |
| Function | | |
| Response time t_A | L-N and L-PEN | ≤ 25 ns |
| | L-N and N-PE | ≤ 100 ns |
| Connections | | |
| Conductor cross-section | Finely stranded | 2.5 ... 16 mm ² |
| | Solid | 2.5 ... 25 mm ² |
| Protection devices | | |
| Max. back-up fuse acc. to IEC 61643-1 | For stub wiring (gL/gG) | 315 A |
| | For V wiring (gL/gG) | 63 A |
| Short-circuit withstand current | With max. back-up fuse | 25 kA |
| Environmental conditions | | |
| Degree of protection | IP20, with connected conductors | |
| Temperature range | –40 ... +80 °C | |

Accessories

Replacement plugs



| Protection paths | Basic units | Article No. |
|------------------|---|-------------|
| N-PE | 5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1 | 5SD7428-0 |
| L-N and L-PEN | 5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1 | 5SD7428-1 |

5SD74 surge arresters, type 3

| | For TN-S and TT systems | | |
|------------------------------|---|---|---|
| Protection paths | L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE | L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE | L-N, L-PE, N-PE, (L+) – (L–) and (L+/L–) – PE |
| Rated voltage U_n | 24 V AC | 120 V AC | 230 V AC |
| Rated arrester voltage U_c | 34 V AC | 150 V AC | 264 V AC |



| Circuit | Mounting width | | | |
|-----------------------|----------------|----------------------|----------------------|----------------------|
| With remote signaling | | | | |
| 1 + 0 | 1 MW | 5SD7432-5 new | 5SD7432-6 new | 5SD7432-7 new |

Further technical specifications

| | 5SD7432-5 | 5SD7432-6 | 5SD7432-7 | |
|---|---------------------------------|-----------------------------|-------------|---------------|
| Standards | | | | |
| Standards | IEC 61643-11; EN 61643-11 | | | |
| Approvals | KEMA/UL/cUL | | | |
| Voltage | | | | |
| Protection level U_p | L-N, L-PE and N-PE | ≤200/≤600 V | ≤750/≤850 V | ≤1250/≤1400 V |
| Current | | | | |
| Rated load current I_L (at 30 °C) | 26 A | | | |
| Rated discharge surge current I_n (8/20 μs) | 1 kA | 5 kA | | |
| Combined surge $U_{open collector}$ | 2 kV | 6 kV | | |
| Function | | | | |
| Response time t_A | ≤100 ns | | | |
| Connections | | | | |
| Conductor cross-section | Finely stranded | 0.2 ... 2.5 mm ² | | |
| | Solid | 0.2 ... 4 mm ² | | |
| Protection devices | | | | |
| Required back-up fuse, max. | (gG/B/C) | 25 A | | |
| Environmental conditions | | | | |
| Degree of protection | IP20, with connected conductors | | | |
| Temperature range | –40 ... +80 °C | | | |
| Display | | | | |
| Visual function/fault indication | Yes | | | |

Mandatory basic protection in electrical installations

Overcurrents in electrical installations occur as a result of excessive load or short-circuits and can cause serious accidents, fires and financial damage. Appropriate protection devices have therefore been mandatory ever since electricity was first harnessed to power equipment. As a pioneer in fuse systems, we offer you the complete range of devices for the protection of cables as well as electrical devices and installations in the event of overloads and short-circuits.

Fuses are capable of safely switching off circuits as soon as an overload or short-circuit occurs. This prevents damage to electrical equipment or extended power failures. Specific variants of fuse systems are used for different applications.

Among other things, our fuses are used for protecting cables and lines, switching devices and semiconductors as well as in photovoltaics and wind power.



Fuse Systems



| | |
|--|------|
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| MINIZED switch disconnectors | 7/13 |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about fuse systems, please visit our website
www.siemens.com/fuses

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technology primer – Fuse systems (109482303)

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products
www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- Siemens fuse systems
bit.ly/2kWaepz

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Fuse systems sie.ag/2kW3pnU

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

Configurators

Exactly the right SITOR semiconductor fuse for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SITOR semiconductor fuse at

www.siemens.com/lowvoltage/sitor-configurator

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Fuse systems
(45314810)
- Planning manual – Planning with SIVACON 8PS
(109478425)

Technical overview – Fuse systems



The fast way to get you to our online services

This page provides you with comprehensive information and links on fuse systems

www.siemens.com/lowvoltage/product-support (109769085)

System overview

Fuse holders and bases

IEC fuse holders and bases



MINIZED



NEOZED



DIAZED



Bus-mounting bases for busbars



Photovoltaic cumulative fuses

IEC/UL fuse holders and bases



LV HRC fuses



Cylindrical fuses



SITOR semiconductor fuses (LV HRC design)



SITOR semiconductor fuses (cylindrical fuse design)



Photovoltaic cylindrical fuses

UL fuse holders and bases

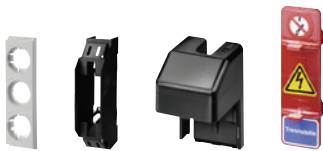


Class CC



Class J

Accessories for fuse holders and bases



Covers



Screw caps



Adapter sleeves



Isolating blades



LV HRC signal detectors

Busbars and accessories



Can be cut



Terminals



Touch protection



End caps

Note:

You will find a detailed range of accessories with the basic units.

Fuse links

IEC fuse links



NEOZED



DIAZED



LV HRC



Cylindrical fuses



SILIZED



Photovoltaic cumulative fuses



Photovoltaic cylindrical fuses



IEC/UL fuse links



SITOR semiconductor fuses (LV HRC design)



SITOR semiconductor fuses (cylindrical fuse design)



UL fuse links



Class CC

Note:

You will find a detailed range of accessories with the basic units.

Overview of fuse systems according to IEC

Fuse links



| Standard | IEC | IEC |
|----------------------|----------------|----------------|
| Rated current I_n | 2 ... 100 A | 2 ... 100 A |
| Voltage U_n (AC) | 400 V | 500 ... 750 V |
| Voltage U_n (DC) | 250 V | 500 ... 750 V |
| Design / application | NEOZED/SILIZED | DIAZED/SILIZED |

Selection according to protection task

| | | |
|-----------------------------------|---|---|
| Cables and lines, general (gG) | ■ | ■ |
| Motor protection (aM) | - | - |
| Power semiconductor (aR, gR, gS) | ■ | ■ |
| Photovoltaic protection (gPV) | - | - |
| Battery protection (aR, gR, gBAT) | - | - |

| Type | 5SE | 5SA, 5SB, 5SC, 5SD |
|------------------|--------------------------------|--------------------------------|
| More information | See page 7/32 See page 7/34 | See page 7/33 See page 7/34 |

Fuse holders and bases

For protection tasks

Overview, see page 7/8

Fuse bases



| Floor fixation | Standard mounting rail | Busbar | Type | Standard | More information | | |
|----------------|------------------------|--------|-----------|----------|------------------|---|---|
| - | ■ | ■ | 5SG | IEC | See page 7/12 | ■ | - |
| ■ | ■ | ■ | 5SF | IEC | See page 7/18 | - | ■ |
| ■ | - | - | 3NH | IEC/UL | See page 7/22 | - | - |
| ■ | - | - | 3NH7 | IEC | See page 7/22 | - | - |
| - | ■ | ■ | 3NW7 | IEC/UL | See page 7/24 | - | - |
| - | ■ | - | 3NC.. | IEC/UL | See page 7/25 | - | - |
| - | ■ | - | 3NW7...-4 | IEC | See page 7/26 | - | - |

For protection and switching tasks

System overview, see page 8/80, 8/116

Fuse switch disconnectors



| Floor fixation | Standard mounting rail | Busbar | Type | Standard | More information | | |
|----------------|------------------------|--------|------|----------|------------------|---|---|
| ■ | ■ | ■ | 3NP1 | IEC/UL | See page 8/80 | - | - |
| ■ | - | ■ | 3NP5 | IEC/UL | See page 8/94 | - | - |
| - | ■ | ■ | 5SG7 | IEC | See page 8/144 | ■ | - |
| - | - | ■ | 3NJ4 | IEC | See page 8/98 | - | - |

Switch disconnecter with fuse



| | | | | | | | |
|---|---|---|------------|--------|----------------|---|---|
| ■ | ■ | - | 3KF LV HRC | IEC | See page 8/116 | - | - |
| ■ | ■ | - | 3KF SITOP | IEC/UL | See page 8/116 | - | - |
| - | - | ■ | 3NJ62 | IEC | See page 8/132 | - | - |

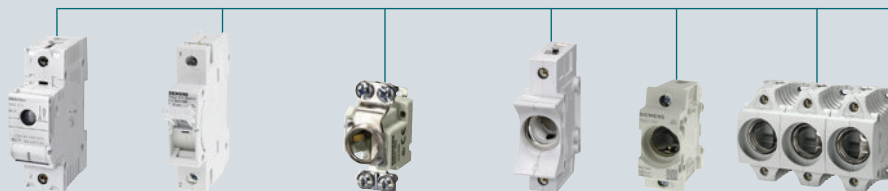
Overview, see page 7/30



| IEC | IEC | IEC/UL | IEC/UL | IEC | UL |
|---|---|---|--|--|---|
| 2 ... 1250 A | 0.5 ... 100 A | 2 ... 2400 A | 1 ... 125 A | 2 ... 630 A | 0.5 ... 30 A |
| 400 ... 690 V | 400 ... 690 V | 500 ... 2500 V | 600 ... 1500 V | – | 600 V |
| 250 ... 400 V | – | 440 ... 3000 V | 250 ... 1000 V | 1000 ... 1500 V | 150 ... 300 V |
| LV HRC | Cylindrical | SITOR LV HRC | SITOR cylindrical | Photovoltaic | Class CC |
| ■ | ■ | – | – | – | ■ |
| ■ | ■ | – | – | – | ■ |
| – | – | ■ | ■ | – | – |
| – | – | – | – | ■ | – |
| – | – | ■ | ■ | – | – |
| 3NA, 3ND See page 7/36 | 3NW6, 3NW8 See page 7/41 | 3NE, 3NC See page 7/42 | 3NC10 See page 7/59 | 3NE..., 3NW... See page 7/35 See page 7/64 | 3NW1, 3NW2, 3NW3 See page 7/65 |

Overview of fuse holders, bases and D0 fuse switching devices

IEC



MINIZED switch disconnectors MINIZED fuse switch disconnectors NEOZED fuse bases NEOZED comfort bases NEOZED fuse bases DIAZED fuse bases

| Basic data | | | MINIZED switch disconnectors | | MINIZED fuse switch disconnectors | | NEOZED fuse bases | | | NEOZED comfort bases | NEOZED fuse bases | DIAZED fuse bases | |
|---|----------------------|-------|--|--|--|--|--------------------------------|----------------|-------|--|--|---|----------------|
| Size | | | D02 | | D01 | | D01 | D02 | D03 | D01, D02 | | D01, D02 | NDz, DII, DIII |
| Variant | | | 5SG71 | | 5SG76 | | 5SG15 5SG55 | 5SG16 5SG56 | 5SG18 | 5SG1301 5SG1701 5SG5301 5SG5701 | 5SG1302 5SG1702 5SG5302 5SG5702 | 5SF | |
| Standards | | | DIN VDE 0638; DIN EN 60947-3 (VDE 0660-107) EC/EN 60947-3 | | DIN VDE 0638; DIN EN 60947-3 (VDE 0660-107) EC/EN 60947-3 | | IEC 60269-3; DIN VDE 0636-3 | | | IEC 60269-3; DIN VDE 0636-3 | IEC 60269-3; DIN VDE 0636-3 | IEC 60269-3; DIN VDE 0635; DIN VDE 0636-3; CEE 16 | |
| Approvals | | | - | | - | | - | | | - | - | - | |
| Approvals | | | - | | - | | - | | | - | - | - | |
| Technical specifications AC | | | MINIZED switch disconnectors | | MINIZED fuse switch disconnectors | | NEOZED fuse bases | | | NEOZED comfort bases | NEOZED fuse bases | DIAZED fuse bases | |
| Rated voltage | U_n | V AC | 230/400, 240/415 | | 230/400, 240/415 | | 400 | 400 | 400 | - | - | 500, 690, 750 | |
| | U_n acc. to UL | V AC | - | | - | | - | - | - | - | - | - | |
| Rated insulation voltage | | V AC | 500 | | 690 | | - | - | - | - | - | - | |
| Short-circuit strength | | kA AC | 50 | | 50 | | 50 | 50 | 50 | 50 | 50 | 50 | |
| Rated current | I_n | A | 63 | | 16 | | 16 | 63 | 100 | 16/63 | 16/63 | 2 ... 100 | |
| | I_n acc. to UL/CSA | A | - | | - | | - | - | - | - | - | - | |
| Rated impulse withstand voltage | | kV AC | 6 | | 6 | | - | - | - | - | - | - | |
| Utilization category | Acc. to VDE 0638 | A | AC-22 | | AC-22 | | - | - | - | - | - | - | |
| | Acc. to EN 60947-3 | A | AC-22 B, AC-23 B (35A) | | AC-22 A | | - | - | - | - | - | - | |
| Technical specifications DC | | | MINIZED switch disconnectors | | MINIZED fuse switch disconnectors | | NEOZED fuse bases | | | NEOZED comfort bases | NEOZED fuse bases | DIAZED fuse bases | |
| Rated voltage | U_n | V DC | 65 (1P), 130 (2P) | | 48 (1P), 110 (2P) | | 250 | 250 | 250 | - | - | 500, 600, 750 | |
| | U_n acc. to UL | V DC | - | | - | | - | - | - | - | - | - | |
| Short-circuit strength | | kA DC | - | | - | | 8 | 8 | 8 | 8 | 8 | - | |
| Utilization category | Acc. to EN 60947-3 | A | DC-22 B | | - | | - | - | - | - | - | - | |
| Further technical specifications | | | MINIZED switch disconnectors | | MINIZED fuse switch disconnectors | | NEOZED fuse bases | | | NEOZED comfort bases | NEOZED fuse bases | DIAZED fuse bases | |
| Overvoltage category | | | IV | | IV | | - | | | - | - | III; II (DIAZED fuse bases made of molded plastic for use at 690 V AC / 600 V DC) | |
| Max. power dissipation of fuse links (conductor cross-section used) | | W | - | | - | | - | | | - | - | - | |
| Pollution degree | | | - | | - | | - | | | - | - | - | |
| Further information | | | MINIZED switch disconnectors | | MINIZED fuse switch disconnectors | | NEOZED fuse bases | | | NEOZED comfort bases | NEOZED fuse bases | DIAZED fuse bases | |
| Catalog LV 10 | | | See page 7/13 | | See page 7/12 | | See page 7/16 | | | - | - | See page 7/18 | |

¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).

IEC

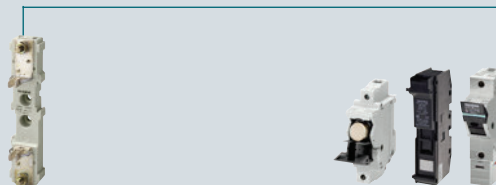


| Cylindrical fuse holders | | LV HRC fuse bases, LV HRC bus-mounting bases | | | | | | Photovoltaic cumulative fuse bases | | | | | | NEOZED bus-mounting bases for 5SG 60 mm compact busbar systems | NEOZED SR60 bus-mounting bases | DIAZED SR60 bus-mounting bases | | |
|--|----------|--|-------------------|-------------------|-------------------|-------------------|------|--------------------------------------|------|------|------|------|------|--|-----------------------------------|-----------------------------------|-----------------------------------|---|
| 8×32 mm | 22×58 mm | 000/00 | 0 | 1 | 2 | 3 | 4 | 1 | 1L | 2L | 3L | 1XL | 2XL | D02 | D02 | DII | DII | |
| 3NW73.. | 3NW72.. | - | - | - | - | - | - | 3NH7...-4 | | | | | | 5SG6208 | 5SG6202 5SG6206 5SG6207 | 5SF6014 5SF6015 5SF6020 | 5SF6214 5SF6215 5SF6220 | |
| IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1 | | IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection) | | | | | | IEC 60269, IEC 60269-2, IEC 60947 | | | | | | IEC 60269-3, DIN VDE 0636-3 | IEC 60269-3, DIN VDE 0636-3 | IEC 60269-3, DIN VDE 0636-3 | IEC 60269-3, DIN VDE 0636-3 | |
| UL File number E171267 | | KEMA; UL file number E171267-IZLT2 | | | | | | - | - | - | - | - | - | - | - | - | - | - |
| 400 | 690 | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 | - | - | - | - | - | - | 400 | 400 | 500 | 690 | |
| - | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20 | 100 | 160 | 160 | 250 | 400 | 630 | 1250 | 160 | 250 | 400 | 630 | 250 | 400 | 63 | 63 | 25 | 63 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| AC-20B (switching without load) | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 250 | 440 | 440 | 440 | 440 | 440 | 1000 | 1000 | 1000 | 1000 | 1500 | 1500 | 250 | 250 | - | 600 | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 25 | 25 | 25 | 25 | 25 | 25 | - | - | - | - | - | - | 8 | 8 | 8 | 8 | |
| DC-20B (switching without load) | | - | - | - | - | - | - | DC-20B (switching without load) | | | | | | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| - | - | 12 | 25 | 32 | 45 | 60 | 90 | 40 | 90 | 110 | 130 | 90 | 110 | - | - | - | - | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| See page 7/22 | | See page 7/22 | | | | | | See page 7/21 | | | | | | See page 7/20 | | | | |

7

Overview of fuse holders, bases and D0 fuse switching devices

IEC / UL



| | | | LV HRC fuse bases, LV HRC bus-mounting bases | | | | | | Fuse holders for SITOR semiconductor fuses (cylindrical fuse design) | | | | |
|--|-----------------------|-------|--|-------------------|-------------------|-------------------|-------------------|------|---|---|---|-----------------------------------|---|
| Basic data | | | 000/00 | 0 | 1 | 2 | 3 | 4 | 10 × 38 mm | 14 × 51 mm | 22 × 58 mm | 22 × 127 mm | |
| Size | | | 000/00 | 0 | 1 | 2 | 3 | 4 | 10 × 38 mm | 14 × 51 mm | 22 × 58 mm | 22 × 127 mm | |
| Variant | | | – | – | – | – | – | – | 3NC10 | 3NC14 | 3NC22 | 3NC23 | |
| Standards | | | IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection) | | | | | | UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3 | UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3 | UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3 | IEC 60269-2, IEC 60947-3 | |
| Approvals | | | KEMA, UL file number E171267-IZLT2 | | | | | | UL 4248-1; UL File number E171267; CSA C22.2 No. 39-M | | | | – |
| Approvals | | | – | | | | | | ® | ® | ® | – | |
| Technical specifications AC | | | | | | | | | | | | | |
| Rated voltage | U_n | V AC | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 | 690 | 690 | 690 | 1500 | |
| | U_n acc. to UL | V AC | – | – | – | – | – | – | 600 | 600 | 600 | – | |
| Rated insulation voltage | | V AC | – | – | – | – | – | – | – | – | – | – | |
| Short-circuit strength | | kA AC | – | – | – | – | – | – | 50 | 50 (100 at 400 V) | 50 (100 at 500 V) | 30 | |
| Rated current | I_n | A | 160 | 160 | 250 | 400 | 630 | 1250 | 32 | 50 | 100 | 63 | |
| | I_n acc. to UL/CSA | A | – | – | – | – | – | – | 30 | 50 (UL), 40 (CSA) | 80 | – | |
| Rated impulse withstand voltage | | kV AC | – | – | – | – | – | – | 6 | 6 | 6 | – | |
| Utilization category | Acc. to VDE 0638 | A | – | – | – | – | – | – | – | – | – | – | |
| | Acc. to EN 60947-3 | A | – | – | – | – | – | – | AC-22B (400 V) | AC-22B (400 V) | AC-20B (690 V) | AC-20B | |
| Technical specifications DC | | | | | | | | | | | | | |
| Rated voltage | U_n | V DC | 250 | 440 | 440 | 440 | 440 | 440 | 800 | | | 1000 | |
| | U_n acc. to UL | V DC | – | – | – | – | – | – | – | – | – | – | |
| Short-circuit strength | | kA DC | 25 | 25 | 25 | 25 | 25 | 25 | – | – | – | 50 | |
| Utilization category | Acc. to EN 60947-3 | A | – | – | – | – | – | – | – | – | – | DC-20B | |
| Further technical specifications | | | | | | | | | | | | | |
| Overvoltage category | | | – | – | – | – | – | – | – | – | – | – | |
| Max. power dissipation of fuse links (conductor cross-section used) | W | | 12 | 25 | 32 | 45 | 60 | 90 | 3 (6 mm ²), 4.3 (10 mm ²) | 5 (10 mm ²), 6.5 (25 mm ²) | 9.5 (35 mm ²), 11 (50 mm ²) | 15 (1 ... 50 mm ²) | |
| Pollution degree | | | – | – | – | – | – | – | 2 | 2 | 2 | – | |
| Further information | | | | | | | | | | | | | |
| Catalog LV 10 | | | See page 7/22 | | | | | | See page 7/60 | | | | |

¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).

IEC / UL

UL



Cylindrical fuse holders

Photovoltaic cylindrical fuse holders






Class CC fuse holders

Class J fuse holders






| Cylindrical fuse holders | | Photovoltaic cylindrical fuse holders | | Class CC fuse holders | Class J fuse holders | | | | |
|--|------------|--|--|--|---|--------|-------|-------|--------------------------------|
| 10 x 38 mm | 14 x 51 mm | 10 x 38 mm | 10 x 85 mm | – | – | | | | |
| 3NW70.. 3NW703.-1 | 3NW71.. | 3NW70...4 | 3NW76...4 | 3NW75.3-0HG 3NW753.-1HG | 3NW75.3-3HG, 3NW75.3-5HG, 3NW75.3-6HG, 3NW75.3-7HG, 3NW75.3-8HG, 3NW7431-6HG, 3NW7431-7HG, 3NW7431-8HG | | | | |
| IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1 UL File number E171267 | | IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18 | IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18 | UL 4248-1; CSA C22.2 | UL 4248-1 Ed.1, UL 4248-8 Ed.1 | | | | |
| UL File number E171267 | | UL File number E469670, CCC) (variants without signal detector) | UL File number E355487) | UL 4248-1; UL File number E171267; CSA C22.2 | UL File number E171267; CSA File number 233322; Class number 6225-01 | | | | |
| UL, CE | UL | – | – | – | UL, CE | UL, CE | cULus | cULus | UL, CE Busbar device: cULus |
| 690 | 690 | – | – | – | – | – | – | – | – |
| 600 | 700 | – | – | 600 | 600 | 600 | 600 | 600 | 600 |
| – | – | – | – | – | – | – | – | – | – |
| 100 | 100 | – | – | 200 | 200 | 200 | 200 | 200 | 200 |
| 32 | 50 | 30 | 32 | 30 | 30 | 60 | 100 | 200 | 400 |
| – | – | – | – | – | – | – | – | – | – |
| – | – | 6 | – | 6 | No information as the devices are only tested and certified to UL/CSA and not to IEC | | | | |
| – | – | – | – | – | – | | | | |
| AC-20B (switching without load) | | – | – | AC-20B (switching without load) | AC-20B (switching without load) | | | | |
| – | – | 1000 | 1500 | 300 | – | – | – | – | – |
| – | – | – | – | – | 600 | 600 | 600 | 600 | 600 |
| – | – | – | – | – | – | – | – | – | – |
| DC-20B (switching without load) | | – | – | DC-20B (switching without load) | DC-20B (switching without load) | | | | |
| – | – | II | – | II | No information as the devices are only tested and certified to UL/CSA and not to IEC | | | | |
| – | – | 4 | 6 | 3 (6 mm ²), 4.3 (10 mm ²) | – | | | | |
| – | – | 2 | – | 2 | No information as the devices are only tested and certified to UL/CSA and not to IEC | | | | |
| See page 7/24 | | See page 7/26 | | See page 7/28 | See page 7/27 | | | | |

7

MINIZED fuse switch disconnectors




| | | Number of poles | | | | |
|------|---------------|---|---|---|---|---|
| | | 1P | 1P+N | 2P | 3P | 3P+N |
| | |  |  |  |  |  |
| Size | Rated current | | | | | |
| D01 | 2 ... 6 A | 5SG7611-0KK06 | – | – | 5SG7631-0KK06 | – |
| | 10 A | 5SG7611-0KK10 | – | – | 5SG7631-0KK10 | – |
| | 16 A | 5SG7611-0KK16 | 5SG7651-0KK16 | 5SG7621-0KK16 | 5SG7631-0KK16 | 5SG7661-0KK16 |

MINIZED switch disconnectors

| | | Number of poles | | | | |
|------|---------------|---|---|---|---|---|
| | | 1P | 1P+N | 2P | 3P | 3P+N |
| | |  |  |  |  |  |
| Size | Rated current | | | | | |
| D02 | 25 A | – | – | – | 5SG7133-8BA25 ¹⁾ | – |
| | 35 A | – | – | – | 5SG7133-8BA35 ¹⁾ | – |
| | 50 A | – | – | – | 5SG7133-8BA50 ¹⁾ | – |
| | 63 A | 5SG7113 | 5SG7153 | 5SG7123 | 5SG7133 | 5SG7163 |

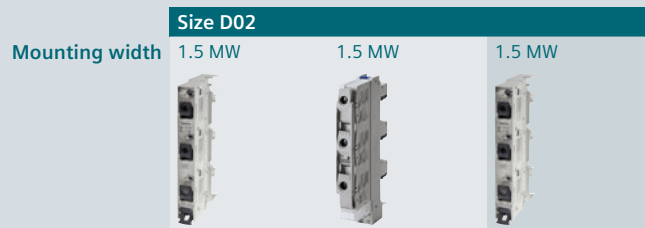
¹⁾ Versions for Austria only, with permanently fitted adapter sleeves and incl. fuse link

Accessories

| Reducers | | |
|---|--|---------------------------------|
|  | Use For D01 fuse links in MINIZED D02 switch disconnectors | Article No. 5SH5527 |
| Auxiliary switches (AS) | | |
|  | Version 1 NO contact + 1 NC contact | Article No. 5ST3010 |
| | 2 NO contacts | 5ST3011 |
| | 2 NC contacts | 5ST3012 |
| Auxiliary switches (AS) with TEST button | | |
|  | Version 1 NO contact + 1 NC contact | Article No. 5ST3010-2 |
| | 2 NO contacts | 5ST3011-2 |
| | 2 NC contacts | 5ST3012-2 |

NEOZED bus-mounting switch disconnectors

For 8US 60 mm busbar systems



| For flat copper profiles | Rated current I_e | | Rated voltage U_e | | | Standard | Without LED signal detector | | With LED signal detector |
|---------------------------------|---------------------|--------|---------------------|----------|--------|----------|-----------------------------|-----------------------|--------------------------|
| | IEC | UL 508 | IEC AC | IEC DC | UL 508 | | | | |
| Box terminals 5 mm and 10 mm | 63 A | – | 400 V AC | – | – | IEC | 5SG7234-1 ²⁾ | – | 5SG7234-2 ²⁾ |
| | | | 400 V AC | 110 V DC | – | IEC | – | 5SG7230 ¹⁾ | – |

¹⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5526. Please observe EN 60439-1, Table 1.

²⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5533. Please observe EN 60439-1, Table 1.

Suitable accessories

Auxiliary switches



- For signaling the switching state for bus-mounting switch disconnectors

| Contacts | Mounting width | Article No. | Article No. | Article No. |
|--------------|----------------|-------------|-------------|-------------|
| 1 CO contact | 0.5 MW | – | 5SH5525 | – |

Lateral modules



- For greater heat dissipation for loads from 35 A

| Mounting width | Article No. | Article No. | Article No. |
|----------------|-------------|-------------|-------------|
| 0.5 MW | 5SH5533 | 5SH5526 | 5SH5533 |






Reducers



| Use | Article No. | Article No. | Article No. |
|---|-------------|-------------|-------------|
| For NEOZED D01 fuse links in SR60 bus-mounting switch disconnectors | 5SH5527 | 5SH5527 | 5SH5527 |

See SITOR semiconductor fuse links (cylindrical fuse design) [from page 13/1](#)

NEOZED fuse bases


| | Number of poles | Comfort bases made of molded plastic | | Fuse bases made of molded plastic | | With LED signal detector |
|------|-----------------|---|---|---|---|---|
| | | 1P | 3P | Without LED signal detector | With LED signal detector | |
| | |  |  |  |  |  |
| Size | Rated current | | | | | |
| D01 | 16 A | 5SG1301 | 5SG5301 | 5SG1302 | 5SG5302 | 5SG1302-1 |
| D02 | 63 A | 5SG1701 | 5SG5701 | 5SG1702 | 5SG5702 | 5SG1702-1 |
| D03 | 100 A | – | – | – | – | – |








Accessories

NEOZED screw caps

| | Material | Version | Fuse size | Article No. |
|--|----------------|-----------------------------------|-----------|-------------|
|  | Molded plastic | With inspection hole | D01 | 5SH4116 |
| | | | D02 | 5SH4163 |
| | Ceramic | Without inspection hole, sealable | D01 | 5SH4316 |
| | | | D02 | 5SH4363 |
| | | | D03 | 5SH4100 |
| | | | D01 | 5SH4317 |
| | | With inspection hole | D02 | 5SH4362 |

NEOZED adapter sleeves

| | Fuse size | Rated current | Color | Article No. |
|---|-----------|---|---------|-------------|
|  | D01 | 2 A | Pink | 5SH5002 |
| | | 4 A | Brown | 5SH5004 |
| | | 6 A | Green | 5SH5006 |
| | | 10/13 A | Red | 5SH5010 |
| | | D01 fuse links in D02 base and MINIZED D02 switch disconnectors | 2 A | Pink |
| | 4 A | Brown | 5SH5404 | |
| | 6 A | Green | 5SH5406 | |
| | 10/13 A | Red | 5SH5410 | |
| | 16 A | Gray | 5SH5416 | |
| D02 | | 20 A | Blue | 5SH5020 |
| | | 25 A | Yellow | 5SH5025 |
| | | 32 A | Violet | 5SH5032 |
| | | 35/40 A | Black | 5SH5035 |
| | | 50 A | White | 5SH5050 |
| | | 80 A | Silver | 5SH5080 |
| D03 | | 80 A | Silver | 5SH5080 |

| Fuse bases made of ceramic | | | | | | | |
|--|---|---|---|--|---|---|--|
| With clamp-type terminal | | | With saddle terminal | | With screw head contact | | |
| 3P | 1P | 3P | 1P | 3P | 1P | 3P | |
|  |  |  |  |  |  |  | |
| 5SG5302-1 | 5SG1553 | 5SG5553 | – | – | – | – | |
| 5SG5702-1 | – | – | 5SG1653 | 5SG5653 | 5SG1693 | 5SG5693 | |
| – | – | – | – | – | 5SG1812 | – | |

NEOZED covers



Fuse size
D03

Article No.
5SH5233

NEOZED adapter sleeve fitters



Article No.
5SH5100





NEOZED retaining springs



Use
For D01 fuse links in D02 screw caps, 2 ... 16 A



Article No.
5SH5400

DIAZED fuse bases

| Number of poles | Fuse bases made of molded plastic | | Fuse bases made of ceramic | |
|-----------------|---|---|---|---|
| | With box terminal | | With clamp-type terminal | With saddle terminal |
| | 1P | 3P | 1P | 1P |
| |  |  |  |  |
| Size | Rated current | U _n AC/DC 500/500 V | U _n AC/DC 500/500 V | U _n AC/DC 500/500 V |
| DII | 25 A | 5SF1060 | 5SF5068 | 5SF1005 |
| DIII | 63 A | 5SF1260 ¹⁾ | 5SF5268 ¹⁾ | – |
| | | | | 5SF1205 ¹⁾ |

¹⁾ Can also be used for 690 V AC / 600 V DC.

Accessories

| DIAZED screw caps | | | | | |
|---|-------------------------------|--------------------------------|-------------|-----------------------|-------------|
| | Material | Version | Fuse size | Rated voltage AC / DC | Article No. |
|  | Molded plastic | With inspection hole | NDz | 500/500 V | 5SH1112 |
| | | | DII | 500/500 V | 5SH1221 |
| | | | DIII | 500/500 V | 5SH1231 |
| | Ceramic | Without inspection hole | DII | 500/500 V | 5SH112 |
| | | | DIII | 500/500 V | 5SH113 |
| | | With inspection hole, sealable | DII | 500/500 V | 5SH122 |
| | | | DIII | 500/500 V | 5SH123 |
| | | Extended version | DIII | 690/600 V | 5SH1170 |
| | With fine thread | DIII | 750/750 V | 5SH1161 | |
| | DIAZED screw adapters | | | | |
| | • Also for 5SF230 up to 750 V | | | | |
| | Fuse size | Rated current | Article No. | | |
|  | DII | 2 A | 5SH310 | | |
| | | 4 A | 5SH311 | | |
| | | 6 A | 5SH312 | | |
| | | 10 A | 5SH313 | | |
| | | 16 A | 5SH314 | | |
| | | 20 A | 5SH315 | | |
| | | 25 A | 5SH316 | | |
| DIII | 32 A | 5SH327 | | | |
| | 35 A | 5SH317 | | | |
| | 50 A | 5SH318 | | | |
| | 63 A | 5SH320 | | | |

With screw head contact

1P


 U_n AC/DC
750/750 V

5SF4230

DIAZED adapter sleeves for screw caps



Use

For DII fuse links in DIII base

Article No.

5SH302

DIAZED adapter sleeve fitters



Use

For DII/DIII screw adapters

Article No.

5SH3703

DIAZED cover rings



Fuse size

Material

Article No.

DII

Molded plastic

5SH3401

DIII

Molded plastic

5SH3411

DIAZED caps



Fuse size

Material

Article No.

DII

Molded plastic

5SH202

DIII

Molded plastic

5SH222

Bus-mounting bases



For 8US busbar systems

| | | | | Compact busbar systems | | 60 mm busbar systems | | |
|------|----------------|----------------|-------------------------|------------------------|----------|-----------------------|----------|-----------------------|
| | | | | NEOZED design | | DIAZED design | | |
| | | | | NEOZED design | | DIAZED design | | |
| | | | | 3P | | 3P | | |
| | | | | 3P | | 3P | | |
| | | | | 3P | | 3P | | |
| Size | I _n | Mounting width | U _n AC/DC | With touch protection | Standard | With touch protection | Standard | With touch protection |
| D02 | 63 A | 1.5 MW | 500/500 V | – | 5SG6202 | 5SG6206 | – | – |
| | | 2 MW | | 5SG6208 | – | 5SG6207 | – | – |
| DII | 25 A | | 500/500 V | – | – | – | 5SF6015 | 5SF6020 |
| DIII | 63 A | | 500/500 V ¹⁾ | – | – | – | 5SF6215 | 5SF6220 |

¹⁾ Can also be used for 690 V AC / 600 V DC.

7

Accessories

| Covers for standard version for 60 mm busbar systems | | | | | |
|---|--------|-----------|--------------|-------------------------------|-------------|
| | Design | Fuse size | Version | Mounting width (1 MW = 18 mm) | Article No. |
|  | NEOZED | D02 | Standard | 1.5 MW | 5SH5241 |
| | | | Extra wide | 2 MW | 5SH5242 |
| | | | Double width | 3 MW | 5SH5243 |
|  | DIAZED | DII | | | 5SH2042 |
| | | | DIII | | 5SH2242 |

See SITOR semiconductor fuse links (cylindrical fuse design) [from page 13/1](#)

Photovoltaic cumulative fuse bases



| Size | Rated current | Rated voltage DC | | | |
|------|---------------|------------------|---------|-----------|---------------|
| 1 | 250 A | 1000 V | 3NH3230 | – | 3NH7262-4KK01 |
| 1L | 250 A | 1000 V | – | 3NH7260-4 | – |
| 2L | 400 A | 1000 V | – | 3NH7360-4 | 3NH7360-4KK01 |
| 3L | 630 A | 1000/1500 V | – | 3NH7460-4 | – |
| 1XL | 250 A | 1500 V | – | 3NH7261-4 | – |
| 2XL | 400 A | 1500 V | – | 3NH7361-4 | – |

Accessories

Terminal covers for PV fuse bases with swiveling mechanism



| Fuse link size | Article No. |
|----------------|-------------|
| 1, 1L, 1XL | 3NX3121 |
| 2L, 2XL | 3NX3122 |
| 3L | 3NX3123 |

LV HRC fuse bases



| Size | Rated current | Flat terminals | Plug-in terminal | Saddle-type terminal | Double busbar terminal |
|-----------------|---------------|----------------|------------------|----------------------|------------------------|
| 000/00 | 160 A | 3NH3030 | 3NH3031 | 3NH3032 | – |
| 0 ¹⁾ | 160 A | 3NH3120 | – | – | – |
| 1 | 250 A | 3NH3230 | – | – | 3NH3220 |
| 2 | 400 A | 3NH3330 | – | – | 3NH3320 |
| 3 | 630 A | 3NH3430 | – | – | 3NH3420 |
| 4 | 1250 A | 3NH3530 | – | – | – |
| 4a | 1250 A | – | – | – | – |

¹⁾ No longer to be used for new installations!

7

Accessories

LV HRC protective covers for LV HRC fuse bases



- As touch protection for contact pieces

| Size | Article No. |
|--------|-------------|
| 000/00 | 3NX3105 |
| 0 | 3NX3114 |
| 1 | 3NX3106 |
| 2 | 3NX3107 |
| 3 | 3NX3108 |

LV HRC partitions for LV HRC fuse bases



- As intermediate phase and end barrier

| Size | Type | Article No. |
|--------|-------------|-------------|
| 000/00 | 3NH30/3NH40 | 3NX2023 |
| 0 | 3NH31 | 3NX2030 |
| 1 | 3NH32 | 3NX2024 |
| 2 | 3NH33 | 3NX2025 |
| 3 | 3NH34 | 3NX2026 |

LV HRC protective covers



| Size | Number of poles | Article No. |
|--------|-----------------|-------------|
| 000/00 | 1P and 3P | 3NX3115 |

Grip lug cover for plugging into the LV HRC protective cover



| Size | Use | Article No. |
|------|--|-------------|
| | When using fuse links with non-insulated grip lugs | 3NX3116 |

| 3P | | Molded plastic | With swivel device |
|--|---|---|---|
|  |  |  |  |
| Flat terminals | Saddle-type terminal | Flat terminals | Flat terminals |
| 3NH4030 | 3NH4032 | 3NH3051 | – |
| – | – | – | – |
| 3NH4230 | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | 3NH7520 |

Covers for LV HRC fuse bases



- Red color
- With inscription "Isolating point"
- Observe width 60 mm of the blank insert when using for size 1

| Size | Article No. |
|---------|-------------|
| 000/00 | 3NX1003 |
| 1, 2, 3 | 3NX1004 |

Fuse pullers for LV HRC fuse links



| Size | Version | Article No. |
|-----------|----------------|-------------|
| 000 ... 3 | Without sleeve | 3NX1013 |
| | With sleeve | 3NX1014 |

Isolating blades for LV HRC fuse bases and fuse switch disconnectors



| Version | Contacts | Size | Article No. |
|------------------------------|---------------|--------|-------------|
| With insulated grip lugs | Silver-plated | 000/00 | 3NG1002 |
| | | 0 | 3NG1102 |
| | | 1 | 3NG1202 |
| | | 2 | 3NG1302 |
| | | 3 | 3NG1402 |
| With non-insulated grip lugs | Tin-coated | 4 | 3NG1503 |
| | Nickel-plated | 4a | 3NG1505 |

Cylindrical fuse holders

Number of poles

1P



1P+N



2P



3P



3P+N



| Size | Rated current | Standard | Bus-mounting fuse holders | Standard | Standard | Standard | Compact | Standard |
|------------------------------------|---------------|----------|---------------------------|----------|----------|----------|-----------|----------|
| Without LED signal detector | | | | | | | | |
| 8 mm × 32 mm | 20 A | 3NW7313 | – | 3NW7353 | 3NW7323 | 3NW7333 | – | 3NW7363 |
| 10 mm × 38 mm | 30 A | – | 3NW7431 | – | – | – | – | – |
| | 32 A | 3NW7013 | – | 3NW7053 | 3NW7023 | 3NW7033 | 3NW7033-1 | 3NW7063 |
| 14 mm × 51 mm | 50 A | 3NW7111 | – | 3NW7151 | 3NW7121 | 3NW7131 | – | 3NW7161 |
| 22 mm × 58 mm | 100 A | 3NW7211 | – | 3NW7251 | 3NW7221 | 3NW7231 | – | 3NW7261 |
| With LED signal detector | | | | | | | | |
| 8 mm × 32 mm | 20 A | 3NW7314 | – | 3NW7354 | 3NW7324 | 3NW7334 | – | 3NW7364 |
| 10 mm × 38 mm | 32 A | 3NW7014 | – | 3NW7054 | 3NW7024 | 3NW7034 | 3NW7034-1 | 3NW7064 |
| 14 mm × 51 mm | 50 A | 3NW7112 | – | 3NW7152 | 3NW7122 | 3NW7132 | – | 3NW7162 |
| 22 mm × 58 mm | 100 A | 3NW7212 | – | 3NW7252 | 3NW7222 | 3NW7232 | – | 3NW7262 |

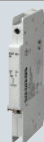
Note:

Semiconductor fuses heat up substantially more than standard fuses of operational classes gG and aM.

We therefore recommend only using SITOR cylindrical fuses in the intended SITOR fuse holders and complying with the maximum permissible current-carrying capacity.

Accessories

Auxiliary switches for cylindrical fuse holders, standard



- For retrofitting using the factory-fitted brackets

| Display | Fuse link size | Article No. |
|--|--------------------------------|-------------|
| Disconnection of fuse link, for striker fuse links | 14 mm × 51 mm | 3NW7901 |
| | 22 mm × 58 mm | 3NW7902 |
| Switching state of fuse holder | 8 mm × 32 mm and 10 mm × 38 mm | 3NW7903 |

Auxiliary switches for cylindrical fuse holders, compact



| Rated operational current I_e /AC-12 | Rated operational voltage U_e | Contacts | Article No. |
|--|---------------------------------|-----------------------------|-------------|
| 5 A | Max. 250 V | 1 NO contact + 1 NC contact | 3NW7903-1 |

Busbars for cylindrical fuse holders, compact



| Number of poles | I_n | Pin spacing | Length | Article No. |
|-----------------|-------|-------------|--------|-------------|
| 2 × 3P | 63 A | 15 mm | 45 mm | 5ST2601 |
| 3 × 3P | 63 A | 15 mm | 90 mm | 5ST2602 |
| 4 × 3P | 63 A | 15 mm | 135 mm | 5ST2603 |
| 5 × 3P | 63 A | 15 mm | 180 mm | 5ST2604 |

Terminals for cylindrical fuse holders, compact

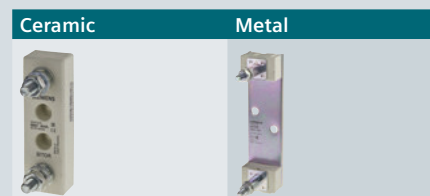


| Version | Article No. |
|---|-------------|
| For conductor cross-sections 2.5 mm ² ... 35 mm ² | 5ST2600 |

See SITOR semiconductor fuse links (cylindrical fuse design) [from page 13/1](#)

Fuse holders and bases for SITOR semiconductor fuses

For SITOR fuses with bolt-on links or blade contacts



| Rated current | Rated voltage AC/DC | For fuse series | Mounting dimensions | | |
|---------------|---------------------|---|---------------------|---------|---------|
| 50 A | 690 V | 3NC18 | 75 mm | 3NH5723 | – |
| 315 A | 690 V | 3NE87, 3NC26 | 80 mm | 3NH5023 | – |
| 400 A | 690 V | 3NE80...3MK | 80 mm | 3NH5323 | – |
| 630 A | 1800 V | 3NE53, 3NE56 | 170 mm | – | 3NH5473 |
| 1250 A | 1250 V | 3NC24, 3NC33...1U, 3NC34...1U, 3NC84, 3NE1...3, NE32, 3NE33 | 110 mm | – | 3NH5463 |
| 1600 A | 690 V | 3NE82...3MK | 80 mm | – | 3NH5423 |

7






For cylindrical fuses

| Number of poles | Cylindrical fuse holders, can be used as fuse switch disconnectors | | | Cylindrical fuse bases | | |
|-----------------|--|------------------|-----------|------------------------|-------------|----|
| | 1P | 2P | 3P | 1P | 2P | 3P |
| | | | | | | |
| Size | Rated voltage AC / DC | Signaling switch | | | | |
| | | Without | With | | | |
| 10 mm × 38 mm | 600/– V | – | – | – | – | – |
| | 690/800 V | 3NC1091 | – | 3NC1092 | 3NC1093 | – |
| 14 mm × 51 mm | 690/800 V | 3NC1491 | 3NC1491-5 | 3NC1492 | 3NC1493 | – |
| 22 mm × 58 mm | 690/800 V | 3NC2291 | 3NC2291-5 | 3NC2292 | 3NC2293 | – |
| 22 mm × 127 mm | 1500/1000 V | 3NC2391-0MK | – | 3NC2392-0MK | 3NC2393-0MK | – |








Accessories

| Fuse tongs | | |
|------------|---|-------------|
| | For sizes | Article No. |
| | 10 mm × 38 mm 14 mm × 51 mm 22 mm × 58 mm | 3NC1000 |







Photovoltaic cylindrical fuse holders

| Number of poles | Without signal detector | | | With signal detector | |
|-----------------|---|---|---|---|---|
| | 1P | 1P | 2P | 1P | 2P |
| |  |  |  |  |  |
| Size | Rated current | U_n DC 1000 V | U_n DC 1500 V | U_n DC 1000 V | U_n DC 1000 V |
| 10 mm × 38 mm | 30 A | 3NW7013-4 | – | 3NW7023-4 | 3NW7014-4 |
| 10 mm × 85 mm | 32 A | – | 3NW7613-4 | – | – |

Class J fuse holders

| | For mounting on DIN mounting rail | | | For screwing onto mounting plate | Bus-mounting fuse holders for 8US 60 mm busbar systems | | | |
|-------------|-----------------------------------|---|---|---|---|---|---|---|
| | Number of poles | 1P | 2P | 3P | 3P | 3P | 3P | |
| | |  |  |  |  |  |  |  |
| Size | Rated current | Rated voltage | | | | | | |
| 21 x 57 mm | 30 A | 600 V | 3NW7511-3HG | 3NW7521-3HG | 3NW7531-3HG | – | – | – |
| 27 x 60 mm | 60 A | 600 V | 3NW7511-5HG | 3NW7521-5HG | 3NW7531-5HG | – | – | – |
| 28 x 118 mm | 100 A | 600 V | – | – | – | 3NW7531-6HG | 3NW7431-6HG | – |
| 41 x 146 mm | 200 A | 600 V | – | – | – | 3NW7531-7HG | – | 3NW7431-7HG |
| 54 x 181 mm | 400 A | 600 V | – | – | – | 3NW7531-8HG | – | 3NW7431-8HG |

Class CC fuse holders

| | | Standard | | | Compact | | Bus-mounting fuse holders for 8US 60 mm busbar systems |
|-----------------|---------------|---|---|---|---|---|---|
| Number of poles | | 1P | 2P | 3P | 3P | | 1P |
| | |  |  |  |  |  |  |
| Rated current | Rated voltage | Signal detector | | | | | |
| 30 A | 600 V | without | with | | | | |
| | | 3NW7513-0HG | 3NW7523-0HG | 3NW7533-0HG | 3NW7533-1HG | 3NW7534-1HG | 3NW7431-0HG |

See SITOR semiconductor fuse links (cylindrical fuse design) [from page 13/1](#)

Overview

IEC



NEOZED fuse links

DIAZED fuse links

SILIZED fuse links

LV HRC fuse links

Basic data

| Design | NEOZED | DIAZED | NEOZED, DIAZED | LV HRC | |
|-------------------|---------------|----------------|--------------------------|---------------------------|------------|
| Size | D01, D02, D03 | NDz, DII, DIII | D01, D02, DII, DIII, DIV | 000/00, 0, 1, 2, 3, 4, 4a | |
| Operational class | gG | gG | gR | gG, aM | |
| Rated current | A | 2 ... 100 | 2 ... 100 | 10 ... 100 | 2 ... 1250 |

Standards

| Standard | IEC 60269-3 DIN VDE 0636-3 | IEC 60269-3 DIN VDE 0635 DIN VDE 0636-3 CEE 16 | IEC 60269-3 / -4 DIN VDE 0636-3 EN 60269-4 (VDE 0636-4) | IEC 60269-1 / -2 EN 60269-1 DIN VDE 0636 |
|-----------|-------------------------------|---|--|--|
| Approvals | – | – | – | CSA 22.2 |

Technical specifications AC

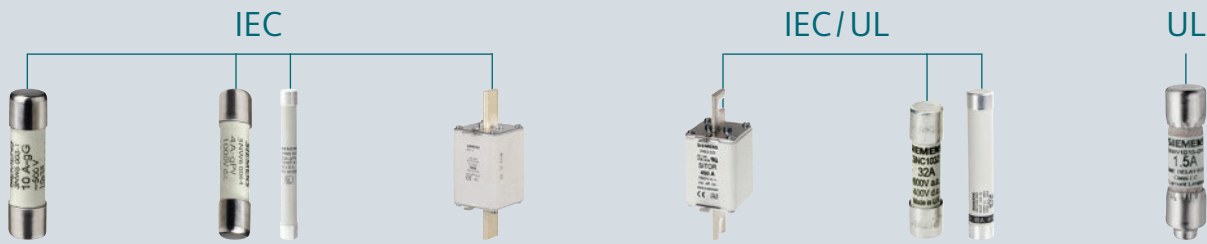
| Rated voltage AC | V | 400 | 500 ... 750 | 400 ... 500 | 400 ... 690 600 (CSA) |
|----------------------------|----|-----|-------------|-------------|--------------------------|
| Rated breaking capacity AC | kA | 50 | 50 | 50 | 120 |

Technical specifications DC

| Rated voltage DC | V | 250 | 500 ... 750 | 250 ... 500 | 250 ... 440 |
|----------------------------|----|-----|-------------|-------------|-------------|
| Rated breaking capacity DC | kA | 8 | 8 | 8 | 25 |

Further information

| | | | | |
|---------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
| Catalog LV 10 | See page 7/33 | See page 7/33 | See page 7/34 | Page 7/36 |
|---------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|



| Cylindrical fuse links | Photovoltaic cylindrical fuse links | Photovoltaic cumulative fuse links | SITOR LV HRC semiconductor fuse links | SITOR cylindrical semiconductor fuse links | Class CC fuse links |
|--|--|--------------------------------------|---------------------------------------|---|------------------------|
| Cylindrical 8 × 32 mm, 10 × 38 mm, 14 × 51 mm, 22 × 58 mm | Cylindrical 10 × 38 mm, 10 × 85 mm | LV HRC 1, 1L, 2L, 3L, 1XL, 2XL | LV HRC 000, 00, 1, 2, 3 | Cylindrical 10 × 38 mm, 14 × 51 mm, 22 × 58 mm | Cylindrical – |
| gG, aM 0.5 ... 100 | gPV 2 ... 20 | gPV 63 ... 630 | gS, gR, aR 6 ... 2400 | gS, gR, aR 1 ... 125 | – 0.6 ... 30 |
| IEC 60269-1/-2 NF C 60-200 NF C 63-210/-211 NBN C 63269-2 CEI 32-4/-12 UL 4248-1; CSA | IEC 60269-6 | IEC 60269-6 | IEC 60269-4 | IEC 60269-2 | – |
| 400 ... 690 400 ... 600 (UL/CSA) 20 ... 120 | – | – | UL 4248-1 UL 4248-13 | UL 4248-1 UL 4248-13 | UL 4248-1 CSA C22.2 |
| – | – | – | 500 ... 2500 | 690 ... 1500 600 ... 1500 (UL/CSA) | 600 |
| – | – | – | 100 ... 150 | 100 | 200 |
| – | 1000 ... 1500 | 1000 ... 1500 | 400 ... 1500 | 250 ... 1000 | 150 ... 300 |
| – | 30 | 30 | – | – | – |
| Page 7/41 | Page 7/64 | Page 7/35 | Page 7/42 | Page 7/59 | Page 7/65 |





7

NEOZED fuse links

Operational class gG

| | | | Size D01 | Size D02 | Size D03 |
|-------|----------------------|---------------|---|---|---|
| | | |  |  |  |
| I_n | Identification color | Contacts | U_n AC/DC 400/250 V | U_n AC/DC 400/250 V | U_n AC/DC 400/250 V |
| 2 A | Pink | | 5SE2302 | – | – |
| 4 A | Brown | | 5SE2304 | – | – |
| 6 A | Green | | 5SE2306 | – | – |
| 10 A | Red | | 5SE2310 | – | – |
| 13 A | Black | | 5SE2013-2A | – | – |
| 16 A | Gray | | 5SE2316 | – | – |
| 20 A | Blue | Tin-coated | – | 5SE2320 | – |
| 25 A | Yellow | Tin-coated | – | 5SE2325 | – |
| 32 A | Violet | Tin-coated | – | 5SE2332 | – |
| 35 A | Black | Tin-coated | – | 5SE2335 | – |
| 40 A | Black | Silver-plated | – | 5SE2340 | – |
| 50 A | White | Silver-plated | – | 5SE2350 | – |
| 63 A | Copper | Silver-plated | – | 5SE2363 | – |
| 80 A | Blue | | – | – | 5SE2280 |
| 100 A | Red | | – | – | 5SE2300 |






DIAZED fuse links

| | | Size DII E27 | | Size DIII ¹⁾ E33 | | | Size DIV R 1¼" | Size TNDz E16 | |
|-------------------|----------------------|---|--------------|---|--------------------|--------|---|---|--------------|
| Operational class | | gG | | gG | | | quick | gG | |
| | |  | |  | | |  |  | |
| I _n | Identification color | U _n AC/DC 500/440 V 500/500 V | | U _n AC/DC 500/440 V 690/600 V 750/750 V | | | U _n AC/DC 500/400 V | U _n AC/DC 500/440 V 500/500 V | |
| 2 A | Pink | – | 5SB211 | – | 5SD8002 | 5SD601 | – | – | 5SA211 |
| 4 A | Brown | – | 5SB221 | – | 5SD8004 | 5SD602 | – | – | 5SA221 |
| 6 A | Green | – | 5SB231 | – | 5SD8006 | 5SD603 | – | – | 5SA231 |
| 10 A | Red | – | 5SB251 | – | 5SD8010 | 5SD604 | – | – | 5SA251 |
| 16 A | Gray | 5SB2611 | new – | – | 5SD8016 | 5SD605 | – | 5SA2611 | new – |
| 20 A | Blue | 5SB2711 | new – | – | 5SD8020 | 5SD606 | – | 5SA2711 | new – |
| 25 A | Yellow | 5SB2811 | new – | – | 5SD8025 | 5SD607 | – | 5SA2811 | new – |
| 32 A | Violet | – | – | 5SB4011 | new – | – | – | – | – |
| 35 A | Black | – | – | 5SB4111 | new 5SD8035 | 5SD608 | – | – | – |
| 50 A | White | – | – | 5SB4211 | new 5SD8050 | 5SD610 | – | – | – |
| 63 A | Copper | – | – | 5SB4311 | new 5SD8063 | 5SD611 | – | – | – |
| 80 A | Silver | – | – | – | – | – | 5SC211 | – | – |
| 100 A | Red | – | – | – | – | – | 5SC221 | – | – |

¹⁾ For 2 A ... 25 A use screw adaptor DII







SILIZED fuse links

Operational class gR

| | | | NEOZED design | | DIAZED design | | |
|-------|---------------------------|------------------|---|---|--|---|---|
| | | | Size D01 | Size D02 | Size DII | Size DIII | Size DIV |
| | | |  |  |  |  |  |
| I_n | Operating value I^2t | Power loss P_v | U_n AC/DC 400/250 V | U_n AC/DC 400/250 V | U_n AC/DC 500/500 V | U_n AC/DC 500/500 V | U_n AC/DC 500/500 V |
| 10 A | 73 A ² s | 6.9 W | 5SE1310 | – | – | – | – |
| 16 A | 60 A ² s | 12.1 W | – | – | 5SD420 | – | – |
| | 120 A ² s | 6.2 W | 5SE1316 | – | – | – | – |
| 20 A | 139 A ² s | 12.3 W | – | – | 5SD430 | – | – |
| | 190 A ² s | 8.1 W | – | 5SE1320 | – | – | – |
| 25 A | 205 A ² s | 12.5 W | – | – | 5SD440 | – | – |
| | 215 A ² s | 8.2 W | – | 5SE1325 | – | – | – |
| 30 A | 310 A ² s | 13.5 W | – | – | 5SD480 | – | – |
| 35 A | 470 A ² s | 16.7 W | – | 5SE1335 | – | – | – |
| | 539 A ² s | 14.8 W | – | – | – | 5SD450 | – |
| 50 A | 1250 A ² s | 18.5 W | – | – | – | 5SD460 | – |
| | 1960 A ² s | 12.0 W | – | 5SE1350 | – | – | – |
| 63 A | 1890 A ² s | 28 W | – | – | – | 5SD470 | – |
| | 4230 A ² s | 15.5 W | – | 5SE1363 | – | – | – |
| 80 A | 4200 A ² s | 34.3 W | – | – | – | – | 5SD510 |
| 100 A | 8450 A ² s | 41.5 W | – | – | – | – | 5SD520 |

Photovoltaic cumulative fuse links

Operational class gPV

| | | Size 1 | Size 1L | Size 2L | Size 3L | Size 1XL | Size 2XL |
|----------|------------------|---|---|---|--|---|---|
| | |  |  |  |  |  |  |
| I_n DC | Power loss P_v | U_n DC 1000 V | U_n DC 1000 V | U_n DC 1000 V | U_n DC 1000 V | U_n DC 1500 V | U_n DC 1500 V |
| 63 A | 19 W | 3NE1218-4 | – | – | – | – | – |
| | 20 W | – | – | – | – | 3NE1218-5E | – |
| 80 A | 20 W | 3NE1220-4 | – | – | – | – | – |
| | 25 W | – | – | – | – | 3NE1220-5E | – |
| 100 A | 24 W | 3NE1221-4 | – | – | – | – | – |
| | 30 W | – | – | – | – | 3NE1221-5E | – |
| 125 A | 26 W | 3NE1222-4 | – | – | – | – | – |
| | 29 W | – | – | – | – | 3NE1222-5E | – |
| 160 A | 32 W | 3NE1224-4 | – | – | – | – | – |
| | 34 W | – | – | – | – | 3NE1224-5E | – |
| 200 A | 41 W | – | – | – | – | 3NE1225-5E | – |
| | 51 W | – | 3NE1225-4D | – | – | – | – |
| 250 A | 53 W | – | – | – | – | – | 3NE1327-5E |
| | 54 W | – | 3NE1227-4D | – | – | – | – |
| 315 A | 63 W | – | – | – | – | – | 3NE1330-5E |
| | 73 W | – | – | 3NE1330-4D | – | – | – |
| 400 A | 82 W | – | – | 3NE1332-4D | – | – | – |
| 500 A | 100 W | – | – | – | 3NE1434-4E | – | – |
| 630 A | 110 W | – | – | – | 3NE1436-4E | – | – |




LV HRC fuse links

Operational class gG, with combination alarm



| I _n | U _n AC/DC | | | U _n AC/DC | | | U _n AC/DC | | |
|--------------------------------|----------------------|-----------|--------------------------|----------------------|-----------|--------------------------|----------------------|-----------|--------------------------|
| | 400/- V | 500/250 V | 690 ¹⁾ /250 V | 400/- V | 500/250 V | 690 ¹⁾ /250 V | 400/- V | 500/440 V | 690 ¹⁾ /440 V |
| Insulated grip lugs | | | | | | | | | |
| 2 A | - | 3NA6802 | 3NA6802-6 | - | - | - | - | - | - |
| 4 A | - | 3NA6804 | 3NA6804-6 | - | - | - | - | - | - |
| 6 A | - | 3NA6801 | 3NA6801-6 | - | - | - | - | - | - |
| 10 A | 3NA6803-4 | 3NA6803 | 3NA6803-6 | - | - | - | - | - | - |
| 16 A | 3NA6805-4 | 3NA6805 | 3NA6805-6 | - | - | - | - | 3NA6105 | - |
| 20 A | 3NA6807-4 | 3NA6807 | 3NA6807-6 | - | - | - | - | 3NA6107 | - |
| 25 A | 3NA6810-4 | 3NA6810 | 3NA6810-6 | - | - | - | - | 3NA6110 | - |
| 32 A | 3NA6812-4 | 3NA6812 | 3NA6812-6 | - | - | - | - | - | - |
| 35 A | 3NA6814-4 | 3NA6814 | 3NA6814-6 | - | - | - | 3NA6114-4 | 3NA6114 | - |
| 40 A | 3NA6817-4 | 3NA6817 | 3NA6817-6KJ | - | - | 3NA6817-6 | 3NA6117-4 | 3NA6117 | - |
| 50 A | 3NA6820-4 | 3NA6820 | 3NA6820-6KJ | - | - | 3NA6820-6 | 3NA6120-4 | 3NA6120 | 3NA6120-6 |
| 63 A | 3NA6822-4 | 3NA6822 | - | - | - | 3NA6822-6 | 3NA6122-4 | 3NA6122 | 3NA6122-6 |
| 80 A | 3NA6824-4 | 3NA6824 | - | 3NA6824-4KK | 3NA6824-7 | 3NA6824-6 | 3NA6124-4 | 3NA6124 | 3NA6124-6 |
| 100 A | 3NA6830-4 | 3NA6830 | - | 3NA6830-4KK | 3NA6830-7 | 3NA6830-6 | 3NA6130-4 | 3NA6130 | 3NA6130-6 |
| 125 A | - | - | - | 3NA6832-4 | 3NA6832 | - | 3NA6132-4 | 3NA6132 | 3NA6132-6 |
| 160 A | - | - | - | 3NA6836-4 | 3NA6836 | - | 3NA6136-4 | 3NA6136 | 3NA6136-6 |
| 200 A | - | - | - | - | - | - | - | - | - |
| 224 A | - | - | - | - | - | - | - | - | - |
| 250 A | - | - | - | - | - | - | - | - | - |
| 300 A | - | - | - | - | - | - | - | - | - |
| 315 A | - | - | - | - | - | - | - | - | - |
| 355 A | - | - | - | - | - | - | - | - | - |
| 400 A | - | - | - | - | - | - | - | - | - |
| Non-insulated grip lugs | | | | | | | | | |
| 2 A | - | 3NA7802 | 3NA7802-6 | - | - | - | - | - | - |
| 4 A | - | 3NA7804 | 3NA7804-6 | - | - | - | - | - | - |
| 6 A | - | 3NA7801 | 3NA7801-6 | - | - | - | - | - | - |
| 10 A | - | 3NA7803 | 3NA7803-6 | - | - | - | - | - | - |
| 16 A | - | 3NA7805 | 3NA7805-6 | - | - | - | - | 3NA7105 | - |
| 20 A | - | 3NA7807 | 3NA7807-6 | - | - | - | - | 3NA7107 | - |
| 25 A | - | 3NA7810 | 3NA7810-6 | - | - | - | - | 3NA7110 | - |
| 32 A | - | 3NA7812 | 3NA7812-6 | - | - | - | - | - | - |
| 35 A | - | 3NA7814 | 3NA7814-6 | - | - | - | - | 3NA7114 | - |
| 40 A | - | 3NA7817 | 3NA7817-6KJ | - | - | 3NA7817-6 | - | 3NA7117 | - |
| 50 A | - | 3NA7820 | 3NA7820-6KJ | - | - | 3NA7820-6 | - | 3NA7120 | 3NA7120-6 |
| 63 A | - | 3NA7822 | - | - | - | 3NA7822-6 | - | 3NA7122 | 3NA7122-6 |
| 80 A | - | 3NA7824 | - | - | 3NA7824-7 | 3NA7824-6 | - | 3NA7124 | 3NA7124-6 |
| 100 A | - | 3NA7830 | - | - | 3NA7830-7 | 3NA7830-6 | - | 3NA7130 | 3NA7130-6 |
| 125 A | - | - | - | - | 3NA7832 | - | - | 3NA7132 | 3NA7132-6 |
| 160 A | - | - | - | - | 3NA7836 | - | - | 3NA7136 | 3NA7136-6 |
| 200 A | - | - | - | - | - | - | - | - | - |
| 224 A | - | - | - | - | - | - | - | - | - |
| 250 A | - | - | - | - | - | - | - | - | - |
| 300 A | - | - | - | - | - | - | - | - | - |
| 315 A | - | - | - | - | - | - | - | - | - |
| 355 A | - | - | - | - | - | - | - | - | - |
| 400 A | - | - | - | - | - | - | - | - | - |

¹⁾ Manufacturer's confirmation for 690 V +10% rated voltage available on request.





| Size 1 47.2 mm | | | Size 2 47.2 mm | | | Size 2 57.8 mm | | |
|--|-----------|--------------------------|---|-----------|--------------------------|---|-----------|--------------------------|
|  | | |  | | |  | | |
| U _n AC/DC 400/- V | 500/440 V | 690 ¹⁾ /440 V | U _n AC/DC 400/- V | 500/440 V | 690 ¹⁾ /440 V | U _n AC/DC 400/- V | 500/440 V | 690 ¹⁾ /440 V |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | 3NA6214 | - | - | - | - |
| - | - | - | - | - | - | - | - | - |
| - | - | - | 3NA6220-4 | 3NA6220 | - | - | - | - |
| - | - | - | 3NA6222-4 | 3NA6222 | - | - | - | - |
| - | - | - | 3NA6224-4 | 3NA6224 | 3NA6224-6 | - | - | - |
| - | - | - | 3NA6230-4 | 3NA6230 | 3NA6230-6 | - | - | - |
| - | - | - | 3NA6232-4 | 3NA6232 | 3NA6232-6 | - | - | - |
| - | - | - | 3NA6236-4 | 3NA6236 | 3NA6236-6 | - | - | - |
| 3NA6140-4 | 3NA6140 | 3NA6140-6 | 3NA6240-4 | 3NA6240 | 3NA6240-6 | - | - | - |
| 3NA6142-4 | 3NA6142 | - | 3NA6242-4 | 3NA6242 | - | - | - | 3NA6242-6 |
| 3NA6144-4 | 3NA6144 | - | 3NA6244-4 | 3NA6244 | - | - | - | 3NA6244-6 |
| - | - | - | - | - | - | 3NA6250-4 | 3NA6250 | 3NA6250-6 |
| - | - | - | - | - | - | 3NA6252-4 | 3NA6252 | 3NA6252-6 |
| - | - | - | - | - | - | 3NA6254-4 | 3NA6254 | - |
| - | - | - | - | - | - | 3NA6260-4 | 3NA6260 | - |
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| - | - | - | - | 3NA7214 | - | - | - | - |
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| - | - | - | - | 3NA7220 | - | - | - | - |
| - | - | - | - | 3NA7222 | - | - | - | - |
| - | - | - | - | 3NA7224 | 3NA7224-6 | - | - | - |
| - | - | - | - | 3NA7230 | 3NA7230-6 | - | - | - |
| - | - | - | - | 3NA7232 | 3NA7232-6 | - | - | - |
| - | - | - | - | 3NA7236 | 3NA7236-6 | - | - | - |
| - | 3NA7140 | 3NA7140-6 | - | 3NA7240 | 3NA7240-6 | - | - | - |
| - | 3NA7142 | - | - | 3NA7242 | - | - | - | 3NA7242-6 |
| - | 3NA7144 | - | - | 3NA7244 | - | - | - | 3NA7244-6 |
| - | - | - | - | - | - | - | - | 3NA7250-6 |
| - | - | - | - | - | - | - | 3NA7252 | 3NA7252-6 |
| - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 3NA7260 | - |

LV HRC fuse links

Operational class gG, with front indicator









| | Size 000 | | | Size 00 | | Size 0 | Size 1 | | | |
|--------------------------------|---|---------|-------------|---|-----------|--------------------------|---|-----------|---------|---|
| Mounting width | 21 mm | | | 30 mm | | 30 mm | 30 mm | | | 47.2 mm |
| I_n | U_n AC/DC 400/250 V 500/250 V 690 ¹⁾ /250 V | | | U_n AC/DC 500/250 V 690 ¹⁾ /250 V | | U_n AC/DC 500/440 V | U_n AC/DC 500/440 V 690 ¹⁾ /440 V | | | U_n AC/DC 500/440 V 690 ¹⁾ /440 V |
| Non-insulated grip lugs | | | | | | | | | | |
| 2 A | – | 3NA3802 | 3NA3802-6 | – | – | – | – | – | – | – |
| 4 A | – | 3NA3804 | 3NA3804-6 | – | – | – | – | – | – | – |
| 6 A | – | 3NA3801 | 3NA3801-6 | – | – | 3NA3001 | – | – | – | – |
| 10 A | – | 3NA3803 | 3NA3803-6 | – | – | 3NA3003 | – | – | – | – |
| 16 A | – | 3NA3805 | 3NA3805-6 | – | – | 3NA3005 | 3NA3105 | – | – | – |
| 20 A | – | 3NA3807 | 3NA3807-6 | – | – | 3NA3007 | 3NA3107 | – | – | – |
| 25 A | – | 3NA3810 | 3NA3810-6 | – | – | 3NA3010 | 3NA3110 | – | – | – |
| 32 A | – | 3NA3812 | 3NA3812-6 | – | – | 3NA3012 | – | – | – | – |
| 35 A | – | 3NA3814 | 3NA3814-6 | 3NA3814-7 | – | 3NA3014 | 3NA3114 | – | – | – |
| 40 A | – | 3NA3817 | 3NA3817-6KJ | – | 3NA3817-6 | 3NA3017 | 3NA3117 | – | – | – |
| 50 A | – | 3NA3820 | 3NA3820-6KJ | 3NA3820-7 | 3NA3820-6 | 3NA3020 | 3NA3120 | 3NA3120-6 | – | – |
| 63 A | – | 3NA3822 | – | 3NA3822-7 | 3NA3822-6 | 3NA3022 | 3NA3122 | 3NA3122-6 | – | – |
| 80 A | – | 3NA3824 | – | 3NA3824-7 | 3NA3824-6 | 3NA3024 | 3NA3124 | 3NA3124-6 | – | – |
| 100 A | – | 3NA3830 | – | 3NA3830-7 | 3NA3830-6 | 3NA3030 | 3NA3130 | 3NA3130-6 | – | – |
| 125 A | 3NA3832-8 | – | – | 3NA3832 | – | 3NA3032 | 3NA3132 | 3NA3132-6 | – | – |
| 160 A | 3NA3836-8 | – | – | 3NA3836 | – | 3NA3036 | 3NA3136 | 3NA3136-6 | – | – |
| 200 A | – | – | – | – | – | – | – | – | 3NA3140 | 3NA3140-6 |
| 224 A | – | – | – | – | – | – | – | – | 3NA3142 | – |
| 250 A | – | – | – | – | – | – | – | – | 3NA3144 | 3NA3144-6 |
| 300 A | – | – | – | – | – | – | – | – | – | – |
| 315 A | – | – | – | – | – | – | – | – | – | – |
| 355 A | – | – | – | – | – | – | – | – | – | – |
| 400 A | – | – | – | – | – | – | – | – | – | – |
| 425 A | – | – | – | – | – | – | – | – | – | – |
| 500 A | – | – | – | – | – | – | – | – | – | – |
| 630 A | – | – | – | – | – | – | – | – | – | – |
| 800 A | – | – | – | – | – | – | – | – | – | – |
| 1000 A | – | – | – | – | – | – | – | – | – | – |
| 1250 A | – | – | – | – | – | – | – | – | – | – |

¹⁾ Manufacturer's confirmation for 690 V +10% rated voltage available on request.

| Size 2 | | Size 3 | | Size 4 (IEC design) | | Size 4a | |
|--|--------------------------|---|--------------------------|---|--------------------------|---|-------------|
| 47.2 mm | | 57.8 mm | | 57.8 mm | | 101.8 mm | |
|  | |  | |  | |  | |
| U_n AC/DC | U_n AC/DC | U_n AC/DC | U_n AC/DC | U_n AC/DC | U_n AC/DC | U_n AC/DC | U_n AC/DC |
| 500/440 V | 690 ¹⁾ /440 V | 500/440 V | 690 ¹⁾ /440 V | 500/440 V | 690 ¹⁾ /440 V | 500/440 V | 500/440 V |
| - | - | - | - | - | - | - | - |
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| 3NA3214 | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 3NA3220 | - | - | - | - | - | - | - |
| 3NA3222 | - | - | - | - | - | - | - |
| 3NA3224 | 3NA3224-6 | - | - | - | - | - | - |
| 3NA3230 | 3NA3230-6 | - | - | - | - | - | - |
| 3NA3232 | 3NA3232-6 | - | - | - | - | - | - |
| 3NA3236 | 3NA3236-6 | - | - | - | - | - | - |
| 3NA3240 | 3NA3240-6 | - | - | 3NA3340 | - | - | - |
| 3NA3242 | - | - | 3NA3242-6 | 3NA3342 | - | - | - |
| 3NA3244 | - | - | 3NA3244-6 | 3NA3344 | 3NA3344-6 | - | - |
| - | - | 3NA3250 | 3NA3250-6 | 3NA3350 | - | - | - |
| - | - | 3NA3252 | 3NA3252-6 | 3NA3352 | 3NA3352-6 | - | - |
| - | - | 3NA3254 | - | 3NA3354 | - | 3NA3354-6 | - |
| - | - | 3NA3260 | - | 3NA3360 | - | 3NA3360-6 | - |
| - | - | - | - | - | - | 3NA3362 | 3NA3362-6 |
| - | - | - | - | - | - | 3NA3365 | 3NA3365-6 |
| - | - | - | - | - | - | 3NA3372 | - |
| - | - | - | - | - | - | - | 3NA3472 |
| - | - | - | - | - | - | - | 3NA3475 |
| - | - | - | - | - | - | - | 3NA3480 |
| - | - | - | - | - | - | - | 3NA3482 |
| - | - | - | - | - | - | - | 3NA3665 |
| - | - | - | - | - | - | - | 3NA3672 |
| - | - | - | - | - | - | - | 3NA3675 |
| - | - | - | - | - | - | - | 3NA3680 |
| - | - | - | - | - | - | - | 3NA3682 |

LV HRC fuse links

Operational class aM, with front indicator

| | Size 000 | Size 00 | Size 1 | Size 2 | Size 2 | Size 3 | Size 3 | |
|--------------------------------|---|---|---|---|---|--|---|---|
| Mounting width | 21 mm | 30 mm | 30 mm | 47.2 mm | 47.2 mm | 57.8 mm | 57.8 mm | 71.2 mm |
| |  |  |  |  |  |  |  |  |
| I_n | U_n AC/DC 500/- V | U_n AC/DC 500/- V | U_n AC/DC 690/- V | U_n AC/DC 690/- V | U_n AC/DC 690/- V | U_n AC/DC 690/- V | U_n AC/DC 690/- V | U_n AC/DC 690/- V |
| Non-insulated grip lugs | | | | | | | | |
| 6 A | 3ND1801 | - | - | - | - | - | - | - |
| 10 A | 3ND1803 | - | - | - | - | - | - | - |
| 16 A | 3ND1805 | - | - | - | - | - | - | - |
| 20 A | 3ND1807 | - | - | - | - | - | - | - |
| 25 A | 3ND1810 | - | - | - | - | - | - | - |
| 32 A | 3ND1812 | - | - | - | - | - | - | - |
| 35 A | 3ND1814 | - | - | - | - | - | - | - |
| 40 A | 3ND1817 | - | - | - | - | - | - | - |
| 50 A | 3ND1820 | - | - | - | - | - | - | - |
| 63 A | 3ND1822 | - | 3ND2122 | - | - | - | - | - |
| 80 A | 3ND1824 | - | 3ND2124 | - | - | - | - | - |
| 100 A | 3ND1830-8 | 3ND1830 | 3ND2130 | - | - | - | - | - |
| 125 A | - | 3ND1832 | - | 3ND2132 | 3ND2232 | - | - | - |
| 160 A | - | 3ND1836 | - | 3ND2136 | 3ND2236 | - | - | - |
| 200 A | - | - | - | 3ND2140 | 3ND2240 | - | - | - |
| 250 A | - | - | - | 3ND2144 | 3ND2244 | - | - | - |
| 315 A | - | - | - | - | - | 3ND2252 | 3ND2352 | - |
| 355 A | - | - | - | - | - | 3ND2254 | 3ND2354 | - |
| 400 A | - | - | - | - | - | 3ND2260 | 3ND2360 | - |
| 500 A | - | - | - | - | - | - | - | 3ND1365 |
| 630 A | - | - | - | - | - | - | - | 3ND1372 |

Cylindrical fuse links

Operational class gG

| I_n | Size 8 × 32 mm | | Size 10 × 38 mm | | Size 14 × 51 mm | | Size 22 × 58 mm | |
|-------|-------------------|--|-------------------|-----------|-------------------|-----------|-------------------|-----------|
| | U_n AC 400 V | | U_n AC 400 V | 500 V | U_n AC 500 V | 690 V | U_n AC 500 V | 690 V |
| 0.5 A | – | | – | 3NW6000-1 | – | – | – | – |
| 1 A | – | | – | 3NW6011-1 | – | – | – | – |
| 2 A | 3NW6302-1 | | – | 3NW6002-1 | – | – | – | – |
| 4 A | 3NW6304-1 | | – | 3NW6004-1 | – | 3NW6104-1 | – | – |
| 6 A | 3NW6301-1 | | – | 3NW6001-1 | – | 3NW6101-1 | – | – |
| 8 A | – | | – | 3NW6008-1 | – | 3NW6108-1 | – | – |
| 10 A | 3NW6303-1 | | – | 3NW6003-1 | – | 3NW6103-1 | – | – |
| 12 A | – | | – | 3NW6006-1 | – | 3NW6106-1 | – | – |
| 16 A | 3NW6305-1 | | – | 3NW6005-1 | – | 3NW6105-1 | – | 3NW6205-1 |
| 20 A | 3NW6307-1 | | – | 3NW6007-1 | – | 3NW6107-1 | – | 3NW6207-1 |
| 25 A | – | | – | 3NW6010-1 | – | 3NW6110-1 | – | 3NW6210-1 |
| 32 A | – | | 3NW6012-1 | – | – | 3NW6112-1 | – | 3NW6212-1 |
| 40 A | – | | – | – | 3NW6117-1 | – | – | 3NW6217-1 |
| 50 A | – | | – | – | 3NW6120-1 | – | – | 3NW6220-1 |
| 63 A | – | | – | – | – | – | 3NW6222-1 | – |
| 80 A | – | | – | – | – | – | 3NW6224-1 | – |
| 100 A | – | | – | – | – | – | 3NW6230-1 | – |

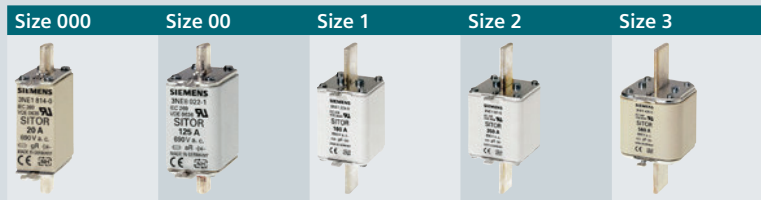
7

Operational class aM

| I_n | Size 10 × 38 mm | | Size 14 × 51 mm | | | Size 22 × 58 mm | |
|-------|-------------------|-----------|-------------------|-----------|-----------|-------------------|-----------|
| | U_n AC 400 V | 500 V | U_n AC 400 V | 500 V | 690 V | U_n AC 500 V | 690 V |
| 0.5 A | – | 3NW8000-1 | – | – | – | – | – |
| 1 A | – | 3NW8011-1 | – | – | – | – | – |
| 2 A | – | 3NW8002-1 | – | – | 3NW8102-1 | – | – |
| 4 A | – | 3NW8004-1 | – | – | 3NW8104-1 | – | – |
| 6 A | – | 3NW8001-1 | – | – | 3NW8101-1 | – | – |
| 8 A | – | 3NW8008-1 | – | – | 3NW8108-1 | – | – |
| 10 A | – | 3NW8003-1 | – | – | 3NW8103-1 | – | – |
| 12 A | – | 3NW8006-1 | – | – | 3NW8106-1 | – | – |
| 16 A | – | 3NW8005-1 | – | 3NW8105-1 | – | – | 3NW8205-1 |
| 20 A | 3NW8007-1 | – | – | 3NW8107-1 | – | – | 3NW8207-1 |
| 25 A | 3NW8010-1 | – | – | 3NW8110-1 | – | – | 3NW8210-1 |
| 32 A | 3NW8012-1 | – | – | 3NW8112-1 | – | – | 3NW8212-1 |
| 40 A | – | – | – | 3NW8117-1 | – | – | 3NW8217-1 |
| 50 A | – | – | 3NW8120-1 | – | – | – | 3NW8220-1 |
| 63 A | – | – | – | – | – | 3NW8222-1 | – |
| 80 A | – | – | – | – | – | 3NW8224-1 | – |
| 100 A | – | – | – | – | – | 3NW8230-1 | – |

SITOR semiconductor fuse links (LV HRC design)

Operational class gS, with blade contacts without slots



| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 690/- V ¹⁾ | U_n AC/DC 690/- V ¹⁾ | U_n AC/DC 690/- V ¹⁾ | U_n AC/DC 690/- V ¹⁾ | U_n AC/DC 690/- V ¹⁾ |
|-------|--------------------------|------------------|------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 16 A | 200 A ² s | 4 W | 1.0 | 3NE1813-0 | – | – | – | – |
| 20 A | 430 A ² s | 5 W | 1.0 | 3NE1814-0 | – | – | – | – |
| 25 A | 780 A ² s | 5 W | 1.0 | 3NE1815-0 | – | – | – | – |
| 35 A | 1700 A ² s | 3.5 W | 1.0 | 3NE1803-0 | – | – | – | – |
| 40 A | 3000 A ² s | 3 W | 1.0 | 3NE1802-0 | – | – | – | – |
| 50 A | 4400 A ² s | 6 W | 1.0 | 3NE1817-0 | – | – | – | – |
| 63 A | 9000 A ² s | 7 W | 1.0 | 3NE1818-0 | – | – | – | – |
| 80 A | 18000 A ² s | 8 W | 1.0 | 3NE1820-0 | – | – | – | – |
| 100 A | 33000 A ² s | 10 W | 1.0 | – | 3NE1021-0 | – | – | – |
| 125 A | 63000 A ² s | 11 W | 1.0 | – | 3NE1022-0 | – | – | – |
| 160 A | 60000 A ² s | 24 W | 1.0 | – | – | 3NE1224-0 | – | – |
| 200 A | 100000 A ² s | 27 W | 1.0 | – | – | 3NE1225-0 | – | – |
| 250 A | 200000 A ² s | 30 W | 1.0 | – | – | 3NE1227-0 | – | – |
| 315 A | 310000 A ² s | 38 W | 1.0 | – | – | 3NE1230-0 | – | – |
| 350 A | 430000 A ² s | 42 W | 1.0 | – | – | – | 3NE1331-0 | – |
| 400 A | 590000 A ² s | 45 W | 1.0 | – | – | – | 3NE1332-0 | – |
| 450 A | 750000 A ² s | 53 W | 1.0 | – | – | – | 3NE1333-0 | – |
| 500 A | 950000 A ² s | 56 W | 1.0 | – | – | – | 3NE1334-0 | – |
| 560 A | 1700000 A ² s | 50 W | 1.0 | – | – | – | – | 3NE1435-0 |
| 630 A | 2350000 A ² s | 55 W | 1.0 | – | – | – | – | 3NE1436-0 |
| 710 A | 3400000 A ² s | 58 W | 1.0 | – | – | – | – | 3NE1437-0 |
| 800 A | 5000000 A ² s | 58 W | 1.0 | – | – | – | – | 3NE1438-0 |

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

Operational class gR, with bolt-on links

| | | | | Size 000 | Size 00 |
|----------------------------------|------------------------|------------------|------------------------|---|---|
| Screw fixing, mounting dimension | | | | M8, 80 mm | M10, 80 mm |
| | | | |  |  |
| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 690/700 V | U_n AC/DC 690/440 V |
| 20 A | 83 A ² s | 7 W | 0.9 | 3NE8714-1 | – |
| 25 A | 140 A ² s | 9 W | 0.9 | 3NE8715-1 | – |
| 32 A | 285 A ² s | 10 W | 0.9 | 3NE8701-1 | – |
| 40 A | 490 A ² s | 12 W | 0.9 | 3NE8702-1 | – |
| 50 A | 815 A ² s | 15 W | 0.9 | 3NE8717-1 | – |
| 80 A | 3200 A ² s | 23 W | On req. | – | 3NE8020-3MK |
| 100 A | 5200 A ² s | 29 W | On req. | – | 3NE8021-3MK |
| Further information | | | | | |
| Catalog LV 10 | | | | For further currents for operational class aR, see page 7/48 | For further currents for operational class aR, see page 7/48 |

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, with blade contacts without slots

Size 000



Size 00







Size 0



| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 690/400 V | U_n AC/DC 690 V ¹⁾ | U_n AC/DC 1000 V ¹⁾ |
|----------------------------|--------------------------|------------------|------------------------|--|------------------------------------|--|
| 6 A | 37 A ² s | 2.7 W | On req. | 3NE8810-0MK | – | – |
| 10 A | 50 A ² s | 4.5 W | On req. | 3NE8812-0MK | – | – |
| 16 A | 73 A ² s | 6.7 W | On req. | 3NE8813-0MK | – | – |
| 20 A | 90 A ² s | 8 W | On req. | 3NE8814-0MK | – | – |
| 25 A | 150 A ² s | 8.1 W | On req. | 3NE8815-0MK | – | – |
| | 180 A ² s | 7 W | 0.95 | – | 3NE8015-1 | – |
| 32 A | 280 A ² s | 12 W | 0.9 | – | – | 3NE4101 |
| | 350 A ² s | 10.5 W | On req. | 3NE8801-0MK | – | – |
| 35 A | 400 A ² s | 9 W | 0.95 | – | 3NE8003-1 | – |
| 40 A | 480 A ² s | 12 W | On req. | 3NE8802-0MK | – | – |
| | 500 A ² s | 13 W | 0.9 | – | – | 3NE4102 |
| 50 A | 700 A ² s | 14 W | 0.90 | – | 3NE8017-1 | – |
| | 800 A ² s | 16 W | 0.9 | – | – | 3NE4117 |
| | 1050 A ² s | 14.5 W | On req. | 3NE8817-0MK | – | – |
| 63 A | 1400 A ² s | 16 W | 0.95 | – | 3NE8018-1 | – |
| | 1960 A ² s | 23 W | On req. | 3NE8818-0MK | – | – |
| 80 A | 5800 A ² s | 10.5 W | 1.0 | – | 3NE1020-2 | – |
| 100 A | 11000 A ² s | 12 W | 1.0 | – | 3NE1021-2 | – |
| 125 A | 23000 A ² s | 13.5 W | 1.0 | – | 3NE1022-2 | – |
| 160 A | 18600 A ² s | 32 W | 1.0 | – | – | – |
| 200 A | 51800 A ² s | 35 W | 1.0 | – | – | – |
| 250 A | 80900 A ² s | 37 W | 1.0 | – | – | – |
| 315 A | 168000 A ² s | 40 W | 1.0 | – | – | – |
| 350 A | 177000 A ² s | 43 W | 1.0 | – | – | – |
| 400 A | 224000 A ² s | 50 W | 1.0 | – | – | – |
| 450 A | 276500 A ² s | 58 W | 1.0 | – | – | – |
| 500 A | 398000 A ² s | 64 W | 1.0 | – | – | – |
| 560 A | 890000 A ² s | 60 W | 1.0 | – | – | – |
| 630 A | 1390000 A ² s | 60 W | 1.0 | – | – | – |
| 670 A | 1640000 A ² s | 64 W | 1.0 | – | – | – |
| 710 A | 1818000 A ² s | 72 W | 1.0 | – | – | – |
| | 2460000 A ² s | 65 W | 1.0 | – | – | – |
| 800 A | 2475000 A ² s | 84 W | 1.0 | – | – | – |
| | 3350000 A ² s | 72 W | 1.0 | – | – | – |
| 850 A | 3640000 A ² s | 76 W | 1.0 | – | – | – |
| Further information | | | | | | |
| Catalog LV 10 | | | | For further currents for operational class aR, see page 7/49 | – | For further currents for operational class aR, see page 7/49 |

¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

| Size 1 | Size 2 | Size 3 | |
|--|---|---|---|
|  |  |  |  |
| U _n AC/DC 690 V ¹⁾ | U _n AC/DC 690 V ¹⁾ | U _n AC/DC 600/- V ¹⁾ | 690 V ¹⁾ |
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| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| 3NE1224-2 | - | - | - |
| 3NE1225-2 | - | - | - |
| 3NE1227-2 | - | - | - |
| 3NE1230-2 | - | - | - |
| - | 3NE1331-2 | - | - |
| - | 3NE1332-2 | - | - |
| - | 3NE1333-2 | - | - |
| - | 3NE1334-2 | - | - |
| - | - | - | 3NE1435-2 |
| - | - | - | 3NE1436-2 |
| - | - | - | 3NE1447-2 |
| - | - | - | 3NE1437-2 |
| - | - | 3NE1437-1 | - |
| - | - | - | 3NE1438-2 |
| - | - | 3NE1438-1 | - |
| - | - | - | 3NE1448-2 |
| - | - | - | - |

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, with slotted blade contacts

Screw fixing, mounting dimension (lateral) **With 2 oblong slots Size 3** M10, 110 mm **With oblong and transverse slots Size 1** M10, 110 mm



| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U _n AC/DC 500 V ¹⁾ | | U _n AC/DC 690 V ¹⁾ | | 1000/600 V |
|--------|---------------------------|------------------|------------------------|--|---------------------|--|---|-------------|
| | | | | | 690 V ¹⁾ | | | |
| 32 A | 4500 A ² s | 9 W | On req. | – | – | – | – | 3NE3201-OMK |
| 40 A | 900 A ² s | 26 W | On req. | – | – | – | – | – |
| | 6000 A ² s | 13 W | On req. | – | – | – | – | 3NE3202-OMK |
| 50 A | 1800 A ² s | 27 W | On req. | – | – | – | – | – |
| | 8000 A ² s | 18 W | On req. | – | – | – | – | 3NE3217-OMK |
| 63 A | 3100 A ² s | 34 W | On req. | – | – | – | – | – |
| | 9000 A ² s | 25 W | On req. | – | – | – | – | 3NE3218-OMK |
| 150 A | 17600 A ² s | 40 W | 0.85 | – | 3NC8423-OC | – | – | – |
| | 33000 A ² s | 35 W | 0.85 | 3NC2423-OC | – | – | – | – |
| 160 A | 18600 A ² s | 32 W | 1.0 | – | – | 3NE1224-3 | – | – |
| 200 A | 38400 A ² s | 55 W | 0.85 | – | 3NC8425-OC | – | – | – |
| | 51800 A ² s | 35 W | 1.0 | – | – | 3NE1225-3 | – | – |
| | 64000 A ² s | 40 W | 0.85 | 3NC2425-OC | – | – | – | – |
| 250 A | 70400 A ² s | 72 W | 0.85 | – | 3NC8427-OC | – | – | – |
| | 80900 A ² s | 37 W | 1.0 | – | – | 3NE1227-3 | – | – |
| | 99000 A ² s | 50 W | 0.85 | 3NC2427-OC | – | – | – | – |
| 300 A | 132000 A ² s | 65 W | 0.85 | 3NC2428-OC | – | – | – | – |
| 315 A | 168000 A ² s | 40 W | 1.0 | – | – | 3NE1230-3 | – | – |
| 350 A | 176000 A ² s | 95 W | 0.85 | – | 3NC8431-OC | – | – | – |
| | 177000 A ² s | 43 W | 1.0 | – | – | – | – | – |
| | 249000 A ² s | 60 W | 0.85 | 3NC2431-OC | – | – | – | – |
| 400 A | 224000 A ² s | 50 W | 1.0 | – | – | – | – | – |
| 450 A | 276500 A ² s | 58 W | 1.0 | – | – | – | – | – |
| 500 A | 398000 A ² s | 64 W | 1.0 | – | – | – | – | – |
| | 448000 A ² s | 130 W | 0.85 | – | 3NC8434-OC | – | – | – |
| 560 A | 890000 A ² s | 60 W | 1.0 | – | – | – | – | – |
| 630 A | 1390000 A ² s | 60 W | 1.0 | – | – | – | – | – |
| 670 A | 1640000 A ² s | 64 W | 1.0 | – | – | – | – | – |
| 710 A | 1818000 A ² s | 72 W | 1.0 | – | – | – | – | – |
| 800 A | 2475000 A ² s | 84 W | 1.0 | – | – | – | – | – |
| 850 A | 3640000 A ² s | 76 W | 1.0 | – | – | – | – | – |
| 1000 A | 1400000 A ² s | 138 W | 1.0 | – | – | – | – | – |
| 1100 A | 3000000 A ² s | 110 W | 1.0 | – | – | – | – | – |
| 1250 A | 4100000 A ² s | 104 W | 1.0 | – | – | – | – | – |
| 1350 A | 4800000 A ² s | 126 W | 1.0 | – | – | – | – | – |
| 1400 A | 5200000 A ² s | 127 W | 1.0 | – | – | – | – | – |
| 1600 A | 6900000 A ² s | 152 W | 1.0 | – | – | – | – | – |
| 1700 A | 6400000 A ² s | 179 W | 1.0 | – | – | – | – | – |
| 1700 A | 10000000 A ² s | 143 W | 1.0 | – | – | – | – | – |
| 1900 A | 8200000 A ² s | 196 W | 1.0 | – | – | – | – | – |

Further information

Catalog LV 10

For further currents for operational class aR, see page 7/52


¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

²⁾ Minimum clearance 90 mm

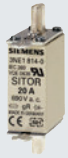




| Size 2 | | Size 3 | | Size 3 | Size 2 × 3 | Size 3 × 3 |
|--|---|---|---|---|---|---|
| M10, 110 (90) mm | M10, 170 mm | M10, 110 mm | | M12, 110 mm | M12, 110 mm ²⁾ | M12, 110 mm ²⁾ |
|  |  |  |  |  |  |  |
| U _n AC/DC 690 V ¹⁾ | U _n AC/DC 1500/1000 V | U _n AC/DC 500 V ¹⁾ | 690 V ¹⁾ | U _n AC/DC 690 V ¹⁾ | U _n AC/DC 690 V ¹⁾ | U _n AC/DC 690 V ¹⁾ |
| - | - | - | - | - | - | - |
| - | 3NE5302-0MK06 | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | 3NE5317-0MK06 | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | 3NE5318-0MK06 | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | 3NC8423-3C | - | - | - |
| - | - | 3NC2423-3C | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | 3NC8425-3C | - | - | - |
| - | - | - | - | - | - | - |
| - | - | 3NC2425-3C | - | - | - | - |
| - | - | - | 3NC8427-3C | - | - | - |
| - | - | - | - | - | - | - |
| - | - | 3NC2427-3C | - | - | - | - |
| - | - | 3NC2428-3C | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | 3NC8431-3C | - | - | - |
| 3NE1331-3 | - | - | - | - | - | - |
| - | - | 3NC2431-3C | - | - | - | - |
| 3NE1332-3 | - | - | - | - | - | - |
| 3NE1333-3 | - | - | - | - | - | - |
| 3NE1334-3 | - | - | - | - | - | - |
| - | - | - | 3NC8434-3C | - | - | - |
| - | - | - | - | 3NE1435-3 | - | - |
| - | - | - | - | 3NE1436-3 | - | - |
| - | - | - | - | 3NE1447-3 | - | - |
| - | - | - | - | 3NE1437-3 | - | - |
| - | - | - | - | 3NE1438-3 | - | - |
| - | - | - | - | 3NE1448-3 | - | - |
| - | - | - | - | - | 3NB3350-1KK26 | - |
| - | - | - | - | - | 3NB3351-1KK26 | - |
| - | - | - | - | - | 3NB3352-1KK26 | - |
| - | - | - | - | - | 3NB3354-1KK26 | - |
| - | - | - | - | - | 3NB3355-1KK26 | - |
| - | - | - | - | - | 3NB3357-1KK26 | - |
| - | - | - | - | - | - | 3NB3358-1KK27 |
| - | - | - | - | - | 3NB3358-1KK26 | - |
| - | - | - | - | - | - | 3NB3362-1KK27 |
| - | - | For further currents for operational class aR, see page 7/52 | For further currents for operational class aR, see page 7/52 | For further currents for operational class aR, see page 7/52 | - | - |

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with bolt-on links

| | | | | Size 000 | |
|----------------------------------|-------------------------|------------------|------------------------|---|---|
| Screw fixing, mounting dimension | | | | M8, 80 mm | M10, 80 mm |
| | | | |  |  |
| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 690/700 V | U_n AC/DC 690/440 V |
| 63 A | 1550 A ² s | 16 W | 0.95 | 3NE8718-1 | – |
| 80 A | 2700 A ² s | 18 W | 0.9 | 3NE8720-1 | – |
| 100 A | 4950 A ² s | 19 W | 0.95 | 3NE8721-1 | – |
| 125 A | 9100 A ² s | 23 W | 0.95 | 3NE8722-1 | – |
| 160 A | 17000 A ² s | 31 W | 0.9 | 3NE8724-1 | – |
| 200 A | 30000 A ² s | 36 W | 0.9 | 3NE8725-1 | – |
| 250 A | 55000 A ² s | 42 W | 0.9 | 3NE8727-1 | – |
| 315 A | 85500 A ² s | 54 W | 0.85 | 3NE8731-1 | – |
| 350 A | 135000 A ² s | 58.8 W | On req. | – | 3NE8031-3MK |
| 400 A | 170000 A ² s | 74.5 W | On req. | – | 3NE8032-3MK |
| Further information | | | | | |
| Catalog LV 10 | | | | For further currents for operational class gR, see page 7/43 | For further currents for operational class gR, see page 7/43 |


Operational class aR, with blade contacts without slots

| | | | | Size 000 | | Size 00 | | Size 0 | | Size 1 | | Size 2 | |
|----------------------------|-------------------------|------------------|------------------------|---|-------------|---|-------------------------------------|---|--------------------------|---|---|---|--|
| | | | |  | |  | |  | |  | |  | |
| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 500/440 V | 690/440 V | U_n AC/DC 690 V ¹⁾ | U_n AC/DC 1000 V ¹⁾ | U_n AC/DC 690/440 V | U_n AC/DC 690/440 V | | | | |
| 63 A | 1500 A ² s | 20 W | 0.9 | – | – | – | 3NE4118 | – | – | | | | |
| 80 A | 2200 A ² s | 23.3 W | On req. | – | 3NE8820-OMK | – | – | – | – | | | | |
| | 2400 A ² s | 19 W | 0.95 | – | – | 3NE8020-1 | – | – | – | | | | |
| | 3000 A ² s | 22 W | 0.9 | – | – | – | 3NE4120 | – | – | | | | |
| 100 A | 3650 A ² s | 27 W | On req. | – | 3NE8821-OMK | – | – | – | – | | | | |
| | 4200 A ² s | 22 W | 0.95 | – | – | 3NE8021-1 | – | – | – | | | | |
| | 6000 A ² s | 24 W | 0.9 | – | – | – | 3NE4121 | – | – | | | | |
| | 6050 A ² s | 25.5 W | On req. | – | – | – | – | 3NE8221-OMK | – | | | | |
| 125 A | 6500 A ² s | 28 W | 0.95 | – | – | 3NE8022-1 | – | – | – | | | | |
| | 7800 A ² s | 30 W | On req. | – | 3NE8822-OMK | – | – | – | – | | | | |
| | 8900 A ² s | 28.5 W | On req. | – | – | – | – | 3NE8222-OMK | – | | | | |
| | 14000 A ² s | 30 W | 0.9 | – | – | – | 3NE4122 | – | – | | | | |
| 160 A | 13000 A ² s | 38 W | 0.95 | – | – | 3NE8024-1 | – | – | – | | | | |
| | 14000 A ² s | 34 W | On req. | 3NE8824-OMK | – | – | – | – | – | | | | |
| | 16200 A ² s | 37 W | On req. | – | – | – | – | 3NE8224-OMK | – | | | | |
| | 29000 A ² s | 35 W | 0.9 | – | – | – | 3NE4124 | – | – | | | | |
| 200 A | 26000 A ² s | 49 W | On req. | – | – | – | – | 3NE8225-OMK | – | | | | |
| 250 A | 59000 A ² s | 52 W | On req. | – | – | – | – | 3NE8227-OMK | – | | | | |
| 315 A | 120000 A ² s | 68 W | On req. | – | – | – | – | 3NE8230-OMK | – | | | | |
| 350 A | 83500 A ² s | 68.6 W | On req. | – | – | – | – | – | – | 3NE8331-OMK | | | |
| 400 A | 136000 A ² s | 72.8 W | On req. | – | – | – | – | – | – | 3NE8332-OMK | | | |
| 450 A | 207000 A ² s | 80.1 W | On req. | – | – | – | – | – | – | 3NE8333-OMK | | | |
| 500 A | 318000 A ² s | 77.5 W | On req. | – | – | – | – | – | – | 3NE8334-OMK | | | |
| 550 A | 399000 A ² s | 86.4 W | On req. | – | – | – | – | – | – | 3NE8335-OMK | | | |
| 630 A | 740000 A ² s | 90.7 W | On req. | – | – | – | – | – | – | 3NE8336-OMK | | | |
| Further information | | | | | | | | | | | | | |
| Catalog LV 10 | | | | For further currents for operational class gR, see page 7/44 | | | – | For further currents for operational class gR, see page 7/44 | | – | – | | |

¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with slotted blade contacts

| Screw fixing, mounting dimension | With 2 oblong slots | | With oblong and transverse slots | |
|----------------------------------|---|--|---|---|
| | Size 3 | Size 1 | Size 1 | Size 1 |
| | M10, 110 mm | M8, 80 mm | M10, 110 mm | M10, 110 mm |
| |  |  |  |  |

| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC/DC 500 V ¹⁾ | U_n AC/DC 690/440 V | U_n AC/DC 1000/- V ¹⁾ | 1000/600 V |
|-------|---------------------------|------------------|---------------------------|------------------------------------|--------------------------|---------------------------------------|---------------|
| 80 A | 3900 A ² s | 42 W | On req. | – | – | – | – |
| 100 A | 3200 A ² s | 25 W | On req. | – | 3NE8221-3MK | – | – |
| | 4800 A ² s | 28 W | 0.95 | – | – | 3NE3221 | – |
| | 8700 A ² s | 45 W | On req. | – | – | – | – |
| 125 A | 6000 A ² s | 28 W | On req. | – | 3NE8222-3MK | – | – |
| | 7200 A ² s | 36 W | 0.95 | – | – | 3NE3222 | – |
| | 11800 A ² s | 59 W | On req. | – | – | – | – |
| 160 A | 10500 A ² s | 35 W | On req. | – | 3NE8224-3MK | – | – |
| | 13000 A ² s | 42 W | 1.0 | – | – | 3NE3224 | – |
| | 37000 A ² s | 54 W | On req. | – | – | – | – |
| 200 A | 17500 A ² s | 42 W | On req. | – | 3NE8225-3MK | – | – |
| | 30000 A ² s | 42 W | 1.0 | – | – | 3NE3225 | – |
| | 70000 A ² s | 56 W | On req. | – | – | – | – |
| 250 A | 28500 A ² s | 53.5 W | On req. | – | 3NE8227-3MK | – | – |
| | 29700 A ² s | 105 W | 0.85 | – | – | – | – |
| | 48000 A ² s | 50 W | 1.0 | – | – | 3NE3227 | – |
| | 165000 A ² s | 59 W | On req. | – | – | – | – |
| 315 A | 53500 A ² s | 61 W | On req. | – | 3NE8230-3MK | – | – |
| | 60700 A ² s | 120 W | 0.85 | – | – | – | – |
| | 80000 A ² s | 60 W | 0.95 | – | – | 3NE3230-0B | – |
| | 250000 A ² s | 76 W | On req. | – | – | – | – |
| | 300000 A ² s | 245 W | On req. | – | – | – | – |
| 350 A | 66000 A ² s | 69 W | On req. | – | 3NE8231-3MK | – | – |
| | 100000 A ² s | 75 W | 0.95 | – | – | 3NE3231 | – |
| 400 A | 110000 A ² s | 70.5 W | On req. | – | 3NE8232-3MK | – | – |
| | 135000 A ² s | 80 W | 1.0 | – | – | – | – |
| | 85 W | 0.9 | – | – | – | 3NE3232-0B | – |
| | 390000 A ² s | 50 W | 0.85 | 3NC2432-0C | – | – | – |
| 450 A | 470000 A ² s | 89 W | On req. | – | – | – | – |
| | 175000 A ² s | 90 W | 1.0 | – | – | – | – |
| | 95 W | 0.9 | – | – | – | 3NE3233 | – |
| | 180000 A ² s | 71 W | On req. | – | 3NE8233-3MK | – | – |
| 500 A | 191000 A ² s | 140 W | 0.85 | – | – | – | – |
| | 215000 A ² s | 84 W | On req. | – | 3NE8234-3MK | – | – |
| | 260000 A ² s | 90 W | 1.0 | – | – | – | – |
| | 276000 A ² s | 155 W | 0.85 | – | – | – | – |
| | 500000 A ² s | 105 W | On req. | – | – | – | 3NE3234-0MK08 |
| 550 A | 800000 A ² s | 109 W | On req. | – | – | – | – |
| | 290000 A ² s | 87 W | On req. | – | 3NE8235-3MK | – | – |
| 560 A | 700000 A ² s | 110 W | On req. | – | – | – | 3NE3235-0MK08 |
| | 360000 A ² s | 95 W | 1.0 | – | – | – | – |
| 630 A | 440000 A ² s | 96 W | On req. | – | 3NE8236-3MK | – | – |
| | 600000 A ² s | 100 W | 1.0 | – | – | – | – |
| | 850000 A ² s | 127 W | On req. | – | – | – | 3NE3236-0MK08 |
| | 1100000 A ² s | 163 W | On req. | – | – | – | – |
| 710 A | 800000 A ² s | 105 W | 1.0 | – | – | – | – |
| | 923000 A ² s | 155 W | 0.95 | – | – | – | – |
| 800 A | 850000 A ² s | 130 W | 0.95 | – | – | – | – |
| 900 A | 920000 A ² s | 165 W | 0.95 | – | – | – | – |

Further information

Catalog LV 10

For further currents for
operational class gR,
see page 7/46

¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

Size 2

M10, 110 mm



M10, 170 mm



M10, 190 mm



M12, 260 mm



| U _n AC/DC 690/- V ¹⁾ | 800/- V ¹⁾ | 800 V ¹⁾ | 900/- V ¹⁾ | 1000/- V ¹⁾ | U _n AC/DC 1500/1000 V | U _n AC/DC 1500/1000 V | U _n AC/DC -/3000 V |
|---|-----------------------|---------------------|-----------------------|------------------------|--|-------------------------------------|----------------------------------|
| - | - | - | - | - | 3NE5320-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5321-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5322-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5324-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5325-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | 3NE4327-0B | - | - | - | - | - |
| - | - | - | - | - | 3NE5327-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | 3NE4330-0B | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5330-0MK06 | - | - |
| - | - | - | - | - | - | - | 3NE9330-0MK07 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | 3NE3332-0B | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5332-0MK06 | - | - |
| - | - | - | - | 3NE3333 | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | 3NE4333-0B | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | 3NE3334-0B | - | - | - |
| - | - | 3NE4334-0B | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5334-0MK06 | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | 3NE3335 | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | 3NE3336 | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NE5336-0MK06 | 3NE5336-0MK66 | - |
| - | - | - | 3NE3337-8 | - | - | - | - |
| - | - | 3NE4337 | - | - | - | - | - |
| - | 3NE3338-8 | - | - | - | - | - | - |
| 3NE3340-8 | - | - | - | - | - | - | - |
| - | - | - | - | - | For further currents for operational class gR, see page 7/46 | - | - |

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with slotted blade contacts

With oblong and transverse slots
Size 3

Screw fixing, mounting dimension

M10, 110 mm

M10, 130 mm

M10, 170 mm

M10, 210 mm



| I _n | Operating value I ² t | Power loss P _v | Varying load factor WL | U _n AC/DC | | U _n AC/DC | | U _n AC/DC | |
|----------------|----------------------------------|---------------------------|------------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| | | | | 500 V ¹⁾ | 600 V ¹⁾ | 1000 V ¹⁾ | 1500 V ¹⁾ | 1500 V ¹⁾ | 2000 V ¹⁾ |
| 100 A | 13500 A ² s | 25 W | 1.0 | – | – | 3NE3421-OC | – | – | – |
| 125 A | 34500 A ² s | 78 W | 1.0 | – | – | – | – | – | – |
| 160 A | 54000 A ² s | 56 W | 1.0 | – | – | – | – | 3NE5424-OC | – |
| 200 A | 138000 A ² s | 75 W | 1.0 | – | – | – | – | – | 3NE7425-OU |
| 224 A | 54000 A ² s | 85 W | 1.0 | – | – | 3NE3626-OC | – | – | – |
| | 138000 A ² s | 80 W | 1.0 | – | – | – | – | 3NE5426-OC | – |
| 250 A | 84000 A ² s | 130 W | 1.0 | – | – | – | 3NE5627-OC | – | – |
| | 218000 A ² s | 110 W | 1.0 | – | – | – | – | – | 3NE7427-OU |
| 315 A | 72500 A ² s | 80 W | 0.95 | – | – | – | – | – | – |
| | 218000 A ² s | 80 W | 1.0 | – | – | 3NE3430-OC | – | – | – |
| | 311000 A ² s | 115 W | 1.0 | – | – | – | – | 3NE5430-OC | – |
| 350 A | 428000 A ² s | 135 W | 1.0 | – | – | – | – | 3NE5431-OC | – |
| | 555000 A ² s | 120 W | 1.0 | – | – | – | – | – | 3NE7431-OU |
| 400 A | 163000 A ² s | 95 W | 0.95 | – | – | – | – | – | – |
| | 364000 A ² s | 110 W | 1.0 | – | – | 3NE3432-OC | – | – | – |
| | 390000 A ² s | 50 W | 0.85 | 3NC2432-3C | – | – | – | – | – |
| | 620000 A ² s | 205 W | 1.0 | – | – | – | – | – | – |
| 450 A | 870000 A ² s | 150 W | 1.0 | – | – | – | – | – | 3NE7432-OU |
| | 488000 A ² s | 110 W | 1.0 | – | – | 3NE3635-OC | – | – | – |
| | 590000 A ² s | 160 W | 1.0 | – | – | – | 3NE5633-OC | – | – |
| | 870000 A ² s | 145 W | 0.95 | – | – | – | – | 3NE5433-OC | – |
| 500 A | 960000 A ² s | 160 W | 1.0 | – | – | – | – | – | 3NE7633-OU |
| | 290000 A ² s | 115 W | 0.90 | – | – | – | – | – | – |
| | 870000 A ² s | 95 W | 1.0 | – | – | 3NE3434-OC | – | – | – |
| 525 A | 1270000 A ² s | 235 W | 1.0 | – | – | – | – | – | – |
| | 1120000 A ² s | 210 W | 1.0 | – | – | – | – | – | – |
| 600 A | 1950000 A ² s | 145 W | 1.0 | – | – | – | 3NE5643-OC | – | – |
| 630 A | 244000 A ² s | 120 W | 0.85 | – | – | – | – | – | – |
| | 418000 A ² s | 145 W | 0.85 | – | – | – | – | – | – |
| | 650000 A ² s | 120 W | 0.95 | – | – | – | – | – | – |
| | 1280000 A ² s | 132 W | 1.0 | – | – | 3NE3636-OC | – | – | – |
| | 1950000 A ² s | 220 W | 1.0 | – | – | – | – | – | 3NE7636-OU |
| | 2800000 A ² s | 275 W | 1.0 | – | – | – | – | – | – |
| 710 A | 346000 A ² s | 130 W | 0.85 | – | – | – | – | – | – |
| | 569000 A ² s | 150 W | 0.85 | – | – | – | – | – | – |
| | 1950000 A ² s | 145 W | 1.0 | – | – | 3NE3637-OC | – | – | – |
| | 3110000 A ² s | 275 W | 1.0 | – | – | – | – | – | – |
| 800 A | 498000 A ² s | 135 W | 0.9 | – | – | – | – | – | – |
| | 819000 A ² s | 155 W | 0.85 | – | – | – | – | – | – |
| | 985000 A ² s | 145 W | 0.90 | – | – | – | – | – | – |
| 900 A | 677000 A ² s | 145 W | 0.9 | – | – | – | – | – | – |
| | 1160000 A ² s | 165 W | 0.9 | – | – | – | – | – | – |
| 1000 A | 975000 A ² s | 155 W | 0.95 | – | – | – | – | – | – |
| | 1670000 A ² s | 170 W | 0.9 | – | – | – | – | – | – |
| | 2480000 A ² s | 140 W | 0.85 | – | 3NC8444-3C | – | – | – | – |
| 1100 A | 1382000 A ² s | 165 W | 0.95 | – | – | – | – | – | – |
| | 1910000 A ² s | 185 W | 0.9 | – | – | – | – | – | – |
| 1250 A | 1990000 A ² s | 175 W | 0.95 | – | – | – | – | – | – |
| | 2600000 A ² s | 210 W | 0.9 | – | – | – | – | – | – |
| 1400 A | 2100000 A ² s | 200 W | 0.95 | – | – | – | – | – | – |
| 1600 A | 2860000 A ² s | 240 W | 0.9 | – | – | – | – | – | – |

Further information

Catalog LV 10

For further currents for operational class gR, see page 7/46

¹⁾ For the max. DC voltage, see the Configuration Manual „Fuse Systems“, chapter “Configuration”, “Use with direct current”

| M12, 80 mm | | M12, 110 mm | | | | M12, 140 mm | M12, 210 mm | | M12, 260 mm |
|---|---------------------|---|----------------------|----------------------|----------------------|--|--|----------------------|--|
| U _n AC/DC 500 V ¹⁾ | 690 V ¹⁾ | U _n AC/DC 800 V ¹⁾ | 1000 V ¹⁾ | 1100 V ¹⁾ | 1250 V ¹⁾ | U _n AC/DC 1000 V ¹⁾ | U _n AC/DC 1500 V ¹⁾ | 2000 V ¹⁾ | U _n AC/DC 2500 V ¹⁾ |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 3NE9622-1C |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC3430-1U | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC3432-1U | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 3NE9632-1C |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | 3NE5433-1C | - | - |
| - | - | - | - | - | - | - | - | 3NE7633-1U | - |
| - | - | - | - | - | 3NC3434-1U | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 3NE9634-1C |
| - | - | - | - | - | - | - | - | 3NE7648-1U | - |
| - | - | - | - | - | - | - | - | - | - |
| - | 3NC3236-1U | - | - | - | - | - | - | - | - |
| - | - | - | 3NC3336-1U | - | - | - | - | - | - |
| - | - | - | - | - | 3NC3436-1U | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | 3NE7636-1U | - |
| - | - | - | - | - | - | - | - | - | 3NE9636-1C |
| - | 3NC3237-1U | - | - | - | - | - | - | - | - |
| - | - | - | 3NC3337-1U | - | - | - | - | - | - |
| - | - | - | - | - | - | 3NE3637-1C | - | - | - |
| - | - | - | - | - | - | - | - | 3NE7637-1U | - |
| - | 3NC3238-1U | - | - | - | - | - | - | - | - |
| - | - | - | 3NC3338-1U | - | - | - | - | - | - |
| - | - | - | - | - | 3NC3438-1U | - | - | - | - |
| - | 3NC3240-1U | - | - | - | - | - | - | - | - |
| - | - | - | 3NC3340-1U | - | - | - | - | - | - |
| - | 3NC3241-1U | - | - | - | - | - | - | - | - |
| - | - | - | 3NC3341-1U | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | 3NC3242-1U | - | - | - | - | - | - | - | - |
| - | - | 3NC3342-1U | - | - | - | - | - | - | - |
| - | 3NC3243-1U | - | - | - | - | - | - | - | - |
| - | - | 3NC3343-1U | - | - | - | - | - | - | - |
| 3NC3244-1U | - | - | - | - | - | - | - | - | - |
| 3NC3245-1U | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |

SITOR semiconductor fuse links (LV HRC design)

Operational class aR, with female thread at both ends

Screw fixing, flange dimension **Size 3**
M10, 109 mm M12, 52 mm



| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U _n AC/DC | |
|--------|--------------------------|------------------|------------------------|----------------------|----------------------|
| | | | | 1000/- V | 500/- V 690/- V |
| 315 A | 72500 A ² s | 80 W | 0.95 | – | – |
| 400 A | 163000 A ² s | 95 W | 0.95 | – | – |
| 450 A | 488000 A ² s | 110 W | 1.0 | 3NE3635-6 | – |
| 500 A | 290000 A ² s | 115 W | 0.90 | – | – |
| 630 A | 244000 A ² s | 125 W | 0.9 | – | 3NC3236-6U |
| | 418000 A ² s | 130 W | 0.90 | – | – |
| | 650000 A ² s | 120 W | 0.95 | – | – |
| 710 A | 346000 A ² s | 130 W | 0.9 | – | 3NC3237-6U |
| | 569000 A ² s | 140 W | 0.90 | – | – |
| 800 A | 498000 A ² s | 135 W | 0.95 | – | 3NC3238-6U |
| | 819000 A ² s | 150 W | 0.90 | – | – |
| | 985000 A ² s | 145 W | 0.95 | – | – |
| 900 A | 677000 A ² s | 140 W | 0.95 | – | 3NC3240-6U |
| | 1160000 A ² s | 160 W | 0.95 | – | – |
| 1000 A | 975000 A ² s | 145 W | 1.0 | – | 3NC3241-6U |
| | 1670000 A ² s | 165 W | 0.95 | – | – |
| 1100 A | 1382000 A ² s | 150 W | 1.0 | – | 3NC3242-6U |
| | 1910000 A ² s | 175 W | 0.95 | – | – |
| 1250 A | 1990000 A ² s | 155 W | 1.0 | – | 3NC3243-6U |
| | 2600000 A ² s | 185 W | 0.95 | – | – |
| 1400 A | 2100000 A ² s | 175 W | 1.0 | – | 3NC3244-6U |
| 1600 A | 2860000 A ² s | 195 W | 0.95 | – | 3NC3245-6U |

M12, 73 mm



M12, 73 mm



| U _n AC/DC 800/- V | | U _n AC/DC 1100/- V | |
|---------------------------------|------------|----------------------------------|------------|
| | 1000/- V | | 1250/- V |
| - | - | - | 3NC3430-6U |
| - | - | - | 3NC3432-6U |
| - | - | - | - |
| - | - | - | 3NC3434-6U |
| - | - | - | - |
| - | 3NC3336-6U | - | - |
| - | - | - | 3NC3436-6U |
| - | - | - | - |
| - | 3NC3337-6U | - | - |
| - | - | - | - |
| - | 3NC3338-6U | - | - |
| - | - | 3NC3438-6U | - |
| - | - | - | - |
| - | 3NC3340-6U | - | - |
| - | - | - | - |
| - | 3NC3341-6U | - | - |
| - | - | - | - |
| 3NC3342-6U | - | - | - |
| - | - | - | - |
| 3NC3343-6U | - | - | - |
| - | - | - | - |
| - | - | - | - |

SITOR semiconductor fuse links (LV HRC design)

Operational class gR, special designs

Screw fixing, flange dimension

Without installation bracket

M10, 89 mm



With installation bracket

For SITOR 6QG11 thyristor sets



| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC 600 V | U_n AC 1000 V |
|-------|---------------------------|------------------|---------------------------|-------------------|--------------------|
| 50 A | 1100 A ² s | 20 W | 0.85 | – | 3NE4117-5 |
| 850 A | 2480000 A ² s | 85 W | 1.0 | 3NE9440-6 | – |

Operational class aR, special designs

Flange dimension

Without installation bracket

For screwing onto water-cooled busbars

83 mm




| I_n | Operating value I^2t | Power loss P_v | Varying load factor WL | U_n AC 600 V | 900 V | U_n AC 800 V | 1000 V |
|--------|---------------------------|------------------|---------------------------|-------------------|-----------|-------------------|---------|
| 100 A | 7400 A ² s | 35 W | 0.85 | – | – | – | – |
| 170 A | 60500 A ² s | 43 W | 0.85 | – | – | – | – |
| 200 A | 44000 A ² s | 50 W | 0.85 | – | – | – | – |
| 250 A | 29700 A ² s | 105 W | 0.85 | – | – | – | – |
| | 635000 A ² s | 25 W | 0.9 | – | – | – | – |
| 315 A | 60700 A ² s | 120 W | 0.85 | – | – | – | – |
| 350 A | 260000 A ² s | 80 W | 0.9 | – | – | 3NC5531 | – |
| | 1430000 A ² s | 32 W | 0.9 | – | – | – | – |
| 450 A | 191000 A ² s | 140 W | 0.85 | – | – | – | – |
| | 395000 A ² s | 90 W | 0.85 | – | – | – | – |
| 500 A | 276000 A ² s | 155 W | 0.85 | – | – | – | – |
| 600 A | 888000 A ² s | 150 W | 0.9 | – | – | – | 3NC5840 |
| 630 A | 888000 A ² s | 145 W | 0.9 | – | – | 3NC5841 | – |
| 710 A | 620000 A ² s | 150 W | 0.9 | – | 3NE6437-7 | – | – |
| | 923000 A ² s | 155 W | 0.95 | – | – | – | – |
| 800 A | 1728000 A ² s | 170 W | 0.9 | – | – | – | 3NC5838 |
| 900 A | 1920000 A ² s | 170 W | 0.9 | – | – | – | – |
| 1250 A | 2480000 A ² s | 210 W | 0.9 | 3NE9450-7 | – | – | – |

| For air-cooled rectifiers in electrolysis systems | | For mounting directly in the railway supply rectifier | | For SITOR 6QG12 thyristor sets | With installation bracket For SITOR 6QG10 thyristor sets | For SITOR 6QG11 thyristor sets |
|--|---|---|--|---|--|---|
| 89 mm | | | | 77 mm | | |
|  |  |  | |  |  |  |
| U_n AC 600 V | 900 V | U_n AC 680 V | | U_n AC 800 V | U_n AC 1000 V | U_n AC 1000 V |
| - | - | - | | - | - | 3NE4121-5 |
| - | - | - | | - | - | 3NE4146-5 |
| - | - | - | | - | 3NE3525-5 | - |
| - | - | - | | 3NE4327-6B | - | - |
| - | - | 3NC7327-2 | | - | - | - |
| - | - | - | | 3NE4330-6B | - | - |
| - | - | - | | - | - | - |
| - | - | 3NC7331-2 | | - | - | - |
| - | - | - | | 3NE4333-6B | - | - |
| - | - | - | | - | 3NE3535-5 | - |
| - | - | - | | 3NE4334-6B | - | - |
| - | - | - | | - | - | - |
| - | - | - | | - | - | - |
| - | 3NE6437 | - | | - | - | - |
| - | - | - | | 3NE4337-6 | - | - |
| - | - | - | | - | - | - |
| - | 3NE6444 | - | | - | - | - |
| 3NE9450 | - | - | | - | - | - |




SITOR semiconductor fuse links (LV HRC design)

DC fuses, operational class gR, with slotted blade contacts

| Size 2L | | | | |
|---|---------------------------------------|---------------------|---------------------------|-------------------|
| Screw fixing M12 | | | | |
|  | | | | |
| I_n | Operating value I^2t | Power loss P_V | Varying load factor WL | U_n DC 900 V |
| 400 A | 180000 A ² s ¹⁾ | 75 W | – | 3NB1234-3KK20 |

¹⁾ I^2t at U_{VSI} 1400 V is 240000 A²s

DC fuses, operational class aR, with slotted blade contacts

| | | | | | Size 1L | Size 2L | Size 3L | Size 2 × 3L | Size 3 × 3L |
|--------|---|---------------------|---------------------------|--------------------------------------|---|---|--|---|---|
| | | | | | Screw fixing M12 | | | | |
| | | | | |  |  |  |  |  |
| I_n | Operating value I^2t at U_{VSI} 1500 V ²⁾ | Power loss P_V | Varying load factor WL | U_n DC/ U_{VSI} 1250 V/1500 V | U_n DC/ U_{VSI} 1250 V/1500 V | U_n DC/ U_{VSI} 1250 V/1500 V | U_n DC/ U_{VSI} 1250 V/1500 V | U_n DC/ U_{VSI} 1250 V/1500 V | |
| 200 A | 39000 A ² s | 50 W | – | 3NB1126-4KK11 | – | – | – | – | |
| 250 A | 80500 A ² s | 51 W | – | 3NB1128-4KK11 | – | – | – | – | |
| 315 A | 129000 A ² s | 63 W | – | – | 3NB1231-4KK11 | – | – | – | |
| 400 A | 290000 A ² s | 68 W | – | – | 3NB1234-4KK11 | – | – | – | |
| 500 A | 600000 A ² s | 89 W | – | – | – | 3NB1337-4KK11 | – | – | |
| 800 A | 1910000 A ² s | 135 W | – | – | – | 3NB1345-4KK11 | – | – | |
| 800 A | 1150000 A ² s | 160 W | – | – | – | – | 3NB2345-4KK16 | – | |
| 1000 A | 2250000 A ² s | 195 W | – | – | – | – | 3NB2350-4KK16 | – | |
| 1400 A | 5100000 A ² s | 250 W | – | – | – | – | 3NB2355-4KK16 | – | |
| 1600 A | 7450000 A ² s | 275 W | – | – | – | – | 3NB2357-4KK16 | – | |
| 2100 A | 1195000 A ² s | 365 W | – | – | – | – | – | 3NB2364-4KK17 | |
| 2400 A | 18100000 A ² s | 445 W | – | – | – | – | – | 3NB2366-4KK17 | |

²⁾ I^2t at U_n 1250 V is reduced by the factor $k=0.79$.

SITOR semiconductor fuse links (cylindrical fuse design)

Cylindrical fuses, operational class gS

Size 22 × 127 mm



| I_n | Operating value I^2t | Power loss P_v | U_n AC/DC 1500/1000 V |
|-------|---------------------------|------------------|----------------------------|
| 1 A | 2 A ² s | 2 W | 3NC2301-0MK |
| 2 A | 4.4 A ² s | 2.5 W | 3NC2302-0MK |
| 4 A | 55 A ² s | 5.3 W | 3NC2304-0MK |
| 6 A | 150 A ² s | 6.4 W | 3NC2306-0MK |
| 10 A | 540 A ² s | 3.1 W | 3NC2310-0MK |
| 16 A | 1120 A ² s | 4.7 W | 3NC2316-0MK |
| 20 A | 2850 A ² s | 5.4 W | 3NC2320-0MK |
| 25 A | 3300 A ² s | 6.9 W | 3NC2325-0MK |
| 32 A | 9050 A ² s | 6.7 W | 3NC2332-0MK |

Further information

Catalog LV 10

For further currents
for operational class gR, see page 7/60
Operational class aR, see page 7/62

SITOR semiconductor fuse links (cylindrical fuse design)

Operational class gR

Size 10 × 38 mm






Size 14 × 51 mm



| I_n | Operating value I^2t | Power loss P_v | U_n AC/DC | | U_n AC/DC | | | |
|----------------------------|---------------------------|---------------------|-------------|-------------|-------------------------|-------------|-------------|-------------|
| | | | 690/440 V | 690/250 V | 690/700 V ¹⁾ | 690/600 V | 690/440 V | 690/250 V |
| 6 A | 3.5 A ² s | 3.1 W | – | – | 3NC1406-OMK | – | – | – |
| | 6.5 A ² s | 2.5 W | 3NC1006-OMK | – | – | – | – | – |
| 10 A | 15 A ² s | 4.6 W | – | – | 3NC1410-OMK | – | – | – |
| | 17 A ² s | 4.3 W | – | – | – | – | – | – |
| | 18 A ² s | 3.3 W | 3NC1010-OMK | – | – | – | – | – |
| 12 A | 35 A ² s | 4 W | 3NC1012-OMK | – | – | – | – | – |
| 16 A | 32 A ² s | 6.7 W | – | – | – | 3NC1416-OMK | – | – |
| | 45 A ² s | 6 W | 3NC1016-OMK | – | – | – | – | – |
| | 52 A ² s | 4.4 W | – | – | – | – | – | – |
| 20 A | 68 A ² s | 7.4 W | – | – | – | 3NC1420-OMK | – | – |
| | 90 A ² s | 6.5 W | – | – | – | – | – | – |
| | 110 A ² s | 7.8 W | – | 3NC1020-OMK | – | – | – | – |
| 25 A | 108 A ² s | 8.4 W | – | – | – | 3NC1425-OMK | – | – |
| | 120 A ² s | 9.5 W | – | – | – | – | – | – |
| | 140 A ² s | 8.7 W | – | 3NC1025-OMK | – | – | – | – |
| | 160 A ² s | 8.5 W | – | – | – | – | – | – |
| | 180 A ² s | 8.1 W | – | – | – | – | – | – |
| 32 A | 175 A ² s | 12.3 W | – | – | – | 3NC1432-OMK | – | – |
| | 220 A ² s | 12.3 W | – | – | – | – | – | – |
| | 400 A ² s | 8.9 W | – | – | – | – | – | – |
| | 420 A ² s | 9 W | – | – | – | – | – | – |
| | 450 A ² s | 12 W | – | 3NC1032-OMK | – | – | – | – |
| 40 A | 400 A ² s | 14.8 W | – | – | – | – | – | – |
| | 470 A ² s | 11.7 W | – | – | – | – | 3NC1440-OMK | – |
| | 600 A ² s | 11 W | – | – | – | – | – | – |
| | 700 A ² s | 12.5 W | – | – | – | – | – | – |
| | 1850 A ² s | 9.4 W | – | – | – | – | – | – |
| 50 A | 830 A ² s | 16.3 W | – | – | – | – | – | 3NC1450-OMK |
| | 980 A ² s | 17.5 W | – | – | – | – | – | – |
| | 1250 A ² s | 13.8 W | – | – | – | – | – | – |
| | 1250 A ² s | 15.2 W | – | – | – | – | – | – |
| 63 A | 2050 A ² s | 18.8 W | – | – | – | – | – | – |
| | 2400 A ² s | 17.5 W | – | – | – | – | – | – |
| 80 A | 4400 A ² s | 23 W | – | – | – | – | – | – |
| 100 A | 11500 A ² s | 28.7 W | – | – | – | – | – | – |
| Further information | | | | | | | | |
| Catalog LV 10 | | | – | – | – | – | – | – |

¹⁾ DC voltage according to UL

| Size 22 × 58 mm | | | | Size 22 × 127 mm | With M8 bolt-on links Size 18 × 88 mm | Size 26 × 103 mm |
|--|-------------|-------------|-------------|--|--|---|
|  | | | |  |  |  |
| U _n AC/DC 690/700 V ¹⁾ | 690/600 V | 690/440 V | 690/250 V | U _n AC/DC 1500/1000 V | U _n AC/DC 690/440 V | U _n AC/DC 690/440 V |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC1810-OMK | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC1816-OMK | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC1820-OMK | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3NC2625-OMK |
| - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC1825-OMK | - |
| 3NC2225-OMK | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3NC2632-OMK |
| - | - | - | - | - | 3NC1832-OMK | - |
| - | 3NC2232-OMK | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3NC2640-OMK |
| - | - | - | - | - | - | - |
| - | - | - | - | - | 3NC1840-OMK | - |
| - | - | 3NC2240-OMK | - | - | - | - |
| - | - | - | - | 3NC2340-OMK | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | 3NC2650-OMK |
| - | - | - | - | - | 3NC1850-OMK | - |
| - | - | - | 3NC2250-OMK | - | - | - |
| - | - | - | - | - | - | 3NC2663-OMK |
| - | - | - | 3NC2263-OMK | - | - | - |
| - | - | - | 3NC2280-OMK | - | - | - |
| - | - | - | 3NC2200-OMK | - | - | - |
| - | - | - | - | For further currents for operational class gG, see page 7/59 Operational class aR, see page 7/62 | - | - |

SITOR semiconductor fuse links (cylindrical fuse design)

Operational class aR

Size 10 × 38 mm¹⁾

Size 14 × 51 mm

Standard



With striking pin



| I _n | Operating value I ² t | Power loss P _v | U _n AC/DC 600/700 V ²⁾ | | U _n AC/DC 660/- V | | | U _n AC/DC 690/600 V ¹⁾ |
|----------------|----------------------------------|---------------------------|--|---------|------------------------------|-------------------------|-------------|--|
| | | | 600/- V | 600/- V | 660/- V | 690/700 V ²⁾ | 690/250 V | 690/600 V ¹⁾ |
| 1 A | 1.2 A ² s | 5 W | - | - | 3NC1401 | - | - | - |
| 2 A | 10 A ² s | 3 W | - | - | 3NC1402 | - | - | - |
| 3 A | 8 A ² s | 1.2 W | 3NC1003 | - | - | - | - | - |
| | 15 A ² s | 2.5 W | - | - | 3NC1403 | - | - | - |
| 4 A | 25 A ² s | 3 W | - | - | 3NC1404 | - | - | - |
| 5 A | 11 A ² s | 1.5 W | - | - | - | 3NC1405 | - | - |
| 6 A | 11 A ² s | 1.5 W | - | - | - | 3NC1406 | - | - |
| | 20 A ² s | 1.5 W | 3NC1006 | - | - | - | - | - |
| 8 A | 30 A ² s | 2 W | 3NC1008 | - | - | - | - | - |
| 10 A | 22 A ² s | 4 W | - | - | - | 3NC1410 | - | - |
| | 32 A ² s | 4 W | - | - | - | - | - | 3NC1410-5 |
| | 60 A ² s | 2.5 W | 3NC1010 | - | - | - | - | - |
| 12 A | 110 A ² s | 3 W | 3NC1012 | - | - | - | - | - |
| 15 A | 63 A ² s | 5.5 W | - | - | - | - | - | 3NC1415-5 |
| | 70 A ² s | 5.5 W | - | - | - | 3NC1415 | - | - |
| 16 A | 150 A ² s | 3.5 W | 3NC1016 | - | - | - | - | - |
| 20 A | 100 A ² s | 6 W | - | - | - | 3NC1420 | - | - |
| | 200 A ² s | 4.8 W | 3NC1020 | - | - | - | - | - |
| | 220 A ² s | 4.6 W | - | - | - | - | - | - |
| | 234 A ² s | 6 W | - | - | - | - | - | 3NC1420-5 |
| | 240 A ² s | 5 W | - | - | - | - | - | - |
| 25 A | 250 A ² s | 6 W | 3NC1025 | - | - | - | - | - |
| | 300 A ² s | 5.6 W | - | - | - | - | - | - |
| | 320 A ² s | 7 W | - | - | - | 3NC1425 | - | - |
| | 350 A ² s | 6 W | - | - | - | - | - | - |
| | 378 A ² s | 7 W | - | - | - | - | - | 3NC1425-5 |
| 30 A | 400 A ² s | 9 W | - | - | - | 3NC1430 | - | - |
| | 466 A ² s | 9 W | - | - | - | - | - | 3NC1430-5 |
| 32 A | 450 A ² s | 7 W | - | - | - | - | - | - |
| | 500 A ² s | 7.5 W | - | 3NC1032 | - | - | - | - |
| | 500 A ² s | 8 W | - | - | - | - | - | - |
| | 600 A ² s | 7.6 W | - | - | - | 3NC1432 | - | 3NC1432-5 |
| 40 A | 700 A ² s | 8.5 W | - | - | - | - | - | - |
| | 750 A ² s | 8 W | - | - | - | 3NC1440 | - | 3NC1440-5 |
| | 800 A ² s | 9 W | - | - | - | - | - | - |
| 50 A | 1350 A ² s | 9.5 W | - | - | - | - | - | - |
| | 1500 A ² s | 9.5 W | - | - | - | - | - | - |
| | 1800 A ² s | 9 W | - | - | - | 3NC1450 | - | 3NC1450-5 |
| | 26000 A ² s | 11.6 W | - | - | - | - | - | - |
| 63 A | 2100 A ² s | 16.7 W | - | - | - | - | 3NC1463-0MK | - |
| | 2600 A ² s | 11 W | - | - | - | - | - | - |
| | 3000 A ² s | 11 W | - | - | - | - | - | - |
| 80 A | 3500 A ² s | 22.5 W | - | - | - | - | - | - |
| | 5500 A ² s | 13.5 W | - | - | - | - | - | - |
| | 6000 A ² s | 13.5 W | - | - | - | - | - | - |
| 100 A | 5400 A ² s | 31.5 W | - | - | - | - | - | - |
| | 8000 A ² s | 16 W | - | - | - | - | - | - |
| | 8500 A ² s | 16 W | - | - | - | - | - | - |
| 125 A | 11800 A ² s | 39 W | - | - | - | - | - | - |
| | 29000 A ² s | 35.3 W | - | - | - | - | - | - |

Further information

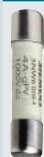
Catalog LV 10

¹⁾ Observe DC voltage acc. to UL, time constant and minimum breaking current MBC²⁾ CCC approval

Photovoltaic cylindrical fuse links

Operational class gPV

Size 10 × 38 mm



Size 10 × 85 mm



| I _n DC | Power loss P _v | | U _n DC | | |
|-------------------|---------------------------|-------|-------------------|-----------|-----------|
| | | | 1000 V | 1200 V | 1500 V |
| 2 A | 1.4 W | 0.6 W | 3NW6002-4 | – | – |
| | 2.7 W | 1.1 W | – | – | 3NW6604-4 |
| 4 A | 1.6 W | 0.7 W | 3NW6004-4 | – | – |
| | 3.0 W | 1.2 W | – | – | 3NW6601-4 |
| 6 A | 1.7 W | 0.7 W | 3NW6001-4 | – | – |
| | 3.6 W | 1.5 W | – | – | 3NW6608-4 |
| 8 A | 1.9 W | 0.8 W | 3NW6008-4 | – | – |
| | 3.7 W | 1.6 W | – | – | 3NW6603-4 |
| 10 A | 2.3 W | 1.0 W | 3NW6003-4 | – | – |
| | 3.3 W | 1.4 W | – | – | 3NW6606-4 |
| 12 A | 2.7 W | 1.1 W | 3NW6006-4 | – | – |
| | 3.7 W | 1.6 W | – | – | 3NW6605-4 |
| 16 A | 3.2 W | 1.3 W | 3NW6005-4 | – | – |
| | 4.0 W | 1.7 W | – | 3NW6607-4 | – |
| 20 A | 3.4 W | 1.4 W | 3NW6007-4 | – | – |

¹⁾ Tested in fuse holders 3NW7013-4 and 3NW7613-4.

Class CC fuse links

Acc. to UL




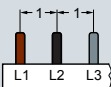
| | | Characteristic: Slow | Characteristic: Slow, current-limiting | Characteristic: Quick |
|-------|---------------------|---|---|---|
| | |  |  |  |
| I_n | I_n ¹⁾ | | | |
| 0.6 A | 6/10 A | 3NW1006-OHG | – | – |
| 0.8 A | 8/10 A | 3NW1008-OHG | – | – |
| 1 A | – | 3NW1010-OHG | 3NW3010-OHG | 3NW2010-OHG |
| 1.5 A | 1 ½ A | 3NW1015-OHG | – | – |
| 2 A | – | 3NW1020-OHG | 3NW3020-OHG | 3NW2020-OHG |
| 2.5 A | – | 3NW1025-OHG | – | – |
| 3 A | – | 3NW1030-OHG | 3NW3030-OHG | 3NW2030-OHG |
| 4 A | – | 3NW1040-OHG | 3NW3040-OHG | 3NW2040-OHG |
| 5 A | – | 3NW1050-OHG | 3NW3050-OHG | 3NW2050-OHG |
| 6 A | – | 3NW1060-OHG | 3NW3060-OHG | 3NW2060-OHG |
| 7.5 A | – | 3NW1075-OHG | – | – |
| 8 A | – | 3NW1080-OHG | 3NW3080-OHG | 3NW2080-OHG |
| 10 A | – | 3NW1100-OHG | 3NW3100-OHG | 3NW2100-OHG |
| 12 A | – | – | 3NW3120-OHG | 3NW2120-OHG |
| 15 A | – | 3NW1150-OHG | 3NW3150-OHG | 3NW2150-OHG |
| 20 A | – | 3NW1200-OHG | 3NW3200-OHG | 3NW2200-OHG |
| 25 A | – | 3NW1250-OHG | 3NW3250-OHG | 3NW2250-OHG |
| 30 A | – | 3NW1300-OHG | 3NW3300-OHG | 3NW2300-OHG |

¹⁾ American English wording

Busbars



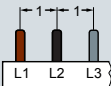
According to IEC and UL, can be cut

Pin spacing 1 MW

| Pin spacing in MW (1 MW = 18 mm) | Application | Length | Version | Conductor cross-section | Article No. |
|--|---|---------|------------------|----------------------------|-------------|
| Single-phase | | | | | |
|  | For MINIZED D01 fuse switch disconnectors | 220 mm | With end caps | 16 mm ² | 5ST2186 |
| | | 1000 mm | Without end caps | 16 mm ² | 5ST2190 |
| Single-phase, angled | | | | | |
|  | For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders | 214 mm | With end caps | 16 mm ² | 5ST3700 |
| | | 1016 mm | Without end caps | 16 mm ² | 5ST3701 |
| | | | | | |
| Two-phase | | | | | |
|  | For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders | 214 mm | With end caps | 16 mm ² | 5ST3704 |
| | | 1016 mm | Without end caps | 16 mm ² | 5ST3705 |
| | For MINIZED D01 fuse switch disconnectors | 220 mm | With end caps | 16 mm ² | 5ST2187 |
| | | 1000 mm | Without end caps | 16 mm ² | 5ST2191 |
| Three-phase | | | | | |
|  | For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders | 214 mm | With end caps | 16 mm ² | 5ST3708 |
| | | 1016 mm | Without end caps | 16 mm ² | 5ST3710 |
| | For MINIZED D01 fuse switch disconnectors | 220 mm | With end caps | 16 mm ² | 5ST2188 |
| | | 1000 mm | Without end caps | 16 mm ² | 5ST2192 |



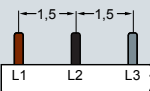
According to UL 508, can be cut

Pin spacing 1 MW

| Pin spacing in MW (1 MW = 18 mm) | Application | Length | Version | Conductor cross-section | Article No. |
|---|---|---------|------------------|----------------------------|-------------|
| Single-phase | | | | | |
|  | For Class CC fuse holders 10 × 38 mm (3NC1091, 3NW7513-0HG) | 1000 mm | Without end caps | 18 mm ² | 5ST3701-0HG |
| Two-phase | | | | | |
|  | For Class CC fuse holders 10 × 38 mm (3NC1092, 3NW7523-0HG) | 1000 mm | Without end caps | 18 mm ² | 5ST3705-0HG |
| Three-phase | | | | | |
|  | For Class CC fuse holders 10 × 38 mm (3NC1093, 3NW7533-0HG) | 1000 mm | Without end caps | 18 mm ² | 5ST3710-0HG |

According to IEC and UL, can be cut



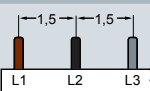
Pin spacing 1.5 MW

| Pin spacing in MW (1 MW = 18 mm) | Application | Length | Version | Conductor cross-section | Article No. |
|---|--|---------|---------------------------------|----------------------------|-------------|
| Single-phase | | | | | |
|  | For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30 | 1000 mm | Without end caps, non-insulated | 36 mm ² | 5SH5322 |
| Single-phase, angled | | | | | |
|  | For MINIZED D02 switch disconnectors 5SG71.3 For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01 / D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm | 1016 mm | Without end caps | 16 mm ² | 5ST3703 |
| Three-phase | | | | | |
|  | For MINIZED D02 switch disconnectors 5SG71.3 For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01 / D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm | 1016 mm | Without end caps | 16 mm ² | 5ST3714 |
| | For NEOZED D01 / D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30 For NEOZED D01 / D02 fuse bases made of ceramic with clamp-type terminals and screw head contacts | 1000 mm | Without end caps | 16 mm ² | 5SH5320 |

7

According to UL 508, can be cut

Pin spacing 1.5 MW

| Pin spacing in MW (1 MW = 18 mm) | Application | Length | Version | Conductor cross-section | Article No. |
|--|--|---------|------------------|--|----------------------------|
| 1-phase | | | | | |
|  | For fuse holders 14 × 51 mm (3NC1491, 3NW7111) | 1000 mm | Without end caps | 18 mm ² 25 mm ² | 5ST3703-0HG 5ST3701-2HG |
| Two-phase | | | | | |
|  | For fuse holders 14 × 51 mm (3NC1492, 3NW7121) | 1000 mm | Without end caps | 25 mm ² | 5ST3705-2HG |
| 3-phase | | | | | |
|  | For fuse holders 14 × 51 mm (3NC1493, 3NW7131) | 1000 mm | Without end caps | 18 mm ² 25 mm ² | 5ST3714-0HG 5ST3710-2HG |

Busbars

Accessories

For busbars according to IEC

| Terminals | | | |
|---|---|--------------------------|------------------------|
|  | <ul style="list-style-type: none"> For NEOZED D01/D02 fuse bases made of ceramic For DIAZED DII/DIII fuse bases made of ceramic | | |
| | Terminal version | Conductor cross-section | Article No. |
| | Terminal version S | 2 ... 25 mm ² | 5SH5327 |
|  | Terminal versions B and K | 6 ... 25 mm ² | 5SH5328 |
| | Bus-mounting terminal | | |
|  | <ul style="list-style-type: none"> For DIAZED EZR bus-mounting bases Non-insulated | | |
| | Conductor cross-section | Article No. | |
| | 1.5 ... 16 mm ² | 8JH4122 | |
| 10 ... 35 mm ² | 8JH4124 | | |
| Touch protection | | | |
|  | <ul style="list-style-type: none"> For free connections, yellow (RAL 1004) 5 × 1 pin | | |
| | | | Article No. 5ST3655 |
| End caps | | | |
|  | Version | For bar type | Article No. |
| | For single-phase busbars | 5ST2190 | 5ST2196 |
| | | 5ST37 and 5SH55 | 5ST3748 |
| For two-phase and three-phase busbars | 5ST2191 and 5ST2192 | | 5ST2197 |
| | 5ST37 and 5SH5320 | | 5ST3750 |

For busbars according to UL 508

Terminals according to UL 508



| Version | Infeed | Article No. |
|--------------------------------|--------|-------------|
| For busbars 35 mm ² | Device | 5ST3770-0HG |
| For busbars 30 mm ² | Busbar | 5ST3770-1HG |

Busbar touch protection according to UL 508



- For free connections, yellow (RAL 1004) 5 × 1 pin

| Article No. |
|-------------|
| 5ST3655-0HG |

End caps for 5ST37. ..HG



| Version | Article No. |
|----------------------------------|-------------|
| For single-phase busbars | 5ST3748-0HG |
| For two- and three-phase busbars | 5ST3750-0HG |

LV HRC signal detectors, electronic fuse monitoring

LV HRC signal detectors



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND with non-insulated grip lugs
- Rated voltage of up to 690 V AC / 600 V DC
- Contact: Microswitches 250 V AC, 6 A
- Connection: Flat termination 2.3 mm

| Fuse size | Article No. |
|-----------|-------------|
| 000 ... 4 | 3NX1021 |

Signal detector links



- Rated voltage of up to 690 V AC / 600 V DC

| Fuse size | Response value | Application | Article No. |
|-----------|----------------|---------------------------|-------------|
| 000 ... 4 | >9 V / 2.5 A | For standard applications | 3NX1022 |
| | >2 V / 7 A | Only for meshed networks | 3NX1023 |

Signal detector tops



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND with non-insulated grip lugs
- Rated voltage of up to 690 V AC / 600 V DC
- Contact: Microswitch 230 V AC, 5 A, 1 CO
- Connection: Flat termination 2.3 mm

| Fuse size | Article No. |
|---------------|-------------|
| 000, 00, 1, 2 | 3NX1024 |

Electronic fuse monitor



- For all low-voltage fuse systems
- For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- Signal also for disconnected loads

| U_e AC | I_n | U_c | Article No. |
|----------|-------|--------------------|-------------|
| 230 V | 4 A | 3 AC 380 ... 415 V | 5TT3170 |

Electronic fuse monitoring for remote display of tripped fuses



- Remote display by auxiliary contact (1 CO)
- Local detection by integrated LED
- For all sizes
- For 3KF LV HRC and 3KF SITOR

| U_e AC | I_n | U_c | Article No. |
|----------|-------|------------|---------------|
| 230 V | 1.5 A | 3 AC 690 V | 3KF9010-1AA00 |

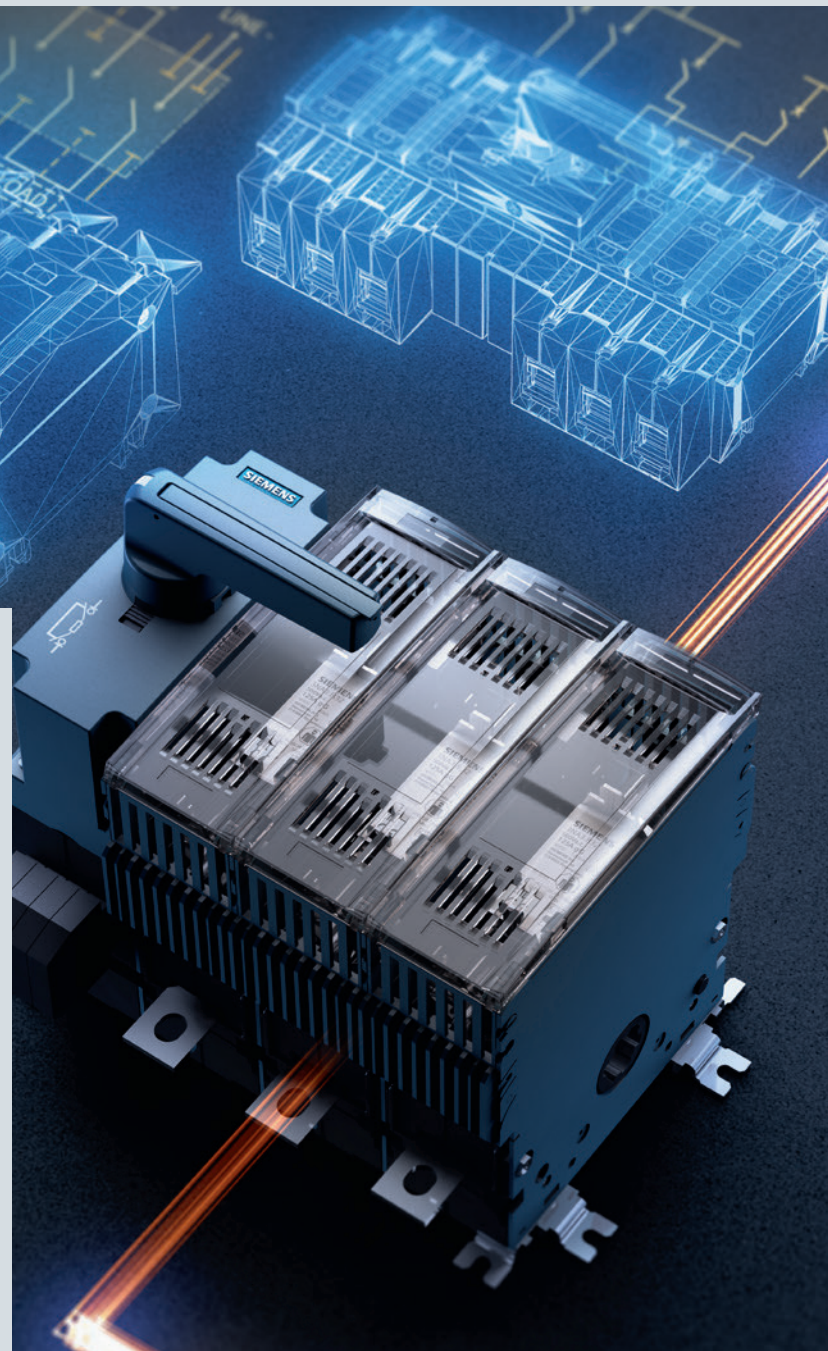
End-to-end safety for user and systems

Assembly or maintenance: work on electrical installations and devices must be made sufficiently safe to prevent accidents or harm. The safety of the operating personnel is paramount.

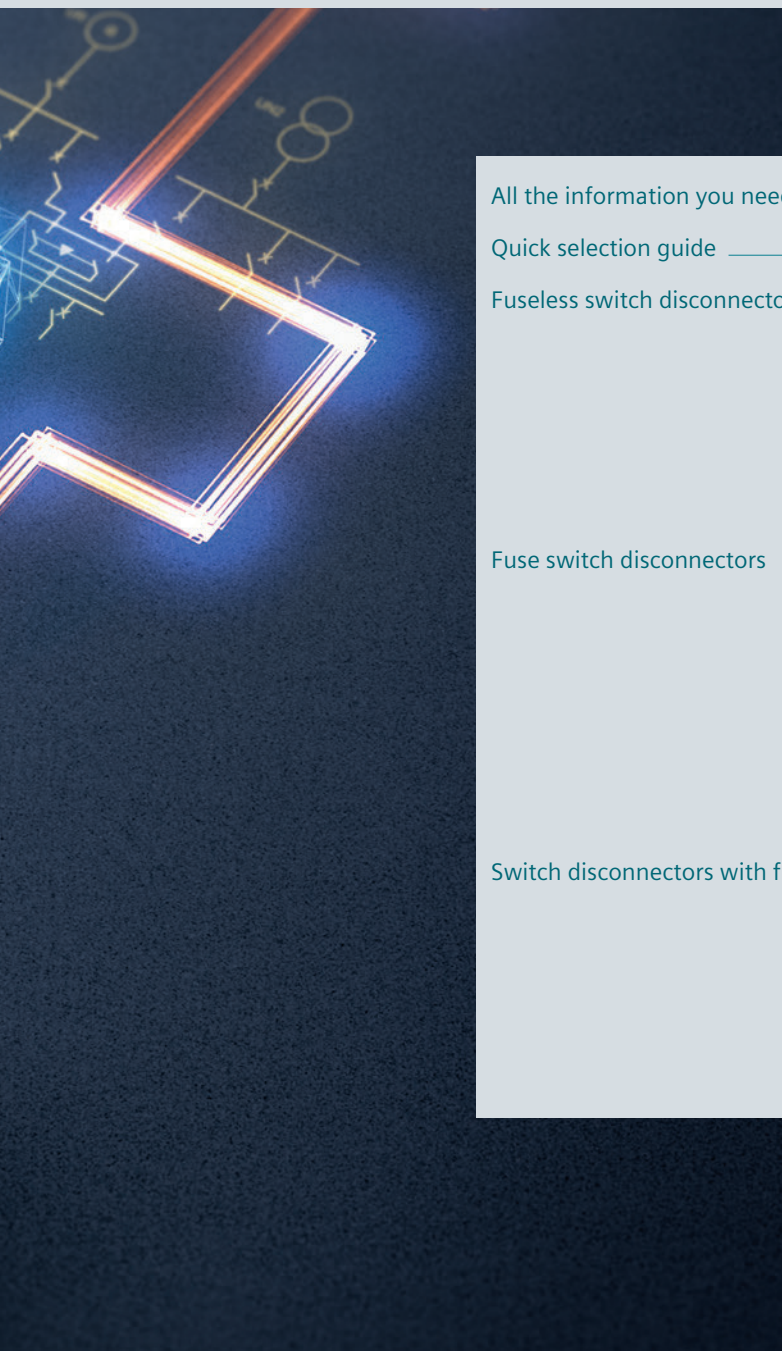
To ensure this, it is necessary to be able to disconnect the installation safely from the power supply. Siemens switch disconnectors permit permanent switch-on and switch-off under a load and thus protect the user from electric shock. They also prevent unauthorized switching on of machines.

The devices are simply mounted and quickly commissioned. Additional functions can be retrofitted at any time – thanks to the modular design of the devices and a comprehensive range of accessories.

Convenient ordering processes and fast delivery optimize stock management and reduce the time and money expended. You can also make use of our CAx data for automated, simplified planning and configuring.



Switch Disconnectors



| | |
|---------------------------------------|-------|
| All the information you need | 8/2 |
| Quick selection guide | 8/4 |
| Fuseless switch disconnectors | 8/6 |
| Quick selection guide | 8/6 |
| 3LD switch disconnectors | 8/10 |
| 3KD switch disconnectors | 8/62 |
| 5TE1 switch disconnectors | 8/76 |
| Fuse switch disconnectors | 8/78 |
| Quick selection guide | 8/78 |
| 3NP1 fuse switch disconnectors | 8/80 |
| 3NP5 fuse switch disconnectors | 8/94 |
| 3NJ4 fuse switch disconnectors | 8/98 |
| 5SG76 fuse switch disconnectors | 8/110 |
| Switch disconnectors with fuses | 8/112 |
| Quick selection guide | 8/112 |
| 3KF switch disconnectors with fuses | 8/116 |
| 3NJ62 switch disconnectors with fuses | 8/132 |
| 5SG switch disconnectors with fuses | 8/144 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about switch disconnectors, please visit our website
www.siemens.com/switching-devices

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technical basic information – Switch disconnectors and transfer switching equipment (**109763354**)

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Configurators

Exactly the right switch disconnecter for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations.

Configure your 3NJ62 switch disconnecter at www.siemens.com/lowvoltage/3nj62-configurator and your 3NP1 fuse switch disconnecter at www.siemens.com/lowvoltage/3np1-configurator

Choose the right SITOR semiconductor fuse for your application
www.siemens.com/lowvoltage/sitor-configurator

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Switching devices
sie.ag/2mryctm

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

You will find order support for the electrical wholesale trade carrying fast-selling items in the Siemens Industry Online Support at
www.siemens.com/lowvoltage/catalogs

- Order support – 3KD switch disconnectors – End-to-end safety for user and systems (**109750228**)
- Order support – 3LD2 main control and EMERGENCY-STOP-switching equipment – End-to-end safety for user and systems (**109755626**)
- Order support – 3NP1 fuse switch disconnectors – End-to-end safety for user and systems (**109755624**)
- Order support – 3KF switch disconnectors with fuses – End-to-end safety for user and systems (**109750229**)
- Order support – 3NJ6 switch disconnectors with fuses – End-to-end safety for user and systems (**109755619**)

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Switch disconnectors ([109769744](#))
- Configuration manual – Fuse systems ([45314810](#))
- Configuration manual – Transfer switching equipment and load transfer switches ([109769745](#))
- Configuration manual – Busbar systems ([109769746](#))
- System manual – SENTRON 3NJ62 In-Line Plug-In switch disconnectors with fuses ([31753460](#))
- Equipment manual – 3KD switch disconnectors ([109758120](#))
- System manual – SENTRON 3NP1 fuse switch disconnectors ([33515690](#))

Technical overview – Switch disconnectors



The fast way to get you to our online services

This page provides you with comprehensive information and links on switch disconnectors

www.siemens.com/lowvoltage/product-support ([109764946](#))

Quick selection guide

Load switching devices for all applications



Fuseless switch disconnectors³⁾

Functional switching¹⁾



| | | Type | 3LD3 | 3LD2 | 3LD5 UL new | 3KD | 3VA | 5TE |
|--|---|------------------------------|-------------|--------------------|--------------------|--------------------|-------------------------|---------------|
| | | Rated current I _n | 16 ... 63 A | 16 ... 250 A | 30 ... 160A | 16 ... 2000 A | 63 ... 630 A | 100 ... 200 A |
| | | Short-circuit current max. | 6 kA | 50 kA | 50 kA | 100 kA | 110 kA ⁵⁾ | 33 kA |
| Selection acc. to utilization category | AC max. | | AC-3 | AC-3 | AC-3 | AC-23A | AC-23A | AC-23A |
| | DC max. | | – | DC-22A | – | DC-23A | DC-23A (up to 250 A) | DC-23A |
| | | Suitable fuses | – | – | – | – | – | – |
| Types of mounting | Floor mounting | | ■ | ■ | ■ | ■ | ■ | – |
| | Mounting on a standard mounting rail | | ■ | ■ (up to 125 A) | ■ (up to 30 A) | ■ (up to 250 A) | ■ (up to 160 A) | ■ |
| | Front mounting (e.g. in panel door) | | ■ | ■ | ■ | – | – | – |
| | Mounting on busbar systems (spacing of the busbars) | | – | – | – | – | ■ | – |
| | Draw-out technology | | – | – | – | – | ■ | – |
| Methods of operation | Manual from the front | | ■ | ■ | ■ | ■ | ■ | ■ |
| | Manual from the side | | – | – | – | ■ | ■ | – |
| | Remote-controllable | | – | – | – | – | ■ | – |
| Number of poles | 1-pole | | – | – | – | – | – | – |
| | 2-pole | | – | – | – | – | – | ■ |
| | 3-pole | | ■ | ■ | ■ | ■ | ■ | ■ |
| | 4-pole | | ■ | ■ | ■ | ■ | ■ | ■ |
| | 6-pole | | – | ■ | – | ■ | – | – |
| Switching function | All poles | | ■ | ■ | ■ | ■ | ■ | ■ |
| | Individual poles switchable | | – | – | – | – | – | – |

More information

from page 8/10

¹⁾ According to DIN VDE 0100-200, functional switching is an operation intended to switch on or off or vary the supply of electric energy to an electrical installation or parts of it for normal operating purposes.

²⁾ Devices for occasional switching usually have a substantially lower electrical endurance and are switched no more than 1× per minute in the tests.

³⁾ Pure switching without protection function



Fuse switch disconnectors ⁴⁾

Occasional switching ²⁾



| 3NP1 | 3NP5 | 3NJ4 | 5SG76 |
|---------------|---------------|----------------|--------|
| 160 ... 630 A | 160 ... 630 A | 160 ... 1600 A | 16 A |
| 120 kA | 100 kA | 120 kA | 50 kA |
| AC-23B | AC-23B | AC-23B | AC-22A |
| DC-23B | DC-23B | - | - |
| IEC LV HRC | IEC LV HRC | IEC LV HRC | Neozed |
| ■ | ■ | - | - |
| ■ | - | - | ■ |
| - | - | - | - |
| 40/60 mm | 40/60 mm | 60/100/185 mm | - |
| - | - | - | - |
| ■ | ■ | ■ | ■ |
| - | - | - | - |
| - | - | - | - |
| ■ | - | - | ■ |
| ■ | - | - | ■ |
| ■ | ■ | ■ | ■ |
| ■ | - | - | ■ |
| - | - | - | - |
| ■ | ■ | ■ | ■ |
| - | - | ■ | - |

from page 8/80



Switch disconnectors with fuse ⁴⁾

Functional switching ¹⁾

Occasional switching ²⁾



| 3KF LV HRC | 3KF SITOR | 3NJ62 | 5SG71/72 |
|--------------|--|---------------|----------|
| 32 ... 800 A | 32 ... 800 A | 63 ... 630 A | 63 A |
| 100 kA | 100 kA | 100 kA | 50 kA |
| AC-23A | AC-23A | AC-23B | AC-23A |
| DC-23A | DC-23A | DC-23B | DC-22B |
| IEC LV HRC | IEC LV HRC, optimized for semiconductor protection | IEC LV HRC/BS | Neozed |
| ■ | ■ | - | - |
| ■ | ■ | - | ■ |
| - | - | - | - |
| - | - | 185 mm | 60 mm |
| - | - | ■ | - |
| ■ | ■ | ■ | ■ |
| ■ | ■ | - | - |
| - | - | ■ | - |
| - | - | - | ■ |
| ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ |
| - | - | - | - |
| ■ | ■ | ■ | ■ |
| - | - | - | - |

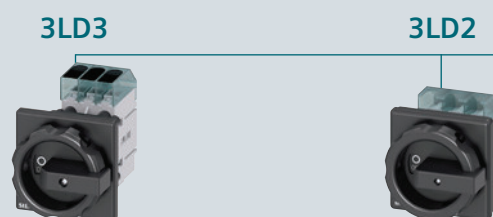
from page 8/116

⁴⁾ The suitable fuses protect persons, motors, installations and generators against short circuit and overload

⁵⁾ With a line-side fuse for 415 V

Fuseless switch disconnectors

Quick selection guide



| Type | | 3LD30 | 3LD31 | 3LD32 | 3LD33 | 3LD34 | 3LD20 | 3LD21 | 3LD22 | |
|--|--------------------------------------|---------------------------|-------|-------|-------|-------|---------------|-------|-------|------|
| General technical specifications acc. to IEC 60947-3 | | | | | | | | | | |
| General technical specifications | | | | | | | | | | |
| Rated uninterrupted current I_u | A | 16 | 25 | 32 | 40 | 63 | 16 | 25 | 32 | |
| Rated operational voltage U_e | At 50/60 Hz AC | V | | | | | 690 | | | |
| | At DC – 2 conducting paths in series | V | | | | | – | | | |
| | At DC – 3 conducting paths in series | V | | | | | – | | | |
| | At DC – 4 conducting paths in series | V | | | | | – | | | |
| Operating and short-circuit behavior | | | | | | | | | | |
| Rated operational current I_e ¹⁾ | At AC-20A AC-20B at 1000 V | A | – | – | – | – | – | – | – | |
| | At AC-21A AC-21B at 400 V | A | 16 | 25 | 32 | 40 | 63 | 16 | 25 | 32 |
| | At AC-21A AC-21B at 690 V | A | 16 | 25 | 32 | 40 | 63 | 16 | 25 | 32 |
| | At AC-22A AC-22B at 400 V | A | 16 | 20 | 22 | 36 | 43 | 16 | 25 | 32 |
| | At AC-22A AC-22B at 690 V | A | 9 | 11 | 13 | 17 | 22 | 16 | 25 | 32 |
| | At AC-22A AC-22B at 1000 V | A | – | – | – | – | – | – | – | – |
| | At AC-23A AC-23B at 400 V | A | 16 | 20 | 22 | 36 | 43 | 16 | 20 | 22 |
| | At AC-23A AC-23B at 690 V | A | 9 | 11 | 13 | 17 | 22 | 9 | 11 | 13 |
| | At DC-20A DC-20B at 1000 V | A | – | – | – | – | – | – | – | – |
| | At DC-21A DC-21B at 110 V | A | – | – | – | – | – | – | – | – |
| | At DC-21A DC-21B at 220 V | A | – | – | – | – | – | – | – | – |
| | At DC-21A DC-21B at 440 V | A | – | – | – | – | – | – | – | – |
| | At DC-22A DC-22B at 220 V | A | – | – | – | – | – | – | – | – |
| | At DC-22A DC-22B at 440 V | A | – | – | – | – | – | – | – | – |
| | At DC-23A DC-23B at 220 V | A | – | – | – | – | – | – | – | – |
| | At DC-23A DC-23B at 440 V | A | – | – | – | – | – | – | – | – |
| | Motor switching capacity | At AC-23A AC-23B at 400 V | kW | 7.5 | 9.5 | 11.5 | 18.5 | 22 | 7.5 | 9.5 |
| At AC-23A AC-23B at 690 V | | kW | 7.5 | 9 | 11.5 | 15 | 18.5 | 7.5 | 9.5 | 11.5 |
| At AC-3 bei 400 V | | kW | 5.5 | 7.5 | 9.5 | 11.5 | 18.5 | 5.5 | 7.5 | 9.5 |
| At AC-3 bei 690 V | | kW | 5.5 | 7.5 | 9.5 | 11.5 | 15 | 5.5 | 7.5 | 9.5 |
| Rated short-time withstand current I_{cw} | At 690 V AC (t=1 s) | kA | 0.5 | 0.5 | 0.5 | 1 | 1 | 0.34 | 0.64 | 0.64 |
| | At 1000 V AC (t=1 s) | kA | – | – | – | – | – | – | – | – |
| Rated conditional short-circuit current with upstream fuse | At 400/415 V AC | kA | 6 | 6 | 6 | 6 | 6 | 50 | 50 | 50 |
| | At 690 V AC | kA | 6 | 6 | 6 | 6 | 6 | 50 | 50 | 50 |
| Degree of protection | | | | | | | | | | |
| Maximum achievable IP degree of protection (with a rotary operating mechanism) | | IP65 | | | | | IP65 | | | |
| General technical specifications acc. to UL | | | | | | | | | | |
| General technical specifications | | | | | | | | | | |
| Certification according to UL standard | | UL 508 | | | | | UL 508 | | | |
| I_n acc. to UL 508 UL489 | A | 16 – | 25 – | 32 – | 40 – | 63 – | 16 – | 25 – | 32 – | |
| U_e acc. to UL 508 UL489 | V AC | 600 – | | | | | 600 – | | | |
| Operating and short-circuit behavior | | | | | | | | | | |
| Operational power, three-phase | At 480 V | hp | 7.5 | 10 | 20 | 20 | 25 | 7.5 | 10 | 20 |
| | At 600 V | hp | 10 | 15 | 20 | 20 | 30 | 10 | 15 | 20 |
| Short circuit current rating (SCCR) | At 480 V at 600 V | kA | 5 5 | | | | 5 5 | 5 5 | 5 5 | |
| Upstream fuse according to UL | | RK5 | | | | | RK5 | | | |
| More information | | | | | | | | | | |
| Catalog LV 10 04/2020 | | see page 8/10 | | | | | see page 8/20 | | | |

3LD2



3LD5 UL **new**



5TE



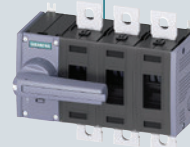
| 3LD25 | 3LD27 | 3LD28 | 3LD23 | 3LD24 | 3LD50 | 3LD52 | 3LD56 | 3LD58 | 5TE1.1 | 5TE1.2 | 5TE1.3 | 5TE1.4 |
|---------------|-------|-------|-------|-------|---------------|---------|---------|---------|---------------|--------|--------|--------|
| 63 | 100 | 125 | 160 | 250 | 32 | 100 | 125 | 160 | 100 | 125 | 160 | 200 |
| | | 690 | | | | 690 | | | 690 | 690 | 690 | 690 |
| | | - | | | | - | | | 110 | 110 | 110 | 110 |
| | | - | | | | - | | | - | - | - | - |
| | | - | | | | - | | | 220 | 220 | 220 | 220 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 63 | 100 | 125 | 160 | 250 | 32 | 100 | 125 | 160 | 100 | 100 | 160 | 200 |
| 63 | 100 | 125 | 160 | 250 | 32 | 100 | 125 | 160 | 100 | 100 | 160 | 200 |
| 63 | 100 | 125 | 140 | 230 | 32 | 100 | 125 | 160 | - | - | - | - |
| 63 | 100 | 125 | 140 | 230 | 32 | 100 | 125 | 160 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 43 | 70 | 80 | 132 | 224 | 32 | 100 | 125 | 160 | 80 | 80 | 125 | 125 |
| 22 | 34 | 39 | 47 | 58 | 22 | 39 | 47 | 58 | 40 | 40 | 63 | 80 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 100 | 100 | 160 | 160 |
| - | - | - | - | - | - | - | - | - | 100 | 100 | 160 | 160 |
| - | - | - | - | - | - | - | - | - | 100 | 100 | 160 | 160 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | 100 | 100 | 160 | 160 |
| 22 | 37 | 45 | 75 | 132 | 15 | 45 | 55 | 75 | 44 | 44 | 69 | 88 |
| 18.5 | 30 | 37 | 45 | 55 | 18.5 | 37 | 45 | 55 | 36 | 36 | 60 | 76 |
| 18.5 | 30 | 37 | 50 | 110 | 15 | 45 | 55 | 75 | - | - | - | - |
| 15 | 22 | 30 | 37 | 45 | 15 | 30 | 37 | 45 | - | - | - | - |
| 1.26 | 2 | 2 | 4 | 4 | 1.26 | 4 | 4 | 4 | 2.5 | 2.5 | 3 | 3 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50 | 50 | 25 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 50 | 50 | 25 | 50 | 50 | 50 | 50 | 50 | 30 | 33 | 33 | 33 | 33 |
| IP65 | | | | | IP65 | | | | No info. | | | |
| UL 508 | | | | | UL508 / UL489 | | | | UL 508 | | | |
| 63 - | 100 - | 125 - | 160 - | 250 - | 30 30 | 100 100 | 125 125 | 150 150 | - | 80 - | 100 - | 125 - |
| | | 600 - | | | | 480 480 | | | - | 480 - | | |
| 40 | 60 | 75 | 75 | 100 | 20 | 60 | 75 | 100 | - | 20 | 15 | 15 |
| 50 | 75 | 100 | 50 | 75 | - | - | - | - | - | - | - | - |
| 5 5 | 10 10 | 10 10 | 10 10 | 10 10 | 50 - | 65 - | 65 - | 50 - | - | 50 - | 50 - | 50 - |
| | | RK5 | | | J CC | J | J | J | - | J | J | J |
| see page 8/20 | | | | | see page 8/52 | | | | see page 8/76 | | | |

Fuseless switch disconnectors

Quick selection guide



3KD



| Type | | 3KD 16 | 3KD 22 | 3KD 26 | 3KD 28..-M. | 3KD 28..-N | 3KD 30..-M. | 3KD 30..-N. | 3KD 32 | 3KD 34 | |
|--|--------------------------------------|---------------|-----------|-----------|----------------|---------------|----------------|----------------|-----------|-----------|-----|
| General technical specifications acc. to IEC 60947-3 | | | | | | | | | | | |
| General technical specifications | | | | | | | | | | | |
| Rated uninterrupted current I_u | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 | |
| Rated operational voltage U_e | At 50/60 Hz AC | V | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| | At DC – 2 conducting paths in series | V | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | |
| | At DC – 3 conducting paths in series | V | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | |
| | At DC – 4 conducting paths in series | V | – | – | – | – | – | – | – | – | |
| Operating and short-circuit behavior | | | | | | | | | | | |
| Rated operational current I_e ¹⁾ | At AC-20A AC-20B at 1000 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At AC-21A AC-21B at 400 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At AC-21A AC-21B at 690 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At AC-22A AC-22B at 400 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At AC-22A AC-22B at 690 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At AC-22A AC-22B at 1000 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At AC-23A AC-23B at 400 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At AC-23A AC-23B at 690 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-20A DC-20B at 1000 V | A | 16 | 32 | 63 | 80 | 80 | 100 | 100 | 125 | 160 |
| | At DC-21A DC-21B at 110 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-21A DC-21B at 220 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-21A DC-21B at 440 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-22A DC-22B at 220 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-22A DC-22B at 440 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-23A DC-23B at 220 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| | At DC-23A DC-23B at 440 V | A | 16 | 32 | 63 | 80 | 80 | 80 | 100 | 125 | 160 |
| Motor switching capacity | At AC-23A AC-23B at 400 V | kW | 7.5 | 15 | 30 | 45 | 45 | 45 | 55 | 55 | 90 |
| | At AC-23A AC-23B at 690 V | kW | 11 | 30 | 55 | 75 | 75 | 75 | 90 | 110 | 110 |
| | At AC-3 bei 400 V | kW | – | – | – | – | – | – | – | – | – |
| | At AC-3 bei 690 V | kW | – | – | – | – | – | – | – | – | – |
| Rated short-time withstand current I_{cw} | At 690 V AC (t=1 s) | kA | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 |
| | At 1000 V AC (t=1 s) | kA | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 |
| Rated conditional short-circuit current with upstream fuse | At 400/415 V AC | kA | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| | At 690 V AC | kA | 100 | 100 | 100 | 100 | 80 | 100 | 80 | 80 | 80 |
| Degree of protection | | | | | | | | | | | |
| Maximum achievable IP degree of protection (with a rotary operating mechanism) | | IP65 | | | | | | | | | |
| General technical specifications acc. to UL | | | | | | | | | | | |
| General technical specifications | | | | | | | | | | | |
| Certification according to UL standard | | – | | | | | | | | | |
| I_n acc. to UL 508 UL489 | A | – | | | | | | | | | |
| U_e acc. to UL 508 UL489 | V AC | – | | | | | | | | | |
| Operating and short-circuit behavior | | | | | | | | | | | |
| Operational power, three-phase | At 480 V | hp | – | | | | | | | | |
| | At 600 V | hp | – | | | | | | | | |
| Short circuit current rating (SCCR) | At 480 V at 600 V | kA | – | | | | | | | | |
| Fuse type | | – | | | | | | | | | |
| More information | | | | | | | | | | | |
| Catalog LV 10 04/2020 | | see page 8/62 | | | | | | | | | |

3KD



| 3KD 36..-N | 3KD 36..-P | 3KD 38..-N. | 3KD 38..-P. | 3KD 40 | 3KD 42 | 3KD 44..-P. | 3KD 44..-Q. | 3KD 46 | 3KD 48 | 3KD 50..-Q. | 3KD 50..-R. | 3KD 52 | 3KD 54 | 3KD 56 |
|---------------|---------------|----------------|----------------|-----------|-----------|----------------|----------------|-----------|-----------|----------------|----------------|-----------|-----------|-----------|
| 200 | 200 | 250 | 250 | 315 | 400 | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 | 440 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 200 | 200 | 250 | 250 | 315 | 400 | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 200 | 200 | 250 | 250 | 315 | 400 | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 200 | 200 | 200 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 200 | 200 | 250 | 250 | 315 | 400 | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 160 | 200 | 200 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 160 | 200 | 200 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | 1000 | 1250 | 1600 | 1600 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 200 | 200 | 250 | 250 | 315 | 400 | 500 | 500 | 630 | 800 | 1000 | 1000 | 1250 | 1600 | 2000 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | 1000 | 1250 | 1600 | 1600 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | 1000 | 1250 | 1600 | 1600 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | 1000 | 1250 | 1600 | 1600 |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | - | - | - | - |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | - | - | - | - |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | - | - | - | - |
| 160 | 200 | 160 | 250 | 315 | 400 | 400 | 500 | 630 | 800 | 800 | - | - | - | - |
| 90 | 110 | 90 | 132 | 160 | 200 | 200 | 250 | 355 | 400 | 560 | 560 | 710 | 900 | 1000 |
| 110 | 185 | 110 | 250 | 315 | 315 | 315 | 500 | 630 | 800 | 1000 | 1000 | 1000 | 1000 | 1000 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 13 | 4 | 13 | 13 | 13 | 13 | 30 | 30 | 30 | 30 | 55 | 55 | 55 | 55 |
| 4 | 13 | 4 | 13 | 13 | 13 | 13 | 30 | 30 | 30 | 30 | 55 | 55 | 55 | 55 |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80 | 80 | 80 |
| 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 100 | 100 | 65 |

IP65

-
-
-
-
-
-
-

see page 8/62

3LD switch disconnectors

System overview of 3LD3 main control and EMERGENCY-STOP switches

Basic units for front mounting



3P rotary operating mechanisms



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

Basic units for floor mounting



3P rotary operating mechanisms



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms

Basic units for installation in distribution boards



3P knob-operated mechanisms



3P basic switches without knob-operated mechanism



3P+N knob-operated mechanisms



3P+N basic switches without knob-operated mechanism

Additional poles and auxiliary switches



N switching contacts



N/PE terminals



Auxiliary switches

Operating mechanisms



Rotary operating mechanisms for front or floor mounting (center hole)



Knob-operated mechanisms for front or floor mounting (center hole)



Door-coupling rotary operating mechanisms



Door-coupling knob-operated mechanisms

Other accessories



Terminal covers, 1 and 3-pole



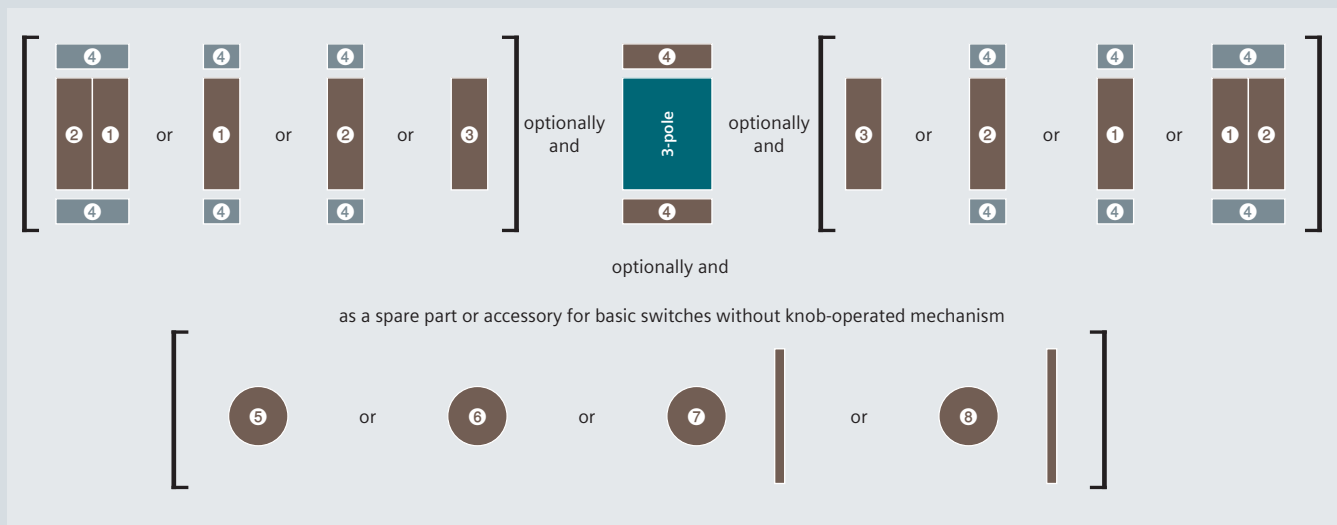
Inscription labels



Note:

You will find a detailed range of accessories with the basic units.

Mounting concept and accessories



Legend

- 1 N switching contact ¹⁾
- 2 N/PE terminal
- 3 Auxiliary switch
- 4 Terminal cover
- 5 Rotary operating mechanism, center-hole mounting
- 6 Knob-operated mechanism, center-hole mounting
- 7 Door-coupling rotary operating mechanism, center-hole mounting
- 8 Door-coupling knob-operated mechanism, center-hole mounting

¹⁾ The N switching contact 1 first has to be mounted on the basic unit



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. The switches are mounted via the 22.5 mm diameter center hole.

You will find further information under:
sie.ag/2UlrAvy



Floor mounting



The switches for floor mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector switches can be locked in their OFF position with no more than one padlock with a hasp thickness of 4 to 6 mm.

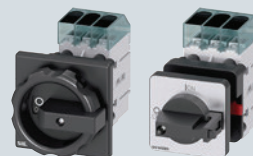
Basic switches without knob-operated mechanism



For the basic switch variant without knob-operated mechanism, the appropriate door-coupling rotary operating mechanism can be ordered separately.

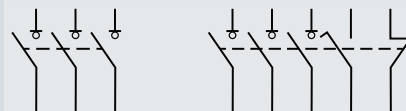
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, front mounting, 6 kA_{rms}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC |
|--|---|---|-----------------------------|---------------|
| Rotary operating mechanisms | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3054-0TK51 | 3LD3054-1TK51 |
| 25 A | 9 kW | 7.5 kW | 3LD3154-0TK51 | 3LD3154-1TK51 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3254-0TK51 | 3LD3254-1TK51 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3354-0TK51 | 3LD3354-1TK51 |
| 63 A | 22 kW | 18.5 kW | 3LD3454-0TK51 | 3LD3454-1TK51 |
| Knob-operated mechanisms | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3050-0TK11 | 3LD3050-1TK11 |
| 25 A | 9 kW | 7.5 kW | 3LD3150-0TK11 | 3LD3150-1TK11 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3250-0TK11 | 3LD3250-1TK11 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3350-0TK11 | 3LD3350-1TK11 |
| 63 A | 22 kW | 18.5 kW | 3LD3450-0TK11 | 3LD3450-1TK11 |

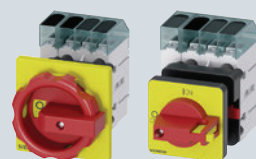
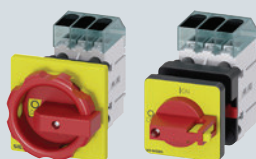
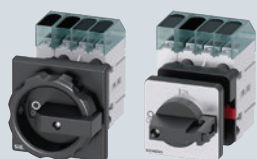
Scope of supply:

- Including terminal covers for the infeed side

Accessories

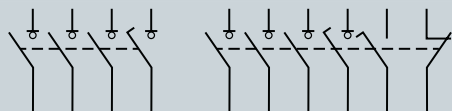
3LD30 (16 A) 3LD31 (25 A) 3LD32 (32 A) 3LD33 (40 A) 3LD34 (63 A)

| Additional poles | | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) | | |
|------------------------------------|---|---------------------------------------|--------------|--------------|--------------|--------------|---|---|
| | Variant | | | | | | | |
| | Switching contact for N conductor (4th contact) | Leading switch-on, lagging switch-off | 3LD9340-0B | ■ | ■ | ■ | ■ | ■ |
| | N terminal | Through-type | 3LD9340-2B | ■ | ■ | ■ | ■ | ■ |
| PE terminal | Through-type | 3LD9340-3B | ■ | ■ | ■ | ■ | ■ | |
| Auxiliary switches | | | | | | | | |
| | Contacts | | | | | | | |
| | 1 NO + 1 NC | 3LD9340-6B | ■ | ■ | ■ | ■ | ■ | |
| Rotary operating mechanisms | | | | | | | | |
| | Color | | | | | | | |
| | Black | 3LD9344-4C | ■ | ■ | ■ | ■ | ■ | |
| | Red/yellow | 3LD9344-5C | ■ | ■ | ■ | ■ | ■ | |
| Knob-operated mechanisms | | | | | | | | |
| | Color | | | | | | | |
| | Black | 3LD9343-6C | ■ | ■ | ■ | ■ | ■ | |
| | Red/yellow | 3LD9343-7C | ■ | ■ | ■ | ■ | ■ | |



Operating mechanisms, red/yellow

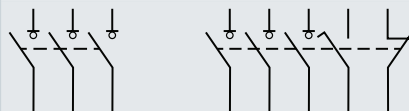
3P+N



Without auxiliary switch

1 NO + 1 NC

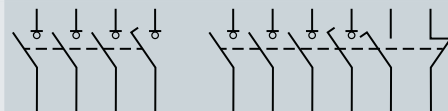
3P



Without auxiliary switch

1 NO + 1 NC

3P+N



Without auxiliary switch

1 NO + 1 NC

| | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 3LD3054-OTL51 | 3LD3054-1TL51 | 3LD3054-OTK53 | 3LD3054-1TK53 | 3LD3054-OTL53 | 3LD3054-1TL53 |
| 3LD3154-OTL51 | 3LD3154-1TL51 | 3LD3154-OTK53 | 3LD3154-1TK53 | 3LD3154-OTL53 | 3LD3154-1TL53 |
| 3LD3254-OTL51 | 3LD3254-1TL51 | 3LD3254-OTK53 | 3LD3254-1TK53 | 3LD3254-OTL53 | 3LD3254-1TL53 |
| 3LD3354-OTL51 | 3LD3354-1TL51 | 3LD3354-OTK53 | 3LD3354-1TK53 | 3LD3354-OTL53 | 3LD3354-1TL53 |
| 3LD3454-OTL51 | 3LD3454-1TL51 | 3LD3454-OTK53 | 3LD3454-1TK53 | 3LD3454-OTL53 | 3LD3454-1TL53 |
| 3LD3050-OTL11 | 3LD3050-1TL11 | 3LD3050-OTK13 | 3LD3050-1TK13 | 3LD3050-OTL13 | 3LD3050-1TL13 |
| 3LD3150-OTL11 | 3LD3150-1TL11 | 3LD3150-OTK13 | 3LD3150-1TK13 | 3LD3150-OTL13 | 3LD3150-1TL13 |
| 3LD3250-OTL11 | 3LD3250-1TL11 | 3LD3250-OTK13 | 3LD3250-1TK13 | 3LD3250-OTL13 | 3LD3250-1TL13 |
| 3LD3350-OTL11 | 3LD3350-1TL11 | 3LD3350-OTK13 | 3LD3350-1TK13 | 3LD3350-OTL13 | 3LD3350-1TL13 |
| 3LD3450-OTL11 | 3LD3450-1TL11 | 3LD3450-OTK13 | 3LD3450-1TK13 | 3LD3450-OTL13 | 3LD3450-1TL13 |

8

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|-----------------|-----------------|-----------------|-----------------|-----------------|

Terminal covers

- Pack of 4 units



Version

For N switching contacts, N terminals or PE terminals

Article No.

3LD9341-2A



For 3-pole 3LD3 switch disconnectors

3LD9341-0A

| | | | | | |
|------------|------------|---|---|---|---|
| 3LD9341-2A | 3LD9341-0A | | | | |
| ■ | ■ | ■ | ■ | ■ | ■ |

Inscription labels

- Pack of 10 units



Inscription

German / English (Hauptschalter / Main Switch)
 French / Spanish (Interrupteur Principal / Interruptor Principal)
 Without inscription

Article No.

3LD9346-1A
 3LD9346-2A
 3LD9346-3A

| | | | | | |
|------------|------------|------------|---|---|---|
| 3LD9346-1A | 3LD9346-2A | 3LD9346-3A | | | |
| ■ | ■ | ■ | ■ | ■ | ■ |

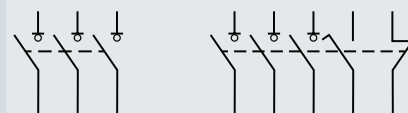
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, floor mounting, 6 kA_{rms}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _n At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC |
|--|---|---|-----------------------------|---------------|
| Rotary operating mechanisms | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3048-0TK51 | 3LD3048-1TK51 |
| 25 A | 9 kW | 7.5 kW | 3LD3148-0TK51 | 3LD3148-1TK51 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3248-0TK51 | 3LD3248-1TK51 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3348-0TK51 | 3LD3348-1TK51 |
| 63 A | 22 kW | 18.5 kW | 3LD3448-0TK51 | 3LD3448-1TK51 |
| Knob-operated mechanisms | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3040-0TK11 | 3LD3040-1TK11 |
| 25 A | 9 kW | 7.5 kW | 3LD3140-0TK11 | 3LD3140-1TK11 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3240-0TK11 | 3LD3240-1TK11 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3340-0TK11 | 3LD3340-1TK11 |
| 63 A | 22 kW | 18.5 kW | 3LD3440-0TK11 | 3LD3440-1TK11 |

Scope of supply:




- Including terminal covers for the infeed side

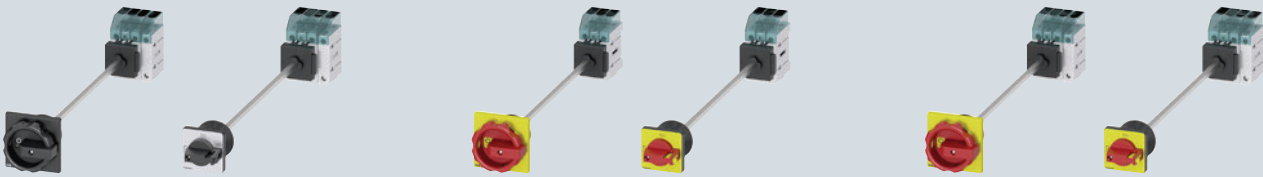
Mounting:

- Using screws or snap-on mounting on 35 mm mounting rails

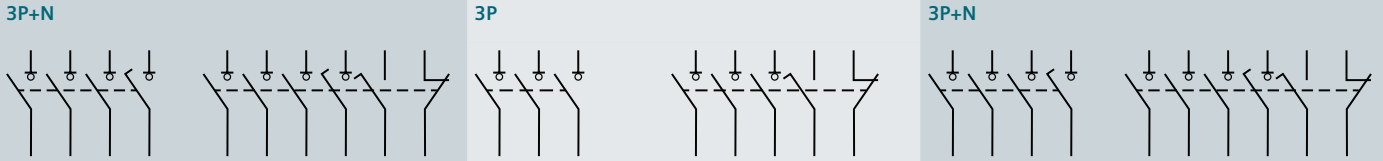
Accessories

3LD30 (16 A) 3LD31 (25 A) 3LD32 (32 A) 3LD33 (40 A) 3LD34 (63 A)

| Additional poles | | | | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|---|---------------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|
|  | Variant | Contacts | Article No. | | | | | |
| | Switching contact for N conductor (4th contact) | Leading switch-on, lagging switch-off | 3LD9340-0C | ■ | ■ | ■ | ■ | ■ |
| | N terminal | Through-type | 3LD9340-2C | ■ | ■ | ■ | ■ | ■ |
| | PE terminal | Through-type | 3LD9340-3C | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switches | | | | | | | | |
|  | | Contacts | Article No. | | | | | |
| | | 1 NO + 1 NC | 3LD9340-6C | ■ | ■ | ■ | ■ | ■ |
| Rotary operating mechanisms | | | | | | | | |
|  | Version | Color | Article No. | | | | | |
| | Incl. funnel | Black | 3LD9344-2C | ■ | ■ | ■ | ■ | ■ |
| | | Red/yellow | 3LD9344-3C | ■ | ■ | ■ | ■ | ■ |
| Knob-operated mechanisms | | | | | | | | |
|  | Version | Color | Article No. | | | | | |
| | Incl. funnel | Black | 3LD9343-4C | ■ | ■ | ■ | ■ | ■ |
| | | Red/yellow | 3LD9343-5C | ■ | ■ | ■ | ■ | ■ |





Operating mechanisms, red/yellow



| 3P+N | | 3P | | 3P+N | |
|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|
| Without auxiliary switch | 1 NO + 1 NC | Without auxiliary switch | 1 NO + 1 NC | Without auxiliary switch | 1 NO + 1 NC |
| 3LD3048-OTL51 | 3LD3048-1TL51 | 3LD3048-OTK53 | 3LD3048-1TK53 | 3LD3048-OTL53 | 3LD3048-1TL53 |
| 3LD3148-OTL51 | 3LD3148-1TL51 | 3LD3148-OTK53 | 3LD3148-1TK53 | 3LD3148-OTL53 | 3LD3148-1TL53 |
| 3LD3248-OTL51 | 3LD3248-1TL51 | 3LD3248-OTK53 | 3LD3248-1TK53 | 3LD3248-OTL53 | 3LD3248-1TL53 |
| 3LD3348-OTL51 | 3LD3348-1TL51 | 3LD3348-OTK53 | 3LD3348-1TK53 | 3LD3348-OTL53 | 3LD3348-1TL53 |
| 3LD3448-OTL51 | 3LD3448-1TL51 | 3LD3448-OTK53 | 3LD3448-1TK53 | 3LD3448-OTL53 | 3LD3448-1TL53 |
| | | | | | |
| 3LD3040-OTL11 | 3LD3040-1TL11 | 3LD3040-OTK13 | 3LD3040-1TK13 | 3LD3040-OTL13 | 3LD3040-1TL13 |
| 3LD3140-OTL11 | 3LD3140-1TL11 | 3LD3140-OTK13 | 3LD3140-1TK13 | 3LD3140-OTL13 | 3LD3140-1TL13 |
| 3LD3240-OTL11 | 3LD3240-1TL11 | 3LD3240-OTK13 | 3LD3240-1TK13 | 3LD3240-OTL13 | 3LD3240-1TL13 |
| 3LD3340-OTL11 | 3LD3340-1TL11 | 3LD3340-OTK13 | 3LD3340-1TK13 | 3LD3340-OTL13 | 3LD3340-1TL13 |
| 3LD3440-OTL11 | 3LD3440-1TL11 | 3LD3440-OTK13 | 3LD3440-1TK13 | 3LD3440-OTL13 | 3LD3440-1TL13 |

| 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|-----------------|-----------------|-----------------|-----------------|-----------------|
|-----------------|-----------------|-----------------|-----------------|-----------------|


Door-coupling rotary operating mechanisms

| Variant | Color | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|------------|-------------|--------------|--------------|--------------|--------------|--------------|
|  Rotary operating mechanisms 66 × 66 mm | Black | 3LD9344-2CA | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9344-3CA | ■ | ■ | ■ | ■ | ■ |
|  Knob-operated mechanisms 48 × 48 mm | Black | 3LD9343-4CA | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9343-5CA | ■ | ■ | ■ | ■ | ■ |

Terminal covers

| Version | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|-------------|--------------|--------------|--------------|--------------|--------------|
|  <ul style="list-style-type: none"> Pack of 4 units For N switching contacts, N terminals or PE terminals | 3LD9341-2A | ■ | ■ | ■ | ■ | ■ |
|  For 3LD3 3-pole switch disconnectors | 3LD9341-0A | ■ | ■ | ■ | ■ | ■ |

Inscription labels

| Inscription | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|-------------|--------------|--------------|--------------|--------------|--------------|
|  <ul style="list-style-type: none"> Pack of 10 units German / English (Hauptschalter / Main Switch) | 3LD9346-1A | ■ | ■ | ■ | ■ | ■ |
| French / Spanish (Interrupteur Principal / Interruptor Principal) | 3LD9346-2A | ■ | ■ | ■ | ■ | ■ |
| Without inscription | 3LD9346-3A | ■ | ■ | ■ | ■ | ■ |

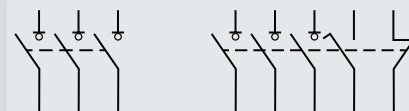
3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, installation in distribution boards and basic switches without direct operating mechanism, 6kA_{rms}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _n At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC |
|--|---|---|-----------------------------|---------------|
| Basic switch with masking plate and selector knob, standard rail mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3030-0TK11 | 3LD3030-1TK11 |
| 25 A | 9 kW | 7.5 kW | 3LD3130-0TK11 | 3LD3130-1TK11 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3230-0TK11 | 3LD3230-1TK11 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3330-0TK11 | 3LD3330-1TK11 |
| 63 A | 22 kW | 18.5 kW | 3LD3430-0TK11 | 3LD3430-1TK11 |
| Basic switches without knob-operated mechanism | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD3010-0TK05 | 3LD3010-1TK05 |
| 25 A | 9 kW | 7.5 kW | 3LD3110-0TK05 | 3LD3110-1TK05 |
| 32 A | 11.5 kW | 9.5 kW | 3LD3210-0TK05 | 3LD3210-1TK05 |
| 40 A | 18.5 kW | 11.5 kW | 3LD3310-0TK05 | 3LD3310-1TK05 |
| 63 A | 22 kW | 18.5 kW | 3LD3410-0TK05 | 3LD3410-1TK05 |

Scope of supply:

- Basic switches without direct operating mechanism, incl. terminal covers for the infeed side

Mounting:

- Using screws or snap-on mounting on 35 mm mounting rails

Accessories for switches for installation in distribution boards and basic switches without knob-operated mechanism

| | | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) | | |
|---------------------------|---|---------------------------------------|-----------------|-----------------|-----------------|-----------------|---|---|
| Additional poles | | | | | | | | |
| | Variant | | | | | | | |
| | Switching contact for N conductor (4th contact) | Leading switch-on, lagging switch-off | 3LD9340-0C | ■ | ■ | ■ | ■ | ■ |
| | N terminal | Through-type | 3LD9340-2C | ■ | ■ | ■ | ■ | ■ |
| | PE terminal | Through-type | 3LD9340-3C | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switches | | | | | | | | |
| | Contacts | | | | | | | |
| | 1 NO + 1 NC | 3LD9340-6C | ■ | ■ | ■ | ■ | ■ | |
| Terminal covers | | | | | | | | |
| | Version | | | | | | | |
| | Pack of 4 units | | | | | | | |
| | For N switching contacts, N terminals or PE terminals | 3LD9341-2A | ■ | ■ | ■ | ■ | ■ | |
| | For 3LD3 3-pole switch disconnectors | 3LD9341-0A | ■ | ■ | ■ | ■ | ■ | |



Operating mechanisms, red/yellow

| 3P+N | | 3P | | 3P+N | |
|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|
| | | | | | |
| Without auxiliary switch | 1 NO + 1 NC | Without auxiliary switch | 1 NO + 1 NC | Without auxiliary switch | 1 NO + 1 NC |
| 3LD3030-OTL11 | 3LD3030-1TL11 | 3LD3030-OTK13 | 3LD3030-1TK13 | 3LD3030-OTL13 | 3LD3030-1TL13 |
| 3LD3130-OTL11 | 3LD3130-1TL11 | 3LD3130-OTK13 | 3LD3130-1TK13 | 3LD3130-OTL13 | 3LD3130-1TL13 |
| 3LD3230-OTL11 | 3LD3230-1TL11 | 3LD3230-OTK13 | 3LD3230-1TK13 | 3LD3230-OTL13 | 3LD3230-1TL13 |
| 3LD3330-OTL11 | 3LD3330-1TL11 | 3LD3330-OTK13 | 3LD3330-1TK13 | 3LD3330-OTL13 | 3LD3330-1TL13 |
| 3LD3430-OTL11 | 3LD3430-1TL11 | 3LD3430-OTK13 | 3LD3430-1TK13 | 3LD3430-OTL13 | 3LD3430-1TL13 |
| 3LD3010-OTL05 | 3LD3010-1TL05 | - | - | - | - |
| 3LD3110-OTL05 | 3LD3110-1TL05 | - | - | - | - |
| 3LD3210-OTL05 | 3LD3210-1TL05 | - | - | - | - |
| 3LD3310-OTL05 | 3LD3310-1TL05 | - | - | - | - |
| 3LD3410-OTL05 | 3LD3410-1TL05 | - | - | - | - |

Accessories for basic switches without operating mechanism

| 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|-----------------|-----------------|-----------------|-----------------|-----------------|
|-----------------|-----------------|-----------------|-----------------|-----------------|

Rotary operating mechanisms



| Version | Color | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Incl. funnel | Black | 3LD9344-2C | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9344-3C | ■ | ■ | ■ | ■ | ■ |

Knob-operated mechanisms



| Version | Color | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|--------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Incl. funnel | Black | 3LD9343-4C | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9343-5C | ■ | ■ | ■ | ■ | ■ |

Door-coupling rotary operating mechanisms



| Variants | Color | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|--|------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Rotary operating mechanisms 66 × 66 mm | Black | 3LD9344-2CA | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9344-3CA | ■ | ■ | ■ | ■ | ■ |



| | | | | | | | |
|-------------------------------------|------------|-------------|---|---|---|---|---|
| Knob-operated mechanisms 48 × 48 mm | Black | 3LD9343-4CA | ■ | ■ | ■ | ■ | ■ |
| | Red/yellow | 3LD9343-5CA | ■ | ■ | ■ | ■ | ■ |








Inscription labels



| Inscription | Article No. | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|-------------|--------------|--------------|--------------|--------------|--------------|
| • Pack of 10 units | | | | | | |
| German / English (Hauptschalter / Main Switch) | 3LD9346-1A | ■ | ■ | ■ | ■ | ■ |
| French / Spanish (Interrupteur Principal / Interruptor Principal) | 3LD9346-2A | ■ | ■ | ■ | ■ | ■ |
| Without inscription | 3LD9346-3A | ■ | ■ | ■ | ■ | ■ |

3LD switch disconnectors

3LD3 main control and EMERGENCY-STOP switches, accessories

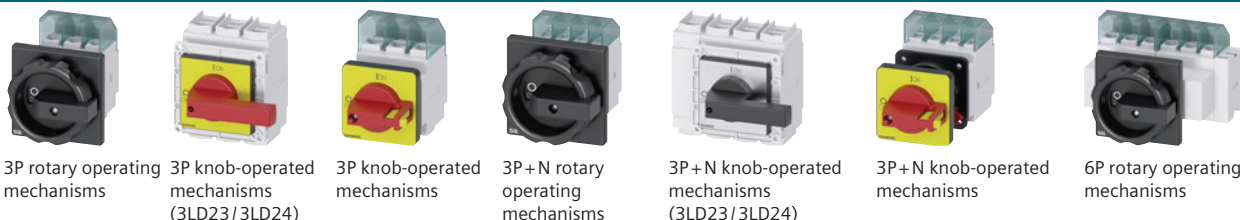
| | | | | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|---|---|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Switching contacts for N conductor (4th contact) | | | | | | | | |
|  | Version For front mounting | Contacts Leading switch-on, lagging switch-off | Article No. 3LD9340-0B | ■ | ■ | ■ | ■ | ■ |
|  | For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism | Leading switch-on, lagging switch-off | 3LD9340-0C | ■ | ■ | ■ | ■ | ■ |
| N terminals | | | | | | | | |
|  | Version For front mounting | Contacts Through-type | Article No. 3LD9340-2B | ■ | ■ | ■ | ■ | ■ |
|  | For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism | Through-type | 3LD9340-2C | ■ | ■ | ■ | ■ | ■ |
| PE terminals | | | | | | | | |
|  | Version For front mounting | Contacts Through-type | Article No. 3LD9340-3B | ■ | ■ | ■ | ■ | ■ |
|  | For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism | Through-type | 3LD9340-3C | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switches | | | | | | | | |
|  | Version For front mounting | Contacts 1 NO + 1 NC | Article No. 3LD9340-6B | ■ | ■ | ■ | ■ | ■ |
| | For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism | 1 NO + 1 NC | 3LD9340-6C | ■ | ■ | ■ | ■ | ■ |

| | | | | | 3LD30 (16 A) | 3LD31 (25 A) | 3LD32 (32 A) | 3LD33 (40 A) | 3LD34 (63 A) |
|---|---|---|--------------|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Rotary operating mechanisms | | | | | | | | | |
|  | Version | | Color | Article No. | | | | | |
| | For front mounting, without funnel | | Black | 3LD9344-4C | ■ | ■ | ■ | ■ | ■ |
| | | | Red/yellow | 3LD9344-5C | ■ | ■ | ■ | ■ | ■ |
|  | For floor mounting and basic switches without knob-operated mechanism, with funnel | | Black | 3LD9344-2C | ■ | ■ | ■ | ■ | ■ |
| | | | Red/yellow | 3LD9344-3C | ■ | ■ | ■ | ■ | ■ |
| Knob-operated mechanisms | | | | | | | | | |
|  | Version | | Color | Article No. | | | | | |
| | For front mounting, without funnel | | Black | 3LD9343-6C | ■ | ■ | ■ | ■ | ■ |
| | | | Red/yellow | 3LD9343-7C | ■ | ■ | ■ | ■ | ■ |
|  | For floor mounting and basic switches without knob-operated mechanism, with funnel | | Black | 3LD9343-4C | ■ | ■ | ■ | ■ | ■ |
| | | | Red/yellow | 3LD9343-5C | ■ | ■ | ■ | ■ | ■ |
| Door-coupling rotary operating mechanisms | | | | | | | | | |
|  | Version | Variant | Color | Article No. | | | | | |
| | For floor mounting and basic switches without knob-operated mechanism | Rotary operating mechanisms 66 × 66 mm | Black | 3LD9344-2CA | ■ | ■ | ■ | ■ | ■ |
| | | | Red/yellow | 3LD9344-3CA | ■ | ■ | ■ | ■ | ■ |
| | | Knob-operated mechanisms 48 × 48 mm | Black | 3LD9343-4CA | ■ | ■ | ■ | ■ | ■ |
| | | Red/yellow | 3LD9343-5CA | ■ | ■ | ■ | ■ | ■ | |
| Terminal covers | | | | | | | | | |
| | <ul style="list-style-type: none"> For front mounting, floor mounting, installation in distribution boards and basic switches without knob-operated mechanism Pack of 4 units | | | | | | | | |
|  | Number of poles | | | Article No. | | | | | |
| | 1-pole | | | 3LD9341-2A | ■ | ■ | ■ | ■ | ■ |
|  | 3-pole | | | 3LD9341-0A | ■ | ■ | ■ | ■ | ■ |
| Inscription labels | | | | | | | | | |
|  | <ul style="list-style-type: none"> Pack of 10 units Not for installation in distribution boards | | | | | | | | |
| | Inscription | | | Article No. | | | | | |
| | German / English (Hauptschalter / Main Switch) | | | 3LD9346-1A | ■ | ■ | ■ | ■ | ■ |
| | French / Spanish (Interrupteur Principal / Interruptor Principal) | | | 3LD9346-2A | ■ | ■ | ■ | ■ | ■ |
| Without inscription | | | 3LD9346-3A | ■ | ■ | ■ | ■ | ■ | |

3LD switch disconnectors

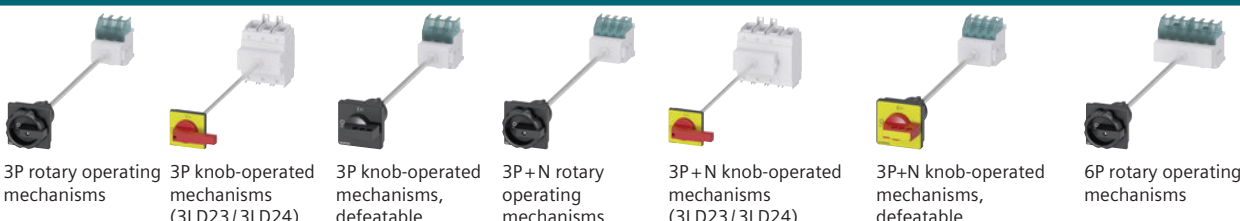
System overview of 3LD2 switch disconnectors

Basic units for front mounting



3P rotary operating mechanisms
 3P knob-operated mechanisms (3LD23/3LD24)
 3P knob-operated mechanisms
 3P+N rotary operating mechanisms
 3P+N knob-operated mechanisms (3LD23/3LD24)
 3P+N knob-operated mechanisms
 6P rotary operating mechanisms

Basic units for floor mounting



3P rotary operating mechanisms
 3P knob-operated mechanisms (3LD23/3LD24)
 3P knob-operated mechanisms, defeatable
 3P+N rotary operating mechanisms
 3P+N knob-operated mechanisms (3LD23/3LD24)
 3P+N knob-operated mechanisms, defeatable
 6P rotary operating mechanisms

Basic units for installation in distribution boards/enclosures, DC



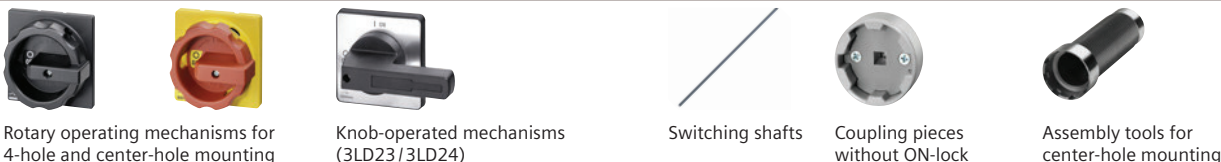
3P knob-operated mechanisms
 3P+N knob-operated mechanisms
 8P DC isolators

Additional poles and auxiliary switches



N switching contacts
 N/PE terminals (through-type)
 Auxiliary switches (standard version)
 Auxiliary switch for mounting on the front **new**

Operating mechanisms



Rotary operating mechanisms for 4-hole and center-hole mounting
 Knob-operated mechanisms (3LD23/3LD24)
 Switching shafts
 Coupling pieces without ON-lock
 Assembly tools for center-hole mounting

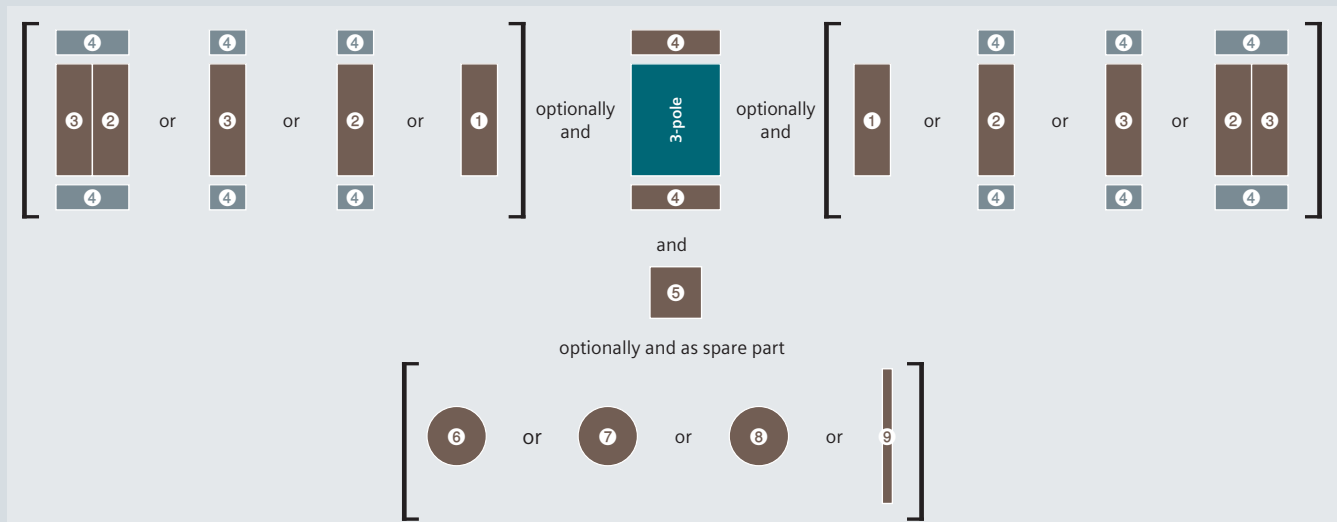
Other accessories



Terminal covers, 1-pole
 Terminal covers, 3 and 4-pole
 Inscription labels (with and without inscription)

Note:
 You will find a detailed range of accessories with the basic units.

Mounting concept and accessories



Legend

- ① Auxiliary switch
 - ② N switching contact ¹⁾
 - ③ N/PE terminal
 - ④ Terminal cover
 - ⑤ Auxiliary switch for mounting on the front ²⁾
 - ⑥ Rotary operating mechanism, center-hole mounting
 - ⑦ Rotary operating mechanism, four-hole mounting
 - ⑧ Knob-operated mechanism, four-hole mounting
 - ⑨ Switching shaft (300 or 600)
- ¹⁾ The N switching contact ② first has to be mounted on the basic unit
²⁾ Can only be used with four-hole front mounting and floor mounting



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. In addition to the 4-hole fastening of the handle, up to 63 A (3LD25) fastening with the 22.5 mm diameter center hole can also be chosen.

You will find further information under:
sie.ag/2UlrAvy



Floor mounting



The switches for floor mounting up to 125 A (3LD28) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. Up to 125 A (3LD28), they have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

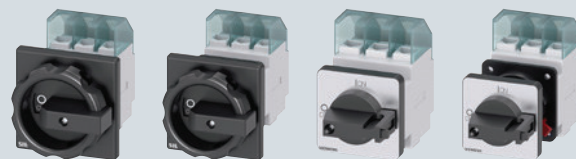
DC isolators



The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design. To provide additional safety, the isolators can be locked in the 0 position.

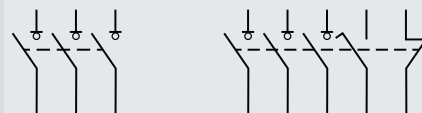
3LD switch disconnectors

3LD2 main control switches, front mounting, 25 ... 50 kA_{eff}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _n At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|---|---|--|-----------------------------|-----------------------------------|
| Rotary operating mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2003-OTK51 | 3LD2003-1TP51 |
| 25 A | 9.5 kW | 7.5 kW | 3LD2103-OTK51 | 3LD2103-1TP51 |
| 32 A | 11.5 kW | 9.5 kW | 3LD2203-OTK51 | 3LD2203-1TP51 |
| 63 A | 22 kW | 18.5 kW | 3LD2504-OTK51 | 3LD2504-1TP51 |
| 100 A | 37 kW | 30 kW | 3LD2704-OTK51 | 3LD2704-1TP51 |
| 125 A | 45 kW | 37 kW | 3LD2804-OTK51 | 3LD2804-1TP51 |
| 160 A | 75 kW | 50 kW | 3LD2305-OTK11 | 3LD2305-OTK11 + 3LD9200-5B |
| 250 A | 132 kW | 110 kW | 3LD2405-OTK11 | 3LD2405-OTK11 + 3LD9200-5B |
| Rotary operating mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2054-OTK51 | 3LD2054-1TP51 |
| 25 A | 9.5 kW | 7.5 kW | 3LD2154-OTK51 | 3LD2154-1TP51 |
| 32 A | 11.5 kW | 9.5 kW | 3LD2254-OTK51 | 3LD2254-OTK51 + 3LD9200-5B |
| 63 A | 22 kW | 18.5 kW | 3LD2555-OTK51 | 3LD2555-OTK51 + 3LD9200-5B |
| Knob-operated mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2022-OTK11 | 3LD2022-OTK11 + 3LD9200-5B |
| 25 A | 9.5 kW | 7.5 kW | 3LD2122-OTK11 | 3LD2122-OTK11 + 3LD9200-5B |
| 32 A | 11.5 kW | 9.5 kW | 3LD2222-OTK11 | 3LD2222-OTK11 + 3LD9200-5B |
| Knob-operated mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2050-OTK11 | 3LD2050-OTK11 + 3LD9200-5B |
| 25 A | 9.5 kW | 7.5 kW | 3LD2150-OTK11 | 3LD2150-OTK11 + 3LD9200-5B |
| 32 A | 11.5 kW | 9.5 kW | 3LD2250-OTK11 | 3LD2250-OTK11 + 3LD9200-5B |

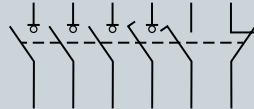
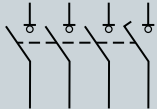
Scope of supply:

- Including terminal covers for the infeed side

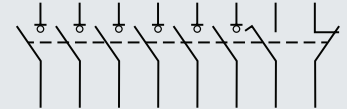
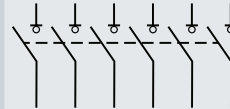
Accessories, see page 8/26



3P+N



6P



Without auxiliary switch

1 NO + 1 NC (standard version)

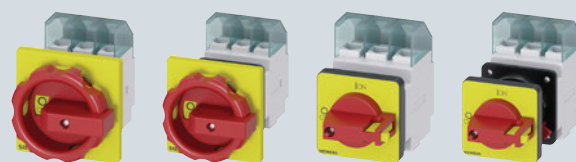
Without auxiliary switch

1 NO + 1 NC (standard version)

| | | | |
|-----------------------------|--|---------------|----------------------------|
| 3LD2003-1TL51 | 3LD2003-2EP51 | – | – |
| 3LD2103-1TL51 | 3LD2103-2EP51 | 3LD2103-3VK51 | 3LD2103-4VP51 |
| 3LD2203-1TL51 | 3LD2203-1TL51 + 3LD9200-5B | 3LD2203-3VK51 | 3LD2203-3VK51 + 3LD9200-5B |
| 3LD2504-1TL51 | 3LD2504-1TP51 + 3LD9250-0BA | 3LD2504-3VK51 | 3LD2504-3VK51 + 3LD9200-5B |
| 3LD2704-0TK51 + 3LD9280-0B | 3LD2704-0TK51 + 3LD9280-0B + 3LD9200-5B | – | – |
| 3LD2804-0TK51 + 3LD9280-0B | 3LD2804-0TK51 + 3LD9280-0B + 3LD9200-5B | – | – |
| 3LD2305-1TL11 | 3LD2305-1TL11 + 3LD9200-5B | 3LD2305-3VK11 | 3LD2305-3VK11 + 3LD9200-5B |
| 3LD2405-1TL11 | 3LD2405-1TL11 + 3LD9200-5B | 3LD2405-3VK11 | 3LD2405-3VK11 + 3LD9200-5B |
| 3LD2054-1TL51 | 3LD2054-2EP51 | – | – |
| 3LD2154-1TL51 | 3LD2154-2EP51 | – | – |
| 3LD2254-1TL51 | 3LD2254-1TL51 + 3LD9200-5B | – | – |
| 3LD2555-0TK51 + 3LD9250-0BA | 3LD2555-0TK51 + 3LD9250-0BA + 3LD9200-5B | – | – |
| 3LD2022-1TL11 | 3LD2022-1TL11 + 3LD9200-5B | – | – |
| 3LD2122-1TL11 | 3LD2122-1TL11 + 3LD9200-5B | – | – |
| 3LD2222-0TK11 + 3LD9220-0B | 3LD2222-0TK11 + 3LD9220-0B + 3LD9200-5B | – | – |
| 3LD2050-1TL11 | 3LD2050-1TL11 + 3LD9200-5B | – | – |
| 3LD2150-0TK11 + 3LD9220-0B | 3LD2150-0TK11 + 3LD9220-0B + 3LD9200-5B | – | – |
| 3LD2250-0TK11 + 3LD9220-0B | 3LD2250-0TK11 + 3LD9220-0B + 3LD9200-5B | – | – |

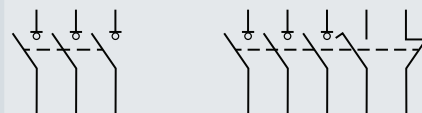
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, front mounting, 25 ... 50 kA_{eff}



Operating mechanisms, red/yellow

Number of poles 3P

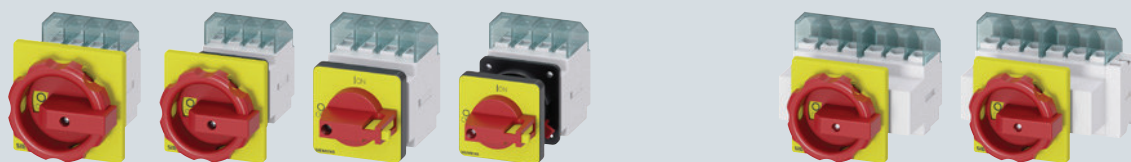


| Uninterrupted current I _n At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|---|---|--|-----------------------------|-----------------------------------|
| Rotary operating mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2003-OTK53 | 3LD2003-1TP53 |
| 25 A | 9.5 kW | 7.5 kW | 3LD2103-OTK53 | 3LD2103-1TP53 |
| 32 A | 11.5 kW | 9.5 kW | 3LD2203-OTK53 | 3LD2203-1TP53 |
| 63 A | 22 kW | 18.5 kW | 3LD2504-OTK53 | 3LD2504-1TP53 |
| 100 A | 37 kW | 30 kW | 3LD2704-OTK53 | 3LD2704-1TP53 |
| 125 A | 45 kW | 37 kW | 3LD2804-OTK53 | 3LD2804-1TP53 |
| 160 A | 75 kW | 50 kW | 3LD2305-OTK13 | 3LD2305-OTK13 + 3LD9200-5B |
| 250 A | 132 kW | 110 kW | 3LD2405-OTK13 | 3LD2405-OTK13 + 3LD9200-5B |
| Rotary operating mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2054-OTK53 | 3LD2054-1TP53 |
| 25 A | 9.5 kW | 7.5 kW | 3LD2154-OTK53 | 3LD2154-1TP53 |
| 32 A | 11.5 kW | 9.5 kW | 3LD2254-OTK53 | 3LD2254-OTK53 + 3LD9200-5B |
| 63 A | 22 kW | 18.5 kW | 3LD2555-OTK53 | 3LD2555-OTK53 + 3LD9200-5B |
| Knob-operated mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2022-OTK13 | 3LD2022-OTK13 + 3LD9200-5B |
| 25 A | 9.5 kW | 7.5 kW | 3LD2122-OTK13 | 3LD2122-OTK13 + 3LD9200-5B |
| 32 A | 11.5 kW | 9.5 kW | 3LD2222-OTK13 | 3LD2222-OTK13 + 3LD9200-5B |
| Knob-operated mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2050-OTK13 | 3LD2050-OTK13 + 3LD9200-5B |
| 25 A | 9.5 kW | 7.5 kW | 3LD2150-OTK13 | 3LD2150-OTK13 + 3LD9200-5B |
| 32 A | 11.5 kW | 9.5 kW | 3LD2250-OTK13 | 3LD2250-OTK13 + 3LD9200-5B |

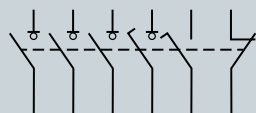
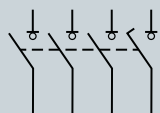
Scope of supply:

- Including terminal covers for the infeed side

Accessories, see page 8/26



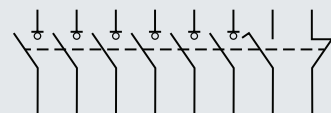
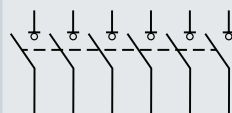
3+N



Without auxiliary switch

1 NO + 1 NC (standard version)

6P




Without auxiliary switch



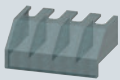


1 NO + 1 NC (standard version)

| | | | |
|-----------------------------|--|---------------|----------------------------|
| 3LD2003-1TL53 | 3LD2003-2EP53 | - | - |
| 3LD2103-1TL53 | 3LD2103-2EP53 | 3LD2103-3VK53 | 3LD2103-4VP53 |
| 3LD2203-1TL53 | 3LD2203-1TL53 + 3LD9200-5B | 3LD2203-3VK53 | 3LD2203-3VK53 + 3LD9200-5B |
| 3LD2504-1TL53 | 3LD2504-1TP53 + 3LD9250-0BA | 3LD2504-3VK53 | 3LD2504-3VK53 + 3LD9200-5B |
| 3LD2704-0TK53 + 3LD9280-0B | 3LD2704-0TK53 + 3LD9280-0B + 3LD9200-5B | - | - |
| 3LD2804-0TK53 + 3LD9280-0B | 3LD2804-0TK53 + 3LD9280-0B + 3LD9200-5B | - | - |
| 3LD2305-1TL13 | 3LD2305-1TL13 + 3LD9200-5B | 3LD2305-3VK13 | 3LD2305-3VK13 + 3LD9200-5B |
| 3LD2405-1TL13 | 3LD2405-1TL13 + 3LD9200-5B | 3LD2405-3VK13 | 3LD2405-3VK13 + 3LD9200-5B |
| 3LD2054-1TL53 | 3LD2054-2EP53 | - | - |
| 3LD2154-1TL53 | 3LD2154-2EP53 | - | - |
| 3LD2254-1TL53 | 3LD2254-1TL53 + 3LD9200-5B | - | - |
| 3LD2555-0TK53 + 3LD9250-0BA | 3LD2555-0TK53 + 3LD9250-0BA + 3LD9200-5B | - | - |
| 3LD2022-1TL13 | 3LD2022-1TL13 + 3LD9200-5B | - | - |
| 3LD2122-1TL13 | 3LD2122-1TL13 + 3LD9200-5B | - | - |
| 3LD2222-0TK13 + 3LD9220-0B | 3LD2222-0TK13 + 3LD9220-0B + 3LD9200-5B | - | - |
| 3LD2050-1TL13 | 3LD2050-1TL13 + 3LD9200-5B | - | - |
| 3LD2150-0TK13 + 3LD9220-0B | 3LD2150-0TK13 + 3LD9220-0B + 3LD9200-5B | - | - |
| 3LD2250-0TK13 + 3LD9220-0B | 3LD2250-0TK13 + 3LD9220-0B + 3LD9200-5B | - | - |

3LD switch disconnectors

Accessories for front mounting

| | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--|--|------------------------|-----------------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Switching contacts for N conductor (4th contact) | | | | | | | | | |
|  | Contacts | Article No. | | | | | | | |
| | Leading switch-on, lagging switch-off | 3LD9220-0B | ■ | ■ | | | | | |
| | | 3LD9250-0BA | | | ■ | | | | |
| | | 3LD9280-0B | | | | ■ | ■ | | |
| | | 3LD9240-0B | | | | | | ■ | ■ |
| N/PE terminals | | | | | | | | | |
|  | Contacts | Article No. | | | | | | | |
| | Through-type | 3LD9200-2B | ■ | | | | | | |
| | | 3LD9220-2B | | ■ | ■ | | | | |
| | | 3LD9250-2BA | | | | ■ | | | |
| | | 3LD9280-2B | | | | | ■ | ■ | |
| | 3LD9240-2B | | | | | | | ■ | ■ |
| Auxiliary switches (standard version) | | | | | | | | | |
|  | <ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off | | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5B | ■ | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9200-5BF | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switch for mounting on the front | | | | | | | | | |
|  | <ul style="list-style-type: none"> Mounted on the switch shaft For four-hole front mounting only For long leading times (20 ... 150 ms) | | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | ■ | |
| Rotary operating mechanisms | | | | | | | | | |
| <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | | | |
|  | Version | Mounting | Article No. | | | | | | |
| | For main control switches | Center-hole mounting | 3LD9224-1D | ■ | ■ | ■ | | | |
| | | Four-hole mounting | 3LD9284-1D | | | | ■ | | |
| | | Center-hole mounting | 3LD9224-1B | ■ | ■ | ■ | | | |
| Four-hole mounting | | 3LD9284-1B | | | | ■ | ■ | ■ | |
|  | For EMERGENCY-STOP switches | Center-hole mounting | 3LD9224-3D | ■ | ■ | ■ | | | |
| | | Four-hole mounting | 3LD9284-3D | | | | ■ | | |
| | | Center-hole mounting | 3LD9224-3B | ■ | ■ | ■ | | | |
| | | Four-hole mounting | 3LD9284-3B | | | | ■ | ■ | ■ |
| Knob-operated mechanisms | | | | | | | | | |
| <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | | | |
|  | Version | Mounting | Article No. | | | | | | |
| | For main control switches | Four-hole mounting | 3LD9243-1B | | | | | ■ | ■ |
| | For EMERGENCY-STOP switches | Four-hole mounting | 3LD9243-3B | | | | | ■ | ■ |

| | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--|---|--------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Terminal covers | | | | | | | | | |
| <ul style="list-style-type: none"> Pack of 4 units | | | | | | | | | |
| Number of poles | | Article No. | | | | | | | |
|  | 1-pole | 3LD9201-2A | ■ | | | | | | |
| | | 3LD9221-2A | | ■ | ■ | | | | |
| | | 3LD9251-2A | | | | ■ | | | |
| | | 3LD9281-2A | | | | | ■ | ■ | |
| | | 3LD9241-2A | | | | | | | ■ |
|  | 3-pole | 3LD9221-0A | | ■ | ■ | | | | |
| | | 3LD9251-0A | | | | ■ | | | |
|  | 4-pole | 3LD9201-1A | ■ | | | | | | |
| Inscription labels | | | | | | | | | |
| <ul style="list-style-type: none"> Pack of 10 units | | | | | | | | | |
|  | Inscription | Article No. | | | | | | | |
| | German / English (Hauptschalter / Main Switch) | 3LD9286-1A | ■ | ■ | ■ | ■ | ■ | ■ | |
| | Without inscription | 3LD9286-4A | ■ | ■ | ■ | ■ | ■ | ■ | |
| Assembly tools | | | | | | | | | |
| <ul style="list-style-type: none"> For center-hole mounting with nut Pack of 5 units | | | | | | | | | |
|  | Version | Article No. | | | | | | | |
| | For main control switches and EMERGENCY-STOP switches | 3LD9256-0A | ■ | ■ | ■ | ■ | | | |

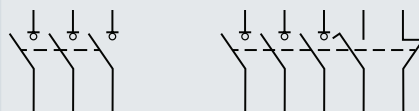
3LD switch disconnectors

3LD2 main control switches, floor mounting, 25 ... 50 kA_{eff}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|---|---|--|-----------------------------|-----------------------------------|
| Door-coupling rotary operating mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2013-OTK51 | 3LD2013-OTK51 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2113-OTK51 | 3LD2113-OTK51 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2213-OTK51 | 3LD2213-OTK51 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2514-OTK51 | 3LD2514-OTK51 + 3LD9200-5C |
| 100 A | 37 kW | 30 kW | 3LD2714-OTK51 | 3LD2714-OTK51 + 3LD9200-5C |
| 125 A | 45 kW | 37 kW | 3LD2814-OTK51 | 3LD2814-OTK51 + 3LD9200-5C |
| 160 A | 75 kW | 50 kW | 3LD2318-OTK11 | 3LD2318-OTK11 + 3LD9200-5C |
| 250 A | 132 kW | 110 kW | 3LD2418-OTK11 | 3LD2418-OTK11 + 3LD9200-5C |
| Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2044-OTK51 | 3LD2044-OTK51 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2144-OTK51 | 3LD2144-OTK51 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2244-OTK51 | 3LD2244-OTK51 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2545-OTK51 | 3LD2545-OTK51 + 3LD9200-5C |
| Defeatable door-coupling knob-operated mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2017-OTK11 | 3LD2017-OTK11 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2217-OTK11 | 3LD2217-OTK11 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2517-OTK11 | 3LD2517-OTK11 + 3LD9200-5C |

Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

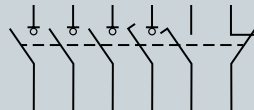
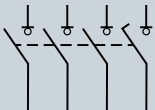
Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see page 8/32



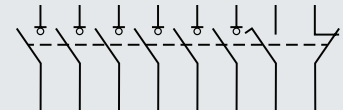
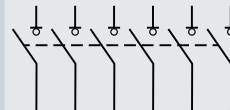
3P+N



Without auxiliary switch

1 NO + 1 NC (standard version)

6P



Without auxiliary switch

1 NO + 1 NC (standard version)

| | | | | |
|-----------------------------|-----------------------------|--------------|---------------|----------------------------|
| 3LD2013-1TL51 | 3LD2013-1TL51 | + 3LD9200-5C | – | – |
| 3LD2113-1TL51 | 3LD2113-1TL51 | + 3LD9200-5C | 3LD2113-3VK51 | 3LD2113-4VP51 |
| 3LD2213-1TL51 | 3LD2213-1TL51 | + 3LD9200-5C | – | – |
| 3LD2514-1TL51 | 3LD2514-1TL51 | + 3LD9200-5C | – | – |
| 3LD2714-0TK51 + 3LD9280-0C | 3LD2714-0TK51 + 3LD9280-0C | + 3LD9200-5C | – | – |
| 3LD2814-0TK51 + 3LD9280-0C | 3LD2814-0TK51 + 3LD9280-0C | + 3LD9200-5C | – | – |
| 3LD2318-1TL11 | 3LD2318-1TL11 | + 3LD9200-5C | 3LD2318-3VK11 | 3LD2318-3VK11 + 3LD9200-5C |
| 3LD2418-1TL11 | 3LD2418-1TL11 | + 3LD9200-5C | 3LD2418-3VK11 | 3LD2418-3VK11 + 3LD9200-5C |
| 3LD2044-1TL51 | 3LD2044-1TL51 | + 3LD9200-5C | – | – |
| 3LD2144-1TL51 | 3LD2144-1TL51 | + 3LD9200-5C | – | – |
| 3LD2244-1TL51 | 3LD2244-1TL51 | + 3LD9200-5C | – | – |
| 3LD2545-0TK51 + 3LD9250-0CA | 3LD2545-0TK51 + 3LD9250-0CA | + 3LD9200-5C | – | – |
| 3LD2017-1TL11 | 3LD2017-1TL11 + 3LD9200-5C | | – | – |
| 3LD2217-1TL11 | 3LD2217-1TL11 + 3LD9200-5C | | – | – |
| 3LD2517-1TL11 | 3LD2517-1TL11 + 3LD9200-5C | | – | – |

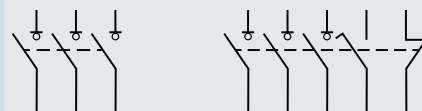
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, floor mounting, 25 ... 50 kA_{eff}



Operating mechanisms, red/yellow

Number of poles 3P



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|---|---|--|-----------------------------|-----------------------------------|
| Door-coupling rotary operating mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2013-OTK53 | 3LD2013-OTK53 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2113-OTK53 | 3LD2113-OTK53 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2213-OTK53 | 3LD2213-OTK53 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2514-OTK53 | 3LD2514-OTK53 + 3LD9200-5C |
| 100 A | 37 kW | 30 kW | 3LD2714-OTK53 | 3LD2714-OTK53 + 3LD9200-5C |
| 125 A | 45 kW | 37 kW | 3LD2814-OTK53 | 3LD2814-OTK53 + 3LD9200-5C |
| 160 A | 75 kW | 50 kW | 3LD2318-OTK13 | 3LD2318-OTK13 + 3LD9200-5C |
| 250 A | 132 kW | 110 kW | 3LD2418-OTK13 | 3LD2418-OTK13 + 3LD9200-5C |
| Door-coupling rotary operating mechanism, center-hole mounting Ø 22.5 mm | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2044-OTK53 | 3LD2044-OTK53 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2144-OTK53 | 3LD2144-OTK53 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2244-OTK53 | 3LD2244-OTK53 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2545-OTK53 | 3LD2545-OTK53 + 3LD9200-5C |
| Defeatable door-coupling knob-operated mechanism, four-hole mounting | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2017-OTK13 | 3LD2017-OTK13 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2217-OTK13 | 3LD2217-OTK13 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2517-OTK13 | 3LD2517-1TL13 + 3LD9200-5C |

Scope of supply:

- Including terminal covers for the infeed side
- Up to 125 A with integrated tolerance compensation

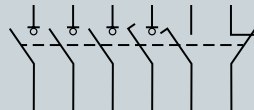
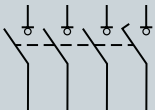
Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see page 8/32



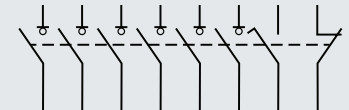
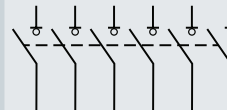
3P+N



Without auxiliary switch

1 NO + 1 NC (standard version)

6P










Without auxiliary switch







1 NO + 1 NC (standard version)

| | | | | |
|-----------------------------|-----------------------------|--------------|---------------|----------------------------|
| 3LD2013-1TL53 | 3LD2013-1TL53 | + 3LD9200-5C | – | – |
| 3LD2113-1TL53 | 3LD2113-1TL53 | + 3LD9200-5C | 3LD2113-3VK53 | 3LD2113-4VP53 |
| 3LD2213-1TL53 | 3LD2213-1TL53 | + 3LD9200-5C | – | – |
| 3LD2514-1TL53 | 3LD2514-1TL53 | + 3LD9200-5C | – | – |
| 3LD2714-0TK53 + 3LD9280-0C | 3LD2714-0TK53 + 3LD9280-0C | + 3LD9200-5C | – | – |
| 3LD2814-0TK53 + 3LD9280-0C | 3LD2814-0TK53 + 3LD9280-0C | + 3LD9200-5C | – | – |
| 3LD2318-1TL13 | 3LD2318-1TL13 | + 3LD9200-5C | 3LD2318-3VK13 | 3LD2318-3VK13 + 3LD9200-5C |
| 3LD2418-1TL13 | 3LD2418-1TL13 | + 3LD9200-5C | 3LD2418-3VK13 | 3LD2418-3VK13 + 3LD9200-5C |
| 3LD2044-1TL53 | 3LD2044-1TL53 | + 3LD9200-5C | – | – |
| 3LD2144-1TL53 | 3LD2144-1TL53 | + 3LD9200-5C | – | – |
| 3LD2244-1TL53 | 3LD2244-1TL53 | + 3LD9200-5C | – | – |
| 3LD2545-0TK53 + 3LD9250-0CA | 3LD2545-0TK53 + 3LD9250-0CA | + 3LD9200-5C | – | – |
| 3LD2017-1TL13 | 3LD2017-1TL13 + 3LD9200-5C | | – | – |
| 3LD2217-1TL13 | 3LD2217-0TK13 + 3LD9200-5C | | – | – |
| 3LD2517-1TL13 | 3LD2517-1TL13 + 3LD9200-5C | | – | – |

3LD switch disconnectors

Accessories for floor mounting

| | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) | |
|---|--|------------------------|-----------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|---|
| Switching contacts for N conductor (4th contact) | | | | | | | | | | | |
|  | Contacts | Article No. | | | | | | | | | |
| | Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | | | | |
| | | 3LD9250-0CA | | | | ■ | | | | | |
| | | 3LD9280-0C | | | | | ■ | ■ | | | |
| | | 3LD9240-0C | | | | | | | ■ | ■ | |
| N/PE terminals | | | | | | | | | | | |
|  | Contacts | Article No. | | | | | | | | | |
| | Through-type | 3LD9200-2C | | ■ | | | | | | | |
| | | 3LD9220-2C | | | ■ | ■ | | | | | |
| | | 3LD9250-2CA | | | | | ■ | | | | |
| | | 3LD9280-2C | | | | | | ■ | ■ | | |
| | | 3LD9240-2C | | | | | | | | ■ | ■ |
| | | | | | | | | | | | |
| Auxiliary switches (standard version) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off | | | | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Auxiliary switch for mounting on the front | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Mounted on the switch shaft For long leading times (20 ... 150 ms) | | | | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ | ■ | | |
| | | Gold-plated | 3LD9240-5D new | | | | | | | ■ | ■ |
| | | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | 3LD9240-5DF new | | | | | | | ■ | ■ | |
| Rotary operating mechanisms | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | | | | |
| | Version | Mounting | Article No. | | | | | | | | |
| | For main control switches | Center-hole mounting | 3LD9224-1D | ■ | ■ | ■ | | | | | |
| | | Four-hole mounting | 3LD9284-1D | | | | ■ | | | | |
| | For EMERGENCY-STOP switches | Center-hole mounting | 3LD9224-1B | ■ | ■ | ■ | | | | | |
| | | Four-hole mounting | 3LD9284-1B | | | | ■ | ■ | ■ | | |
| | For EMERGENCY-STOP switches | Center-hole mounting | 3LD9224-3D | ■ | ■ | ■ | | | | | |
| | | Four-hole mounting | 3LD9284-3D | | | | ■ | | | | |
| | | | 3LD9224-3B | ■ | ■ | ■ | | | | | |
| | | 3LD9284-3B | | | | ■ | ■ | ■ | | | |
| Knob-operated mechanisms | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | | | | |
| | Version | Mounting | Article No. | | | | | | | | |
| | For main control switches | Four-hole mounting | 3LD9243-1B | | | | | | | ■ | ■ |
| For EMERGENCY-STOP switches | Four-hole mounting | 3LD9243-3B | | | | | | | ■ | ■ | |
| 8UC7.. door-coupling rotary operating mechanisms | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> To achieve defeatability from 3LD27 (100 A) to 3LD24 (250 A) | | | | | | | | | | |
| | Type | Version | Article No. | | | | | | | | |
| | 8UC71 | Standard | 8UC7110-1BB | | | | | ■ | ■ | | |
| | | EMERGENCY-STOP | 8UC7120-3BB | | | | | ■ | ■ | | |
| 8UC72 | Standard | 8UC7210-1BB | | | | | | | ■ | ■ | |
| | EMERGENCY-STOP | 8UC7220-3BB | | | | | | | ■ | ■ | |

| | | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) | | |
|---|--|---------------|--------------------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|--|--|
| Coupling drivers | | | | | | | | | | | | | |
|  | Version | | | Article No. | | | | | | | | | |
| | For 8UC71 door-coupling rotary operating mechanisms | | | 8UC6011 | | | | | | | | | |
| | For 8UC72 door-coupling rotary operating mechanisms | | | 8UC6012 | | | | | | | | | |
| Switching shafts | | | | | | | | | | | | | |
|  | Cross-section | Length | Article No. | | | | | | | | | | |
| | 6 × 6 mm | 300 mm | 3LD9205-0C | | | | | | | | | | |
| | | 600 mm | 3LD9205-2C | | | | | | | | | | |
| | 8 × 8 mm | 300 mm | 3LD9245-0C | | | | | | | | | | |
| 600 mm | | 3LD9245-2C | | | | | | | | | | | |
| Coupling pieces | | | | | | | | | | | | | |
|  | • Without ON-lock | | Article No. | | | | | | | | | | |
| | | | 3LD9242-4F | | | | | | | | | | |
| Terminal covers | | | | | | | | | | | | | |
|  | • Pack of 4 units | | Article No. | | | | | | | | | | |
| | 1-pole | | | 3LD9201-2A | | | | | | | | | |
| | | | | 3LD9221-2A | | | | | | | | | |
| | | | | 3LD9251-2A | | | | | | | | | |
| | | | | 3LD9281-2A | | | | | | | | | |
| | | | | 3LD9241-2A | | | | | | | | | |
| | 3-pole | | | 3LD9221-0A | | | | | | | | | |
| | | | | 3LD9251-0A | | | | | | | | | |
| | 4-pole | | | 3LD9201-1A | | | | | | | | | |
| | Inscription labels | | | | | | | | | | | | |
|  | • Pack of 10 units | | Article No. | | | | | | | | | | |
| | Inscription | | | | | | | | | | | | |
| | German / English (Hauptschalter / Main Switch) | | 3LD9286-1A | | | | | | | | | | |
| Without inscription | | 3LD9286-4A | | | | | | | | | | | |
| Assembly tools | | | | | | | | | | | | | |
|  | • For center-hole mounting with nut • Pack of 5 units | | Article No. | | | | | | | | | | |
| | Version | | | | | | | | | | | | |
| For main control switches and EMERGENCY-STOP switches | | 3LD9256-0A | | | | | | | | | | | |

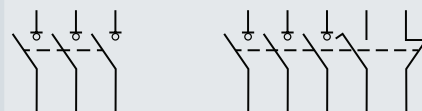
3LD switch disconnectors

3LD2 main control switches, installation in distribution boards, 25 ... 50 kA_{eff}



Operating mechanisms, black

Number of poles 3P



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|--|---|--|-----------------------------|-----------------------------------|
| Knob-operated mechanisms with masking plate | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2030-OTK11 | 3LD2030-OTK11 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2130-OTK11 | 3LD2130-OTK11 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2230-OTK11 | 3LD2230-OTK11 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2530-OTK11 | 3LD2530-OTK11 + 3LD9200-5C |
| 100 A | 37 kW | 30 kW | 3LD2730-OTK11 | 3LD2730-OTK11 + 3LD9200-5C |
| 125 A | 45 kW | 37 kW | 3LD2830-OTK11 | 3LD2830-OTK11 + 3LD9200-5C |
| 160 A | 75 kW | 50 kW | 3LD2330-OTK11 | 3LD2330-OTK11 + 3LD9200-5C |
| 250 A | 132 kW | 110 kW | 3LD2430-OTK11 | 3LD2430-OTK11 + 3LD9200-5C |

Scope of supply:

- 3LD23/3LD24 including terminal covers for the infeed side

Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessories

3LD20 (16 A) 3LD21 (25 A) 3LD22 (32 A) 3LD25 (63 A) 3LD27 (100 A) 3LD28 (125 A) 3LD23 (160 A) 3LD24 (250 A)

Switching contacts for N conductor (4th contact)



| Contacts | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | | | |
| | 3LD9250-0CA | | | | ■ | | | | |
| | 3LD9280-0C | | | | | ■ | ■ | | |
| | 3LD9240-0C | | | | | | | ■ | ■ |

N/PE terminals



| Contacts | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Through-type | 3LD9200-2C | ■ | | | | | | | |
| | 3LD9220-2C | | ■ | ■ | | | | | |
| | 3LD9250-2CA | | | | ■ | | | | |
| | 3LD9280-2C | | | | | ■ | ■ | | |
| | 3LD9240-2C | | | | | | | ■ | ■ |

Auxiliary switches (standard version)

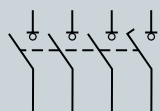


- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

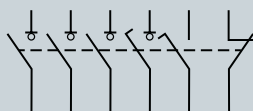
| Contacts | Contact surface | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|-------------|-----------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2 NO | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |



3P+N


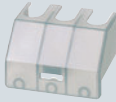
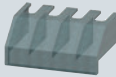


Without auxiliary switch



1 NO + 1 NC (standard version)

| | | |
|-----------------------------|-----------------------------|--------------|
| 3LD2030-1TL11 | 3LD2030-1TL11 | + 3LD9200-5C |
| 3LD2130-0TK11 + 3LD9220-0C | 3LD2130-0TK11 + 3LD9220-0C | + 3LD9200-5C |
| 3LD2230-0TK11 + 3LD9220-0C | 3LD2230-0TK11 + 3LD9220-0C | + 3LD9200-5C |
| 3LD2530-0TK11 + 3LD9250-OCA | 3LD2530-0TK11 + 3LD9250-OCA | + 3LD9200-5C |
| 3LD2730-0TK11 + 3LD9280-0C | 3LD2730-0TK11 + 3LD9280-0C | + 3LD9200-5C |
| 3LD2830-0TK11 + 3LD9280-0C | 3LD2830-0TK11 + 3LD9280-0C | + 3LD9200-5C |
| 3LD2330-0TK11 + 3LD9240-0C | 3LD2330-0TK11 + 3LD9240-0C | + 3LD9200-5C |
| 3LD2430-0TK11 + 3LD9240-0C | 3LD2430-0TK11 + 3LD9240-0C | + 3LD9200-5C |

| | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|---|--------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Terminal covers | | | | | | | | | |
| • Pack of 4 units | | | | | | | | | |
| Number of poles | | Article No. | | | | | | | |
|  | 1-pole | 3LD9201-2A | ■ | | | | | | |
| | | 3LD9221-2A | | ■ | ■ | | | | |
| | | 3LD9251-2A | | | | ■ | | | |
| | | 3LD9281-2A | | | | | ■ | ■ | |
| | | 3LD9241-2A | | | | | | | ■ ■ |
|  | 3-pole | 3LD9221-0A | | ■ ■ | | | | | |
| | | 3LD9251-0A | | | ■ | | | | |
|  | 4-pole | 3LD9201-1A | ■ | | | | | | |

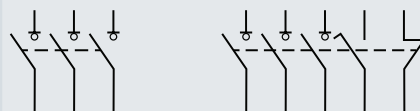
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches, installation in distribution boards, 25 ... 50 kA_{eff}



Operating mechanisms, red/yellow

Number of poles 3P



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | 1 NO + 1 NC (standard version) |
|--|---|--|-----------------------------|-----------------------------------|
| Knob-operated mechanisms with masking plate | | | | |
| 16 A | 7.5 kW | 5.5 kW | 3LD2030-OTK13 | 3LD2030-OTK13 + 3LD9200-5C |
| 25 A | 9.5 kW | 7.5 kW | 3LD2130-OTK13 | 3LD2130-OTK13 + 3LD9200-5C |
| 32 A | 11.5 kW | 9.5 kW | 3LD2230-OTK13 | 3LD2230-OTK13 + 3LD9200-5C |
| 63 A | 22 kW | 18.5 kW | 3LD2530-OTK13 | 3LD2530-OTK13 + 3LD9200-5C |
| 100 A | 37 kW | 30 kW | 3LD2730-OTK13 | 3LD2730-OTK13 + 3LD9200-5C |
| 125 A | 45 kW | 37 kW | 3LD2830-OTK13 | 3LD2830-OTK13 + 3LD9200-5C |
| 160 A | 75 kW | 50 kW | 3LD2330-OTK13 | 3LD2330-OTK13 + 3LD9200-5C |
| 250 A | 132 kW | 110 kW | 3LD2430-OTK13 | 3LD2430-OTK13 + 3LD9200-5C |

Scope of supply:

- 3LD23/3LD24 including terminal covers for the infeed side

Mounting:

- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessories

3LD20 (16 A) 3LD21 (25 A) 3LD22 (32 A) 3LD25 (63 A) 3LD27 (100 A) 3LD28 (125 A) 3LD23 (160 A) 3LD24 (250 A)

Switching contacts for N conductor (4th contact)



| Contacts | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | | | |
| | 3LD9250-0CA | | | | ■ | | | | |
| | 3LD9280-0C | | | | | ■ | ■ | | |
| | 3LD9240-0C | | | | | | | ■ | ■ |

N/PE terminals



| Contacts | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| Through-type | 3LD9200-2C | ■ | | | | | | | |
| | 3LD9220-2C | | ■ | ■ | | | | | |
| | 3LD9250-2CA | | | | ■ | | | | |
| | 3LD9280-2C | | | | | ■ | ■ | | |
| | 3LD9240-2C | | | | | | | ■ | ■ |

Auxiliary switches (standard version)

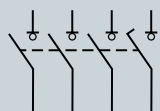


- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

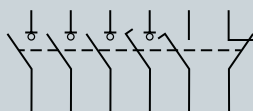
| Contacts | Contact surface | Article No. | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|-------------|-----------------|-------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|
| 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 2 NO | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |



3+N


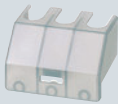
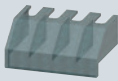


Without auxiliary switch



1 NO + 1 NC (standard version)

| | | |
|-----------------------------|-----------------------------|--------------|
| 3LD2030-1TL13 | 3LD2030-1TL13 | + 3LD9200-5C |
| 3LD2130-0TK13 + 3LD9220-0C | 3LD2130-0TK13 + 3LD9220-0C | + 3LD9200-5C |
| 3LD2230-0TK13 + 3LD9220-0C | 3LD2230-0TK13 + 3LD9220-0C | + 3LD9200-5C |
| 3LD2530-0TK13 + 3LD9250-OCA | 3LD2530-0TK13 + 3LD9250-OCA | + 3LD9200-5C |
| 3LD2730-0TK13 + 3LD9280-0C | 3LD2730-0TK13 + 3LD9280-0C | + 3LD9200-5C |
| 3LD2830-0TK13 + 3LD9280-0C | 3LD2830-0TK13 + 3LD9280-0C | + 3LD9200-5C |
| 3LD2330-0TK13 + 3LD9240-0C | 3LD2330-0TK13 + 3LD9240-0C | + 3LD9200-5C |
| 3LD2430-0TK13 + 3LD9240-0C | 3LD2430-0TK13 + 3LD9240-0C | + 3LD9200-5C |

| | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|---|--------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|
| Terminal covers | | | | | | | | | |
| • Pack of 4 units | | | | | | | | | |
| Number of poles | | Article No. | | | | | | | |
|  | 1-pole | 3LD9201-2A | ■ | | | | | | |
| | | 3LD9221-2A | | ■ | ■ | | | | |
| | | 3LD9251-2A | | | | ■ | | | |
| | | 3LD9281-2A | | | | | ■ | ■ | |
| | | 3LD9241-2A | | | | | | | ■ ■ |
|  | 3-pole | 3LD9221-0A | | ■ ■ | | | | | |
| | | 3LD9251-0A | | | ■ | | | | |
|  | 4-pole | 3LD9201-1A | ■ | | | | | | |

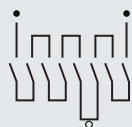
3LD switch disconnectors

DC isolators, 50 kA_{rms}



Operating mechanisms, black

Number of poles 8P









| Mains voltage | Rated current I _e At DC-21A, 800 V DC | Rated current I _e At DC-22A, 800 V DC | Without auxiliary switch |
|--------------------------|---|---|-----------------------------|
| Knob-operated mechanisms | | | |
| 800 V DC | 32 A | 16 A | 3LD2230-8VQ11-0AF6 |

3LD switch disconnectors

Accessories for 3LD2 main control and EMERGENCY-STOP switches

Additional poles

| | | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) | |
|---|---|--|-----------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|---|
| Switching contacts for N conductor (4th contact) | | | | | | | | | | | | |
|  | Version | Contacts | Article No. | | | | | | | | | |
| | For front mounting | Leading switch-on, lagging switch-off | 3LD9220-0B | | ■ | ■ | | | | | | |
| | | | 3LD9250-0BA | | | | ■ | | | | | |
| | | | 3LD9280-0B | | | | | ■ | ■ | | | |
| 3LD9240-0B | | | | | | | | ■ | ■ | | | |
|  | For floor mounting, installation in distribution boards | Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | | | | |
| | | | 3LD9250-0CA | | | | ■ | | | | | |
| | | | 3LD9280-0C | | | | | ■ | ■ | | | |
| | | | 3LD9240-0C | | | | | | | ■ | ■ | |
| N/PE terminals | | | | | | | | | | | | |
|  | For front mounting | Through-type | 3LD9200-2B | ■ | | | | | | | | |
| | | | 3LD9220-2B | | ■ | ■ | | | | | | |
| | | | 3LD9250-2BA | | | | ■ | | | | | |
| | | | 3LD9280-2B | | | | | ■ | ■ | | | |
| | | | 3LD9240-2B | | | | | | | | ■ | ■ |
|  | For floor mounting, installation in distribution boards | Through-type | 3LD9200-2C | ■ | | | | | | | | |
| | | | 3LD9220-2C | | ■ | ■ | | | | | | |
| | | | 3LD9250-2CA | | | | ■ | | | | | |
| | | | 3LD9280-2C | | | | | ■ | ■ | | | |
| | | | 3LD9240-2C | | | | | | | | ■ | ■ |
| Auxiliary switches (standard version) | | | | | | | | | | | | |
|  | For front mounting | 1 NO + 1 NC, standard | 3LD9200-5B | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | 1 NO + 1 NC, gold-plated | 3LD9200-5BF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | For floor mounting, installation in distribution boards | 1 NO + 1 NC, standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | 1 NO + 1 NC, gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | 2 NO, standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | Auxiliary switch for mounting on the front | | | | | | | | | | | |
| |  | <ul style="list-style-type: none"> Mounted on the front of the switch shaft For four-hole front mounting and floor mounting only Not suitable for front-mounted 3LD23 (160 A) ... 3LD24 (250 A) For long leading times (20 ... 150 ms) | | | | | | | | | | |
| Contacts | | Contact surface | Article No. | | | | | | | | | |
| 1 NO + 1 NC | | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | Gold-plated | 3LD9240-5D new | | | | | | | ■ | ■ | |
| | | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | ■ | | | | |
| | | 3LD9240-5DF new | | | | | | | ■ | ■ | | |

Operating mechanisms

| | | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) | | |
|--|---|-----------------------------|----------------------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|---|--|
| Rotary operating mechanisms | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks Center-hole mounting, including seal and nut Four-hole mounting, including seal | | | | | | | | | | | | | |
|  | Switch | Mounting | Article No. | | | | | | | | | | |
| | For main control switches | Center-hole mounting | 3LD9224-1D | ■ | ■ | ■ | | | | | | | |
| | | Four-hole mounting | 3LD9224-1B | ■ | ■ | ■ | | | | | | | |
| |  | For EMERGENCY-STOP switches | Center-hole mounting | 3LD9224-3D | ■ | ■ | ■ | | | | | | |
| Four-hole mounting | | | 3LD9224-3B | ■ | ■ | ■ | | | | | | | |
| Knob-operated mechanisms | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks Including seal | | | | | | | | | | | | | |
|  | Switch | Mounting | Article No. | | | | | | | | | | |
| | For main control switches | Four-hole mounting | 3LD9243-1B | | | | | | | ■ | ■ | | |
| | For EMERGENCY-STOP switches | Four-hole mounting | 3LD9243-3B | | | | | | | ■ | ■ | | |
| Switching shafts | | | | | | | | | | | | | |
|  | Version | Cross-section | Length | Article No. | | | | | | | | | |
| | For floor mounting | 6 × 6 mm | 300 mm | 3LD9205-0C | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | | 600 mm | 3LD9205-2C | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | | 8 × 8 mm | 300 mm | 3LD9245-0C | | | | | | | ■ | ■ | |
| 600 mm | | | 3LD9245-2C | | | | | | | ■ | ■ | | |
| Coupling pieces | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Without ON-lock | | | | | | | | | | | | | |
|  | Version | | | Article No. | | | | | | | | | |
| | For floor mounting | | | 3LD9242-4F | | | | | | ■ | ■ | | |
| | | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | 3LD23 (160 A) | 3LD24 (250 A) | | |
| Other accessories | | | | | | | | | | | | | |
| Terminal covers | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Pack of 4 units | | | | | | | | | | | | | |
|  | Number of poles | | | Article No. | | | | | | | | | |
| | 1-pole | | | 3LD9201-2A | ■ | | | | | | | | |
| | | | | 3LD9221-2A | | ■ | ■ | | | | | | |
| | | | | 3LD9251-2A | | | | ■ | | | | | |
| | | 3LD9281-2A | | | | | ■ | ■ | | | | | |
|  | 3-pole | | | 3LD9241-2A | | | | | | ■ | ■ | | |
| | | | | 3LD9221-0A | | ■ | ■ | | | | | | |
|  | 4-pole | | | 3LD9251-0A | | | ■ | | | | | | |
| | | | | 3LD9201-1A | ■ | | | | | | | | |
| Inscription labels | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> Pack of 10 units | | | | | | | | | | | | | |
|  | Inscription | | | Article No. | | | | | | | | | |
| | German / English (Hauptschalter / Main Switch) | | | 3LD9286-1A | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| | Without inscription | | | 3LD9286-4A | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| Montagewerkzeug | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> For center-hole mounting with nut Pack of 5 units | | | | | | | | | | | | | |
|  | Switch | | | Article No. | | | | | | | | | |
| | For main control switches and EMERGENCY-STOP switches | | | 3LD9256-0A | ■ | ■ | ■ | ■ | | | | | |

3LD switch disconnectors

System overview of 3LD2 switch disconnectors in enclosure

3LD2 main control and EMERGENCY-STOP switches in enclosure



3P / 3P+N
molded-plastic enclosures



3P / 6P
molded-plastic enclosures



3P / 3p+N / 6P
molded-plastic enclosures

3LD2 maintenance and repair switches with EMC shield plate



3P
molded-plastic enclosures **new**



3P / 6P
molded-plastic enclosures **new**



3P / 6P
molded-plastic enclosures **new**

8

DC isolators in enclosure



8P DC isolators in a
molded-plastic enclosure



8P DC isolators in a
molded-plastic enclosure

Additional poles and auxiliary switch modules



N switching
contact



N/PE terminals
(through-type)



Auxiliary switches
(standard version)



Auxiliary switch for mounting on
the front **new**

Operating mechanisms

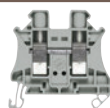


Rotary operators for center-hole mounting

Further accessories



Shield terminal **new**

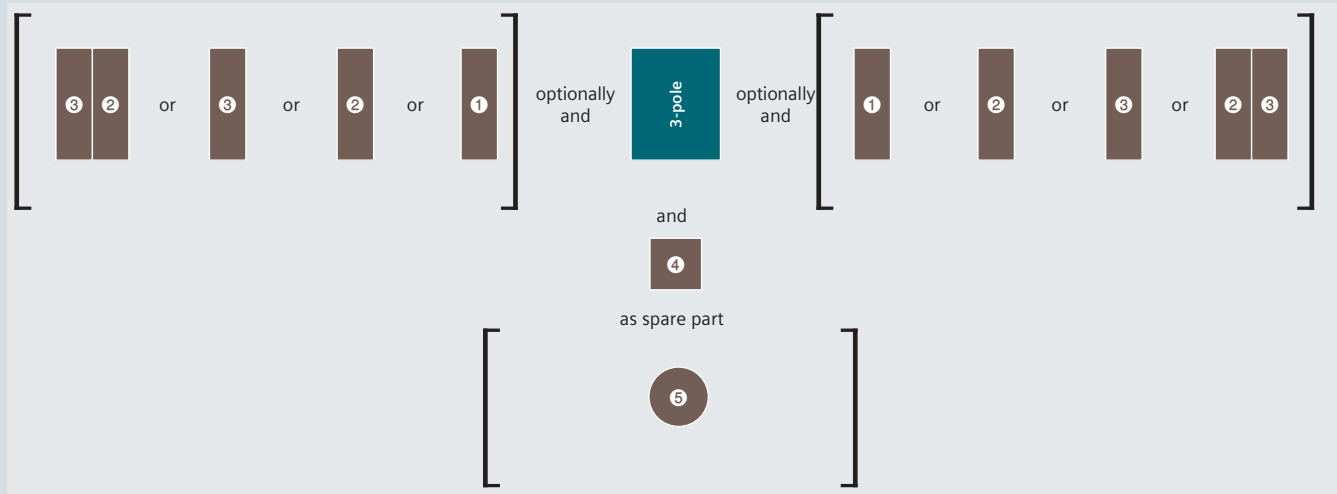


Through-type terminal

Note:

You will find a detailed range of accessories with the basic units.

Mounting concept and accessories



Legend

- 1 Auxiliary switch
- 2 N switching contact ¹⁾
- 3 N/PE terminal
- 4 Auxiliary switch for mounting on the front
- 5 Rotary operating mechanism, center-hole mounting

¹⁾ The N switching contact 2 first has to be mounted on the basic unit
 Note: Depending on the enclosure size, not all accessories can be used in combination



Mounting types

3LD2 main control and EMERGENCY-STOP switches in enclosure



For surface mounting of individual main control and EMERGENCY-STOP switches, molded plastic-enclosed switches with degree of protection IP65 are used. The molded-plastic enclosures each contain an N and/or a PE terminal. As the switches can be locked in the 0 position, they can also be used as maintenance and repair switches.

DC isolators in enclosure



As the switches can be locked in the 0 position, they can also be used as maintenance and repair switches. The DC isolators in the enclosure are suitable for disconnecting loads of up to 800 V DC due to their 8-pole design.

3LD2 maintenance and repair switches with EMC shield plate



The 3LD2 maintenance and repair switch with EMC shield plate is ideal for use between converter and motor. A long leading (20-150ms) NO contact switches the converter group off before the main contacts of the switch open. This produces an AC20 state and it is then possible to switch safely at the converter output. The cable shield can be contacted over a large area inside the enclosure using the shield clamps or hose clips included in the scope of delivery. The switch series provides the greatest possible safety for the user and can be locked in the 0 or I position. Tests have been performed in connection with Sinamics converters and ratings are available for use at frequencies between 0 and 550 Hz.

3LD switch disconnectors

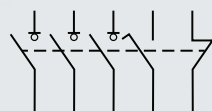
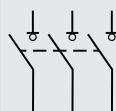
3LD2 main control switches in enclosure, 25 ... 50 kA_{eff}



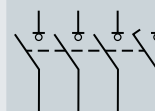
Operating mechanisms, black

Number of poles

3P



3P+N



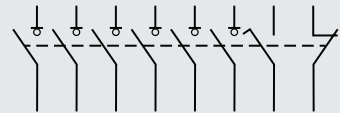
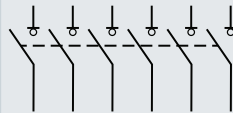
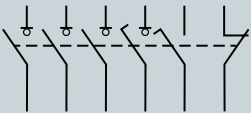
| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | | 1 NO + 1 NC (standard version) | | Without auxiliary switch | |
|---|--|---|--------------------------|---------------|-----------------------------------|---------------|--------------------------|----------------------------|
| | | | Base terminal | 3LD2064-0TB51 | Base terminal | 3LD2064-1GP51 | Base terminal | 3LD2064-1TC51 |
| 16 A | 7.5 kW | 5.5 kW | PE+N | 3LD2064-0TB51 | N | 3LD2064-1GP51 | PE | 3LD2064-1TC51 |
| 25 A | 9.5 kW | 7.5 kW | PE+N | 3LD2164-0TB51 | N | 3LD2164-1GP51 | PE | 3LD2164-1TC51 |
| 32 A | 11.5 kW | 9.5 kW | PE+N | 3LD2264-0TB51 | N | 3LD2264-1GP51 | PE | 3LD2264-1TC51 |
| 63 A | 22 kW | 18.5 kW | PE+N | 3LD2565-0TB51 | N | 3LD2565-1GP51 | PE | 3LD2565-1TC51 |
| 100 A | 37 kW | 30 kW | PE+N | 3LD2766-0TB51 | N | 3LD2766-1GP51 | PE+N | 3LD2766-0TB51 + 3LD9280-0C |
| 125 A | 45 kW | 37 kW | PE+N | 3LD2866-0TB51 | N | 3LD2866-1GP51 | PE+N | 3LD2866-0TB51 + 3LD9280-0C |

Accessories

| | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) |
|---|--|------------------------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Switching contacts for N conductor (4th contact) | | | | | | | | |
| | Contacts | Article No. | | | | | | |
| | Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | |
| | | 3LD9250-0CA | | | | ■ | | |
| | | 3LD9280-0C | | | | | ■ | ■ |
| N/PE terminals | | | | | | | | |
| | Contacts | Article No. | | | | | | |
| | Through-type | 3LD9200-2C | ■ | | | | | |
| | | 3LD9220-2C | | ■ | ■ | | | |
| | | 3LD9250-2CA | | | | ■ | | |
| | | 3LD9280-2C | | | | ■ | ■ | |
| Auxiliary switches (standard version) | | | | | | | | |
| | | | | | | | | |
| | • For mounting on the left and/or right • Lagging switch-on, leading switch-off | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | |
| | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ | |
| Auxiliary switch for mounting on the front | | | | | | | | |
| | | | | | | | | |
| | • Mounted on the front of the switch shaft • For long leading times (20 ... 150 ms) | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | |
| Rotary operating mechanisms | | | | | | | | |
| | | | | | | | | |
| | • Lockable in 0 position with up to 3 padlocks | | | | | | | |
| | | Article No. | | | | | | |
| | | 3LD9224-1G | ■ | ■ | ■ | | | |
| | | 3LD9284-1G | | | | ■ | ■ | |



6P



1 NO + 1 NC
(standard version)

Without auxiliary switch

1 NO + 1 NC
(standard version)

| Base terminal | | | Base terminal | | | Base terminal | | |
|---------------|----------------------------|--------------|---------------|---------------|------|---------------|---|---|
| PE | 3LD2064-1TC51 | + 3LD9200-5C | - | - | - | - | - | - |
| PE | 3LD2164-1TC51 | + 3LD9200-5C | PE+N | 3LD2165-3VB51 | N | 3LD2165-4VD51 | - | - |
| PE | 3LD2264-1TC51 | + 3LD9200-5C | PE+N | 3LD2265-3VB51 | N | 3LD2265-4VD51 | - | - |
| PE | 3LD2565-1TC51 | + 3LD9200-5C | PE+N | 3LD2566-3VB51 | PE+N | 3LD2566-4VD51 | - | - |
| N | 3LD2766-1GP51 + 3LD9280-0C | - | - | - | - | - | - | - |
| N | 3LD2866-1GP51 + 3LD9280-0C | - | - | - | - | - | - | - |

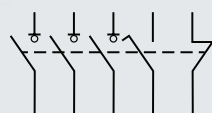
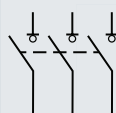
3LD switch disconnectors

3LD2 EMERGENCY-STOP switches in enclosure, 25 ... 50 kA_{eff}

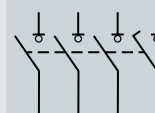


Operating mechanisms, red/yellow

Number of poles 3P



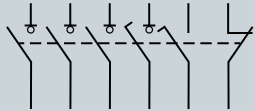
3P+N



| Uninterrupted current I _u At AC-21A, 380 ... 440 V | Operational power P At AC-23A, 380 ... 440 V | Operational power P At AC-3A, 380 ... 440 V | Without auxiliary switch | | 1 NO + 1 NC (standard version) | | Without auxiliary switch | |
|---|--|---|--------------------------|---------------|-----------------------------------|---------------|--------------------------|----------------------------|
| | | | Base terminal | 3LD2064-0TB53 | Base terminal | 3LD2064-1GP53 | Base terminal | 3LD2064-1TC53 |
| 16 A | 7.5 kW | 5.5 kW | PE+N | 3LD2064-0TB53 | N | 3LD2064-1GP53 | PE | 3LD2064-1TC53 |
| 25 A | 9.5 kW | 7.5 kW | PE+N | 3LD2164-0TB53 | N | 3LD2164-1GP53 | PE | 3LD2164-1TC53 |
| 32 A | 11.5 kW | 9.5 kW | PE+N | 3LD2264-0TB53 | N | 3LD2264-1GP53 | PE | 3LD2264-1TC53 |
| 63 A | 22 kW | 18,5 kW | PE+N | 3LD2565-0TB53 | N | 3LD2565-1GP53 | PE | 3LD2565-1TC53 |
| 100 A | 37 kW | 30 kW | PE+N | 3LD2766-0TB53 | N | 3LD2766-1GP53 | PE+N | 3LD2766-0TB53 + 3LD9280-0C |
| 125 A | 45 kW | 37 kW | PE+N | 3LD2866-0TB53 | N | 3LD2866-1GP53 | PE+N | 3LD2866-0TB53 + 3LD9280-0C |

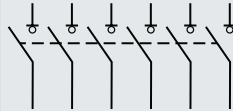
Accessories

| | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) |
|---|--|------------------------|-----------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Switching contacts for N conductor (4th contact) | | | | | | | | |
| | Contacts | Article No. | | | | | | |
| | Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | |
| | | 3LD9250-OCA | | | | ■ | | |
| | | 3LD9280-0C | | | | | ■ | ■ |
| N/PE terminals | | | | | | | | |
| | Contacts | Article No. | | | | | | |
| | Through-type | 3LD9200-2C | ■ | | | | | |
| | | 3LD9220-2C | | ■ | ■ | | | |
| | | 3LD9250-2CA | | | | ■ | | |
| | | 3LD9280-2C | | | | ■ | ■ | |
| Auxiliary switches (standard version) | | | | | | | | |
| | <ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ |
| | | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ |
| | 2 NO + 1 NC | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switch for mounting on the front | | | | | | | | |
| | <ul style="list-style-type: none"> Mounted on the front of the switch shaft For long leading times (20 ... 150 ms) | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | |
| Rotary operating mechanisms | | | | | | | | |
| | <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | |
| | | Article No. | | | | | | |
| | | 3LD9224-3G | ■ | ■ | ■ | | | |
| | 3LD9284-3G | | | | ■ | ■ | ■ | |

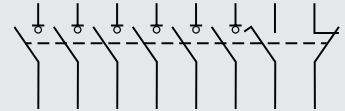


1 NO + 1 NC
(standard version)

6P



Without auxiliary switch



1 NO + 1 NC
(standard version)

Base
terminal

| | | |
|----|----------------------------|--------------|
| PE | 3LD2064-1TC53 | + 3LD9200-5C |
| PE | 3LD2164-1TC53 | + 3LD9200-5C |
| PE | 3LD2264-1TC53 | + 3LD9200-5C |
| PE | 3LD2565-1TC53 | + 3LD9200-5C |
| N | 3LD2766-1GP53 + 3LD9280-0C | |
| N | 3LD2866-1GP53 + 3LD9280-0C | |

Base
terminal

| | |
|------|---------------|
| | – |
| PE+N | 3LD2165-3VB53 |
| PE+N | 3LD2265-3VB53 |
| PE+N | 3LD2566-3VB53 |
| | – |
| | – |

Base
terminal

| | |
|------|---------------|
| | – |
| N | 3LD2165-4VD53 |
| N | 3LD2265-4VD53 |
| PE+N | 3LD2566-4VD53 |
| | – |
| | – |

3LD switch disconnectors

3LD2 DC isolators in a molded-plastic enclosure



| | Operating mechanisms, black | Operating mechanisms, red/yellow |
|-----------------|-----------------------------|----------------------------------|
| Number of poles | 8P | 8P |
| | | |

| Mains voltage | Rated current I_e At DC-21A, 800 V DC | Rated current I_e At DC-22A, 800 V DC | Without auxiliary switch |
|------------------------------------|--|--|--|
| Rotary operating mechanisms | | | |
| 800 V DC | 32 A | 16 A | 3LD2265-8VQ51-0AF6 3LD2265-8VQ53-0AF6 |

8

3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA_{eff} **new**











| | Operating mechanisms, black | |
|-----------------|-----------------------------|----|
| Number of poles | 3P | 6P |
| | | |

| Uninterrupted current I_u At AC-20, 0 ... 550 Hz, 380 ... 440 V | Operational power P At AC-20, 0 ... 550 Hz, 380 ... 440 V | Uninterrupted current I_n At AC-21, 50/60 Hz, 380 ... 440 V | Operational power AC-23 A, 50/60 Hz, 380 ... 440 V | 1 NO + 1 NC (Auxiliary switch for mounting on the front) new | 1 NO + 1 NC (Auxiliary switch for mounting on the front) new |
|---|---|---|--|---|---|
| Knob-operated mechanisms with masking plate | | | | Base terminal | Base terminal |
| 10.2 A | 4 kW | 16 A | 7.5 kW | PE 3LD2084-2GP21 | 2× PE – |
| 13.2 A | 5.5 kW | 25 A | 9 kW | PE 3LD2184-2GP21 | 2× PE 3LD2185-5VD21 |
| 18 A | 7.5 kW | 32 A | 11.5 kW | PE 3LD2284-2GP21 | 2× PE 3LD2285-5VD21 |
| 38 A | 18.5 kW | 63 A | 22 kW | PE 3LD2585-2GP21 | 2× PE 3LD2586-5VD21 |
| 75 A | 37 kW | 100 A | 37 kW | PE 3LD2786-2GP21 | 2× PE – |
| 90 A | 45 kW | 125 A | 45 kW | PE 3LD2886-2GP21 | 2× PE – |

Scope of supply:

- Incl. shield clamps or hose clips for contacting the cable shield
- The PE terminal as a through-type terminal is insulated from the cable shield





3LD2 maintenance and repair switches with EMC shield plate, 25 ... 50 kA_{eff}

| | | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) | | |
|---|--|------------------------|------------------------|--------------------|-----------------|-----------------|-----------------|------------------|------------------|---|--|
| Accessories | | | | | | | | | | | |
| Switching contacts for N conductor (4th contact) | | | | | | | | | | | |
|  | Contacts | | Article No. | | | | | | | | |
| | Leading switch-on, lagging switch-off | | 3LD9220-0C | | ■ | ■ | | | | | |
| | | | 3LD9250-0CA | | | | ■ | | | | |
| | | | 3LD9280-0C | | | | | ■ | | ■ | |
| N/PE terminals | | | | | | | | | | | |
|  | Contacts | | Article No. | | | | | | | | |
| | Through-type | | 3LD9200-2C | ■ | | | | | | | |
| | | | 3LD9220-2C | | ■ | ■ | | | | | |
| | | | 3LD9250-2CA | | | | ■ | | | | |
| | | | 3LD9280-2C | | | | | ■ | | ■ | |
| Auxiliary switches (standard version) | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off | | | | | | | | | | |
| | Contacts | | Contact surface | Article No. | | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| 2 NO | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| Auxiliary switch for mounting on the front | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Mounted on the front of the switch shaft For long leading times (20 ... 150 ms) | | | | | | | | | | |
| | Contacts | | Contact surface | Article No. | | | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Rotary operating mechanisms | | | | | | | | | | | |
|  | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | | | | |
| | Version | | Article No. | | | | | | | | |
| | Main control switches | | 3LD9224-1G | ■ | ■ | ■ | | | | | |
| | | | 3LD9284-1G | | | | ■ | ■ | | ■ | |
|  | EMERGENCY-STOP switches | | 3LD9224-3G | ■ | ■ | ■ | | | | | |
| | | | 3LD9284-3G | | | | ■ | ■ | ■ | | |
| | | | | | | | | | | | |
| Terminal blocks | | | | | | | | | | | |
|  | Version | | Article No. | | | | | | | | |
| | Through-type terminal with screw connection | | 8WH1000-0AF00 | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |
| Shield terminal | | | | | | | | | | | |
|  | Terminal area | | Article No. | | | | | | | | |
| | 3...12 mm | | 3LD9228-1G | ■ | ■ | ■ | ■ | ■ | ■ | ■ | |


3LD switch disconnectors

Accessories for 3LD2 switch disconnectors in enclosure

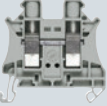

Additional poles

| | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) |
|---|--|------------------------|-----------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Switching contacts for N conductor (4th contact) | | | | | | | | |
|  | Contacts | Article No. | | | | | | |
| | Leading switch-on, lagging switch-off | 3LD9220-0C | | ■ | ■ | | | |
| | | 3LD9250-OCA | | | | ■ | | |
| | | 3LD9280-0C | | | | | ■ | ■ |
| N/PE terminals | | | | | | | | |
|  | Contacts | Article No. | | | | | | |
| | Through-type | 3LD9200-2C | ■ | | | | | |
| | | 3LD9220-2C | | ■ | ■ | | | |
| | | 3LD9250-2CA | | | | ■ | | |
| | 3LD9280-2C | | | | | ■ | ■ | |
| Auxiliary switches (standard version) | | | | | | | | |
|  | <ul style="list-style-type: none"> For mounting on the left and/or right Lagging switch-on, leading switch-off | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ | ■ |
| | | Gold-plated | 3LD9200-5CF | ■ | ■ | ■ | ■ | ■ |
| | 2 NO + 1 NC | Standard | 3LD9200-6C | ■ | ■ | ■ | ■ | ■ |
| Auxiliary switch for mounting on the front | | | | | | | | |
|  | <ul style="list-style-type: none"> Mounted on the front of the switch shaft For long leading times (20 ... 150 ms) | | | | | | | |
| | Contacts | Contact surface | Article No. | | | | | |
| | 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | ■ | ■ | ■ | ■ |
| | Gold-plated | 3LD9280-5DF new | ■ | ■ | ■ | ■ | ■ | |

Operating mechanisms

| | | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) |
|---|--|--------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| Rotary operating mechanisms | | | | | | | | |
|  | <ul style="list-style-type: none"> Lockable in 0 position with up to 3 padlocks | | | | | | | |
| | Version | Article No. | | | | | | |
| | Main control switches | 3LD9224-1G | ■ | ■ | ■ | | | |
| | | 3LD9284-1G | | | | ■ | ■ | ■ |
| | EMERGENCY-STOP switches | 3LD9224-3G | ■ | ■ | ■ | | | |
| | | 3LD9284-3G | | | | ■ | ■ | ■ |

Connection parts

| | | 3LD20 (16 A) | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD28 (125 A) |
|---|---|--------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Reihenklemme | | | | | | | |
|  | Version | Article No. | | | | | |
| | Through-type terminal with screw connection | 8WH1000-0AF00 | ■ | ■ | ■ | ■ | ■ |
| Shield terminal | | | | | | | |
|  | Terminal area | Article No. | | | | | |
| | 3...12 mm | 3LD9228-1G | ■ | ■ | ■ | ■ | ■ |

3LD switch disconnectors

System overview of 3LD5 UL main control and EMERGENCY-STOP switches **new**

Basic units for front mounting



3LD5020 (3-pole)



3LD5020 (4-pole)



3LD5420 (3-pole)



3LD5420 (4-pole)

Basic units, floor mounting with direct operating mechanism



3LD5000 (3-pole)



3LD5000 (4-pole)



3LD5400 (3-pole)



3LD5400 (4-pole)

Basic units, floor mounting with door-coupling rotary operating mechanism



3LD5010 (3-pole)



3LD5010 (4-pole)



3LD5410 (3-pole)



3LD5410 (4-pole)

Additional poles and auxiliary switches



N switching contact



N/PE terminals (through-type)



Auxiliary switches (standard version)



Auxiliary switch for mounting on the front

Operating mechanisms



Rotary operators for four-hole mounting



Coupling heads with and without tolerance compensation



Supplementary handles for UL508A/NFPA79



Switching shafts

Other accessories



Terminal covers, 1-pole



Terminal covers, 3 and 4-pole



Inscription labels (with and without inscription)

Note:

You will find a detailed range of accessories with the basic units.

3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,
front mounting, SCCR 50 - 65 kA

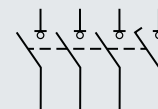
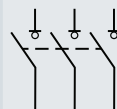


Operating mechanisms, black

Number of poles

3P

3P+N



| Uninterrupted current I_u At AC-21A, 380 ... 440 V | I_n / General use acc. UL489/508 | Operational power P At AC-23A, 380 ... 440 V | | |
|---|---------------------------------------|---|---------------|---------------|
| Rotary operating mechanism, four-hole mounting | | | | |
| 32 | 30 | 15 | 3LD5020-OTK11 | 3LD5020-OTL11 |
| 100 | 100 | 45 | 3LD5420-OTK11 | 3LD5420-OTL11 |
| 125 | 125 | 55 | 3LD5620-OTK11 | 3LD5620-OTL11 |
| 160 | 150 | 75 | 3LD5820-OTK11 | 3LD5820-OTL11 |

Scope of supply:

- Including terminal covers for the infeed side

Accessories for front mounting

3LD50

3LD54

3LD56

3LD58

Switching contacts for N conductor (4th contact)



Contacts

Leading switch-on, lagging switch-off

Article No.

3LD9250-0BA

3LD9240-0B

| | | | |
|-------|-------|-------|-------|
| 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| ■ | ■ | ■ | ■ |

N/PE terminals



Contacts

Through-type

Article No.

3LD9250-2BA

3LD9240-2B

| | | | |
|-------|-------|-------|-------|
| 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| ■ | ■ | ■ | ■ |

Auxiliary switches (standard version)



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5B

3LD9200-5BF

| | | | |
|-------|-------|-------|-------|
| 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ |

Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9280-5D **new**3LD9240-5D **new**3LD9280-5DF **new**3LD9240-5DF **new**

| | | | |
|-------|-------|-------|-------|
| 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ |

Rotary operating mechanisms



- Auxiliary switch for mounting on the front

Version

For main control switches

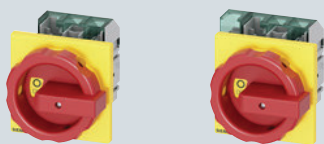
For EMERGENCY-STOP switches

Article No.

3LD9284-1B

3LD9284-3B

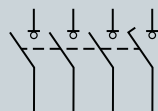
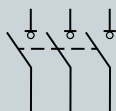
| | | | |
|-------|-------|-------|-------|
| 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| ■ | ■ | ■ | ■ |



Operating mechanisms, red/yellow

3P

3P+N



3LD5020-OTK13

3LD5020-OTL13

3LD5420-OTK13

3LD5420-OTL13

3LD5620-OTK13

3LD5620-OTL13

3LD5820-OTK13

3LD5820-OTL13

3LD50 3LD54 3LD56 3LD58

Knob-operated mechanisms



- Lockable in 0 position with up to 3 padlocks

| Version | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------------------|-------------|-------|-------|-------|-------|
| For main control switches | 3LD9243-1B | | ■ | ■ | ■ |
| For EMERGENCY-STOP switches | 3LD9284-3B | | ■ | ■ | ■ |

Terminal covers

- Pack of 4 units



| Number of poles | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------|-------------|-------|-------|-------|-------|
| 1-pole | 3LD9251-2A | ■ | | | |
| | 3LD9241-2A | | ■ | ■ | ■ |



| | | | | | |
|--------|------------|---|--|--|--|
| 3-pole | 3LD9251-0A | ■ | | | |
|--------|------------|---|--|--|--|

Inscription labels



- Pack of 10 units

| Inscription | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--|-------------|-------|-------|-------|-------|
| German / English (Hauptschalter / Main Switch) | 3LD9286-1A | ■ | ■ | ■ | ■ |
| Without inscription | 3LD9286-4A | ■ | ■ | ■ | ■ |

3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,
floor mounting with direct operating mechanism, SCCR 50 ... 65 kA

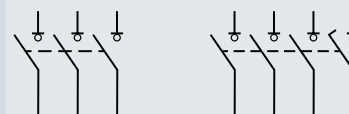


Operating mechanisms, black

Number of poles

3P

3P+N



| Uninterrupted current I_u At AC-21A, 380 ... 440 V | I_n / General use acc. UL489/508 | Operational power P At AC-23A, 380 ... 440 V | | |
|---|---------------------------------------|---|---------------|---------------|
| Rotary operating mechanism, four-hole mounting | | | | |
| 32 | 30 | 15 | 3LD5000-OTK11 | 3LD5000-OTL11 |
| 100 | 100 | 45 | 3LD5400-OTK11 | 3LD5400-OTL11 |
| 125 | 125 | 55 | 3LD5600-OTK11 | 3LD5600-OTL11 |
| 160 | 150 | 75 | 3LD5800-OTK11 | 3LD5800-OTL11 |

8

Scope of supply:

- Including terminal covers for the infeed side

Accessories for floor mounting with direct operating mechanisms

3LD50

3LD54

3LD56

3LD58

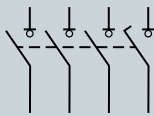
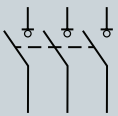
| Switching contacts for N conductor (4th contact) | | | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|---|---------------------------------------|--|--------------------|-------|-------|-------|-------|
|  | Contacts | | Article No. | | | | |
| | Leading switch-on, lagging switch-off | | 3LD9250-OCA | ■ | | | |
| | | | 3LD9240-OC | | ■ | ■ | ■ |
| N/PE terminals | | | | | | | |
|  | Contacts | | Article No. | | | | |
| | Through-type | | 3LD9250-2CA | ■ | | | |
| | | | 3LD9240-2C | | ■ | ■ | ■ |
| Auxiliary switches | | | | | | | |
|  | | <ul style="list-style-type: none"> • For mounting on the left and/or right • Lagging switch-on, leading switch-off | | | | | |
| | Contacts | | Article No. | | | | |
| | 1 NO + 1 NC | Contact surface Standard Gold-plated | 3LD9200-5C | ■ | ■ | ■ | ■ |
| | | 3LD9200-5CF | ■ | ■ | ■ | ■ | |
| Terminal covers | | | | | | | |
|  | | <ul style="list-style-type: none"> • Pack of 4 units | | | | | |
| | Number of poles | | Article No. | | | | |
| | 1-pole | | 3LD9251-2A | ■ | | | |
| | | | 3LD9241-2A | | ■ | ■ | ■ |
| | 3-pole | | 3LD9251-0A | ■ | | | |



Operating mechanisms, red/yellow

3P

3P+N



3LD5000-OTK13

3LD5000-OTL13

3LD5400-OTK13

3LD5400-OTL13

3LD5600-OTK13

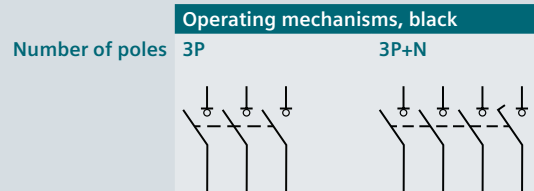
3LD5600-OTL13

3LD5800-OTK13

3LD5800-OTL13

3LD switch disconnectors

3LD5 UL main control and EMERGENCY-STOP switches,
floor mounting with door-coupling rotary operating mechanism, SCCR 50 ... 65 kA



| Uninterrupted current I_u At AC-21A, 380 ... 440 V | I_n / General use acc. UL489/508 | Operational power P At AC-23A, 380 ... 440 V | | |
|---|---------------------------------------|---|---------------|---------------|
| Rotary operating mechanism, four-hole mounting | | | | |
| 32 | 30 | 15 | 3LD5010-0TK11 | 3LD5010-0TL11 |
| 100 | 100 | 45 | 3LD5410-0TK11 | 3LD5410-0TL11 |
| 125 | 125 | 55 | 3LD5610-0TK11 | 3LD5610-0TL11 |
| 160 | 150 | 75 | 3LD5810-0TK11 | 3LD5810-0TL11 |

Scope of supply:

- Including terminal covers for the infeed side
- Defeatable door-coupling rotary operating mechanisms
- Without tolerance compensation

Accessories for floor mounting with door mounted rotary operator

3LD50 3LD54 3LD56 3LD58

Switching contacts for N conductor (4th contact)

| Contacts | Article No. | | | | |
|---------------------------------------|-------------|-------|-------|-------|-------|
| | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| Leading switch-on, lagging switch-off | 3LD9250-0CA | ■ | | | |
| | 3LD9240-0C | | ■ | ■ | ■ |

N/PE terminals

| Contacts | Article No. | | | | |
|--------------|-------------|-------|-------|-------|-------|
| | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| Through-type | 3LD9250-2CA | ■ | | | |
| | 3LD9240-2C | | ■ | ■ | ■ |

Auxiliary switches (standard version)

- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

| Contacts | Contact surface | Article No. | | | | |
|-------------|-----------------|-------------|-------|-------|-------|-------|
| | | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| 1 NO + 1 NC | Standard | 3LD9200-5C | ■ | ■ | ■ | ■ |
| | Vergoldet | 3LD9200-5CF | ■ | ■ | ■ | ■ |

Auxiliary switch for mounting on the front

- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

| Contacts | Contact surface | Article No. | | | | |
|-------------|-----------------|------------------------|-------|-------|-------|-------|
| | | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| 1 NO + 1 NC | Standard | 3LD9280-5D new | ■ | | | |
| | | 3LD9240-5D new | | ■ | ■ | ■ |
| | Gold-plated | 3LD9280-5DF new | ■ | | | |
| | | 3LD9240-5DF new | | ■ | ■ | ■ |

Handles

- Supplied with a masking frame, but without an extension shaft or coupling driver
- Can be locked with up to 3 padlocks

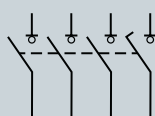
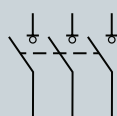
| Labeling | Color | Article No. | | | | |
|----------|------------|---------------|-------|-------|-------|-------|
| | | | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
| O-I | Gray | 8UD1771-2AD01 | ■ | | | |
| | | 8UD1731-2AD01 | | ■ | ■ | ■ |
| | Red/yellow | 8UD1771-2AD05 | ■ | | | |
| | | 8UD1731-2AD05 | | ■ | ■ | ■ |



Operating mechanisms, red/yellow

3P

3P+N



| | |
|---------------|---------------|
| 3LD5010-OTK13 | 3LD5010-OTL13 |
| 3LD5410-OTK13 | 3LD5410-OTL13 |
| 3LD5610-OTK13 | 3LD5610-OTL13 |
| 3LD5810-OTK13 | 3LD5810-OTL13 |

| | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--|-------|-------|-------|-------|
|--|-------|-------|-------|-------|

Supplementary handles for door-coupling rotary operating mechanism



- For requirements according to UL508A/NFPA79
- Can be locked with up to 1 padlocks in 0 position
- Can only be switched on by deliberate action

| Labeling | Color | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|----------|------------|-------------|-------|-------|-------|-------|
| O-I | Gray | 3LD9287-1C | ■ | | | |
| | | 3LD9247-1C | | ■ | ■ | ■ |
| | Red/yellow | 3LD9287-3C | ■ | | | |
| | | 3LD9247-3C | | ■ | ■ | ■ |

Coupling drivers



| Version | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--------------------------------|---------------|-------|-------|-------|-------|
| With tolerance compensation | 8UD1900-1GA00 | ■ | | | |
| | 8UD1900-2GA00 | | ■ | ■ | ■ |
| Without tolerance compensation | 8UD1900-1HA00 | ■ | | | |
| | 8UD1900-2HA00 | | ■ | ■ | ■ |

Terminal covers

- Pack of 4 units



| Number of poles | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------|-------------|-------|-------|-------|-------|
| 1-pole | 3LD9251-2A | ■ | | | |
| | 3LD9241-2A | | ■ | ■ | ■ |
| 3-pole | 3LD9251-0A | ■ | | | |

Inscription labels



- Pack of 10 units

| Inscription | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--|-------------|-------|-------|-------|-------|
| German / English (Hauptschalter / Main Switch) | 3LD9286-1A | ■ | ■ | ■ | ■ |
| Without inscription | 3LD9286-4A | ■ | ■ | ■ | ■ |

3LD switch disconnectors

Accessories for 3LD5 UL main control and EMERGENCY-STOP switches

Additional poles

3LD50 3LD54 3LD56 3LD58

Switching contacts for N conductor (4th contact) for front mounting



Contacts

Leading switch-on, lagging switch-off

Article No.

3LD9250-0BA

3LD9240-0B

■

■

■

■

Switching contacts for N conductor (4th contact) for floor mounting



Contacts

Leading switch-on, lagging switch-off

Article No.

3LD9250-0CA

3LD9240-0C

■

■

■

■

N/PE terminals for front mounting



Contacts

Through-type

Article No.

3LD9250-2BA

3LD9240-2B

■

■

■

■

N/PE terminals for floor mounting



Contacts

Through-type

Article No.

3LD9250-2CA

3LD9240-2C

■

■

■

■

Auxiliary switches (standard version) for front mounting



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5B

3LD9200-5BF

■

■

■

■

■

■

■

■

Auxiliary switches (standard version) for floor mounting



- For mounting on the left and/or right
- Lagging switch-on, leading switch-off

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9200-5C

3LD9200-5CF

■

■

■

■

■

■

■

■

Auxiliary switch for mounting on the front



- Mounted on the front of the switch shaft
- For long leading times (20 ... 150ms)

Contacts

1 NO + 1 NC

Contact surface

Standard

Gold-plated

Article No.

3LD9280-5D **new**

3LD9240-5D **new**

3LD9280-5DF **new**

3LD9240-5DF **new**

■

■

■

■

■

■

■

■

■

■

■

■

Operating mechanisms

3LD50 3LD54 3LD56 3LD58

Rotary operating mechanism for front mounting



- Lockable in 0 position with up to 3 padlocks

| Version | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------------------|-------------|-------|-------|-------|-------|
| For main control switches | 3LD9284-1B | ■ | | | |
| For EMERGENCY-STOP switches | 3LD9284-3B | ■ | | | |

Knob-operated mechanism for front mounting



- Lockable in 0 position with up to 3 padlocks

| Version | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------------------|-------------|-------|-------|-------|-------|
| For main control switches | 3LD9243-1B | | ■ | ■ | ■ |
| For EMERGENCY-STOP switches | 3LD9284-3B | | ■ | ■ | ■ |

Handles for floor mounting



- Supplied with a masking frame, but without an extension shaft or coupling driver
- Can be locked with up to 3 padlocks

| Labeling | Color | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|----------|------------|---------------|-------|-------|-------|-------|
| O-I | Gray | 8UD1771-2AD01 | ■ | | | |
| | | 8UD1731-2AD01 | | ■ | ■ | ■ |
| | Red/yellow | 8UD1771-2AD05 | ■ | | | |
| | | 8UD1731-2AD05 | | ■ | ■ | ■ |

Supplementary handles for door-coupling rotary operating mechanism



- For requirements according to UL508A/NFPA79
- Can be locked with up to 1 padlocks in 0 position
- Can only be switched on by deliberate action

| Labeling | Color | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|----------|------------|-------------|-------|-------|-------|-------|
| O-I | Gray | 3LD9287-1C | ■ | | | |
| | | 3LD9247-1C | | ■ | ■ | ■ |
| | Red/yellow | 3LD9287-3C | ■ | | | |
| | | 3LD9247-3C | | ■ | ■ | ■ |

Coupling drivers for floor mounting with door-coupling rotary operating mechanism



| Version | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--------------------------------|---------------|-------|-------|-------|-------|
| With tolerance compensation | 8UD1900-1GA00 | ■ | | | |
| | 8UD1900-2GA00 | | ■ | ■ | ■ |
| Without tolerance compensation | 8UD1900-1HA00 | ■ | | | |
| | 8UD1900-2HA00 | | ■ | ■ | ■ |

Other accessories

3LD50 3LD54 3LD56 3LD58

Terminal covers

- Pack of 4 units



| Number of poles | Article No. | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|-----------------|-------------|-------|-------|-------|-------|
| 1-pole | 3LD9251-2A | ■ | | | |
| | 3LD9241-2A | | ■ | ■ | ■ |



| | | | | | |
|--------|------------|---|--|--|--|
| 3-pole | 3LD9251-0A | ■ | | | |
|--------|------------|---|--|--|--|

Inscription labels

- Pack of 10 units



| Inscription | 3LD50 | 3LD54 | 3LD56 | 3LD58 |
|--|-------|-------|-------|-------|
| German / English (Hauptschalter / Main Switch) | | | ■ | ■ |
| Without inscription | | | ■ | ■ |

3KD switch disconnectors

System overview

Complete assemblies with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



Front-mounted devices, 6-pole for DC applications

8

Additional poles and auxiliary switch modules



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



Handles for door-coupling rotary operating mechanisms



Other accessories for door-coupling rotary operating mechanisms

Other accessories and spare parts



Auxiliary switches



Terminal covers



Phase barriers



Blocking pin test function



Mounting elements



Accessories for DC applications

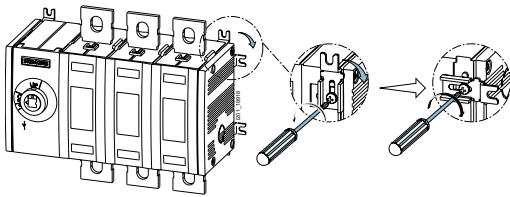
Note:

You will find a detailed range of accessories with the basic units.



Types of mounting

Floor mounting

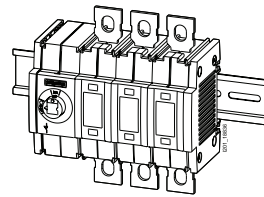


All 3KD switch disconnectors are designed for floor mounting. To ensure that the switch can be flexibly adapted to the relevant installation conditions, the mounting bracket can be rotated through 90° with size 3 or larger.

You will find further information under:
sie.ag/2UlrAvy



Standard mounting rail

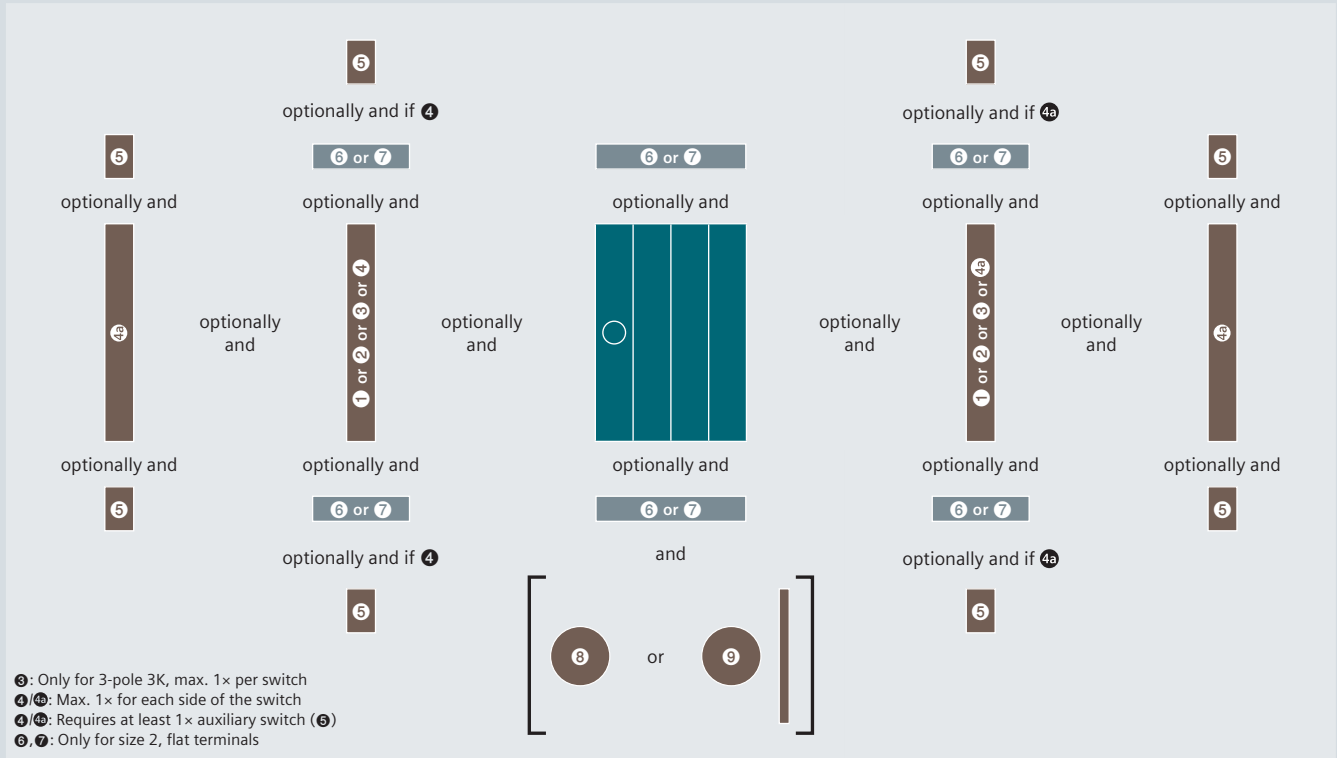


Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.

3KD switch disconnectors

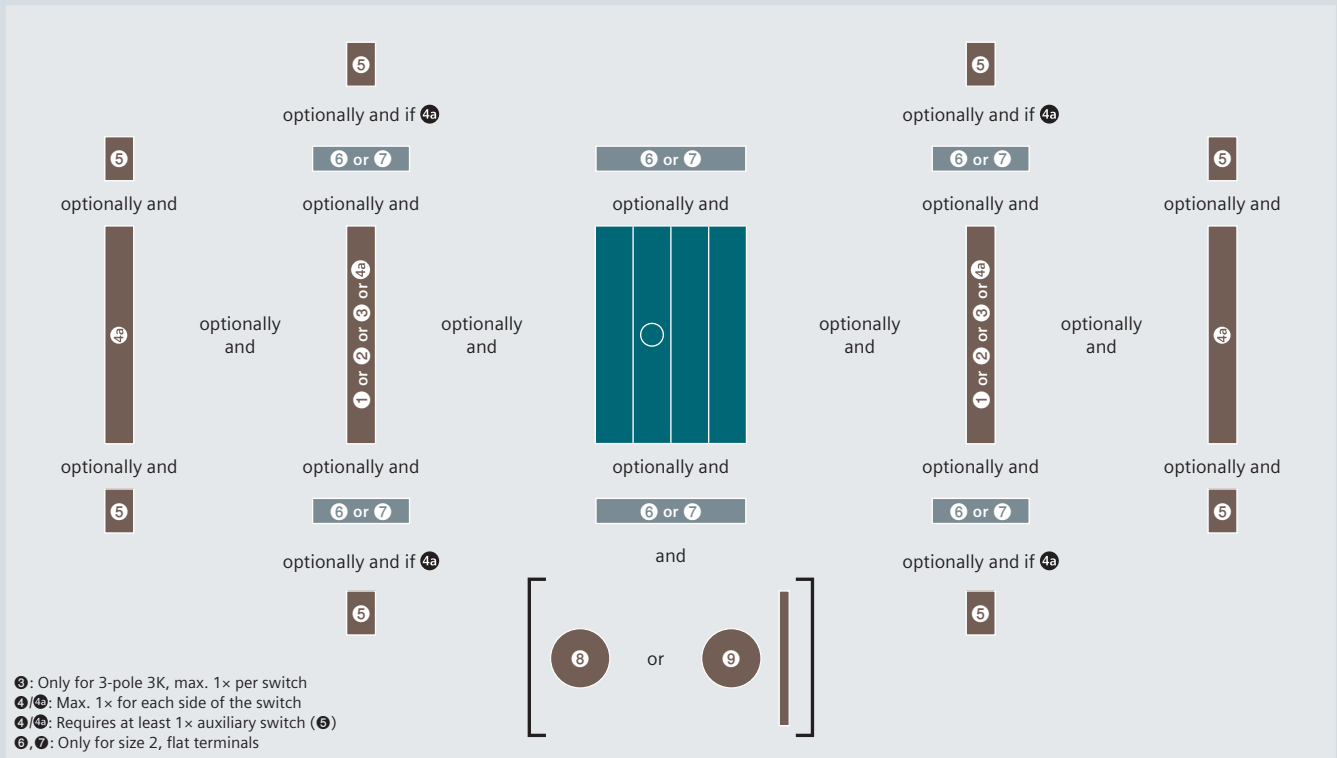
Mounting concept and accessories

Front operating mechanism left, sizes 1 and 2, 3/4-pole

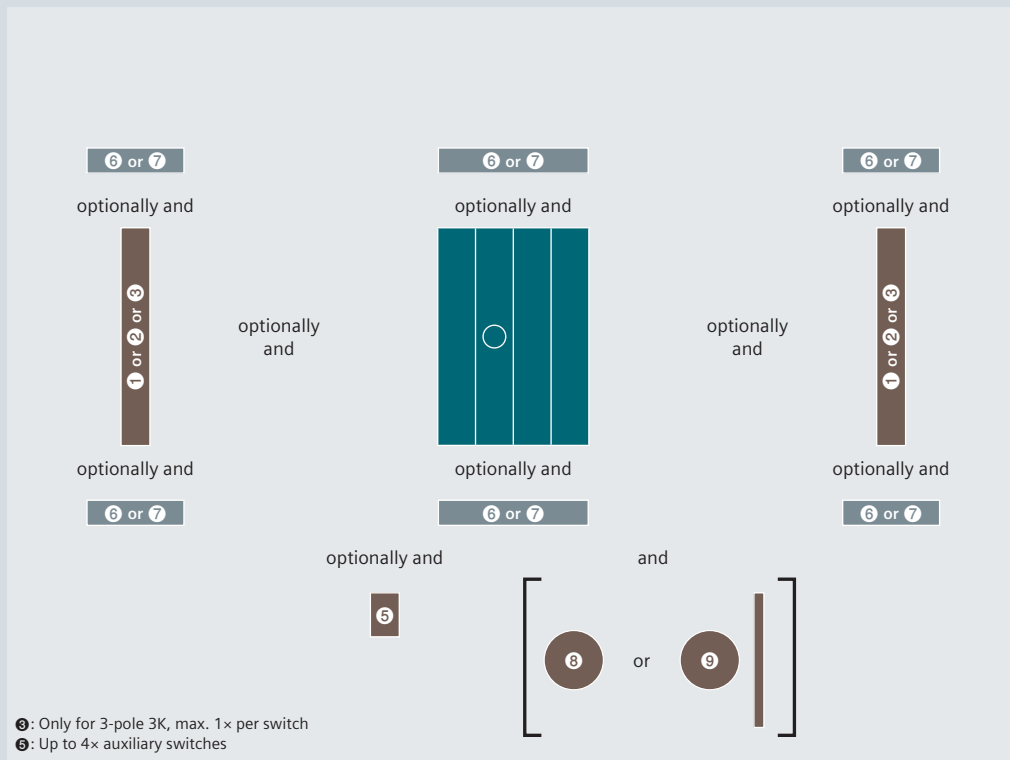


8

Front operating mechanism center, size 1 and 2, 3/4-pole



Front operating mechanism center or left, sizes 3 to 5, 3/4-pole



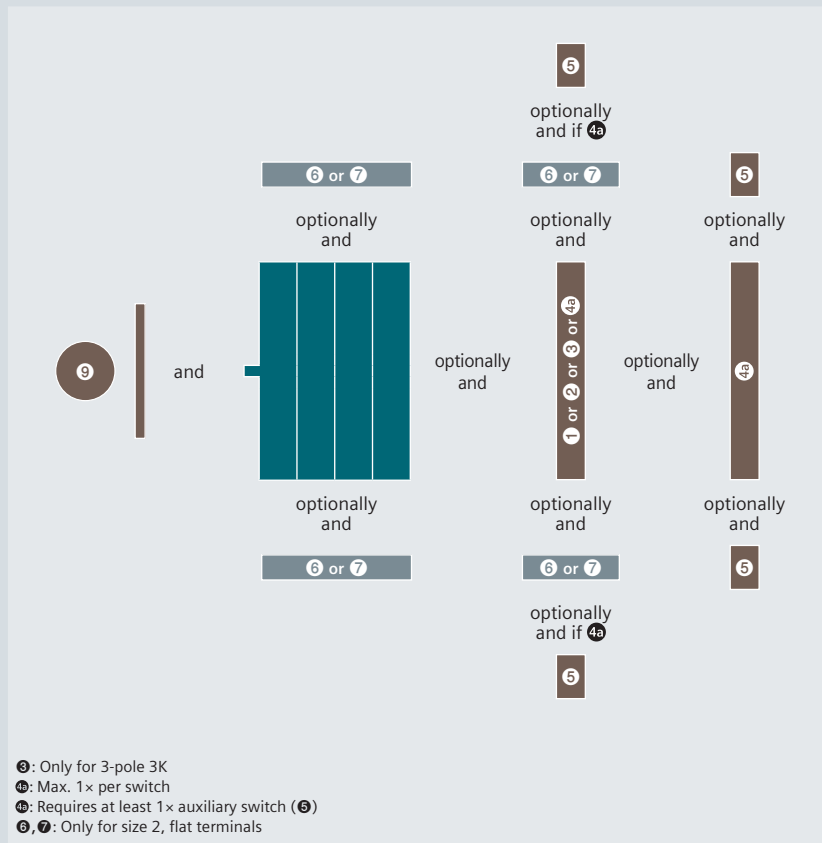
Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④ Auxiliary switch module, version with test function and version with leading NO contact and test function
- ④b Auxiliary switch module for auxiliary switches, standard version
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

3KD switch disconnectors

Mounting concept and accessories

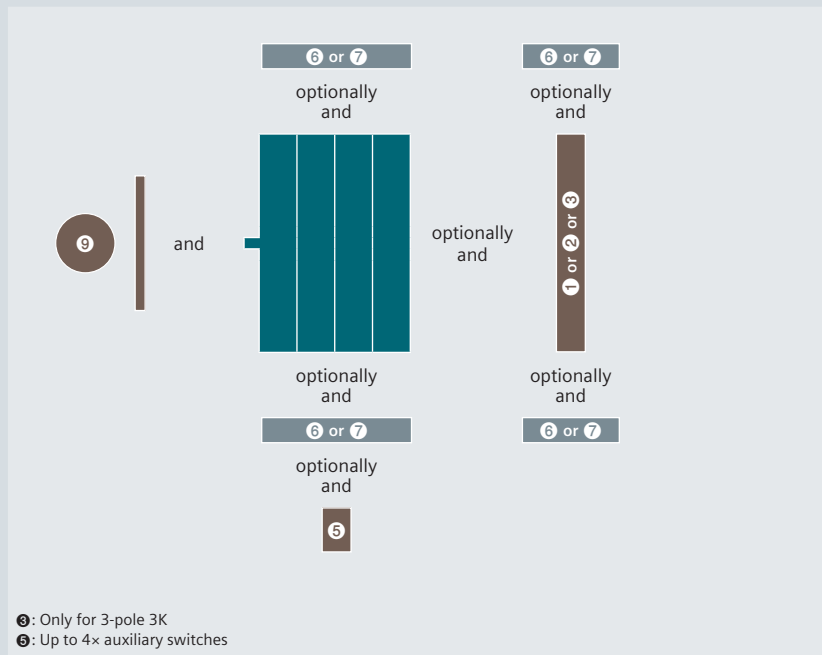
Lateral operating mechanism left, sizes 1 and 2, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches, standard version
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

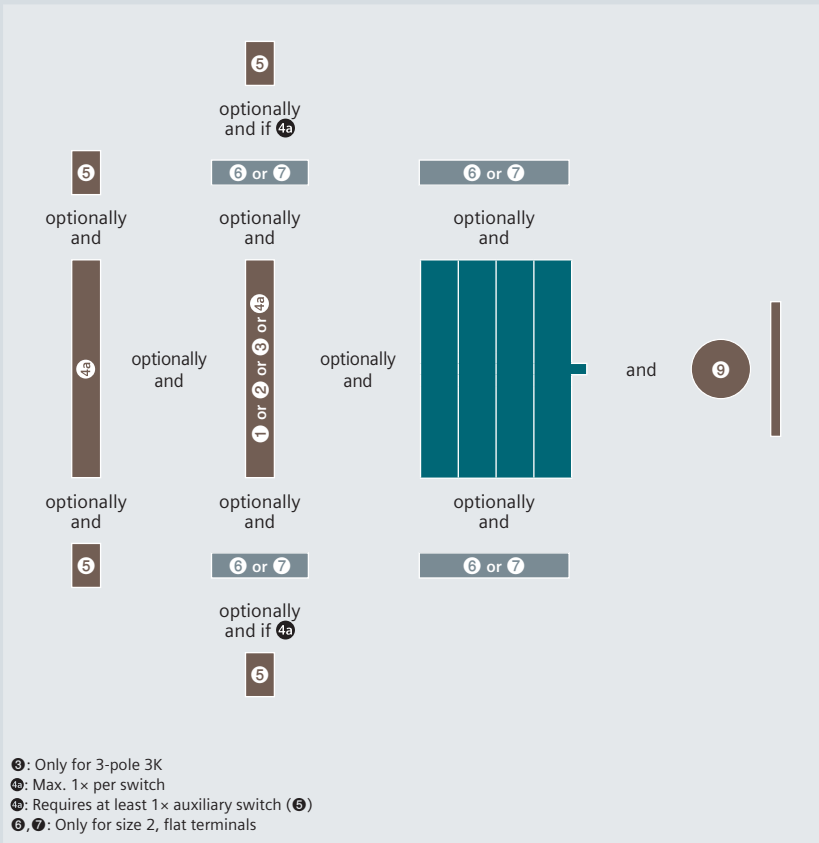
Lateral operating mechanism left, sizes 3 to 5, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

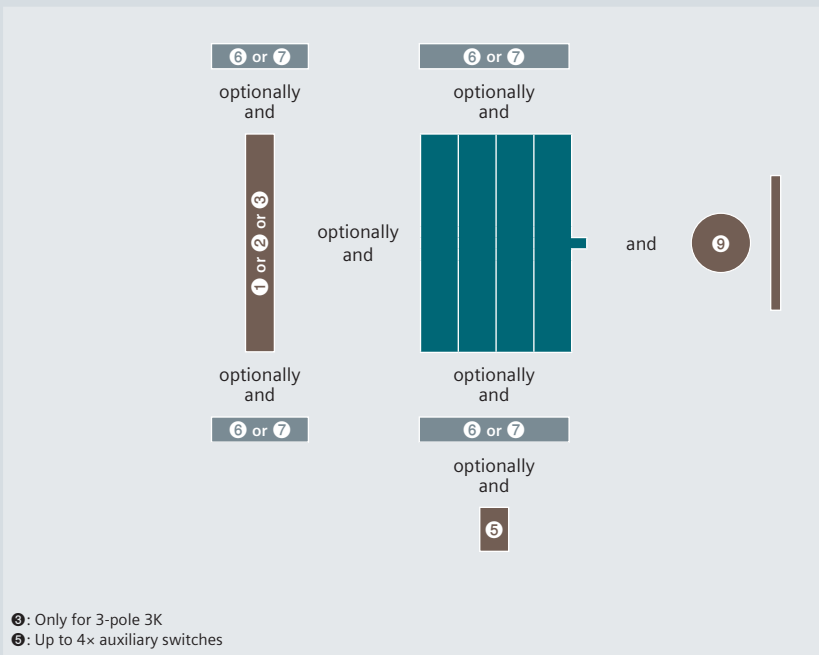
Lateral operating mechanism right, sizes 1 and 2, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches, standard version
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

Lateral operating mechanism right, sizes 3 to 5, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

3KD switch disconnectors



| Number of poles | Complete assemblies with direct operating mechanisms Front operating mechanism Left | | Basic units without handle Front operating mechanism Left | | | Center |
|-----------------|--|-----------------|--|-----------------|-----------------|-----------------|
| | 3P | 4P | 3P | 4P | 3P | 3P |
| | | | | | | |
| Size | Uninterrupted current I_u | | | | | |
| Box terminals | | | | | | |
| 1 | 16 A | 3KD1632-2ME10-0 | 3KD1642-2ME10-0 | 3KD1630-2ME10-0 | 3KD1640-2ME10-0 | 3KD1630-2ME20-0 |
| | 32 A | 3KD2232-2ME10-0 | 3KD2242-2ME10-0 | 3KD2230-2ME10-0 | 3KD2240-2ME10-0 | 3KD2230-2ME20-0 |
| | 63 A | 3KD2632-2ME10-0 | 3KD2642-2ME10-0 | 3KD2630-2ME10-0 | 3KD2640-2ME10-0 | 3KD2630-2ME20-0 |
| | 80 A new | 3KD2832-2ME10-0 | 3KD2842-2ME10-0 | 3KD2830-2ME10-0 | 3KD2840-2ME10-0 | 3KD2830-2ME20-0 |
| | 100 A new | 3KD3032-2ME10-0 | 3KD3042-2ME10-0 | 3KD3030-2ME10-0 | 3KD3040-2ME10-0 | 3KD3030-2ME20-0 |
| 2 | 80 A | 3KD2832-2NE10-0 | 3KD2842-2NE10-0 | 3KD2830-2NE10-0 | 3KD2840-2NE10-0 | 3KD2830-2NE20-0 |
| | 100 A | 3KD3032-2NE10-0 | 3KD3042-2NE10-0 | 3KD3030-2NE10-0 | 3KD3040-2NE10-0 | 3KD3030-2NE20-0 |
| | 125 A | 3KD3232-2NE10-0 | 3KD3242-2NE10-0 | 3KD3230-2NE10-0 | 3KD3240-2NE10-0 | 3KD3230-2NE20-0 |
| | 160 A | 3KD3432-2NE10-0 | 3KD3442-2NE10-0 | 3KD3430-2NE10-0 | 3KD3440-2NE10-0 | 3KD3430-2NE20-0 |
| Flat terminals | | | | | | |
| 2 | 80 A | 3KD2832-0NE10-0 | 3KD2842-0NE10-0 | 3KD2830-0NE10-0 | 3KD2840-0NE10-0 | 3KD2830-0NE20-0 |
| | 100 A | 3KD3032-0NE10-0 | 3KD3042-0NE10-0 | 3KD3030-0NE10-0 | 3KD3040-0NE10-0 | 3KD3030-0NE20-0 |
| | 125 A | 3KD3232-0NE10-0 | 3KD3242-0NE10-0 | 3KD3230-0NE10-0 | 3KD3240-0NE10-0 | 3KD3230-0NE20-0 |
| | 160 A | 3KD3432-0NE10-0 | 3KD3442-0NE10-0 | 3KD3430-0NE10-0 | 3KD3440-0NE10-0 | 3KD3430-0NE20-0 |
| | 200 A | 3KD3632-0NE10-0 | 3KD3642-0NE10-0 | 3KD3630-0NE10-0 | 3KD3640-0NE10-0 | 3KD3630-0NE20-0 |
| | 250 A new | 3KD3832-0NE10-0 | 3KD3842-0NE10-0 | 3KD3830-0NE10-0 | 3KD3840-0NE10-0 | 3KD3830-0NE20-0 |
| 3 | 200 A | 3KD3632-0PE10-0 | 3KD3642-0PE10-0 | 3KD3630-0PE10-0 | 3KD3640-0PE10-0 | 3KD3630-0PE20-0 |
| | 250 A | 3KD3832-0PE10-0 | 3KD3842-0PE10-0 | 3KD3830-0PE10-0 | 3KD3840-0PE10-0 | 3KD3830-0PE20-0 |
| | 315 A | 3KD4032-0PE10-0 | 3KD4042-0PE10-0 | 3KD4030-0PE10-0 | 3KD4040-0PE10-0 | 3KD4030-0PE20-0 |
| | 400 A | 3KD4232-0PE10-0 | 3KD4242-0PE10-0 | 3KD4230-0PE10-0 | 3KD4240-0PE10-0 | 3KD4230-0PE20-0 |
| | 500 A new | 3KD4432-0PE10-0 | 3KD4442-0PE10-0 | 3KD4430-0PE10-0 | 3KD4440-0PE10-0 | 3KD4430-0PE20-0 |
| 4 | 500 A | 3KD4432-0QE10-0 | 3KD4442-0QE10-0 | 3KD4430-0QE10-0 | 3KD4440-0QE10-0 | 3KD4430-0QE20-0 |
| | 630 A | 3KD4632-0QE10-0 | 3KD4642-0QE10-0 | 3KD4630-0QE10-0 | 3KD4640-0QE10-0 | 3KD4630-0QE20-0 |
| | 800 A | 3KD4832-0QE10-0 | 3KD4842-0QE10-0 | 3KD4830-0QE10-0 | 3KD4840-0QE10-0 | 3KD4830-0QE20-0 |
| | 1000 A new | 3KD5032-0QE10-0 | 3KD5042-0QE10-0 | 3KD5030-0QE10-0 | 3KD5040-0QE10-0 | 3KD5030-0QE20-0 |
| 5 | 1000 A | 3KD5032-0RE10-0 | 3KD5042-0RE10-0 | 3KD5030-0RE10-0 | 3KD5040-0RE10-0 | 3KD5030-0RE20-0 |
| | 1250 A | 3KD5232-0RE10-0 | 3KD5242-0RE10-0 | 3KD5230-0RE10-0 | 3KD5240-0RE10-0 | 3KD5230-0RE20-0 |
| | 1600 A | 3KD5432-0RE10-0 | 3KD5442-0RE10-0 | 3KD5430-0RE10-0 | 3KD5440-0RE10-0 | 3KD5430-0RE20-0 |
| | 2000 A new | 3KD5632-0RE10-0 | 3KD5642-0RE10-0 | 3KD5630-0RE10-0 | 3KD5640-0RE10-0 | 3KD5630-0RE20-0 |

Scope of supply:

- Incl. terminal covers on input and output side for sizes 01 and 02
- Incl. phase barriers for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms.

Mounting:

- The switch disconnectors are designed for floor mounting and the sizes 01, 02, 1 and 2 can optionally also be mounted on standard mounting rails.



| | | Lateral operating mechanism Left | | Right | |
|-----------------|------------------------|-------------------------------------|-----------------|-----------------|-----------------|
| 4P | 6P for DC applications | 3P | 4P | 3P | 4P |
| | | | | | |
| 3KD1640-2ME20-0 | 3KD1660-2ME20-0 | 3KD1634-2ME10-0 | 3KD1644-2ME10-0 | 3KD1634-2ME40-0 | 3KD1644-2ME40-0 |
| 3KD2240-2ME20-0 | 3KD2260-2ME20-0 | 3KD2234-2ME10-0 | 3KD2244-2ME10-0 | 3KD2234-2ME40-0 | 3KD2244-2ME40-0 |
| 3KD2640-2ME20-0 | 3KD2660-2ME20-0 | 3KD2634-2ME10-0 | 3KD2644-2ME10-0 | 3KD2634-2ME40-0 | 3KD2644-2ME40-0 |
| 3KD2840-2ME20-0 | – | 3KD2834-2ME10-0 | 3KD2844-2ME10-0 | 3KD2834-2ME40-0 | 3KD2844-2ME40-0 |
| 3KD3040-2ME20-0 | – | 3KD3034-2ME10-0 | 3KD3044-2ME10-0 | 3KD3034-2ME40-0 | 3KD3044-2ME40-0 |
| 3KD2840-2NE20-0 | 3KD2860-2NE20-0 | 3KD2834-2NE10-0 | 3KD2844-2NE10-0 | 3KD2834-2NE40-0 | 3KD2844-2NE40-0 |
| 3KD3040-2NE20-0 | 3KD3060-2NE20-0 | 3KD3034-2NE10-0 | 3KD3044-2NE10-0 | 3KD3034-2NE40-0 | 3KD3044-2NE40-0 |
| 3KD3240-2NE20-0 | 3KD3260-2NE20-0 | 3KD3234-2NE10-0 | 3KD3244-2NE10-0 | 3KD3234-2NE40-0 | 3KD3244-2NE40-0 |
| 3KD3440-2NE20-0 | 3KD3460-2NE20-0 | 3KD3434-2NE10-0 | 3KD3444-2NE10-0 | 3KD3434-2NE40-0 | 3KD3444-2NE40-0 |
| 3KD2840-0NE20-0 | 3KD2860-0NE20-0 | 3KD2834-0NE10-0 | 3KD2844-0NE10-0 | 3KD2834-0NE40-0 | 3KD2844-0NE40-0 |
| 3KD3040-0NE20-0 | 3KD3060-0NE20-0 | 3KD3034-0NE10-0 | 3KD3044-0NE10-0 | 3KD3034-0NE40-0 | 3KD3044-0NE40-0 |
| 3KD3240-0NE20-0 | 3KD3260-0NE20-0 | 3KD3234-0NE10-0 | 3KD3244-0NE10-0 | 3KD3234-0NE40-0 | 3KD3244-0NE40-0 |
| 3KD3440-0NE20-0 | 3KD3460-0NE20-0 | 3KD3434-0NE10-0 | 3KD3444-0NE10-0 | 3KD3434-0NE40-0 | 3KD3444-0NE40-0 |
| 3KD3640-0NE20-0 | – | 3KD3634-0NE10-0 | 3KD3644-0NE10-0 | 3KD3634-0NE40-0 | 3KD3644-0NE40-0 |
| 3KD3840-0NE20-0 | – | 3KD3834-0NE10-0 | 3KD3844-0NE10-0 | 3KD3834-0NE40-0 | 3KD3844-0NE40-0 |
| 3KD3640-0PE20-0 | 3KD3660-0PE20-0 | 3KD3634-0PE10-0 | 3KD3644-0PE10-0 | 3KD3634-0PE40-0 | 3KD3644-0PE40-0 |
| 3KD3840-0PE20-0 | 3KD3860-0PE20-0 | 3KD3834-0PE10-0 | 3KD3844-0PE10-0 | 3KD3834-0PE40-0 | 3KD3844-0PE40-0 |
| 3KD4040-0PE20-0 | 3KD4060-0PE20-0 | 3KD4034-0PE10-0 | 3KD4044-0PE10-0 | 3KD4034-0PE40-0 | 3KD4044-0PE40-0 |
| 3KD4240-0PE20-0 | 3KD4260-0PE20-0 | 3KD4234-0PE10-0 | 3KD4244-0PE10-0 | 3KD4234-0PE40-0 | 3KD4244-0PE40-0 |
| 3KD4440-0PE20-0 | – | 3KD4434-0PE10-0 | 3KD4444-0PE10-0 | 3KD4434-0PE40-0 | 3KD4444-0PE40-0 |
| 3KD4440-0QE20-0 | 3KD4460-0QE20-0 | 3KD4434-0QE10-0 | 3KD4444-0QE10-0 | 3KD4434-0QE40-0 | 3KD4444-0QE40-0 |
| 3KD4640-0QE20-0 | 3KD4660-0QE20-0 | 3KD4634-0QE10-0 | 3KD4644-0QE10-0 | 3KD4634-0QE40-0 | 3KD4644-0QE40-0 |
| 3KD4840-0QE20-0 | 3KD4860-0QE20-0 | 3KD4834-0QE10-0 | 3KD4844-0QE10-0 | 3KD4834-0QE40-0 | 3KD4844-0QE40-0 |
| 3KD5040-0QE20-0 | – | 3KD5034-0QE10-0 | 3KD5044-0QE10-0 | 3KD5034-0QE40-0 | 3KD5044-0QE40-0 |
| 3KD5040-0RE20-0 | 3KD5060-0RE20-0 | 3KD5034-0RE10-0 | 3KD5044-0RE10-0 | 3KD5034-0RE40-0 | 3KD5044-0RE40-0 |
| 3KD5240-0RE20-0 | 3KD5260-0RE20-0 | 3KD5234-0RE10-0 | 3KD5244-0RE10-0 | 3KD5234-0RE40-0 | 3KD5244-0RE40-0 |
| 3KD5440-0RE20-0 | 3KD5460-0RE20-0 | 3KD5434-0RE10-0 | 3KD5444-0RE10-0 | 3KD5434-0RE40-0 | 3KD5444-0RE40-0 |
| 3KD5640-0RE20-0 | – | 3KD5634-0RE10-0 | 3KD5644-0RE10-0 | 3KD5634-0RE40-0 | 3KD5644-0RE40-0 |

Note:

- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose.
- All basic units without handles are suitable for use with door-coupling rotary operating mechanisms, from size 1 to size 5 these can also be equipped with direct operating mechanisms.
- The switch disconnectors with lateral operating mechanism are suitable for door-coupling rotary operating mechanisms.
- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used.











3KD switch disconnectors

Accessories

Additional poles

Note:

- Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right. Accordingly, an auxiliary switch module must not be mounted between the basic unit and an additional pole on sizes 1 and 2.
- For installation, it is important to note that only a 3-pole 3KD switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

| | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|---|--------------------|--------|--------|--------|--------|
| 4th contact elements (switching pole) | | | | | | |
|  | <ul style="list-style-type: none"> • For upgrading a 3-pole to a 4-pole switch disconnector • Identical to the factory-fitted poles • For sizes 01 and 02, leading switch-on, lagging switch-off | | | | | |
| | <p>Connection</p> <p>Box terminals</p>  | Article No. | | | | |
| | | 3KD9105-2 | ■ | | | |
| | | 3KD9205-2 | | ■ | | |
|  | <p>Flat terminals</p>  | 3KD9205-0 | | ■ | | |
| | | 3KD9305-0 | | | ■ | |
| | | 3KD9405-0 | | | | ■ |
| | | 3KD9505-0 | | | | |
| N terminals (neutral conductor terminal) with removable jumper | | | | | | |
|  | <ul style="list-style-type: none"> • A jumper can be removed in order to interrupt the electrical connection between the terminals | | | | | |
| | <p>Connection</p> <p>Box terminals</p>  | Article No. | | | | |
| | | 3KD9106-2 | ■ | | | |
| | | 3KD9206-2 | | ■ | | |
|  | <p>Flat terminals</p>  | 3KD9206-0 | | ■ | | |
| | | 3KD9306-0 | | | ■ | |
| | | 3KD9406-0 | | | | ■ |
| | | 3KD9506-0 | | | | |
| N/PE terminals with permanent jumper | | | | | | |
|  | <ul style="list-style-type: none"> • Permanent electrical connection between the terminals, cannot be broken | | | | | |
| | <p>Connection</p> <p>Box terminals</p>  | Article No. | | | | |
| | | 3KD9016-8 | | | | |
| | | 3KD9026-8 | | | | |
| | | 3KD9106-8 | ■ | | | |
| | | 3KD9206-8 | | ■ | | |
|  | <p>Flat terminals</p>  | 3KD9206-7 | | ■ | | |
| | | 3KD9306-7 | | | ■ | |
| | | 3KD9406-7 | | | | ■ |
| | | 3KD9506-7 | | | | |

Operating mechanisms

Size 1 Size 2 Size 3 Size 4 Size 5

Direct operating mechanisms, standard version

- Can be locked with up to 3 padlocks
- Requires additional mounting depth in locked state



| Labeling | Color | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|------------|------------|-------------|--------|--------|--------|--------|--------|
| Test-O-I | Gray | 3KD9101-1 | ■ | | | | |
| | | 3KD9201-1 | | ■ | | | |
| | | 3KD9301-1 | | | ■ | | |
| | | 3KD9401-1 | | | | ■ | |
| | | 3KD9501-1 | | | | | ■ |
| Red/yellow | Red/yellow | 3KD9101-2 | ■ | | | | |
| | | 3KD9201-2 | | ■ | | | |
| | | 3KD9301-2 | | | ■ | | |
| | | 3KD9401-2 | | | | ■ | |
| | | 3KD9501-2 | | | | | ■ |

Direct operating mechanisms, flat version

- Suitable for distribution boards
- Can be locked with 1 padlock
- No additional mounting depth in locked state



| Labeling | Color | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|----------|------------|-------------|--------|--------|--------|--------|--------|
| Test-O-I | Gray | 3KD9101-0 | ■ | | | | |
| | | 3KD9201-0 | | ■ | | | |
| | Red/yellow | 3KD9101-8 | ■ | | | | |
| | | 3KD9201-8 | | ■ | | | |

Door-coupling rotary operating mechanisms, complete

- Scope of supply:
 - Handle with masking plate
 - Coupling driver
 - Shaft 300 mm
- Can be locked with up to 3 padlocks



| Labeling | Tolerance compensation | Defeat function | Color | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | | |
|---------------|------------------------|-----------------|---------------|---------------|--------|--------|--------|--------|--------|--|--|
| O-I | Without | With | Gray | 8UD1171-2AD11 | ■ | ■ | | | | | |
| | | | Red/yellow | 8UD1171-2AD15 | ■ | ■ | | | | | |
| Test-O-I | With | With | Gray | 8UD1171-2AF21 | ■ | ■ | | | | | |
| | | | | 8UD1141-2AF21 | | | ■ | | | | |
| | | | | 8UD1151-3AF21 | | | | ■ | | | |
| | | | 8UD1161-4AF21 | | | | | ■ | | | |
| | | | Red/yellow | 8UD1171-2AF25 | ■ | ■ | | | | | |
| | | | | 8UD1141-2AF25 | | | ■ | | | | |
| 8UD1151-3AF25 | | | | | ■ | | | | | | |
| | | | 8UD1161-4AF25 | | | | | ■ | | | |

Note:








- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used.

3KD switch disconnectors




Accessories

Accessories for door-coupling rotary operating mechanisms



Size 1 Size 2 Size 3 Size 4 Size 5

| Handles | | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | | |
|---|------------------|---------------|---------------|---------------|---------------|--------|--------|--------|--------|---|--|
| <ul style="list-style-type: none"> Supplied with a masking frame, but without an extension shaft or coupling driver Can be locked with up to 3 padlocks | | | | | | | | | | | |
| Labeling | | | | | | | | | | | |
| Lighting | | | | | | | | | | | |
| Color | | | | | | | | | | | |
| Article No. | | | | | | | | | | | |
|     | O-I | Without | Gray | 8UD1771-2AD01 | ■ | ■ | | | | | |
| | | | | 8UD1841-2AD01 | | | ■ | | | | |
| | | | | 8UD1851-3AD01 | | | | | | ■ | |
| | | | 8UD1861-4AD01 | | | | | | | ■ | |
| | | | Red/yellow | 8UD1771-2AD05 | ■ | ■ | | | | | |
| | | | | 8UD1841-2AD05 | | | | | | ■ | |
| | 8UD1851-3AD05 | | | | | | | | ■ | | |
| | With | Gray | 8UD1861-4AD05 | | | | | | ■ | | |
| | | | 8UD1771-2CD01 | ■ | ■ | | | | | | |
| | | | 8UD1841-2CD01 | | | | | | ■ | | |
| | | | 8UD1851-3CD01 | | | | | | | ■ | |
| | | | 8UD1861-4CD01 | | | | | | | ■ | |
| | | | Red/yellow | 8UD1771-2CD05 | ■ | ■ | | | | | |
| | 8UD1841-2CD05 | | | | | | | ■ | | | |
| | 8UD1851-3CD05 | | | | | | | | ■ | | |
| | 8UD1861-4CD05 | | | | | | | | ■ | | |
| | Test-O-I | Without | | Gray | 8UD1771-2AF01 | ■ | ■ | | | | |
| | | | | | 8UD1841-2AF01 | | | | | ■ | |
| 8UD1851-3AF01 | | | | | | | | | ■ | | |
| 8UD1861-4AF01 | | | | | | | | | ■ | | |
| Red/yellow | | | 8UD1771-2AF05 | ■ | ■ | | | | | | |
| | | | 8UD1841-2AF05 | | | | | | ■ | | |
| | | 8UD1851-3AF05 | | | | | | | ■ | | |
| With | | Gray | 8UD1861-4AF05 | | | | | | ■ | | |
| | | | 8UD1771-2CF01 | ■ | ■ | | | | | | |
| | | | 8UD1841-2CF01 | | | | | | ■ | | |
| | | | 8UD1851-3CF01 | | | | | | | ■ | |
| | | | 8UD1861-4CF01 | | | | | | | ■ | |
| | Red/yellow | | 8UD1771-2CF05 | ■ | ■ | | | | | | |
| 8UD1841-2CF05 | | | | | | | ■ | | | | |
| 8UD1851-3CF05 | | | | | | | | ■ | | | |
| 8UD1861-4CF05 | | | | | | | | ■ | | | |
| Extension shafts | | | | | | | | | | | |
| <ul style="list-style-type: none"> A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2 | | | | | | | | | | | |
| Length | | | | | | | | | | | |
| Article No. | | | | | | | | | | | |
|   | 300 mm | | 8UC6032 | ■ | ■ | ■ | | | | | |
| | | | 8UC6033 | | | | | ■ | | | |
| | | | 8UC6034 | | | | | | ■ | | |
| | 600 mm | 8UC6082 | ■ | ■ | ■ | | | | | | |
| | | 8UC6083 | | | | | | ■ | | | |
| | | 8UC6084 | | | | | | | ■ | | |
| Shaft jack for 8UD1 handle | | | | | | | | | | | |
| Version | | | | | | | | | | | |
| Article No. | | | | | | | | | | | |
|  | For shaft 600 mm | | 8UD1900-0FA00 | ■ | ■ | | | | | | |
| | | | | | | | | | | | |

Accessories for door-coupling rotary operating mechanisms

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|--------------------------------|--------------------|--------|--------|--------|--------|--------|
| Coupling drivers | | | | | | | |
|  | Version | Article No. | | | | | |
| | With tolerance compensation | 8UD1900-2GA00 | ■ | ■ | | | |
| | | 8UD1900-6GA00 | | | ■ | | |
| | | 8UD1900-3GA00 | | | | ■ | |
| | | 8UD1900-4GA00 | | | | | ■ |
|  | Version | Article No. | | | | | |
| | Without tolerance compensation | 8UD1900-2HA00 | ■ | ■ | | | |
| | | 8UD1900-6HA00 | | | ■ | | |
| | | 8UD1900-3HA00 | | | | ■ | |
| | | 8UD1900-4HA00 | | | | | ■ |
| Shaft couplings | | | | | | | |
|  | | Article No. | | | | | |
| | | 8UC6022 | ■ | ■ | ■ | | |
| | | 8UC6023 | | | | ■ | |
| | | 8UC6024 | | | | | ■ |

Other accessories and spare parts

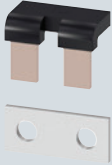

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | | |
|---|---|--------------------|------------------------|--------------------|--------|--------|--------|---|---|
| Auxiliary switch modules | | | | | | | | | |
|  | <ul style="list-style-type: none"> Auxiliary switch modules are supplied without auxiliary switches. A maximum of 2 auxiliary switches can be installed per auxiliary module The 3KD9103-6 and 3KD9103-7 auxiliary switch modules can only be used with 3KD directly on the operating mechanism if the operating mechanism is on the front or on the left | | | | | | | | |
| | Variant | Article No. | | | | | | | |
| | Standard version | 3KD9103-5 | ■ | ■ | | | | | |
| | With test function | 3KD9103-6 | ■ | ■ | | | | | |
| | With leading NO contact and test function | 3KD9103-7 | ■ | ■ | | | | | |
| Auxiliary switches | | | | | | | | | |
| <ul style="list-style-type: none"> Auxiliary switches for sizes 3 to 5 have screw terminals and are mounted on the operating mechanism module of the 3KD. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used. All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see Operating Instructions). | | | | | | | | | |
|  | Variant | Contacts | Contact surface | Article No. | | | | | |
| | With connecting cables | 1 CO | Standard | 3KD9103-1 | ■ | ■ | | | |
| | | | Solid-state compatible | 3KD9103-3 | ■ | ■ | | | |
| | Without connecting cables | 1 CO | Standard | 3KD9103-2 | ■ | ■ | | | |
| | | | Solid-state compatible | 3KD9103-4 | ■ | ■ | | | |
| | | 1 NO | Standard | 3SU1400-1AA10-1BA0 | | | ■ | ■ | ■ |
| | | | Gold-plated | 3SU1400-1AA10-1LA0 | | | ■ | ■ | ■ |
| | | 1 NC | Standard | 3SU1400-1AA10-1CA0 | | | ■ | ■ | ■ |
| | | | Gold-plated | 3SU1400-1AA10-1MA0 | | | ■ | ■ | ■ |
| | | 1 NO + 1 NC | Standard | 3SU1400-1AA10-1FA0 | | | ■ | ■ | ■ |
| | | | Gold-plated | 3SU1400-1AA10-1QA0 | | | ■ | ■ | ■ |
| | | 2 NO | Standard | 3SU1400-1AA10-1DA0 | | | ■ | ■ | ■ |
| | | | Gold-plated | 3SU1400-1AA10-1NA0 | | | ■ | ■ | ■ |
| | | 2 NC | Standard | 3SU1400-1AA10-1EA0 | | | ■ | ■ | ■ |
| Gold-plated | | | 3SU1400-1AA10-1PA0 | | | ■ | ■ | ■ | |

3KD switch disconnectors

Other accessories and spare parts

| | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|--|--------------------|--------------------|--------|--------|--------|--------|--------|
| Phase barriers | | | | | | | | |
|  | <ul style="list-style-type: none"> For 3KD with flat terminals For 3KD size 2 with flat terminals, phase barriers are already contained in the scope of supply. | | | | | | | |
| Version | Scope of supply | Article No. | | | | | | |
| For 3-pole devices | 6 units | 3KD9108-6 | | | ■ | | | |
| | | 3KD9308-6 | | | | ■ | | |
| | | 3KD9408-6 | | | | | ■ | |
| | | 3KD9508-6 | | | | | | ■ |
| For 4-pole devices | 8 units | 3KD9108-8 | | | ■ | | | |
| | | 3KD9308-8 | | | | ■ | | |
| | | 3KD9408-8 | | | | | ■ | |
| | | 3KD9508-8 | | | | | | ■ |
| Terminal covers | | | | | | | | |
|  | <ul style="list-style-type: none"> For 3KD with flat terminals Not permissible for 2000 A devices | | | | | | | |
| Version | Scope of supply | Variant | Article No. | | | | | |
| For 3-pole devices | 6 units | Standard length | 3KD9204-6 | | ■ | | | |
| | | | 3KD9304-6 | | | ■ | | |
| | | | 3KD9404-6 | | | | ■ | |
| | | | 3KD9504-6 | | | | | ■ |
| | | Short version | 3KD9204-7 | | ■ | | | |
| | | | 3KD9304-7 | | | ■ | | |
| | | | 3KD9404-7 | | | | ■ | |
| For 4-pole devices | 8 units | Standard length | 3KD9204-8 | | ■ | | | |
| | | | 3KD9304-8 | | | ■ | | |
| | | | 3KD9404-8 | | | | ■ | |
| | | | 3KD9504-8 | | | | | ■ |
| | | Short version | 3KD9204-5 | | ■ | | | |
| | | | 3KD9304-5 | | | ■ | | |
| | | | 3KD9404-5 | | | | ■ | |
| Spare part for terminal covers | | | | | | | | |
|  | <ul style="list-style-type: none"> Not permissible for 2000 A devices | | | | | | | |
| | Scope of supply | Variant | Article No. | | | | | |
| | 1 unit | Standard length | 3KD9504-1 | | | | | ■ |
| | | Short version | 3KD9204-1 | | ■ | | | |
| | | | 3KD9304-1 | | | ■ | | |
| | | | 3KD9404-1 | | | | ■ | |
| Blocking pin test function | | | | | | | | |
|  | <ul style="list-style-type: none"> Enables permanent deactivation of the test function for auxiliary switches It is installed in the operating mechanism module of the 3KD switch disconnector | | | | | | | |
| | Scope of supply | Article No. | | | | | | |
| | 10 units | 3KF9112-1AA00 | | ■ | ■ | | | |
| | | 3KF9412-1AA00 | | | | ■ | ■ | |
| | | 3KF9512-1AA00 | | | | | | ■ |
| Mounting brackets | | | | | | | | |
|  | <ul style="list-style-type: none"> Spare part, included in the scope of supply of the 3KD | | | | | | | |
| | Scope of supply | Article No. | | | | | | |
| | 4 units | 3KD9120-1 | | ■ | ■ | | | |
| | | 3KF9212-0AA00 | | | | ■ | | |
| | | 3KF9412-0AA00 | | | | | ■ | |
| | | 3KF9512-0AA00 | | | | | | ■ |
| Slide for mounting on a standard mounting rail | | | | | | | | |
|  | <ul style="list-style-type: none"> Spare part, included in the scope of supply of the 3KD | | | | | | | |
| | Scope of supply | Article No. | | | | | | |
| | 5 units | 3KF9112-0BA00 | | ■ | ■ | | | |

Accessories for DC applications

| | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | |
|---|-------------------|--------------------|--------|--------|--------|--------|---|
| Connecting bridges | | | | | | | |
|  <ul style="list-style-type: none"> Suitable for connecting two poles For 3KD switch disconnectors with 400 A, 800 A, 1250 A and 1600 A, two units are required. | Connection | Article No. | | | | | |
| | Box terminals | 3KD9118-1 | ■ | | | | |
| | | 3KD9218-1 | | ■ | | | |
| | Flat terminals | 3KD9218-0 | | ■ | | | |
| | | 3KD9318-0 | | | ■ | | |
| | | 3KD9418-0 | | | | ■ | |
| | | 3KD9518-0 | | | | | ■ |
| Terminal covers for connecting bridges | | | | | | | |
|  <ul style="list-style-type: none"> For 3KD with flat terminals | Connection | Article No. | | | | | |
| | | 3KD9204-0 | | ■ | | | |
| | | 3KD9304-0 | | | ■ | | |
| | | 3KD9404-0 | | | | ■ | |
| | | 3KD9504-0 | | | | | ■ |

5TE1 switch disconnectors

System overview

Switch disconnectors



Transparent



Red/yellow

Accessories



Auxiliary switches



Cage terminals

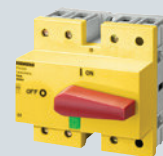
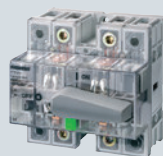


Terminal covers

Note:

You will find a detailed range of accessories with the basic units.

18 ... 33 kA_{rms}



| | | Switch disconnectors, transparent | | | | Switch disconnectors, red/yellow | |
|-----------------|--|-----------------------------------|----|------|----|----------------------------------|----|
| Number of poles | | 2P | 3P | 3P+N | 4P | 3P | 4P |
| | | | | | | | |

| Mounting width | Rated operational current I _e | Rated operational voltage U _e | 2P | 3P | 3P+N | 4P | 3P | 4P |
|----------------|--|--|---------|---------|---------|---------|---------|---------|
| 5 MW | 100 A | 690 V | 5TE1210 | 5TE1310 | 5TE1610 | 5TE1410 | 5TE1315 | 5TE1415 |
| | 125 A | 690 V | 5TE1220 | 5TE1320 | 5TE1620 | 5TE1420 | 5TE1325 | 5TE1425 |
| 8 MW | 160 A | 690 V | 5TE1230 | 5TE1330 | 5TE1630 | 5TE1430 | 5TE1335 | 5TE1435 |
| | 200 A | 690 V | 5TE1240 | 5TE1340 | 5TE1640 | 5TE1440 | 5TE1345 | 5TE1445 |

Accessories

Auxiliary switches



- Can be mounted optionally left or right or on both sides (2 units)

| Contact load | Contacts | I _e | U _e | Article No. |
|------------------|----------|----------------|----------------|-------------|
| Min. 24 V, 50 mA | 1 CO | 6 A | 230 V | 5TE9005 |
| | 2 CO | 6 A | 230 V | 5TE9006 |

Rotary operating mechanisms with extension shafts



- For mounting on hinged doors or enclosure lids, lockable

| Degree of protection | Color | Shaft length | Article No. |
|----------------------|------------|--------------|-------------|
| IP65 | Black knob | 200 mm | 5TE9010 |
| | | 400 mm | 5TE9011 |
| | Red knob | 200 mm | 5TE9012 |
| | | 400 mm | 5TE9013 |

Conversion kit, 4-pole



- For connection of busbars or cables with cable lugs
- For busbars max. 15 mm wide including terminal cover

| Version | Article No. |
|--|-------------|
| For 100 A and 125 A switch disconnectors | 5TE9015 |

Cage terminals



- Terminal diameter 14.5 mm for 35-mm² cables
- Hexagon socket-head screw 5 mm

| Version | Number of poles | Scope of supply | Article No. |
|--|-----------------|-----------------|-------------|
| For 160 A and 200 A switch disconnectors | 3-pole | 1 set = 3 units | 5TE9003 |
| | 4-pole | 1 set = 4 units | 5TE9004 |

Locking units



- For up to three padlocks with max. diam. 8 mm

| Article No. |
|-------------|
| 5TE9014 |

Terminal covers, sealable



| Version | Article No. |
|--|-------------|
| For 100 A and 125 A switch disconnectors | 5TE9000 |



| | |
|--|---------|
| For 160 A and 200 A switch disconnectors | 5TE9001 |
|--|---------|

Fuse switch disconnectors

Quick selection guide



3NP1



Size

000 00 1 2 3

General technical details acc. to IEC 60947-3

Basic data

| | | | | | | |
|------------------------------------|---|-------------------|------------|-------------------|---------|---------|
| Rated uninterrupted current I_u | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| For fuse links acc. to IEC 60269-2 | Size | 000 | 00 and 000 | 1 and 0 | 2 and 1 | 3 and 2 |
| Rated operational voltage U_e | At 50/60 Hz AC | V | | 690 | | |
| | At DC (3 conducting paths in series) | V | | 440 | | |
| | At DC (2 conducting paths in series) | V | | 240 | | |
| | At DC | V | | – | | |
| | For utilization category AC-20B or DC-20B | V | | 690 ¹⁾ | | |

Operating and short-circuit behavior

| | | | | | | | |
|--|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Rated operational current I_e | At AC-21B, 400 V AC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-22B, 400 V AC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-23B, 400 V AC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-21B, 500 V AC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-22B, 500 V AC | A | 125 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-23B, 500 V AC | A | 40 | 63 | 200 | 315 | 500 |
| | At AC-21B, 690 V AC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At AC-22B, 690 V AC | A | 50 | 125 | 250 | 400 | 500 |
| | At AC-23B, 690 V AC | A | 25 | 35 | 100 | 125 | 200 |
| | At DC-21B (2 conducting paths in series), 240 V DC | A | 160 ²⁾ | 160 | 250 | 400 | 630 |
| | At DC-22B (2 conducting paths in series), 240 V DC | A | 100 | 160 | 250 | 400 | 630 |
| | At DC-23B (2 conducting paths in series), 240 V DC | A | 80 | 100 | 200 | 250 | 400 |
| | At DC-21B (3 conducting paths in series), 440 V DC | A | 100 | 160 | 250 | 400 | 630 |
| At DC-22B (3 conducting paths in series), 440 V DC | A | 50 | 125 | 200 | 315 | 500 | |
| At DC-23B (3 conducting paths in series), 440 V DC | A | 25 | 63 | 100 | 160 | 250 | |
| Rated conditional short-circuit current with fuses (by fast switch on) | Rated current at 400 V/500 V/690 V | kA | 80/80/80 | 80/80/80 | 80/80/50 | 80/80/50 | 50/50/50 |
| | Permissible let-through current of the fuses, peak value | kA | 10 | 15 | 25 | 40 | 50 |
| Short-circuit strength with fuses (with closed disconnector) | Rated current at 500 V/690 V | kA | 120/100 | 120/100 | 120/100 | 100/100 | 100/100 |
| | Permissible let-through I^2t value of the fuses | kA ² s | 223 | 223 | 780 | 2150 | 5400 |
| | Permissible let-through current of the fuses, peak value | kA | 15 | 23 | 32 | 40 | 60 |
| Rated making capacity | With isolating blades at 500 V AC | kA | 2 | 6 | 17 | 17 | 17 |
| Rated short-time withstand current I_{cw} | | kA | – | – | – | – | – |
| Rated insulation voltage U_i | | V | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ |
| Rated impulse withstand voltage U_{imp} | | kV | 8 | 8 | 8 | 8 | 8 |
| Power loss per pole of the switch at I_{th} (without fuses) | | W | 5 | 5 | 8 | 14 | 30 |
| Maximum power loss of the usable fuses (per fuse) | | W | 7.5 ³⁾ | 12 | 23 | 34 | 48 |
| Mechanical endurance, operating cycles | | | 2000 | 2000 | 1600 | 1000 | 1000 |

Degree of protection

| | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|
| Without masking plate or terminal cover – switch closed / open | IP30/IP20 | IP30/IP20 | IP30/IP20 | IP30/IP20 | IP30/IP20 |
| With masking plate or terminal cover – switch closed / open | IP40/IP20 | IP40/IP20 | IP40/IP20 | IP40/IP20 | IP40/IP20 |

Certifications and approvals

VDE, CCC, LR, US

More information

Catalog LV 10 04/2020

see page 8/80

The technical specifications apply to the standard types stated below.

For the complete specifications for all versions, see the Online Support

3NP1: 3-pole and 4-pole devices without fuse monitoring

3NP5: Devices without fuse monitoring

3NJ4/5: Disconnectors for cable and line protection without fuse monitoring, not for transformer protection

¹⁾ Applies to degree of pollution 3(for degree of pollution 2, use up to U_i 1000 V possible)²⁾ Only with use of the infeed terminal, otherwise up to 100 A³⁾ Max. 9 W for operation up to 160 A

3NP5



3NJ4/3NJ5



5SG76



| 3NP5 | | | | 3NJ4/3NJ5 | | | | 5SG76 | |
|-------------------|-------------------|-------------------|-------------------|---------------|-----------|-----------|-----------|----------------|-----------|
| 00 | 1 | 2 | 3 | 00 | 1 | 2 | 3 | 4a | D01 |
| 160 | 250 | 400 | 630 | 160 | 250 | 400 | 630 | 1250 | 16 |
| 00 | 1 and 0 | 2 and 1 | 3 and 2 | 00 and 000 | 1 and 0 | 2 and 1 | 3 and 2 | 4a | D01 |
| | 690 | | | | | 690 | | | 400, 415 |
| | 440 | | | | | - | | | - |
| | 220 | | | | | - | | | 110 |
| | - | | | | | - | | | 48 |
| | 690 | | | | | - | | | - |
| 160 | 250 | 400 | 630 | 160 | 250 | 400 | 630 | 1250 | 16 |
| 160 | 250 | 400 | 630 | 160 | 250 | 400 | 630 | 1250 | 16 |
| 160 | 250 | 400 | 630 | - | 250 | 400 | - | - | - |
| 160 | 250 | 400 | 630 | 160 | 250 | 400 | 630 | 1250 | - |
| 160 | 250 | 400 | 630 | 160 | 250 | 400 | 630 | 1250 | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | 100 | 250 | 400 | 630 | 1250 | - |
| 160 | 250 | 400 | 630 | 100 | 250 | - | - | - | - |
| 100 | 160 | 315 | 400 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 160 | 250 | 400 | 630 | - | - | - | - | - | - |
| 50/50/- | 50/50/- | 50/50/- | 50/50/- | - | - | - | - | - | 50/-/- |
| 15 | 25 | 40 | 50 | - | - | - | - | - | - |
| 100/- | 100/- | 50/- | 50/- | 80 | 120 | 120 | 120 | 80 | - |
| 223 | 780 | 2150 | 5400 | - | - | - | - | - | - |
| 23 | 32 | 40 | 60 | - | - | - | - | - | - |
| 6 | 17 | 17 | 17 | - | - | - | - | - | - |
| - | - | - | - | - | 14.5 | 14.5 | 14.5 | 35 | - |
| 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 690 ¹⁾ | 800 | 1000 | 1000 | 1000 | 1000 | 400 |
| 6 | 6 | 6 | 6 | 8 | 12 | 12 | 12 | 12 | 2.5 |
| 7.8 | 7.5 | 15 | 39 | 18 | 23 | 54 | 115 | 190 | - |
| 12 | 23 | 34 | 48 | 12 | 32 | 45 | 48 | 110 | 2.5 |
| 1600 | 1600 | 1600 | 1600 | 1400 | 1400 | 800 | 800 | 500 | - |
| IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP00/IP00 | IP20/IP20 |
| IP30/IP10 | IP30/IP10 | IP30/IP10 | IP30/IP10 | IP30/IP10 | IP30/IP10 | IP30/IP10 | IP30/IP10 | IP10/IP00 | IP20/IP20 |
| CCC | | | | | | | | | |
| see page 8/94 | | | | see page 8/98 | | | | see page 8/110 | |

3NP1 fuse switch disconnectors

System overview

Basic units

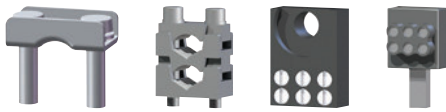


1, 3, 4-pole for floor mounting



3 and 4-pole mounting on busbar systems

Connection parts



Terminals for retrofitting to 3NP1



Auxiliary conductor connections



Three-phase busbars

Assembly kits



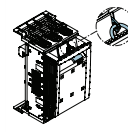
Standard rail mounting



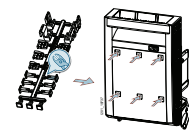
Mechanical connection



1/4-pole busbar mounting

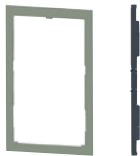


Locking function

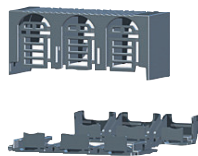


Protection against power theft

Masking frames and covers



Masking frames and supports



Cable connection covers



Reach-around protection for busbar

Other accessories



Auxiliary switches



Isolating blades



Fuse carriers with and without fuse monitoring

Note:

You will find a detailed range of accessories with the basic units.

General information



Modular design

Directly to
3NP1 configurator:



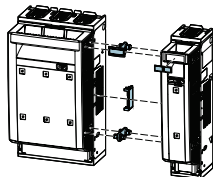
The 3NP1 fuse switch disconnector has a modular design. A wide variety of switch combinations can be created by connecting two devices or by subsequently fitting accessories. All common switch combinations are available from the factory ready for installation and can be found on the following ordering overviews. An overview of the possibilities offered by the modular design is provided on these information pages.

The fastest and simplest way to find the right switch combination is to use our 3NP1 configurator in the Siemens Industry Mall.



Number of poles

You will find further
information under:
sie.ag/2UlrAvy



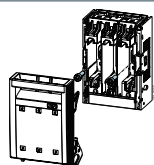
3NP1 fuse switch disconnectors are available from the factory in 1, 3 and 4-pole device versions. 4-pole types are available in all common versions from the factory ready for installation (without fuse monitoring, N-pole on the right-hand side).

All other conceivable device combinations, such as 2-pole 3NP1s, 4-pole with fuse monitoring or with a neutral conductor on the left-hand side can simply be put together on site by combining two 3NP1s. All that is needed for this in addition to the two 3NP1 basic units is the matching connection assembly kit (see accessories).

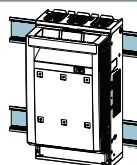


Floor mounting and standard mounting rail

You will find further
information under:
sie.ag/2UlrAvy



All sizes of the 3NP1 fuse switch disconnectors are available in floor mounting versions. The 3NP1 is mounted on a mounting panel with screws.



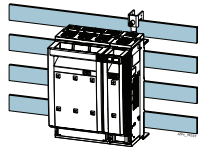
The devices for floor mounting of sizes 000, 00 and 1 can also be mounted on a standard mounting rail using accessories. For this purpose, the assembly kit for mounting on a standard mounting rail is simply mounted on the rear panel of the 3NP1.

3NP1 fuse switch disconnectors

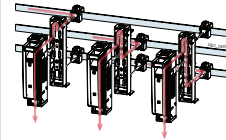
General information



Mounting on busbar systems



3-pole and 4-pole 3NP1 are available for mounting on busbar systems. In the case of 4-pole devices, the infeed for the fourth pole is supplied by the neutral conductor bar located above the 3 phases.

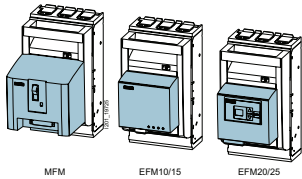


1-pole 3NP1 devices for wall mounting in sizes 000 and 00 can be adapted to the 8US 60 mm busbar system using the assembly kit for 1-pole busbar mounting. Due to the modular design of the assembly kit, any phase can be selected for the infeed.

You will find further information under:
sie.ag/2UlrAvy



Fuse monitoring



The fuse monitoring is used to detect, indicate and signal that a fuse has tripped.

The fuse monitors are permanently installed on the handle of the 3NP1. They have floating contacts for remote signaling of a tripped fuse and also indicate this locally.

Various versions of fuse monitors are available, which can be selected to suit the requirements of the application (functionality, see table).

MFM electromechanical fuse monitoring with an installed SIRIUS circuit breaker

EFM electronic fuse monitoring with evaluation electronics
The EFM15 series is a cost-optimized version of the EFM10. EFM20/25 are versions with additional functions (display indication, detection and signaling of overvoltage/undervoltage with adjustable limits, phase failure detection).

Common combinations of the 3NP1 basic unit and fuse monitoring are available from the factory ready for installation. A fuse monitor can also be easily retrofitted by replacing the fuse carrier. (Fuse carriers for all fuse monitoring versions are available as accessories.)

Note

Fuses with insulated grip lugs cannot be used for 3NP1 with fuse monitoring.

You will find further information under:
sie.ag/2UlrAvy

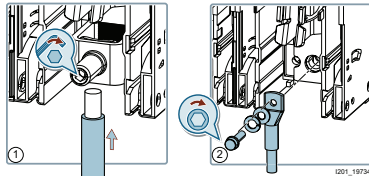


| | | MFM 3-pole | EFM10 3-pole | EFM15 | | | | EFM20 3-pole | EFM25 3-pole |
|---------------------------------|---------------------------------------|---------------|-----------------|--------------|---------------|---------------|---------------|-----------------|-----------------|
| | | | | 1-pole | | 3-pole | | | |
| | | | | AC/DC | AC | DC | AC | | |
| Local indication | Toggle switch position | ■ | - | - | - | - | - | - | - |
| | Indication via LEDs for each phase | - | ■ | ■ | ■ | ■ | ■ | - | - |
| | Indication via display for each phase | - | - | - | - | - | - | ■ | ■ |
| External power supply required | | - | - | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC | - |
| Permissible operational voltage | AC | max. 690 V | 230 ... 690 V | 24 ... 230 V | 110 ... 690 V | - | 190 ... 690 V | - | 230 ... 690 V |
| | DC | max. 440 V | - | 24 ... 250 V | - | 120 ... 440 V | - | 220 ... 440 V | - |
| Detection and indication of | Overvoltage | - | - | - | - | - | - | - | ■ |
| | Undervoltage | - | - | - | - | - | - | - | ■ |
| | Phase failure | - | - | - | - | - | - | - | ■ |



Electrical connection

You will find further information under:
sie.ag/2UlrAvy



3NP1 are available in versions with box terminals (all sizes) or flat terminals (sizes 00 and larger).

Various additional types of terminal are available as accessories for adaptation to the respective wiring situation, e.g. prism, saddle or triple terminals.

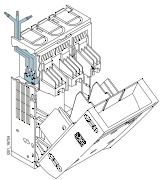


Other accessories

You will find further information under:
sie.ag/2UlrAvy

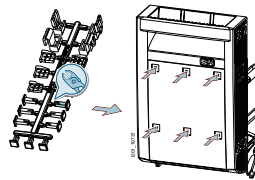


Auxiliary switches



Auxiliary switches enable remote querying of the switch position of the 3NP1. Up to two auxiliary switches can be installed.

Power theft



The assembly kit for protection from power theft seals the holes on the front of the 3NP1 (for voltage testing) permanently, which reliably prevents unauthorized access to live parts.

Isolating blades

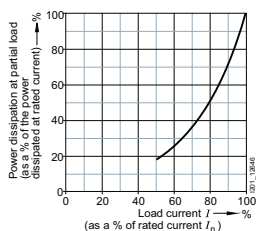


4-pole 3NP1s are used in 3-phase AC systems with switched neutral conductors. They are supplied without an isolating blade for the N pole. The switching instant is selected by choosing the appropriate isolating blade.



Suitable fuses

You will find further information under:
sie.ag/2UlrAvy



The 3NP5 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded. For use of SITOR semiconductor fuses, ready-made derating tables are available in the linked document.

3NP1 fuse switch disconnectors

For a complete and valid configuration of your fuse switch disconnectors, please use our online configurator at www.siemens.com/lowvoltage/3np1-configurator

Flat terminals

NH00



NH1



NH2



NH3



| Fuse monitoring | Number of poles | $I_u = 160 \text{ A}$ | $I_u = 250 \text{ A}$ | $I_u = 400 \text{ A}$ | $I_u = 630 \text{ A}$ |
|--|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Floor mounting | | | | | |
| Without | 1-pole | 3NP1131-1CA10 | 3NP1141-1DA10 | 3NP1151-1DA10 | 3NP1161-1DA10 |
| | 3-pole | 3NP1133-1CA10 | 3NP1143-1DA10 | 3NP1153-1DA10 | 3NP1163-1DA10 |
| | 4-pole | 3NP1134-1CA10 | 3NP1144-1DA10 | 3NP1154-1DA10 | 3NP1164-1DA10 |
| MFM | 3-pole | 3NP1133-1CA11 | 3NP1143-1DA11 | 3NP1153-1DA11 | 3NP1163-1DA11 |
| EFM10 | 3-pole | 3NP1133-1CA12 | 3NP1143-1DA12 | 3NP1153-1DA12 | 3NP1163-1DA12 |
| EFM15 | 1-pole | 3NP1131-1CA14 | 3NP1141-1DA14 | 3NP1151-1DA14 | 3NP1161-1DA14 |
| | 3-pole | 3NP1133-1CA14 | 3NP1143-1DA14 | 3NP1153-1DA14 | 3NP1163-1DA14 |
| EFM20 | 3-pole | 3NP1133-1CA13 | 3NP1143-1DA13 | 3NP1153-1DA13 | 3NP1163-1DA13 |
| Mounting on 60 mm busbar systems with reach-around protection for Siemens 8US | | | | | |
| Without FM | 3-pole | 3NP1133-1BC10 | 3NP1143-1BC10 | 3NP1153-1BC10 | 3NP1163-1BC10 |
| | 4-pole | 3NP1134-1BC10 | 3NP1144-1BC10 | 3NP1154-1BC10 | 3NP1164-1BC10 |
| MFM | 3-pole | 3NP1133-1BC11 | 3NP1143-1BC11 | 3NP1153-1BC11 | 3NP1163-1BC11 |
| EFM10 | 3-pole | 3NP1133-1BC12 | 3NP1143-1BC12 | 3NP1153-1BC12 | 3NP1163-1BC12 |
| EFM15 | 3-pole | 3NP1133-1BC14 | 3NP1143-1BC14 | 3NP1153-1BC14 | 3NP1163-1BC14 |
| EFM20 | 3-pole | 3NP1133-1BC13 | 3NP1143-1BC13 | 3NP1153-1BC13 | 3NP1163-1BC13 |
| Mounting on 60 mm busbar systems with reach-around protection for Rittal | | | | | |
| Without FM | 3-pole | 3NP1133-1JC10 | 3NP1143-1JC10 | 3NP1153-1JC10 | 3NP1163-1JC10 |
| MFM | 3-pole | 3NP1133-1JC11 | 3NP1143-1JC11 | 3NP1153-1JC11 | 3NP1163-1JC11 |
| EFM10 | 3-pole | 3NP1133-1JC12 | 3NP1143-1JC12 | 3NP1153-1JC12 | 3NP1163-1JC12 |
| EFM20 | 3-pole | 3NP1133-1JC13 | 3NP1143-1JC13 | 3NP1153-1JC13 | 3NP1163-1JC13 |
| Mounting on 40 mm busbar systems with reach-around protection for Siemens 8US | | | | | |
| Without FM | 3-pole | 3NP1133-1BB10 | – | – | – |
| MFM | 3-pole | 3NP1133-1BB11 | – | – | – |
| EFM10 | 3-pole | 3NP1133-1BB12 | – | – | – |
| EFM20 | 3-pole | 3NP1133-1BB13 | – | – | – |
| Mounting on 40 mm busbar systems with reach-around protection for Rittal | | | | | |
| Without FM | 3-pole | 3NP1133-1JB10 | – | – | – |
| MFM | 3-pole | 3NP1133-1JB11 | – | – | – |
| EFM10 | 3-pole | 3NP1133-1JB12 | – | – | – |
| EFM20 | 3-pole | 3NP1133-1JB13 | – | – | – |

Notes:

- On the 3NP1 with fuse monitoring, the permissible operating voltage is limited by the fuse monitoring
- Permissible operational voltage with fuse monitoring:
 - MFM AC max. 690 V (L – L) / max. 440 V (L+ – L–)
 - EFM10 230 ... 690 V AC (L – L)
 - EFM15 3-pole 190 ... 690 V AC (L – L)
 - EFM15 1-pole 24 ... 240 V AC (L – N) / 24 ... 250 V DC (L+ – L–)
 - EFM20 230 ... 690 V AC (L – L)
- Additional variants are available as accessories:
 - EFM15 with further operating voltage ranges
 - EFM25 – DC version of the EFM20
- Devices for busbar mounting with reach-around protection
 - For Siemens 8US, mounting is possible on the Wöhner Classic and Rittal RiLine systems without a floor pan
 - For Rittal, mounting is possible on the RiLine60 system with a floor pan

Box terminals
NH000

NH00

NH1

NH2

NH3








 $I_u = 100 \text{ A}$ $I_u = 160 \text{ A}$ $I_u = 250 \text{ A}$ $I_u = 400 \text{ A}$ $I_u = 630 \text{ A}$

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| 3NP1121-1CA20 | 3NP1131-1CA20 | 3NP1141-1DA20 | 3NP1151-1DA20 | 3NP1161-1DA20 |
| 3NP1123-1CA20 | 3NP1133-1CA20 | 3NP1143-1DA20 | 3NP1153-1DA20 | 3NP1163-1DA20 |
| 3NP1124-1CA20 | 3NP1134-1CA20 | 3NP1144-1DA20 | 3NP1154-1DA20 | 3NP1164-1DA20 |
| – | 3NP1133-1CA21 | 3NP1143-1DA21 | 3NP1153-1DA21 | 3NP1163-1DA21 |
| 3NP1123-1CA22 | 3NP1133-1CA22 | 3NP1143-1DA22 | 3NP1153-1DA22 | 3NP1163-1DA22 |
| 3NP1121-1CA24 | 3NP1131-1CA24 | 3NP1141-1DA24 | 3NP1151-1DA24 | 3NP1161-1DA24 |
| 3NP1123-1CA24 | 3NP1133-1CA24 | 3NP1143-1DA24 | 3NP1153-1DA24 | 3NP1163-1DA24 |
| 3NP1123-1CA23 | 3NP1133-1CA23 | 3NP1143-1DA23 | 3NP1153-1DA23 | 3NP1163-1DA23 |
| 3NP1123-1BC20 | 3NP1133-1BC20 | 3NP1143-1BC20 | 3NP1153-1BC20 | 3NP1163-1BC20 |
| 3NP1124-1BC20 | 3NP1134-1BC20 | 3NP1144-1BC20 | 3NP1154-1BC20 | 3NP1164-1BC20 |
| – | 3NP1133-1BC21 | 3NP1143-1BC21 | 3NP1153-1BC21 | 3NP1163-1BC21 |
| 3NP1123-1BC22 | 3NP1133-1BC22 | 3NP1143-1BC22 | 3NP1153-1BC22 | 3NP1163-1BC22 |
| 3NP1123-1BC24 | 3NP1133-1BC24 | 3NP1143-1BC24 | 3NP1153-1BC24 | 3NP1163-1BC24 |
| 3NP1123-1BC23 | 3NP1133-1BC23 | 3NP1143-1BC23 | 3NP1153-1BC23 | 3NP1163-1BC23 |
| 3NP1123-1JC20 | 3NP1133-1JC20 | 3NP1143-1JC20 | 3NP1153-1JC20 | 3NP1163-1JC20 |
| – | 3NP1133-1JC21 | 3NP1143-1JC21 | 3NP1153-1JC21 | 3NP1163-1JC21 |
| 3NP1123-1JC22 | 3NP1133-1JC22 | 3NP1143-1JC22 | 3NP1153-1JC22 | 3NP1163-1JC22 |
| 3NP1123-1JC23 | 3NP1133-1JC23 | 3NP1143-1JC23 | 3NP1153-1JC23 | 3NP1163-1JC23 |
| 3NP1123-1BB20 | 3NP1133-1BB20 | – | – | – |
| – | 3NP1133-1BB21 | – | – | – |
| 3NP1123-1BB22 | 3NP1133-1BB22 | – | – | – |
| 3NP1123-1BB23 | 3NP1133-1BB23 | – | – | – |
| 3NP1123-1JB20 | 3NP1133-1JB20 | – | – | – |
| – | 3NP1133-1JB21 | – | – | – |
| 3NP1123-1JB22 | 3NP1133-1JB22 | – | – | – |
| 3NP1123-1JB23 | 3NP1133-1JB23 | – | – | – |




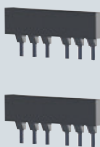

3NP1 fuse switch disconnectors

Accessories

Connection parts

| | | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 | |
|---|---|--------------------------------|--------------------|--------------------|------|-----|-----|-----|---|
| Terminals for 3NP1 with flat terminals | | | | | | | | | |
| | <ul style="list-style-type: none"> Contain enough parts to retrofit one side of a 3NP1 accordingly (three terminals for 3-pole 3NP1, one terminal for 1-pole unit) If the incoming cable and cable outlet are retrofitted, two packages must be ordered Connection module for busbar mounting if a masking frame is to be supported on the 32 mm cover plane (installation of the terminals under the masking frame) | | | | | | | | |
| | Variant | Conductor cross-section | Article No. | Article No. | | | | | |
|      | Saddle terminals | 1.5 ... 70 mm ² | 3NP1931-1BA00 | 3NP1933-1BA00 | | ■ | | | |
| | | 70 ... 120 mm ² | 3NP1941-1BA00 | 3NP1943-1BA00 | | | ■ | | |
| | | 120 ... 240 mm ² | 3NP1951-1BA00 | 3NP1953-1BA00 | | | | ■ | |
| | | 150 ... 300 mm ² | 3NP1961-1BA00 | 3NP1963-1BA00 | | | | | ■ |
| | Prism terminals, single | 35 ... 95 mm ² | 3NP1931-1BB10 | 3NP1933-1BB10 | | ■ | | | |
| | | 70 ... 150 mm ² | 3NP1941-1BB10 | 3NP1943-1BB10 | | | ■ | | |
| | | 120 ... 240 mm ² | 3NP1951-1BB10 | 3NP1953-1BB10 | | | | ■ | |
| | | 150 ... 300 mm ² | 3NP1961-1BB10 | 3NP1963-1BB10 | | | | | ■ |
| | Prism terminals, double | 2× 35 ... 70 mm ² | 3NP1941-1BB20 | 3NP1943-1BB20 | | | ■ | | |
| | | 2× 70 ... 120 mm ² | 3NP1951-1BB20 | 3NP1953-1BB20 | | | | ■ | |
| 2× 150 ... 185 mm ² | | 3NP1961-1BB20 | 3NP1963-1BB20 | | | | | ■ | |
| Three-tier terminal | 3× 1.5 ... 16 mm ² | 3NP1931-1BE10 | 3NP1933-1BE10 | | ■ | | | | |
| Connection module | 3× 6 ... 70 mm ² | 3NP1931-1BC00 | 3NP1933-1BC00 | | ■ | | | | |
| Terminals for 3NP1 with box terminals | | | | | | | | | |
| | <ul style="list-style-type: none"> Contain enough parts to retrofit one side of a 3NP1 accordingly (three terminals for 3-pole 3NP1, one terminal for 1-pole unit) If the incoming cable and cable outlet are retrofitted, two packages must be ordered | | | | | | | | |
| | Variant | Conductor cross-section | Article No. | Article No. | | | | | |
|   | Three-tier terminal | 3× 1.5 ... 16 mm ² | 3NP1921-1BE20 | 3NP1923-1BE20 | ■ | ■ | | | |
| | Feeder terminal | 16 ... 95 mm ² | 3NP1921-1BD00 | 3NP1923-1BD00 | ■ | | | | |

Connection parts

| | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 | |
|---|---|------------------------|--------------------|-----|-----|-----|---|
| Auxiliary conductor connections | | | | | | | |
| <ul style="list-style-type: none"> With the auxiliary conductor connections, small loads can be directly connected to the terminals of the 3NP1 Connection via flat tab sleeves 6.3 × 0.8 mm, max. 5 A load Contains 3 auxiliary conductor connections | | | | | | | |
| Connection | | Article No. | | | | | |
|  | With flat terminals | 3NP1933-1BG10 | ■ | | | | |
| | | 3NP1943-1BG10 | | ■ | | | |
| | | 3NP1943-1BG10 | | | | ■ | |
| | | 3NP1943-1BG10 | | | | | ■ |
|  | With box terminals | 3NP1923-1BG40 | ■ | | | | |
| | | 3NP1933-1BG40 | | ■ | | | |
| | | 3NP1943-1BG40 | | | ■ | | |
| | | 3NP1953-1BG40 | | | | ■ | |
| | | 3NP1953-1BG40 | | | | | ■ |
|  | With retrofitted prism and saddle terminals | 3NP1933-1BG30 | | ■ | | | |
| | | 3NP1943-1BG30 | | | ■ | | |
| | | 3NP1953-1BG30 | | | | ■ | |
| | | 3NP1953-1BG30 | | | | | ■ |
| Three-phase busbar system | | | | | | | |
| <ul style="list-style-type: none"> With the three-phase busbars, up to 4 3NP1 NH000 for floor mounting can be interconnected on the infeed side. Power is fed in at the feeder terminals. With the connection bar, two blocks of bridged 3NP1 can be connected. Using the cover cap, the connection tags of the busbar are covered on unused feeders to ensure they are safe to touch. The maximum current-carrying capacity of the interconnected 3NP1 is 225 A for the three-phase busbar system. | | | | | | | |
| Version | | Scope of supply | Article No. | | | | |
|  | For 2 × 3NP1 | 1 pack = 5 units | 3NP1923-1BF20 | ■ | | | |
| | For 3 × 3NP1 | 1 pack = 5 units | 3NP1923-1BF30 | ■ | | | |
| | For 4 × 3NP1 | 1 pack = 3 units | 3NP1923-1BF40 | ■ | | | |
| Connection bars | | 1 pack = 3 units | 3NP1923-1BF50 | ■ | | | |
| Covering caps | | 1 pack = 20 units | 3NP1923-1BF10 | ■ | | | |
|  | | | | | | | |

3NP1 fuse switch disconnectors

Accessories

Assembly kits

NH000 NH00 NH1 NH2 NH3

Retrofitting of locking function



- Not required for the 1-pole 3NP1 – the function is integrated into the switch

Scope of supply

1 pack = 10 units

Article No.

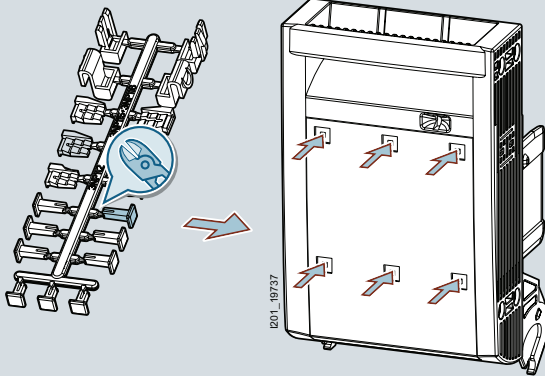
3NP1900-1HA00

| | | | | |
|---|---|---|---|---|
| ■ | ■ | ■ | ■ | ■ |
|---|---|---|---|---|

Protection against power theft



- Closes the holes on the front of the 3NP1 (holes for voltage testing) and secures the front window such that power theft is not possible without visible damage to the 3NP1 (when the 3NP1 is locked or sealed)



Scope of supply

1 pack = 5 units

Article No.

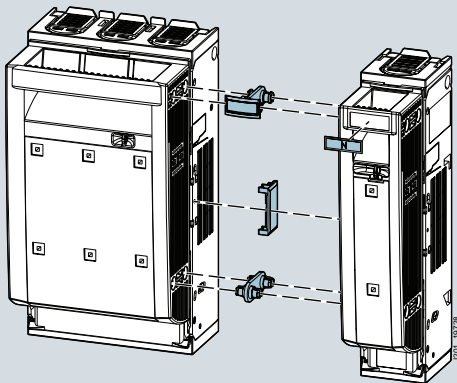
3NP1900-1EF00

| | | | | |
|---|---|---|---|---|
| ■ | ■ | ■ | ■ | ■ |
|---|---|---|---|---|

Mechanical connection of 1-pole and 3-pole 3NP1 devices



- For 3NP1 with floor mounting, to create 2 or 4-pole 3NP1



Expansion of a 3-pole switch size NH00 to form a 4-pole switch

Article No.

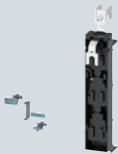
3NP1921-1EC00


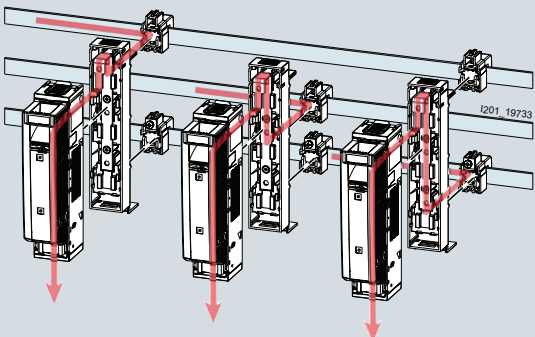
3NP1931-1EC00

3NP1941-1EC00

| | | | | |
|---|---|---|---|---|
| ■ | | | | |
| | ■ | | | |
| | | ■ | ■ | ■ |

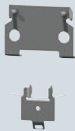
Assembly kits

| | | NH000 | NH00 | NH1 | NH2 | NH3 |
|--|--------------------------------------|--------------------|------|-----|-----|-----|
| 4-pole connecting kit for mounting on a 8US 60-mm busbar | | | | | | |
|  <ul style="list-style-type: none"> Connects a 3-pole 3NP1 for busbar mounting 60 mm 8US to a 1-pole 3NP1 for floor mounting The 1-pole 3NP1 switches the neutral conductor of a 3+N system in this combination The neutral conductor busbar of the busbar system is above the three-phase busbars | Connection | Article No. | | | | |
| | With flat terminals | 3NP1934-1ED20 | | ■ | | |
| | With box terminals | 3NP1924-1ED10 | ■ | | | |
| | | 3NP1934-1ED10 | | ■ | | |
| | With flat terminals or box terminals | 3NP1944-1ED00 | | | ■ | |
| | 3NP1954-1ED00 | | | | ■ | ■ |

| | | NH000 | NH00 | NH1 | NH2 | NH3 |
|---|--------------------|--------------------|------|-----|-----|-----|
| 1-pole connecting kit for mounting on a 8US 60-mm busbar | | | | | | |
|  <ul style="list-style-type: none"> Permits adaptation of a 1-pole 3NP1 for floor mounting to a 3-pole busbar system The feeding busbar (L1, L2 or L3) can be chosen freely. If two such 3NP1 are combined by mechanical connection using the assembly kit, 2-pole 3NP1 for busbar mounting can also be assembled.  | Connection | Article No. | | | | |
| | With box terminals | 3NP1921-1EE10 | ■ | | | |
| | | 3NP1931-1EE10 | | ■ | | |

8


Assembly kits

| | | 1/2-pole | 3-pole | 4-pole | NH000 | NH00 | NH1 | NH2 | NH3 |
|--|--------------------|--------------------|--------------------|--------|-------|------|-----|-----|-----|
| Assembly kits for mounting on standard mounting rail | | | | | | | | | |
|  <ul style="list-style-type: none"> Mounting on a standard mounting rail is achieved for size NH000 by mounting on a mounting rail, and for sizes NH00 and NH1 between two mounting rails that are 125 or 150 mm apart (distance can be chosen when the assembly kit is mounted) | Article No. | Article No. | Article No. | | | | | | |
| | 3NP1921-1EA00 | 3NP1923-1EA00 | 3NP1924-1EA00 | ■ | | | | | |
| | 3NP1931-1EB00 | 3NP1933-1EB00 | 3NP1933-1EB00 | | ■ | | | | |
| | 3NP1943-1EB00 | 3NP1943-1EB00 | 3NP1943-1EB00 | | | | ■ | | |


3NP1 fuse switch disconnectors

Accessories



Masking frames and covers

| | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 | |
|--|----------------|-------------------------------|--------------------|--------------------|-----|-----|-----|---|
| Masking frames | | | | | | | | |
| <ul style="list-style-type: none"> The masking frame supports (pack of 2 units) are mounted on the side of the 3NP1 and prevent the supported masking frame from sagging. | | | | | | | | |
|  | Version | Outer dimensions (H×W) | Article No. | Article No. | | | | |
| | Masking frames | 215 × 130 mm | – | 3NP1923-1DA00 | ■ | | | |
| | | 215 × 130 mm | – | 3NP1933-1DA00 | | ■ | | |
| | | 375 × 220 mm | – | 3NP1943-1DA00 | | | ■ | |
| | | 375 × 245 mm | – | 3NP1953-1DA00 | | | | ■ |
| | | 375 × 290 mm | – | 3NP1963-1DA00 | | | | ■ |
| Masking frame supports | 3NP1923-1CF00 | 3NP1923-1CF00 | ■ | | | | | |
| | 3NP1933-1CF00 | 3NP1933-1CF00 | | ■ | | | | |
| | 3NP1943-1CF00 | 3NP1943-1CF00 | | | ■ | ■ | ■ | |

Cable connection covers

| | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 | |
|--|--------------------------------------|-----------------------------|-----------------------------|------|-----|-----|-----|---|
| <ul style="list-style-type: none"> Extend the terminal covers integrated in the 3NP1 – they are required, for example, when long, uninsulated cable lugs are used In the version with rear reach-around protection, the underside is also covered. | | | | | | | | |
|  | Version | Article No. | Article No. | | | | | |
| | Without rear reach-around protection | 3NP1921-1CB00 | 3NP1923-1CB00 ¹⁾ | ■ | | | | |
| | | 3NP1931-1CB00 | 3NP1933-1CB00 ²⁾ | | ■ | | | |
| | | 3NP1941-1CB00 | 3NP1943-1CB00 | | | ■ | | |
| | | 3NP1951-1CB00 | 3NP1953-1CB00 | | | | ■ | |
| | | 3NP1961-1CB00 | 3NP1963-1CB00 | | | | | ■ |
| With rear reach-around protection | – | 3NP1933-1CC00 ¹⁾ | | ■ | | | | |
| | 3NP1931-1CD00 | 3NP1933-1CD00 ³⁾ | | ■ | | | | |
| | 3NP1941-1CD00 | 3NP1943-1CD00 | | | ■ | | | |
| | 3NP1951-1CD00 | 3NP1953-1CD00 | | | | ■ | | |
| | 3NP1961-1CD00 | 3NP1963-1CD00 | | | | | ■ | |

Reach-around protection for busbar mounting


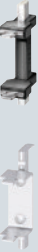
| | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 | |
|--|-------------------------------|--------------------|--------------------|------|-----|-----|-----|---|
| <ul style="list-style-type: none"> Covers the busbar for devices for busbar mounting Contained in the scope of supply of the corresponding 3NP1 (spare part) Because the reach-around protection can be replaced, it can also be used to convert an existing 3NP1 for a different busbar system | | | | | | | | |
|  | Version | Article No. | Article No. | | | | | |
| | For Siemens 8US busbar system | – | 3NP1923-1CA10 | ■ | | | | |
| | | – | 3NP1933-1CA10 | | ■ | | | |
| | | 3NP1941-1CA10 | – | | | ■ | ■ | ■ |
| | | – | 3NP1943-1CA10 | | | ■ | | |
| | | – | 3NP1953-1CA10 | | | | ■ | |
| – | 3NP1963-1CA10 | | | | | ■ | | |
| For Siemens 8US busbar system compact | – | 3NP1923-1CA30 | ■ | | | | | |
|  | Version | Article No. | Article No. | | | | | |
| | For Rittal busbar system | – | 3NP1923-1CA20 | ■ | | | | |
| | | – | 3NP1933-1CA20 | | ■ | | | |
| | | – | 3NP1943-1CA20 | | | ■ | | |
| | | – | 3NP1953-1CA20 | | | | ■ | |
| – | | 3NP1963-1CA20 | | | | | ■ | |

¹⁾ Only for 3NP1 for mounting on busbar systems

²⁾ Only for 3NP1 with flat terminals

³⁾ Only for 3NP1 with flat terminals for floor mounting

Other accessories

| | | NH000 | NH00 | NH1 | NH2 | NH3 |
|---|---------------------------------------|--------------------|------|-----|-----|-----|
| Auxiliary switches | | | | | | |
| <ul style="list-style-type: none"> In each 3NP1, up to 2 auxiliary switches can be mounted From size NH00, it is possible to choose whether the auxiliary switch will switch simultaneously with the fuses or leading on switch-on. (Only leading possible for size NH000) | | | | | | |
|  | Contacts | Article No. | | | | |
| | 1 CO | 3NP1920-1FA00 | ■ | | | |
| | | 3NP1930-1FA00 | | ■ | | |
| | | 3NP1940-1FA00 | | | ■ | ■ |
| | 1 CO, solid-state compatible | 3NP1920-1FB00 | ■ | | | |
| | | 3NP1930-1FB00 | | ■ | | |
| | 3NP1940-1FB00 | | | ■ | ■ | ■ |
| Isolating blades | | | | | | |
| <ul style="list-style-type: none"> Are used if only the isolating function of a 3NP1 is required and not protection with fuses or in the neutral conductor of a 4-pole 3NP1. The isolating blade, which is leading on switch-on and lagging on switch-off, is used in the neutral conductor of a 4-pole 3NP1 if shifting of the neutral point of the 3+N system has to be avoided during switching. | | | | | | |
|  | Version | Article No. | | | | |
| | Switching simultaneously with fuses | 3NG1002 | ■ | ■ | | |
| | | 3NG1202 | | | ■ | |
| | | 3NG1302 | | | | ■ |
| | | 3NG1402 | | | | ■ |
| | Leading switch-on, lagging switch-off | 3NP1924-1MA20 | ■ | | | |
| | | 3NP1934-1MA20 | | ■ | | |
| | | 3NP1944-1MA20 | | | ■ | |
| | | 3NP1954-1MA20 | | | | ■ |
| | | 3NP1964-1MA20 | | | | ■ |

3NP1 fuse switch disconnectors

Other accessories

| | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 |
|---|--------------------|--------------------|-------|------|-----|-----|-----|
| Fuse carriers | | | | | | | |
| <ul style="list-style-type: none"> Included in the scope of supply of the 3NP1 (spare parts) For retrofitting fuse monitoring on an existing 3NP1 (by replacing the grip) | | | | | | | |
| Version | Article No. | Article No. | | | | | |
|  Standard – without fuse monitoring | 3NP1921-1GA00 | 3NP1923-1GA00 | ■ | | | | |
| | 3NP1931-1GA00 | 3NP1933-1GA00 | | ■ | | | |
| | 3NP1941-1GA00 | 3NP1943-1GA00 | | | ■ | | |
| | 3NP1951-1GA00 | 3NP1953-1GA00 | | | | ■ | |
| | 3NP1961-1GA00 | 3NP1963-1GA00 | | | | | ■ |
|  MFM 24 ... 690 V AC (L - L)/24 ... 240 V DC (L+ - L-) | – | 3NP1933-1GB10 | | ■ | | | |
| | – | 3NP1943-1GB10 | | | ■ | | |
| | – | 3NP1953-1GB10 | | | | ■ | |
| | – | 3NP1963-1GB10 | | | | | ■ |
|  EFM10 230 ... 690 V AC (L - L) | – | 3NP1923-1GB20 | ■ | | | | |
| | – | 3NP1933-1GB20 | | ■ | | | |
| | – | 3NP1943-1GB20 | | | ■ | | |
| | – | 3NP1953-1GB20 | | | | ■ | |
| | – | 3NP1963-1GB20 | | | | | ■ |
|  EFM15 24 ... 240 V AC (L - N) / 24 ... 250 V DC (L+ - L-) | 3NP1921-1GB43 | – | ■ | | | | |
| | 3NP1931-1GB43 | – | | ■ | | | |
| | 3NP1941-1GB43 | – | | | ■ | | |
| | 3NP1951-1GB43 | – | | | | ■ | |
| | 3NP1961-1GB43 | – | | | | | ■ |
|  EFM15 110 ... 690 V AC (L - N) | 3NP1921-1GB41 | – | ■ | | | | |
| | 3NP1931-1GB41 | – | | ■ | | | |
| | 3NP1941-1GB41 | – | | | ■ | | |
| | 3NP1951-1GB41 | – | | | | ■ | |
| | 3NP1961-1GB41 | – | | | | | ■ |
|  EFM15 190 ... 690 V AC (L - L) | – | 3NP1923-1GB42 | ■ | | | | |
| | – | 3NP1933-1GB42 | | ■ | | | |
| | – | 3NP1943-1GB42 | | | ■ | | |
| | – | 3NP1953-1GB42 | | | | ■ | |
| | – | 3NP1963-1GB42 | | | | | ■ |
|  EFM15 120 ... 440 V DC (L+ - L-) | 3NP1921-1GB44 | – | ■ | | | | |
| | 3NP1931-1GB44 | – | | ■ | | | |
| | 3NP1941-1GB44 | – | | | ■ | | |
| | 3NP1951-1GB44 | – | | | | ■ | |
| | 3NP1961-1GB44 | – | | | | | ■ |
|  EFM15 220 ... 440 V DC (L+ - L-) | – | 3NP1923-1GB45 | ■ | | | | |
| | – | 3NP1933-1GB45 | | ■ | | | |
| | – | 3NP1943-1GB45 | | | ■ | | |
| | – | 3NP1953-1GB45 | | | | ■ | |
| | – | 3NP1963-1GB45 | | | | | ■ |

Other accessories

Fuse carriers

- Included in the scope of supply of the 3NP1 (spare parts)
- For retrofitting fuse monitoring on an existing 3NP1 (by replacing the grip)



| | 1-pole | 3-pole | NH000 | NH00 | NH1 | NH2 | NH3 |
|----------------------------|--------------------|--------------------|-------|------|-----|-----|-----|
| Version | Article No. | Article No. | | | | | |
| EFM20 | – | 3NP1923-1GB30 | ■ | | | | |
| 230 ... 690 V AC (L - L) | – | 3NP1933-1GB30 | | ■ | | | |
| | – | 3NP1943-1GB30 | | | ■ | | |
| | – | 3NP1953-1GB30 | | | | ■ | |
| | – | 3NP1963-1GB30 | | | | | ■ |
| EFM25 | – | 3NP1923-1GB50 | ■ | | | | |
| 220 ... 440 V DC (L+ - L-) | – | 3NP1933-1GB50 | | ■ | | | |
| | – | 3NP1943-1GB50 | | | ■ | | |
| | – | 3NP1953-1GB50 | | | | ■ | |
| | – | 3NP1963-1GB50 | | | | | ■ |

3NP5 fuse switch disconnectors

System overview

Basic units



Floor mounting



For 40 mm busbar system

Connection parts



Clamp terminals



Busbar adapters for 60 mm systems

Masking frames and covers

Molded-plastic
masking frames

Cable connection covers

Other accessories



Auxiliary switches



Arc chutes

Assembly kits for
flush mounting

Fuse carriers

Note:

You will find a detailed range of accessories with the basic units.

General information



System description

You will find further information under:
sie.ag/2UlrAvy



3NP50



3NP52



3NP54

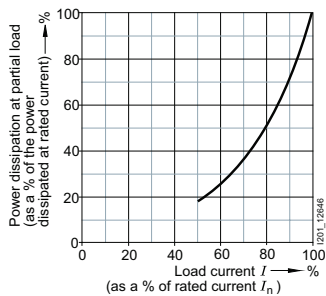
The 3NP5 fuse switch disconnector is an extremely robust device for extreme operating conditions. The fuse carrier has a pretensioned spring that prevents accidental, slow closure. All 3NP5 are designed for mounting on a mounting plate. Size NH00 is also available in versions for 40 mm busbar systems. All sizes can also be mounted using adapters on 60 mm busbar systems.

8



Suitable fuses

You will find further information under:
sie.ag/2UlrAvyw








The 3NP5 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded. For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.

3NP5 fuse switch disconnectors



| Types of mounting | Auxiliary switches | $I_u = 160\text{ A}$ | $I_u = 250\text{ A}$ | $I_u = 400\text{ A}$ | $I_u = 630\text{ A}$ |
|--|--------------------|----------------------|----------------------|----------------------|----------------------|
| Without fuse monitoring | | | | | |
| Floor mounting | Without | 3NP5060-0CA00 | 3NP5260-0CA00 | 3NP5360-0CA00 | 3NP5460-0CA00 |
| | 1 NO + 1 NC | 3NP5060-0CA10 | 3NP5260-0CA10 | 3NP5360-0CA10 | 3NP5460-0CA10 |
| Mounting on 40 mm busbar systems | Without | 3NP5065-1CF00 | – | – | – |
| | 1 NO + 1 NC | 3NP5065-1CF10 | – | – | – |
| Electromechanical fuse monitoring with 1 NO + 1 NC as a signaling contact | | | | | |
| Floor mounting | 1 NO + 1 NC | 3NP5060-0EA86 | 3NP5260-0EA86 | 3NP5360-0EA86 | 3NP5460-0EA86 |
| | 1 NO + 1 NC | 3NP5065-1EF86 | – | – | – |
| Electromechanical fuse monitoring with 2 NO as a signaling contact | | | | | |
| Floor mounting | 1 NO + 1 NC | 3NP5060-0EA26 | 3NP5260-0EA26 | 3NP5360-0EA26 | 3NP5460-0EA26 |
| | 1 NO + 1 NC | 3NP5065-1EF26 | – | – | – |
| Electronic fuse monitoring with 1 NO + 1 NC as a signaling contact | | | | | |
| Floor mounting | 1 NO + 1 NC | 3NP5060-0HA13 | 3NP5260-0HA13 | 3NP5360-0HA13 | 3NP5460-0HA13 |
| | 1 NO + 1 NC | 3NP5065-1HF13 | – | – | – |

Accessories

| | | | | NH00 | NH1 | NH2 | NH3 |
|---|--|---|--------------------------------|--------------------|-----|-----|-----|
| Clamp terminals | | | | | | | |
|  | Version | Scope of supply | Article No. | | | | |
| | For retrofitting to 3NP5 with flat terminals | 3 units | 3NY1903 3NY1907 | ■ | | | |
| Busbar adapters | | | | | | | |
|  | • For 60 mm busbar system | | Article No. | | | | |
| | Version | For adaptation of a 3NP5, for floor mounting on a 60-mm busbar system | 8US1291-4SB00 8US1210-4AG00 | ■ | | | |
| | | | | | ■ | ■ | ■ |
| Covers for cable lug connections | | | | | | | |
|  | Version | Scope of supply | Article No. | | | | |
| | Can be screwed onto the free end of the screw | 6 units | 3NY1241 3NY1245 | | ■ | | ■ |
| Covers for 3NP5, with auxiliary switch mounted | | | | | | | |
|  | • With punched cutouts for auxiliary switches | | Article No. | | | | |
| | Color | Version | Dimensions | Article No. | | | |
| | Gray | Flat | 215 × 135 mm | 3NY1115 | ■ | | |
| | Black | Flat, with additional bending edges | 290 × 135 mm | 3NY1116 | ■ | | |
| Covers for 3NP5, without auxiliary switches mounted | | | | | | | |
|  | • With prepunched cutouts for retrofitting an auxiliary switch | | Article No. | | | | |
| | Color | Version | Dimensions | Article No. | | | |
| | Gray | Flat | 215 × 135 mm | 3NY1105 | ■ | | |
| | Black | Flat | 290 × 135 mm | 3NY1106 | ■ | | |
| | | Angled | 265 × 135 mm | 3NY1107 | ■ | | |
| | Flat, with additional bending edges | 290 × 135 mm | 3NY1108 | ■ | | | |

Accessories

| | | | | NH00 | NH1 | NH 2 | NH3 |
|---|--|--------------------|--------------------|------|-----|------|-----|
| Auxiliary switches | | | | | | | |
|  | Version | Article No. | | | | | |
| | 1 NO + 1 NC, including mounting kit | 3NY3033 | ■ | | | | |
| | | 3NY3034 | | ■ | ■ | | ■ |
| Arc chutes | | | | | | | |
|  | <ul style="list-style-type: none"> Spare part for arc chutes installed in the factory, one unit per switch is required for NH00, three units for NH1 to NH3 | Article No. | | | | | |
| | | 3NY4031 | ■ | | | | |
| | | 3NY4011 | | ■ | | | |
| | | 3NY4012 | | | ■ | | ■ |
| | | | | | | ■ | ■ |
| Assembly kits for flush mounting in front panel | | | | | | | |
|  | Version | Article No. | | | | | |
| | Assembly kit with cover and mounting accessories | 3NY1208 | ■ | | | | |
| | | 3NY1210 | | ■ | | | |
| | | 3NY1211 | | | ■ | | |
| | | 3NY1212 | | | | | ■ |
| | Covers (spare part for assembly kit) | 3NY1102 | | ■ | | | |
| | | 3NY1103 | | | ■ | | |
| | | 3NY1104 | | | | | ■ |
| Fuse carriers | | | | | | | |
|  | Version | Article No. | | | | | |
| | Without fuse monitoring | 3NY1074 | ■ | | | | |
| | | 3NY1371 | | ■ | | | |
| | | 3NY1372 | | | ■ | | |
| | | 3NY1373 | | | | | ■ |
| | With electromechanical fuse monitoring by circuit breakers, signaling contact 1 NO + 1 NC, without connecting cable | 3NY1420 | ■ | | | | |
| | | 3NY1421 | | ■ | | | |
| | | 3NY1422 | | | ■ | | |
| | | 3NY1423 | | | | | ■ |
| | With electromechanical fuse monitoring, signaling contact 1 NO + 1 NC, without connecting cable | 3NY1513-0 | ■ | | | | |
| | | 3NY1513-2 | | ■ | | | |
| | | 3NY1513-3 | | | ■ | | |
| | | 3NY1513-4 | | | | | ■ |
| Connectors and connecting cables | | | | | | | |
|  | Version | Length | Article No. | | | | |
| | For electromechanical fuse monitoring | 1 m | 3NY1910 | ■ | ■ | ■ | ■ |
| | | 3 m | 3NY1911 | ■ | ■ | ■ | ■ |
| | For electronic fuse monitoring | 3 m | 3NY1915 | ■ | ■ | ■ | ■ |
| | | | | | | | |

3NJ4 fuse switch disconnectors

System overview

1-pole switchable



Standard

For integratable
current transformers

3-pole switchable



Standard

For integratable
current transformersWith electronic
fuse monitoring

8

Accessories



Covers

Adapters on
busbar systemsMounting and
assembly elementsBusbar connection
assembly kits

Fuses

Current
transformers

Note:

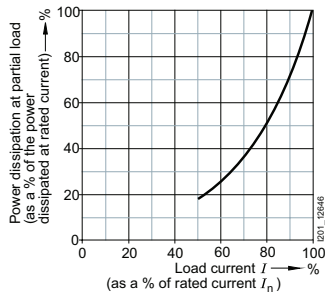
You will find a detailed range of accessories with the basic units.

General information



Suitable fuses

You will find further information under:
sie.ag/2UlrAvy

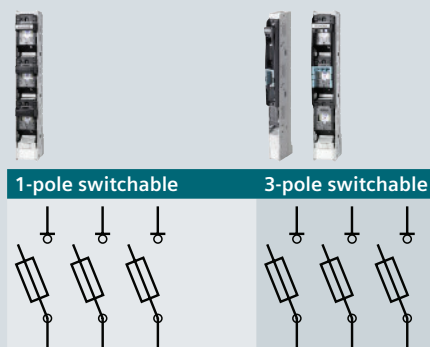


The 3NJ4 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded.

For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.

3NJ4 fuse switch disconnectors



| Connection | Size of fuse | Busbar center-to-center spacing | Rated operational current I_e | | |
|---|--------------------------|---------------------------------|---------------------------------|---------------|---------------|
| Standard | | | | | |
| M8 flat connector | NH00/NH000 ¹⁾ | 185 mm | 160 A | 3NJ4101-3BF01 | 3NJ4103-3BF01 |
| | NH00/NH000 | 100 mm | 160 A | – | 3NJ4103-3BF02 |
| F70 box terminal | NH00/NH000 | 100 mm | 160 A | – | 3NJ4103-3BR02 |
| M10 flat connector | NH1 | 185 mm | 250 A | 3NJ4121-3BF01 | 3NJ4123-3BF01 |
| M12 flat connector | NH2 | 185 mm | 400 A | 3NJ4131-3BF01 | 3NJ4133-3BF01 |
| | NH3 | 185 mm | 630 A | 3NJ4141-3BF01 | 3NJ4143-3BF01 |
| | NH3 | 185 mm | 630 A | – | 3NJ4143-3BJ01 |
| M12 stud terminal | NH1 | 185 mm | 250 A | – | 3NJ4123-3BJ01 |
| | NH2 | 185 mm | 400 A | – | 3NJ4133-3BJ01 |
| | NH3 | 185 mm | 630 A | – | 3NJ4143-3BJ01 |
| M16 × 60 stud terminal | NH4a | 185 mm | 1250 A | 3NJ5643-0BB00 | – |
| V terminal | NH1 | 185 mm | 250 A | – | 3NJ4123-3BT01 |
| | NH2 | 185 mm | 400 A | – | 3NJ4133-3BT01 |
| | NH3 | 185 mm | 630 A | – | 3NJ4143-3BT01 |
| For integratable current transformers | | | | | |
| M8 flat connector | NH00/NH000 | 100 mm | 160 A | – | 3NJ4103-3BF12 |
| M10 flat connector | NH1 | 185 mm | 250 A | 3NJ4121-3BF11 | 3NJ4123-3BF11 |
| M12 flat connector | NH2 | 185 mm | 400 A | 3NJ4131-3BF11 | 3NJ4133-3BF11 |
| | NH3 | 185 mm | 630 A | 3NJ4141-3BF11 | 3NJ4143-3BF11 |
| With electronic fuse monitoring devices EFM | | | | | |
| M8 flat connector | NH00/NH000 | 100 mm | 160 A | – | 3NJ4103-3CF02 |
| M10 flat connector | NH1 | 185 mm | 250 A | – | 3NJ4123-3CF01 |
| M12 flat connector | NH2/NH1 | 185 mm | 400 A | – | 3NJ4133-3CF01 |
| | NH3/NH2 | 185 mm | 630 A | – | 3NJ4143-3CF01 |
| For integratable current transformers, with EFM electronic fuse monitoring | | | | | |
| M8 flat connector | NH00/NH000 | 100 mm | 160 A | – | 3NJ4103-3CF12 |
| M10 flat connector | NH1 | 185 mm | 250 A | – | 3NJ4123-3CF11 |
| M12 flat connector | NH2/NH1 | 185 mm | 400 A | – | 3NJ4133-3CF11 |
| | NH3/NH2 | 185 mm | 630 A | – | 3NJ4143-3CF11 |
| For secondary-side fusing of transformers and incoming block | | | | | |
| Flat connector | NH3 | 185 mm | 1000 A | – | 3NJ4153-3BF01 |
| | | 185 mm | 1250 A | – | 3NJ4183-3BF01 |
| | | 185 mm | 1600 A | – | 3NJ4163-3BF01 |
| | | 185 mm | 2000 A | – | 3NJ4173-3BF01 |

¹⁾ If mounted together with device sizes NH1 to NH3, a 3NJ5930-3BB adapter is required as an accessory to compensate for differences in height.

Note:

- Fixing screws for mounting on busbars must be ordered separately.

3NJ4 fuse switch disconnectors

Accessories

Covers



- Additional touch protection when using cable lugs and as spacer

| Size | Busbar center-to-center spacing | Version | Article No. |
|-------------|----------------------------------|-------------------|---------------|
| NH00 | 100 mm | Top and bottom | 3NJ4912-1DA02 |
| | 185 mm | 100 mm for bottom | 3NJ4912-1FA01 |
| | | 132 mm for top | 3NJ4912-1FA00 |
| NH1 ... NH3 | Connection from the top | | 3NJ4912-1AA01 |
| NH3 | For double in-line disconnectors | | 3NJ4912-1EA00 |

Blanking covers



| Version | Length | Width | Busbar center-to-center spacing | Article No. |
|------------------------|--------|--------|---------------------------------|---------------|
| For switchboard cutout | 299 mm | 50 mm | 100 mm only | 3NJ4912-2CA00 |
| | 633 mm | 50 mm | | 3NJ4912-2AA00 |
| | 633 mm | 100 mm | | 3NJ4912-2BA00 |

Lateral masking frame supports



- 3 clips with T profile

| Size | Article No. |
|--------------|---------------|
| NH00 ... NH3 | 3NJ4912-2DA00 |

Fixing clips



| Scope of supply | Article No. |
|---|---------------|
| 1 set = 4 units, including fixing accessories | 3NJ4918-0AA00 |

Unequipped section covers



| Busbar center-to-center spacing | Width | Article No. |
|---------------------------------|--------|---------------|
| 185 mm | 50 mm | 3NJ4912-3AA00 |
| | 100 mm | 3NJ4912-3BA01 |
| 100 mm | 50 mm | 3NJ4912-3CA00 |

Adapters for screw fixing on busbar systems



- Adapters for screw fixing on busbar systems with 185 mm busbar center-to-center spacing
- For mounting 2 fuse switch disconnectors

| Version | Fuse switch disconnectors | Article No. |
|---|---------------------------|---------------|
| Adaptation to sizes 1 ... 3 | From 100 mm to 185 mm | 3NJ4918-0DA02 |
| | From 185 mm to 185 mm | 3NJ5930-3BB |
| Adaptation to sizes 1 ... 3, with busbar terminal | From 100 mm to 185 mm | 3NJ4918-0DB02 |

Adapters for screw fixing on busbar systems



- For fitting one fuse switch disconnector (= 3 separate brackets)

| Version | Article No. |
|--|---------------|
| Adaptation of 100 mm to busbar system with 60 mm busbar center-to-center spacing | 3NJ4918-0EA00 |

Fixing screws

- For fitting 3NJ4103 switch disconnectors with integratable current transformers onto adapters

| Scope of supply | Article No. |
|-----------------|---------------|
| 1 set = 3 units | 3NJ4918-0DC02 |








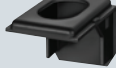


¹⁾ Touch protection only suitable for 3NJ4103-3BF02

²⁾ Touch protection only suitable for 3NJ4101-3BF01 and 3NJ4103-3BF01

| 3NJ4101 | 3NJ4103 | 3NJ412 | 3NJ413 | 3NJ414 | 3NJ415 | 3NJ416 | 3NJ417 | 3NJ418 |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | | | |
| | ■ 1) | | | | | | | |
| ■ 2) | ■ 2) | | | | | | | |
| ■ 2) | ■ 2) | | | | | | | |
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3NJ4 fuse switch disconnectors

Accessories

| | | | |
|---|--|---|--|
| Busbar supports | | | |
|  | <ul style="list-style-type: none"> For screwing on the busbars | | |
| | Version | For 100 and 185 mm busbar center-to-center spacing | Article No. 3NJ5974-0AB |
| Grounding kit | | | |
|  | Version | With connecting cable 25 mm ² | Article No. 3NJ4910-1AA00 |
| | | | |
| Busbar terminals | | | |
|  | <ul style="list-style-type: none"> Not for devices with transformer installation | | |
| | Version | For each fuse switch disconnector, 3 units are required | Article No. 3NJ4911-3AA00 |
| | For more rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units) | | 3NJ4911-3BA01 |
| Saddle terminals | | | |
|  | <ul style="list-style-type: none"> 1 set = 3 units | | |
| | Connection | Cu 1.5 ... 70 mm ² | Article No. 3NJ4911-4AA00 |
| Prism terminal assembly kits | | | |
|  | <ul style="list-style-type: none"> 1 set = 3 units | | |
| | Connection | Al/Cu 10 ... 70 mm ² | Article No. 3NJ4911-1AA00 |
| Box terminal assembly kits | | | |
|  | <ul style="list-style-type: none"> For connection to version with flat connector 1 set = 3 units | | |
| | Connection | Al/Cu 95 ... 240 mm ² | Article No. 3NJ4911-2BQ00 |
| Auxiliary switch mounting kits | | | |
|  | <ul style="list-style-type: none"> For 3-pole switchable switch disconnectors only | | |
| | Version | For NH00 ... NH3 with connecting cables | Contacts 1 CO Article No. 3NJ4913-1AA01 |
| Mounting hook | | | |
|  | <ul style="list-style-type: none"> 1 per in-line disconnector required | | |
| | | | Article No. 3NJ4918-1AA00 |
| Distance compensation | | | |
|  | Version | For NH00 | Article No. 3NJ4915-1BA00 |
| | For fuse switch disconnectors, with integratable current transformers if no current transformer is built in | | 3NJ4915-2BA00 |
| Terminal strips | | | |
|  | | | Article No. 3NJ4915-1CA00 |

| 3NJ4101 | 3NJ4103 | 3NJ412 | 3NJ413 | 3NJ414 | 3NJ415 | 3NJ416 | 3NJ417 | 3NJ418 |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|
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3NJ4 fuse switch disconnectors

Accessories

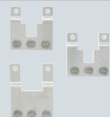
Busbar connection assembly kits for NH1, NH2 and NH3



- With flat terminals

| Screws | Conductor cross-section | Article No. |
|--------|--|---------------|
| M12 | 2× 240 mm ² | 3NJ4911-5AA00 |
| | 2× 300 mm ² /3× 120 mm ² | 3NJ4911-5BA00 |
| M16 | 1× 400 mm ² | 3NJ4911-5CA00 |

Busbar connection assembly kits for NH3



| Version | Conductor cross-section | Article No. |
|---|--|---------------|
| For NH3 as double in-line disconnectors | 3× 300 mm ² /4× 185 mm ² | 3NJ4911-6AA00 |
| | 4× 240 mm ² | 3NJ4911-6BA00 |

| | |
|--|---------------|
| Mechanical coupling of operating handles | 3NJ4911-6CA00 |
|--|---------------|

Fuses NH3



- Minimum order quantity 3 units

| Version | Article No. |
|--|---------------|
| For protection of transformers, 630 kVA, 909 A | 3NJ4914-8AA00 |

Isolating blades NH3

| Rated current I _e | Article No. |
|------------------------------|---------------|
| 1250 A | 3NJ4914-8BA00 |

Current transformers .../1 A



| Rated current I _e | Accuracy class | Rated power P _n | Article No. |
|------------------------------|----------------|----------------------------|---------------|
| 100/1 A | 0.5 | 1.5 VA | 3NJ4915-1EA10 |
| | 1 | 2.0 VA | 3NJ4915-1EA20 |
| 150/1 A | 0.5 | 2.5 VA | 3NJ4915-1FA10 |
| | 0.5 calibrated | 2.5 VA | 3NJ4915-1FA11 |
| | 1 | 3.0 VA | 3NJ4915-1FA20 |
| 75/1 A | 1 | 1.5 VA | 3NJ4915-2DA20 |
| 100/1 A | 0.5 | 1.5 VA | 3NJ4915-2EA10 |
| | 1 | 2.0 VA | 3NJ4915-2EA20 |
| 150/1 A | 1 | 2.5 VA | 3NJ4915-2FA20 |
| | 0.5 | 2.5 VA | 3NJ4915-2GA10 |
| 250/1 A | 0.5 calibrated | 2.5 VA | 3NJ4915-2GA11 |
| | 1 | 5.0 VA | 3NJ4915-2GA20 |
| | 0.5 | 2.5 VA | 3NJ4915-2HA10 |
| 400/1 A | 0.5 calibrated | 2.5 VA | 3NJ4915-2HA11 |
| | 1 | 5.0 VA | 3NJ4915-2HA20 |
| | 0.5 | 2.5 VA | 3NJ4915-2JA10 |
| 500/1 A | 1 | 5.0 VA | 3NJ4915-2JA20 |
| | 0.5 | 2.5 VA | 3NJ4915-2KA10 |
| 600/1 A | 0.5 calibrated | 2.5 VA | 3NJ4915-2KA11 |
| | 1 | 5.0 VA | 3NJ4915-2KA20 |



| 3NJ4101 | 3NJ4103 | 3NJ412 | 3NJ413 | 3NJ414 | 3NJ415 | 3NJ416 | 3NJ417 | 3NJ418 |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|
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3NJ4 fuse switch disconnectors

Accessories

Current transformers .../5 A



| Rated current I_n | Accuracy class | Rated power P_n | Article No. |
|---------------------|----------------|-------------------|---------------|
| 100/5 A | 0.5 | 1.0 VA | 3NJ4915-1EB10 |
| | 1 | 1.5 VA | 3NJ4915-1EB20 |
| 150/5 A | 0.5 | 1.5 VA | 3NJ4915-1FB10 |
| | 0.5 calibrated | 1.5 VA | 3NJ4915-1FB11 |
| | 1 | 2.5 VA | 3NJ4915-1FB20 |
| 75/5 A | 1 | 1.5 VA | 3NJ4915-2DB20 |
| 100/5 A | 0.5 | 1.0 VA | 3NJ4915-2EB10 |
| | 1 | 2.0 VA | 3NJ4915-2EB20 |
| 150/5 A | 0.5 | 1.5 VA | 3NJ4915-2FB10 |
| | 1 | 2.5 VA | 3NJ4915-2FB20 |
| 250/5 A | 0.5 | 2.5 VA | 3NJ4915-2GB10 |
| | 0.5 calibrated | 2.5 VA | 3NJ4915-2GB11 |
| | 1 | 3.75 VA | 3NJ4915-2GB20 |
| 400/5 A | 0.5 | 2.5 VA | 3NJ4915-2HB10 |
| | 0.5 calibrated | 2.5 VA | 3NJ4915-2HB11 |
| | 1 | 5.0 VA | 3NJ4915-2HB20 |
| 500/5 A | 0.5 | 2.5 VA | 3NJ4915-2JB10 |
| | 1 | 5.0 VA | 3NJ4915-2JB20 |
| 600/5 A | 0.5 | 2.5 VA | 3NJ4915-2KB10 |
| | 0.5 calibrated | 2.5 VA | 3NJ4915-2KB11 |
| | 1 | 5.0 VA | 3NJ4915-2KB20 |

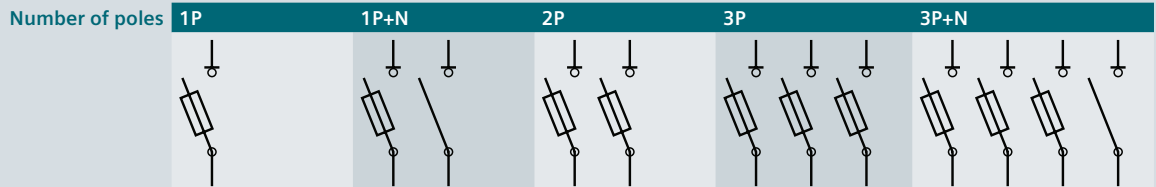
| 3NJ4101 | 3NJ4103 | 3NJ412 | 3NJ413 | 3NJ414 | 3NJ415 | 3NJ416 | 3NJ417 | 3NJ418 |
|---------|---------|--------|--------|--------|--------|--------|--------|--------|
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5SG76 fuse switch disconnectors

System overview

MINIZED fuse switch disconnectors





| Size of fuse | Rated current I_n | Mounting width 1 MW | Mounting width 2 MW | Mounting width 2 MW | Mounting width 3 MW | Mounting width 4 MW |
|--|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| MINIZED fuse switch disconnectors | | | | | | |
| D01 | 6 A ¹⁾ | 5SG7611-0KK06 | – | – | 5SG7631-0KK06 | – |
| | 10 A | 5SG7611-0KK10 | – | – | 5SG7631-0KK10 | – |
| | 16 A | 5SG7611-0KK16 | 5SG7651-0KK16 | 5SG7621-0KK16 | 5SG7631-0KK16 | 5SG7661-0KK16 |

¹⁾ For 2 A, 4 A, 6 A fuses

Switch disconnectors with fuses

Quick selection guide



3KF LV HRC



| Size | | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | |
|--|--------------------------------------|-------------------|------|------|------|------|---------|---------|---------|-------|-------|
| General technical specifications acc. to IEC 60947-3 | | | | | | | | | | | |
| Basic data | | | | | | | | | | | |
| Rated uninterrupted current I_u | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | |
| For fuse links acc. to IEC 60269-2 | | 000 and 00 | | | | | 0 and 1 | 1 and 2 | 2 and 3 | | |
| Rated operational voltage U_e | At 50/60 Hz AC | V AC | | | | | 690 | | | | |
| | At DC - 2 conducting paths in series | V DC | | | | | 220 | | | | |
| | At DC - 3 conducting paths in series | V DC | | | | | 440 | | | | |
| | At DC | V DC | | | | | - | | | | |
| Operating and short-circuit behavior | | | | | | | | | | | |
| Rated operational current I_e ¹⁾ | At AC-21A AC-21B at 400 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At AC-21A AC-21B at 500 V | A | - | - | - | - | - | - | - | - | - |
| | At AC-21A AC-21B at 690 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At AC-22A AC-22B at 400 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At AC-22A AC-22B at 500 V | A | - | - | - | - | - | - | - | - | - |
| | At AC-22A AC-22B at 690 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At AC-23A AC-23B at 400 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At AC-23A AC-23B at 500 V | A | - | - | - | - | - | - | - | - | - |
| | At AC-23A AC-23B at 690 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At DC-21A DC-21B at 48 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-21A DC-21B at 110 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-21A DC-21B at 220 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At DC-21A DC-21B at 400 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-21A DC-21B at 440 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At DC-22A DC-22B at 48 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-22A DC-22B at 110 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-22A DC-22B at 220 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At DC-22A DC-22B at 400 V | A | - | - | - | - | - | - | - | - | - |
| | At DC-22A DC-22B at 440 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 |
| | At DC-23A DC-23B at 48 V | A | - | - | - | - | - | - | - | - | - |
| At DC-23A DC-23B at 110 V | A | - | - | - | - | - | - | - | - | - | |
| At DC-23A DC-23B at 220 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | |
| At DC-23A DC-23B at 400 V | A | - | - | - | - | - | - | - | - | - | |
| At DC-23A DC-23B at 440 V | A | 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | |
| Motor switching capacity ²⁾ | At AC-23A at 400 V | kW | 15 | 30 | 37 | 55 | 90 | 132 | 220 | 355 | 400 |
| | At AC-23A at 500 V | kW | 18.5 | 37 | 55 | 75 | 110 | 160 | 280 | 400 | 560 |
| | At AC-23A at 690 V | kW | 30 | 55 | 75 | 110 | 132 | 250 | 400 | 630 | 800 |
| Rated conditional short-circuit current with upstream fuse ³⁾ | At 400/500 V AC | kA | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| | At 690 V AC | kA | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80 | 80 |
| Let-through current I_c of usable fuses, max. ³⁾ | At 400/500 V AC | kA | 11.8 | 11.8 | 11.8 | 18 | 18 | 33.7 | 37.1 | 77.4 | 77.4 |
| | At 690 V AC | kA | 11.5 | 11.5 | 11.5 | 25.5 | 25.5 | 37.7 | 47 | 65 | 65 |
| Let-through current I^2t value of usable fuses, max. ³⁾ | At 400/500 V AC | kA ² s | 34 | 34 | 34 | 223 | 223 | 1500 | 2150 | 10400 | 10400 |
| | At 690 V AC | kA ² s | 55 | 55 | 55 | 360 | 360 | 940 | 2600 | 7000 | 7000 |
| Maximum power loss of the usable fuses (per fuse) | W | 6.5 | 7.5 | 8.5 | 11 | 12 | 25.5 | 34 | 48 | 60 | |
| Degree of protection | | | | | | | | | | | |
| Maximum IP degree of protection (with a rotary operating mechanism) | | IP65 | | | | | IP65 | | | | |
| Maximum IP degree of protection | | - | | | | | - | | | | |

¹⁾ Values valid even at +10% line voltage tolerance in case of AC

²⁾ Values are provided as a guide only and may vary depending on the make of motor

³⁾ Valid for combination of 3KF and fuse type 3NA/3ND, characteristic gG/aM

3KF SITOR



3NJ62



5SG7



| 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 00 | 00 | 00 | 00 | 1 | 2 | 3 | 3 | 5SG71. | 5SG7230 | 5SG7234. |
|------------|------|------|------|------|-------------|---------|---------|------------|------------------------------|-----|-------------|-----|----------|---------|-----|------|--------|---------|----------|
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | 63 | 63 | 63 |
| 000 and 00 | | | | | 0 and 1 | 1 and 2 | 2 and 3 | 000 and 00 | | | | 1 | 1 and 2 | 2 and 3 | D02 | D02 | D02 | | |
| 690 | | | | | 500 ... 690 | | | | 690 | | 230 ... 690 | | 400, 415 | 400 | 400 | | | | |
| 220 | | | | | 230 ... 440 | | | | 230 ... 440 | | | | 130 | 110 | - | | | | |
| 440 | | | | | - | | | | - | | - | | - | - | - | | | | |
| - | | | | | - | | | | - | | - | | 65 | - | - | | | | |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - 63 | - | - 63 |
| - | - | - | - | - | - | - | - | - | - | - | - | 160 | - | - | - | - | - 63 | - | - 63 |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | 125 | - | 250 | 400 | 500 | - | - 63 | - | - 63 |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | 63 - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | 160 | - | - | - | - | - | - | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | 63 | 100 | 125 | - | 250 | 400 | 500 | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - 63 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | 250 | 400 | - | 630 | - | - 63 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - 63 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - 63 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - 63 | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | 160 | 250 | 400 | - | 630 | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32 | 63 | 80 | 125 | 160 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - | - |
| 15 | 30 | 37 | 55 | 90 | 132 | 220 | 355 | 400 | - | - | - | - | - | - | - | - | - | - | - |
| 18.5 | 37 | 55 | 75 | 110 | 160 | 280 | 400 | 560 | - | - | - | - | - | - | - | - | - | - | - |
| 30 | 55 | 75 | 110 | 132 | 250 | 400 | 630 | 800 | - | - | - | - | - | - | - | - | - | - | - |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | - | | | | | | | 50/- | 50/- | 50/- | |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 80 | 80 | 60 ... 100 kA _{eff} | | | | | | | - | - | - | |
| 11.8 | 11.8 | 11.8 | 18 | 18 | 33.7 | 37.1 | 77.4 | 77.4 | - | | | | | | | - | - | - | |
| 11.5 | 11.5 | 11.5 | 25.5 | 25.5 | 37.7 | 47 | 65 | 65 | - | | | | | | | - | - | - | |
| 34 | 34 | 34 | 223 | 223 | 1500 | 2150 | 10400 | 10400 | - | | | | | | | - | - | - | |
| 55 | 55 | 55 | 360 | 360 | 940 | 2600 | 7000 | 7000 | - | | | | | | | - | - | - | |
| 7 | 8 | 12 | 20 | 26 | 36 | 55 | 68 | 85 | - | | | | | | | 5.5 | 5.5 | 5.5 | |
| IP65 | | | | | | | | | IP41 | | | | | | | - | - | - | |
| - | | | | | | | | | - | | | | | | | IP20 | - | - | |

Switch disconnectors with fuses

Quick selection guide (continued)



3KF LV HRC



| Size | | | 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 |
|--|----------|----|---|---|---|---|---|---|---|---|--------------------------------|
| General technical specifications acc. to UL | | | | | | | | | | | |
| Basic data | | | | | | | | | | | |
| Certification according to UL standard | | | - | - | - | - | - | - | - | - | - |
| I_n acc. to UL 508 | A | | - | - | - | - | - | - | - | - | - |
| U_g acc. to UL 508 | | | - | - | - | - | - | - | - | - | - |
| Operating and short-circuit behavior | | | | | | | | | | | |
| Operational power, three-phase | At 240 V | kA | - | - | - | - | - | - | - | - | - |
| | At 480 V | kA | - | - | - | - | - | - | - | - | - |
| | At 600 V | kA | - | - | - | - | - | - | - | - | - |
| Short circuit current rating (SCCR) | | | - | - | - | - | - | - | - | - | - |
| Fuse type | | | - | - | - | - | - | - | - | - | - |
| More information | | | | | | | | | | | |
| Catalog LV 10 | | | | | | | | | | | see page 8/116 |
| Technical specifications | | | | | | | | | | | Configuration in SIMARIS |

3KF SITOR



3NJ62



5SG7



| | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|--------------------|----------------|----------------|----------------|--------------------|----------------|----------------|--------------------------------|----|----|----|---|---|---|---|--------|--------------------------------|----------|--|
| 1 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 00 | 00 | 00 | 00 | 1 | 2 | 3 | 3 | 5SG71. | 5SG7230 | 5SG7234. | |
| UL 508 | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | |
| 32 | 56 | 56 | 125 | 125 | 500 | 320 | 530 | 530 | - | - | - | - | - | - | - | - | - | - | - | |
| 600 | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | |
| 10 | 15 | 15 | 25 | 30 | 60 | 100 | 125 | 150 | - | - | - | - | - | - | - | - | - | - | - | |
| 25 | 30 | 40 | 60 | 75 | 150 | 250 | 300 | 300 | - | - | - | - | - | - | - | - | - | - | - | |
| 30 | 40 | 40 | 50 | 50 | 1255 | 250 | 300 | 350 | - | - | - | - | - | - | - | - | - | - | - | |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | |
| K-1, RK1, CC, J, T | K-1, RK1, CC, J, T | K-1, RK1, CC, J, T | K-1, RK1, J, T | K-1, RK1, J, T | K-1, RK1, J, T | K-1, RK1, CC, J, T | K-1, RK1, J, T | K-1, RK1, J, T | - | - | - | - | - | - | - | - | - | - | - | |
| see page 8/116 | | | | | | | | | see page 8/132 | | | | | | | | | see page 8/144 | | |
| Configuration in SIMARIS | | | | | | | | | Configuration in SIMARIS | | | | | | | | | Configuration in SIMARIS | | |

3KF switch disconnectors with fuses

System overview

Complete assemblies with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



3KF SITOP

Additional poles



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



Handles for door-coupling rotary operating mechanisms



Other accessories for door-coupling rotary operating mechanisms



Other accessories and spare parts



Auxiliary switches



Fuse monitoring



Terminal covers



Mounting elements



Fuse covers

Note:

You will find a detailed range of accessories with the basic units.

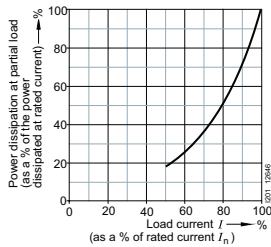
3KF switch disconnectors with fuses

General information



Suitable fuses

You will find further information under:
sie.ag/2UlrAvy



The 3KF switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2. These include fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the switch disconnector with fuses is not exceeded. For use of Siemens semiconductor fuses (SITOR), ready-made derating tables are available in the linked document.

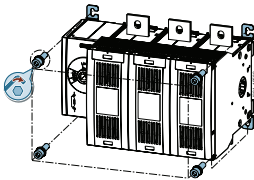


Types of mounting

You will find further information under:
sie.ag/2UlrAvy

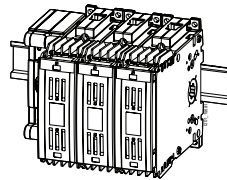


Floor mounting



All 3KF switch disconnectors with fuses are designed for floor mounting.

Standard mounting rail



Size 1 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.

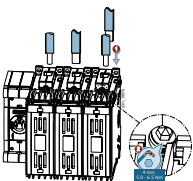


Electrical connection

You will find further information under:
sie.ag/2UlrAvy

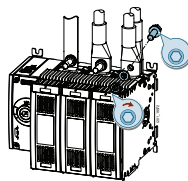


Box terminals



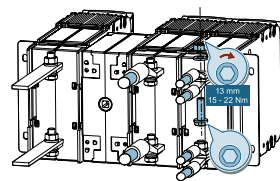
The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

Flat terminals



Sizes 2 ... 5 are available with flat terminals, for the connection of cable lugs or busbar systems.

Flat terminals at rear



Sizes 1 and 2 (32 A, 63 A and 125 A) are available with rear flat terminals, for the connection of cable lugs or busbar systems.

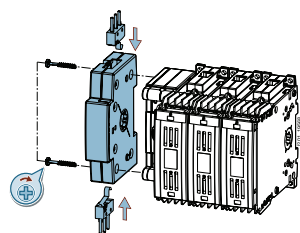


Auxiliary switch modules and auxiliary switches

You will find further information under: sie.ag/2UlrAvy

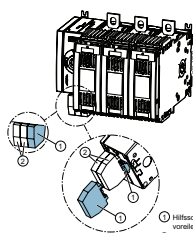


Size 1



The auxiliary switches used for size 1 are microswitches (changeover contacts), which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector with fuses in the same way as an additional pole. A maximum of two microswitches can be installed in each auxiliary switch module.

Sizes 2 ... 5



① Hilfsschalter, vorderele
② Hilfsschalter, zuegele

For sizes 2 ... 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.



Differentiation 3KF SITOR and derating tables for SITOR fuses

You will find further information under: sie.ag/2UlrAvy



Size 1



3KF SITOR is a variation of the proven switch disconnector with 3KF LV HRC fuses and provides optimized heat dissipation and permits the use of fuses with substantially higher power losses. All 3KF SITOR types are approved according to UL508.

Sizes 2 ... 5

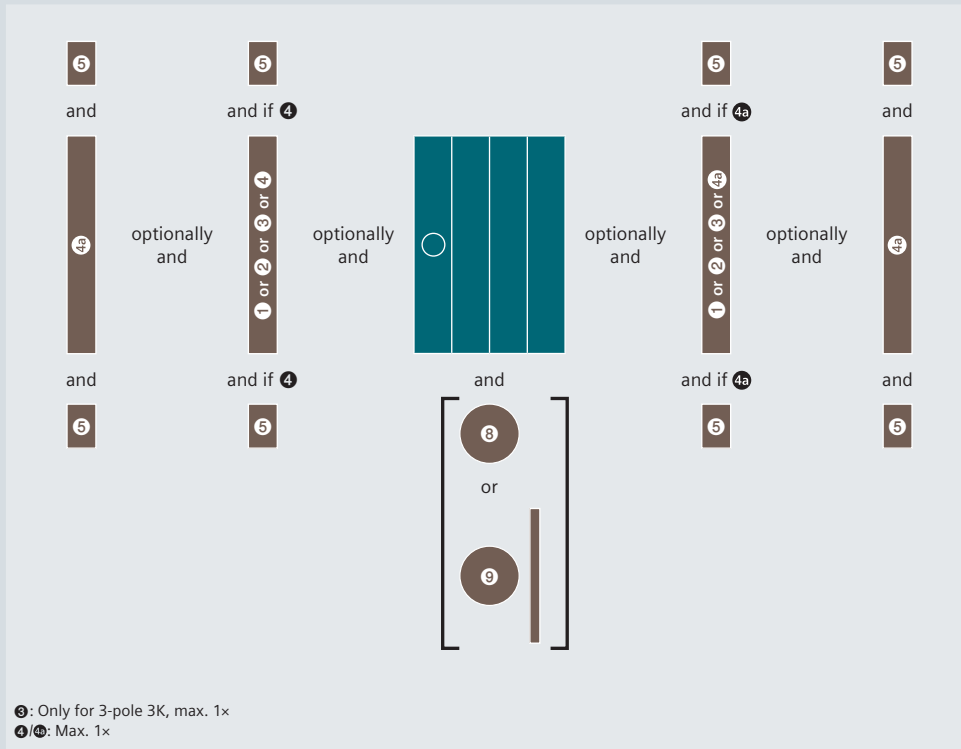
| Type | Rated current I _{nom} [A] | Rated voltage U _{nom} [kV] | Rated breaking capacity I _{bn} [kA] | Rated power P _{nom} [kW] | Permissible load currents of fuse when installed in | | | | | | | | | | | |
|----------------|------------------------------------|-------------------------------------|--|-----------------------------------|---|-------|-------|-------|-----------------|-------|-------|-------|-----------------|-------|-------|-------|
| | | | | | Type 3KF L1-001 | | | | Type 3KF L1-002 | | | | Type 3KF L1-003 | | | |
| | | | | | IEC | UL | UL | UL | IEC | UL | UL | UL | IEC | UL | UL | UL |
| 3KF SITOR 25 | 25 | 0.69 | 100 | 1.5 | 20.0 | 20.0 | 20.0 | 20.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 3KF SITOR 35 | 35 | 0.69 | 150 | 2.5 | 25.0 | 25.0 | 25.0 | 25.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 3KF SITOR 45 | 45 | 0.69 | 200 | 4.0 | 30.0 | 30.0 | 30.0 | 30.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 |
| 3KF SITOR 63 | 63 | 0.69 | 300 | 6.0 | 35.0 | 35.0 | 35.0 | 35.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| 3KF SITOR 80 | 80 | 0.69 | 400 | 8.0 | 40.0 | 40.0 | 40.0 | 40.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| 3KF SITOR 100 | 100 | 0.69 | 500 | 12.0 | 45.0 | 45.0 | 45.0 | 45.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 |
| 3KF SITOR 125 | 125 | 0.69 | 600 | 16.0 | 50.0 | 50.0 | 50.0 | 50.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0 |
| 3KF SITOR 160 | 160 | 0.69 | 800 | 24.0 | 60.0 | 60.0 | 60.0 | 60.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 |
| 3KF SITOR 200 | 200 | 0.69 | 1000 | 36.0 | 70.0 | 70.0 | 70.0 | 70.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| 3KF SITOR 250 | 250 | 0.69 | 1300 | 54.0 | 80.0 | 80.0 | 80.0 | 80.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| 3KF SITOR 315 | 315 | 0.69 | 1700 | 81.0 | 90.0 | 90.0 | 90.0 | 90.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 |
| 3KF SITOR 400 | 400 | 0.69 | 2200 | 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 |
| 3KF SITOR 500 | 500 | 0.69 | 2800 | 144.0 | 110.0 | 110.0 | 110.0 | 110.0 | 105.0 | 105.0 | 105.0 | 105.0 | 105.0 | 105.0 | 105.0 | 105.0 |
| 3KF SITOR 630 | 630 | 0.69 | 3600 | 180.0 | 120.0 | 120.0 | 120.0 | 120.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 |
| 3KF SITOR 800 | 800 | 0.69 | 4800 | 240.0 | 130.0 | 130.0 | 130.0 | 130.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 | 125.0 |
| 3KF SITOR 1000 | 1000 | 0.69 | 6000 | 300.0 | 140.0 | 140.0 | 140.0 | 140.0 | 135.0 | 135.0 | 135.0 | 135.0 | 135.0 | 135.0 | 135.0 | 135.0 |

Siemens provides you with pretested load currents of the SITOR semiconductor fuses for installation in the 3KF SITOR. The derating tables are provided both for IEC constraints and for UL constraints and are intended to help you with selection. The permissible load faults for the 3KF LV HRC were calculated from the test results of the 3KF SITOR.

3KF switch disconnectors with fuses

Mounting concept and accessories 3KF

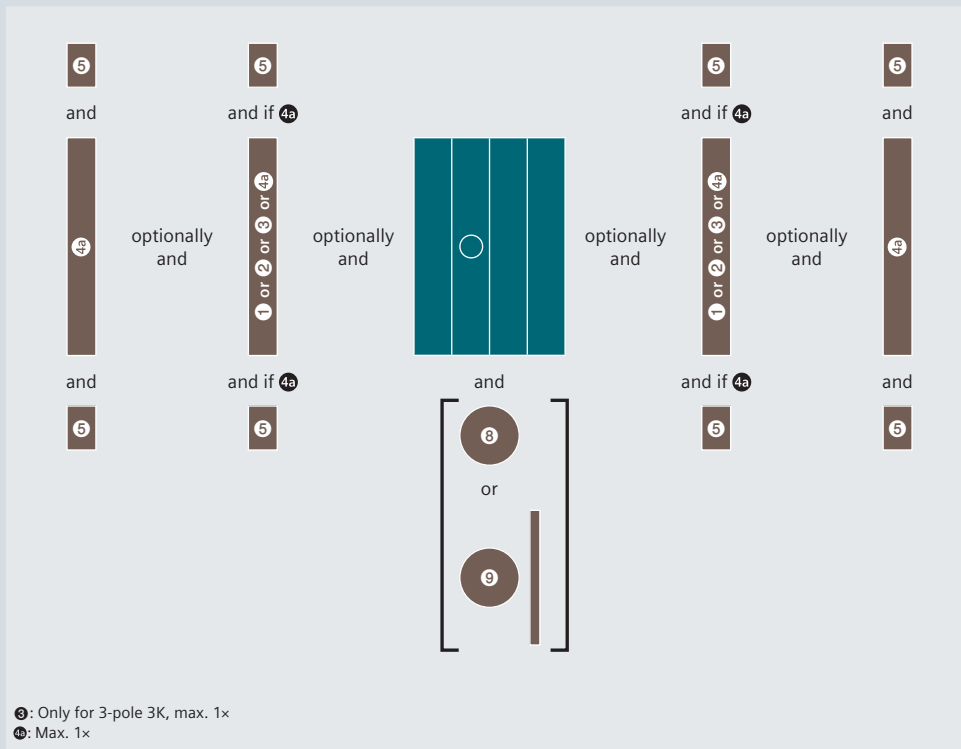
Front operating mechanism left, size 1, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④ Auxiliary switch module, leading, with test function
- ④a Auxiliary switch module for auxiliary switches
- ⑤ Auxiliary switch
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

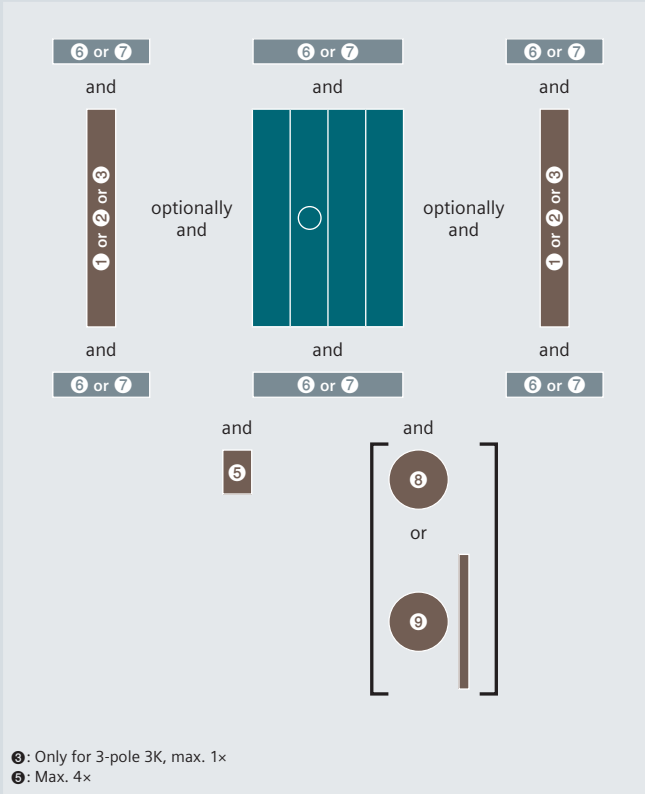
Front operating mechanism right, size 1, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ④a Auxiliary switch module for auxiliary switches
- ⑤ Auxiliary switch
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

Front operating mechanism center or left, sizes 2 to 5, 3/4-pole



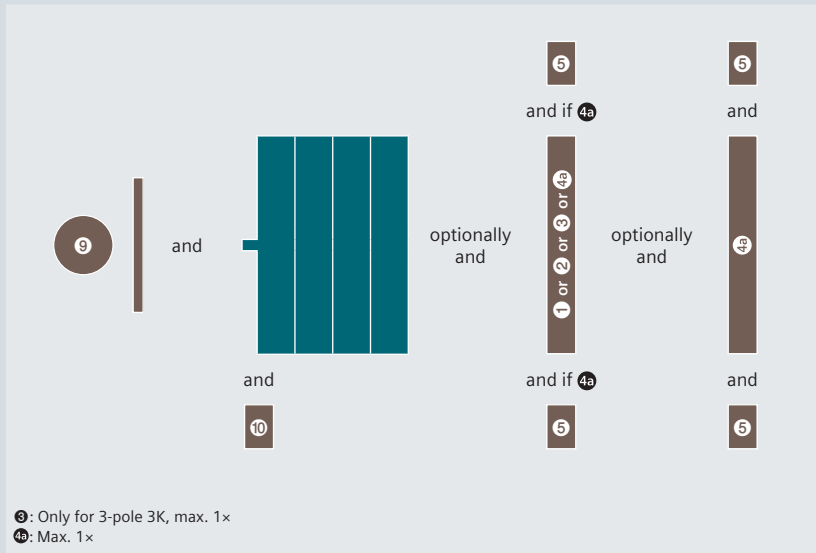
Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑧ Direct operating mechanism
- ⑨ Door-coupling rotary operating mechanism

3KF switch disconnectors with fuses

Mounting concept and accessories 3KF

Lateral operating mechanism left, size 1, 3/4-pole

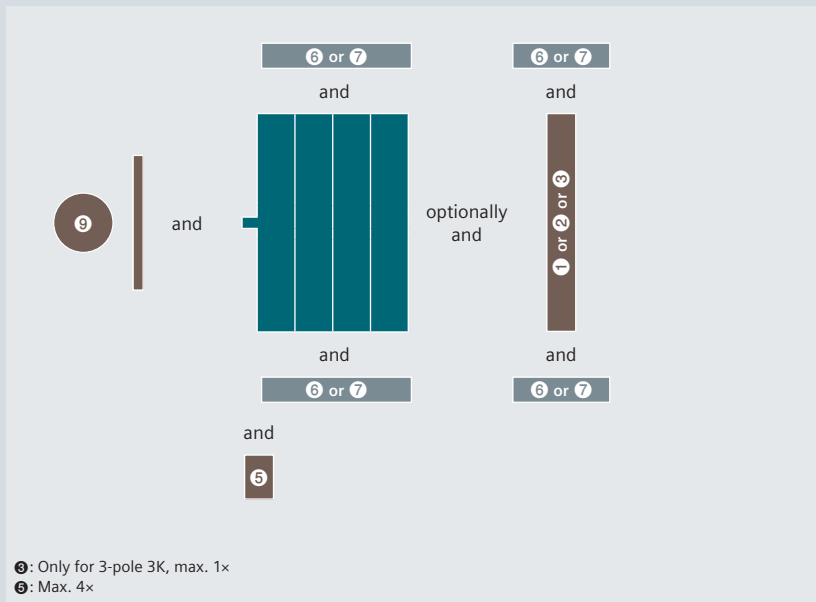


Legend

- 1 Neutral conductor terminal
- 2 N/PE terminal
- 3 4th contact element
- 4a Auxiliary switch module for auxiliary switches
- 5 Auxiliary switch
- 9 Door-coupling rotary operating mechanism
- 10 Lateral auxiliary switch module

8

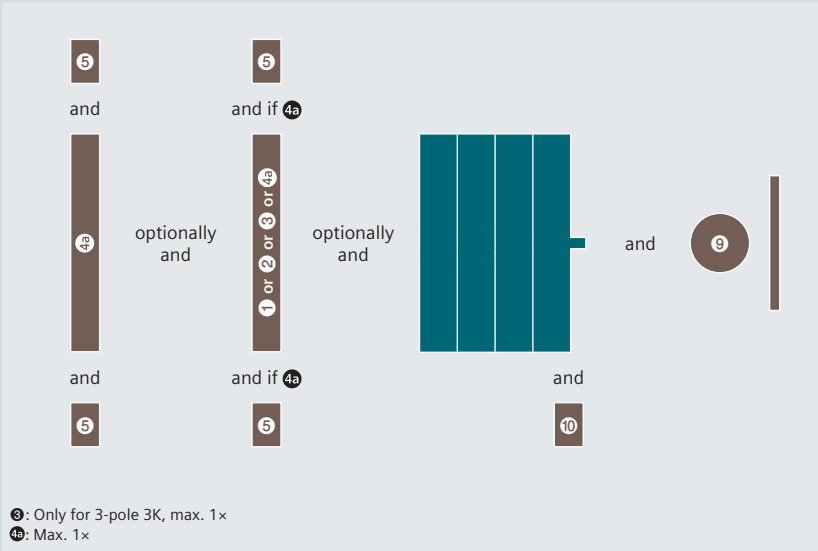
Lateral operating mechanism left, sizes 2 to 5, 3/4-pole



Legend

- 1 Neutral conductor terminal
- 2 N/PE terminal
- 3 4th contact element
- 5 Auxiliary switch
- 6 Phase barrier
- 7 Terminal cover
- 9 Door-coupling rotary operating mechanism

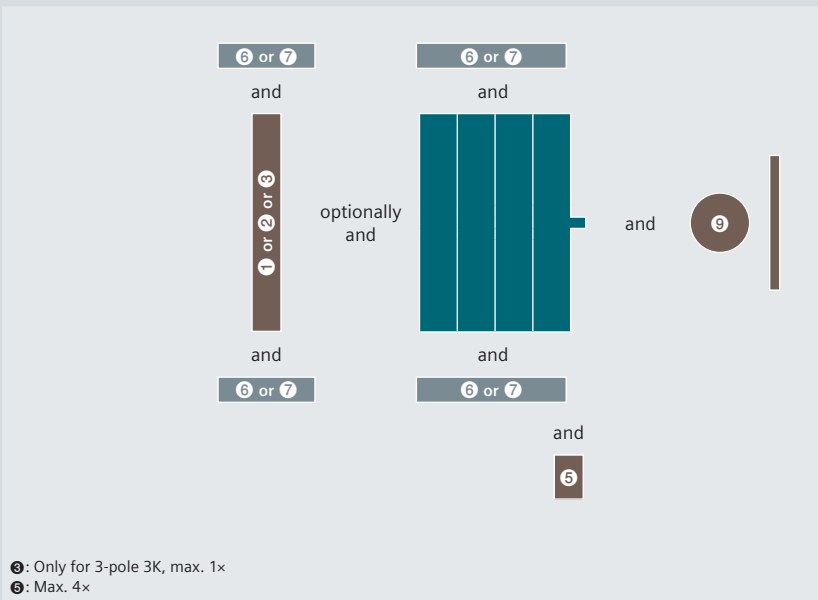
Lateral operating mechanism right, size 1, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- 4a Auxiliary switch module for auxiliary switches
- ⑤ Auxiliary switch
- ⑨ Door-coupling rotary operating mechanism
- ⑩ Lateral auxiliary switch module

Lateral operating mechanism right, sizes 2 to 5, 3/4-pole



Legend

- ① Neutral conductor terminal
- ② N/PE terminal
- ③ 4th contact element
- ⑤ Auxiliary switch
- ⑥ Phase barrier
- ⑦ Terminal cover
- ⑨ Door-coupling rotary operating mechanism

3KF switch disconnectors with fuses

3KF LV HRC switch disconnector

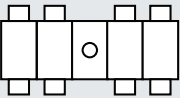
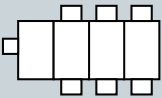
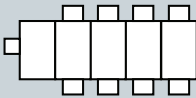
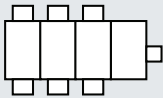
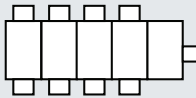


| | | Complete assemblies with direct operating mechanisms, front operating mechanisms Left | | Basic units without handle, front operating mechanisms Left | | Front operating mechanism Center |
|------------------------|-----------------------------|---|---------------|---|---------------|----------------------------------|
| Number of poles | | 3P | 4P | 3P | 4P | 3P |
| | | | | | | |
| Size | Uninterrupted current I_u | | | | | |
| Box terminals | | | | | | |
| 1 | 32 A | 3KF1303-2LB11 | 3KF1403-2LB11 | 3KF1303-0LB11 | 3KF1403-0LB11 | 3KF1303-0MB11 |
| | 63 A | 3KF1306-2LB11 | 3KF1406-2LB11 | 3KF1306-0LB11 | 3KF1406-0LB11 | 3KF1306-0MB11 |
| | 80 A | 3KF1308-2LB11 | 3KF1408-2LB11 | 3KF1308-0LB11 | 3KF1408-0LB11 | 3KF1308-0MB11 |
| Flat terminals at rear | | | | | | |
| 1 | 32 A | – | – | – | – | 3KF1303-0MR11 |
| | 63 A | – | – | – | – | 3KF1306-0MR11 |
| 2 | 125 A | – | – | – | – | 3KF2312-0MR11 |
| Flat terminals | | | | | | |
| 2 | 125 A | 3KF2312-2LF11 | 3KF2412-2LF11 | 3KF2312-0LF11 | 3KF2412-0LF11 | 3KF2312-0MF11 |
| | 160 A | 3KF2316-2LF11 | 3KF2416-2LF11 | 3KF2316-0LF11 | 3KF2416-0LF11 | 3KF2316-0MF11 |
| 3 | 250 A | 3KF3325-2LF11 | 3KF3425-2LF11 | 3KF3325-0LF11 | 3KF3425-0LF11 | 3KF3325-0MF11 |
| 4 | 400 A | 3KF4340-2LF11 | 3KF4440-2LF11 | 3KF4340-0LF11 | 3KF4440-0LF11 | 3KF4340-0MF11 |
| 5 | 630 A | 3KF5363-2LF11 | 3KF5463-2LF11 | 3KF5363-0LF11 | 3KF5463-0LF11 | 3KF5363-0MF11 |
| | 800 A | 3KF5380-2LF11 | 3KF5480-2LF11 | 3KF5380-0LF11 | 3KF5480-0LF11 | 3KF5380-0MF11 |

Note:

- NH00 and NH000: For 3KF sizes 1 and 2
- NH1 and NH0: For 3KF size 3
- NH2 and NH1: For 3KF size 4
- NH3 and NH2: For 3KF size 5
- For 3KF with lateral operating mechanism (left or right), only door-coupling rotary operating mechanisms without "Test" can be used.
- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose.



| | | Lateral operating mechanism Left | | Lateral operating mechanism Right | |
|--|---|---|---|---|--|
| 4P | 3P | 4P | 3P | 4P | |
|  |  |  |  |  | |
| 3KF1403-0MB11 | 3KF1303-4LB11 | 3KF1403-4LB11 | 3KF1303-4RB11 | 3KF1403-4RB11 | |
| 3KF1406-0MB11 | 3KF1306-4LB11 | 3KF1406-4LB11 | 3KF1306-4RB11 | 3KF1406-4RB11 | |
| 3KF1408-0MB11 | 3KF1308-4LB11 | 3KF1408-4LB11 | 3KF1308-4RB11 | 3KF1408-4RB11 | |
| - | - | - | - | - | |
| - | - | - | - | - | |
| - | - | - | - | - | |
| 3KF2412-0MF11 | 3KF2312-4LF11 | 3KF2412-4LF11 | 3KF2312-4RF11 | 3KF2412-4RF11 | |
| 3KF2416-0MF11 | 3KF2316-4LF11 | 3KF2416-4LF11 | 3KF2316-4RF11 | 3KF2416-4RF11 | |
| 3KF3425-0MF11 | 3KF3325-4LF11 | 3KF3425-4LF11 | 3KF3325-4RF11 | 3KF3425-4RF11 | |
| 3KF4440-0MF11 | 3KF4340-4LF11 | 3KF4440-4LF11 | 3KF4340-4RF11 | 3KF4440-4RF11 | |
| 3KF5463-0MF11 | 3KF5363-4LF11 | 3KF5463-4LF11 | 3KF5363-4RF11 | 3KF5463-4RF11 | |
| 3KF5480-0MF11 | 3KF5380-4LF11 | 3KF5480-4LF11 | 3KF5380-4RF11 | 3KF5480-4RF11 | |

3KF switch disconnectors with fuses

3KF SITOR switch disconnectors



Basic units without handle

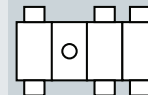
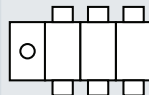
Front operating mechanism
Left

Front operating mechanism
Center

Number of poles

3P

3P



| Size | Uninterrupted current I_u | | |
|-----------------------|-----------------------------|---------------|---------------|
| Box terminals | | | |
| 1 | 32 A | 3KF1303-0LB51 | – |
| | 63 A | 3KF1306-0LB51 | – |
| | 80 A | 3KF1308-0LB51 | – |
| Flat terminals | | | |
| 2 | 125 A | – | 3KF2312-0MF51 |
| | 160 A | – | 3KF2316-0MF51 |
| 3 | 250 A | – | 3KF3325-0MF51 |
| 4 | 400 A | – | 3KF4340-0MF51 |
| 5 | 630 A | – | 3KF5363-0MF51 |
| | 800 A | – | 3KF5380-0MF51 |

Note:


- Use of standard LV HRC fuses gG, gL, aM in 3KF SITOR is possible without restriction


Accessories for 3KF LV HRC and 3KF SITOR switch disconnectors


Additional poles


Note:

- Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right. Accordingly, an auxiliary switch module must not be mounted between the basic unit and an additional pole on size 1.
- For installation, it is important to note that only a 3-pole 3KF switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).


| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|------------------------|--------------------|--------|--------|--------|--------|--------|
| 4th contact element (switching pole) for 3KF LV HRC | | | | | | | |
|  | Connection | Article No. | | | | | |
| | Box terminals | 3KF9105-2AA00 | ■ | | | | |
| | Flat terminals at rear | 3KF9105-1AA00 | ■ | | | | |
| | | 3KF9205-1AA00 | | ■ | | | |
| | Flat terminals | 3KF9205-0AA00 | | ■ | | | |
| | | 3KF9305-0AA00 | | | ■ | | |
| | | 3KF9405-0AA00 | | | | ■ | |
| | 3KF9505-0AA00 | | | | | ■ | |

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|-------------------|--------------------|--------|--------|--------|--------|--------|
| 4th contact element (switching pole) for 3KF SITOR | | | | | | | |
|  | Connection | Article No. | | | | | |
| | Box terminals | 3KF9105-2BA00 | ■ | | | | |
| | Flat terminals | 3KF9205-0BA00 | | ■ | | | |
| | | 3KF9305-0BA00 | | | ■ | | |
| | | 3KF9405-0BA00 | | | | ■ | |
| | | 3KF9505-0BA00 | | | | | ■ |

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|--|------------------------|--------------------|--------|--------|--------|--------|--------|
| Neutral conductor terminals with removable jumper, for 3KF LV HRC and 3KF SITOR | | | | | | | |
|  | Connection | Article No. | | | | | |
| | Box terminals | 3KF9106-2AA00 | ■ | | | | |
| | Flat terminals at rear | 3KF9106-1AA00 | ■ | | | | |
| | | 3KF9206-1AA00 | | ■ | | | |
| | Flat terminals | 3KF9206-0AA00 | | ■ | | | |
| | | 3KF9306-0AA00 | | | ■ | | |
| | | 3KF9406-0AA00 | | | | ■ | |
| | 3KF9506-0AA00 | | | | | ■ | |

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|------------------------|--------------------|--------|--------|--------|--------|--------|
| N/PE terminals with permanent jumper, for 3KF LV HRC and 3KF SITOR | | | | | | | |
|  | Connection | Article No. | | | | | |
| | Box terminals | 3KF9106-8AA00 | ■ | | | | |
| | Flat terminals at rear | 3KF9106-6AA00 | ■ | | | | |
| | | 3KF9206-6AA00 | | ■ | | | |
| | Flat terminals | 3KF9206-7AA00 | | ■ | | | |
| | | 3KF9306-7AA00 | | | ■ | | |
| | | 3KF9406-7AA00 | | | | ■ | |
| | 3KF9506-7AA00 | | | | | ■ | |

Operating mechanisms

| | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|-------------------------------------|--------------|--------|--------|--------|--------|--------|
| Direct operating mechanisms, for 3KF LV HRC | | | | | | | |
|  | Version | Color | | | | | |
| | Can be locked with up to 3 padlocks | Gray | ■ | | | | |
| | | | | ■ | | | |
| | | | | | ■ | | |
| | | | | | | ■ | |
| | | | | | | | ■ |
| | | Red/yellow | ■ | | | | |
| | | | | ■ | | | |
| | | | | | ■ | | |
| | | | | | | ■ | |
| | | | | | | | ■ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

3KF switch disconnectors with fuses

Accessories for 3KF LV HRC and 3KF SITOR switch disconnectors

Operating mechanisms

Size 1 Size 2 Size 3 Size 4 Size 5

Door-coupling rotary operating mechanisms, for 3KF LV HRC and 3KF SITOR



- Scope of supply:
 - Handle with masking plate
 - Coupling driver with tolerance compensation
 - Shaft 300 mm
- Can be locked with up to 3 padlocks

| Labeling | Color | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|-------------------|------------|---------------|--------|--------|--------|--------|--------|
| Labeling Test-O-I | Gray | 8UD1171-2AF21 | ■ | | | | |
| | | 8UD1141-2AF21 | | ■ | | | |
| | | 8UD1141-3AF21 | | | ■ | | |
| | | 8UD1151-3AF21 | | | | ■ | |
| | | 8UD1161-4AF21 | | | | | ■ |
| | Red/yellow | 8UD1171-2AF25 | ■ | | | | |
| | | 8UD1141-2AF25 | | ■ | | | |
| | | 8UD1141-3AF25 | | | ■ | | |
| | | 8UD1151-3AF25 | | | | ■ | |
| | | 8UD1161-4AF25 | | | | | ■ |






Handles, for 3KF LV HRC and 3KF SITOR

- With masking plate
- Can be locked with up to 3 padlocks





| Labeling | Lighting | Color | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | | | |
|---------------|---------------|---------------|---------------|---------|--------|---------------|--------|--------|---|--|--|
| O-I | Without | Gray | 8UD1771-2AD01 | ■ | | | | | | | |
| | | | 8UD1841-2AD01 | | ■ | ■ | | | | | |
| | | | 8UD1851-3AD01 | | | | ■ | | | | |
| | | Red/yellow | 8UD1861-4AD01 | | | | | | ■ | | |
| | | | 8UD1771-2AD05 | ■ | | | | | | | |
| | | | 8UD1841-2AD05 | | ■ | ■ | | | | | |
| | | | 8UD1851-3AD05 | | | | ■ | | | | |
| | | | 8UD1861-4AD05 | | | | | | ■ | | |
| | | | 8UD1771-2CD01 | ■ | | | | | | | |
| | With | Gray | 8UD1841-2CD01 | | ■ | ■ | | | | | |
| | | | 8UD1851-3CD01 | | | | ■ | | | | |
| | | | 8UD1861-4CD01 | | | | | ■ | | | |
| | | Red/yellow | 8UD1771-2CD05 | ■ | | | | | | | |
| | | | 8UD1841-2CD05 | | ■ | ■ | | | | | |
| | | | 8UD1851-3CD05 | | | | ■ | | | | |
| | | | 8UD1861-4CD05 | | | | | | ■ | | |
| | | | Test-O-I | Without | Gray | 8UD1771-2AF01 | ■ | | | | |
| | | | | | | 8UD1841-2AF01 | | ■ | ■ | | |
| 8UD1851-3AF01 | | | | | | | ■ | | | | |
| Red/yellow | 8UD1861-4AF01 | | | | | | | | ■ | | |
| | 8UD1771-2AF05 | ■ | | | | | | | | | |
| | 8UD1841-2AF05 | | | | ■ | ■ | | | | | |
| | 8UD1851-3AF05 | | | | | | ■ | | | | |
| | 8UD1861-4AF05 | | | | | | | | ■ | | |
| | 8UD1771-2CF01 | ■ | | | | | | | | | |
| With | Gray | 8UD1841-2CF01 | | ■ | ■ | | | | | | |
| | | 8UD1851-3CF01 | | | | ■ | | | | | |
| | | 8UD1861-4CF01 | | | | | ■ | | | | |
| | Red/yellow | 8UD1771-2CF05 | ■ | | | | | | | | |
| | | 8UD1841-2CF05 | | ■ | ■ | | | | | | |
| | | 8UD1851-3CF05 | | | | ■ | | | | | |
| | | 8UD1861-4CF05 | | | | | | ■ | | | |

Operating mechanisms

| | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|---|--------------------|--------|--------|--------|--------|
| Extension shaft, for 3KF LV HRC and 3KF SITOR | | | | | | |
|  | <ul style="list-style-type: none"> A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2 | | | | | |
| Length | Article No. | | | | | |
| 300 mm | 8UC6032 | ■ | ■ | | | |
| | 8UC6033 | | | ■ | ■ | |
| | 8UC6034 | | | | | ■ |
| 600 mm | 8UC6082 | ■ | ■ | | | |
| | 8UC6083 | | | ■ | ■ | |
| | 8UC6084 | | | | | ■ |
| Shaft jack for 8UD1 handle, for 3KF LV HRC and 3KF SITOR | | | | | | |
|  | Version | Article No. | | | | |
| | For shaft 600 mm | 8UD1900-0FA00 | ■ | ■ | | |
| Coupling drivers, for 3KF LV HRC and 3KF SITOR | | | | | | |
|  | Version | Article No. | | | | |
| | With tolerance compensation | 8UD1900-2GA00 | ■ | | | |
| | | 8UD1900-6GA00 | | ■ | | |
| | | 8UD1900-3GA00 | | | ■ | |
| | | 8UD1900-4GA00 | | | | ■ |
|  | Without tolerance compensation | 8UD1900-2HA00 | ■ | | | |
| | | 8UD1900-6HA00 | | ■ | | |
| | | 8UD1900-3HA00 | | | ■ | |
| | | 8UD1900-4HA00 | | | | ■ |
| Shaft couplings, for 3KF LV HRC and 3KF SITOR | | | | | | |
|  | Shaft size | Article No. | | | | |
| | 8 × 8 mm | 8UC6022 | ■ | ■ | ■ | |
| | 10 × 10 mm | 8UC6023 | | | | ■ |
| | 12 × 12 mm | 8UC6024 | | | | ■ |

Other accessories and spare parts

| | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|---|--------------------|--------|--------|--------|--------|
| Auxiliary switch modules, for 3KF LV HRC and 3KF SITOR | | | | | | |
|  | <ul style="list-style-type: none"> Auxiliary switch modules are supplied without auxiliary switches The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with the rear terminal The 3KD9103-6 and 3KD9103-7 auxiliary switch modules and those with a leading NO contact can only be used with 3KF if they have the operating mechanism on the front or on the left | | | | | |
| | Variant | Article No. | | | | |
| | Standard version | 3KD9103-5 | ■ | ■ | | |
| | With test function | 3KD9103-6 | ■ | ■ | | |
| | With leading NO contact and test function | 3KD9103-7 | ■ | ■ | | |
| Mounting brackets for auxiliary switch modules, for 3KF size 1 with rear terminals | | | | | | |
|  | <ul style="list-style-type: none"> For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal | | | | | |
| | Article No. | | | | | |
| | 3KF9112-0AB00 | ■ | | | | |

3KF switch disconnectors with fuses

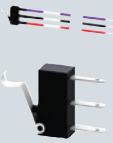
Accessories for 3KF LV HRC and 3KF SITOR switch disconnectors

Other accessories and spare parts

Size 1 Size 2 Size 3 Size 4 Size 5

Auxiliary switches, for 3KF LV HRC and 3KF SITOR

- Auxiliary switches for sizes 2 to 5 have screw terminals and are mounted on the operating mechanism module of the 3KF. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.
- All auxiliary switches for sizes 2 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see Operating Instructions).



| Variant | Contacts | Contact surface | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---------------------------|-------------|------------------------|--------------------|--------|--------|--------|--------|--------|
| With connecting cables | 1 CO | Standard | 3KD9103-1 | ■ | | | | |
| | | Solid-state compatible | 3KD9103-3 | ■ | | | | |
| Without connecting cables | 1 CO | Standard | 3KD9103-2 | ■ | | | | |
| | | Solid-state compatible | 3KD9103-4 | ■ | | | | |
| | 1 NO | Standard | 3SU1400-1AA10-1BA0 | | ■ | ■ | ■ | ■ |
| | | Gold-plated | 3SU1400-1AA10-1LA0 | | ■ | ■ | ■ | ■ |
| 1 NC | Standard | 3SU1400-1AA10-1CA0 | | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3SU1400-1AA10-1MA0 | | ■ | ■ | ■ | ■ | |
| 1 NO + 1 NC | Standard | 3SU1400-1AA10-1FA0 | | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3SU1400-1AA10-1QA0 | | ■ | ■ | ■ | ■ | |
| 2 NO | Standard | 3SU1400-1AA10-1DA0 | | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3SU1400-1AA10-1NA0 | | ■ | ■ | ■ | ■ | |
| 2 NC | Standard | 3SU1400-1AA10-1EA0 | | ■ | ■ | ■ | ■ | |
| | Gold-plated | 3SU1400-1AA10-1PA0 | | ■ | ■ | ■ | ■ | |

Electronic fuse monitoring, for 3KF LV HRC and 3KF SITOR



| Version | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|-------------------------------------|---------------|--------|--------|--------|--------|--------|
| For remote display of tripped fuses | 3KF9010-1AA00 | ■ | ■ | ■ | ■ | ■ |

Phase barriers, for 3KF LV HRC and 3KF SITOR




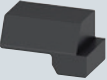

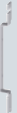




| Version | Scope of supply | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|--------------------|-----------------|-------------|--------|--------|--------|--------|--------|
| For 3-pole devices | 6 units | 3KD9308-6 | | ■ | | | |
| | | 3KD9408-6 | | | ■ | ■ | |
| | | 3KD9508-6 | | | | | ■ |
| For 4-pole devices | 8 units | 3KD9308-8 | | ■ | | | |
| | | 3KD9408-8 | | | ■ | ■ | |
| | | 3KD9508-8 | | | | | ■ |

Terminal covers, for 3KF LV HRC



| Version | Scope of supply | Variant | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|--------------------|-----------------|-----------------|-------------|--------|--------|--------|--------|--------|
| For 3-pole devices | 6 units | Standard length | 3KD9304-6 | | ■ | | | |
| | | | 3KF9304-6 | | | ■ | | |
| | | | 3KD9404-6 | | | | ■ | |
| | | Short version | 3KD9504-6 | | | | | ■ |
| | | | 3KD9304-7 | | ■ | | | |
| | | | 3KF9304-7 | | | ■ | | |
| For 4-pole devices | 8 units | Standard length | 3KD9404-7 | | | | ■ | |
| | | | 3KD9304-8 | | ■ | | | |
| | | | 3KF9304-8 | | | ■ | | |
| | | Short version | 3KD9404-8 | | | | ■ | |
| | | | 3KD9504-8 | | | | | ■ |
| | | | 3KD9304-5 | | ■ | | | |
| | | | 3KF9304-5 | | | ■ | | |
| | | | 3KD9404-5 | | | | ■ | |

Other accessories and spare parts

| | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|---|--|------------------------|--------------------|--------|--------|--------|--------|--------|
| Spare part for terminal covers, for 3KF LV HRC | | | | | | | | |
|  | Scope of supply | Variant | Article No. | | | | | |
| | 1 unit | Standard length | 3KD9504-1 | | | | | ■ |
| | | Short version | 3KD9304-1 | | ■ | | | |
| | | | 3KF9304-1 | | | ■ | | |
| | | | 3KD9404-1 | | | | ■ | |
| Blocking pin test function, for 3KF LV HRC and 3KF SITOR | | | | | | | | |
|  | <ul style="list-style-type: none"> Enables permanent deactivation of the test function for auxiliary switches It is installed in the operating mechanism module of the 3KF switch disconnector | | | | | | | |
| | Scope of supply | Article No. | | | | | | |
| | 10 units | 3KF9112-1AA00 | | ■ | | | | |
| | | 3KF9412-1AA00 | | | ■ | | ■ | |
| | | 3KF9512-1AA00 | | | | | | ■ |
| Mounting brackets, for 3KF LV HRC | | | | | | | | |
|  | <ul style="list-style-type: none"> The 3KF9112-0AB00 mounting bracket is needed if an auxiliary switch module is mounted on a 3KF1 with rear terminals | | | | | | | |
| | Connection | Article No. | | | | | | |
| | Box terminals, flat terminals | 3KF9112-0AA00 | | ■ | | | | |
| | | 3KF9212-0AA00 | | | ■ | | | |
| | | 3KF9212-0AB00 | | ■ | ■ | | | |
| Mounting brackets, for 3KF SITOR | | | | | | | | |
|  | Connection | Article No. | | | | | | |
| | Box terminals, flat terminals | 3KF9112-0AA10 | | ■ | | | | |
| | | 3KF9212-0AA10 | | | ■ | | | |
| Mounting brackets, for 3KF LV HRC and 3KF SITOR | | | | | | | | |
|  | Connection | Article No. | | | | | | |
| | Flat terminals | 3KF9412-0AA00 | | | | ■ | ■ | |
| | | 3KF9512-0AA00 | | | | | | ■ |
| Phase barriers, for 3KF LV HRC and 3KF SITOR | | | | | | | | |
|  | Version | Scope of supply | Article No. | | | | | |
| | For mounting on standard mounting rail | 5 units | 3KF9112-0BA00 | ■ | | | | |
| Fuse covers, for 3KF LV HRC | | | | | | | | |
|  | Connection | Article No. | | | | | | |
| | Box terminals, flat terminals | 3KF9112-0CA00 | | ■ | | | | |
| | | 3KF9212-0CA00 | | | ■ | | | |
| | | 3KF9312-0CA00 | | | | ■ | | |
| | | 3KF9412-0CA00 | | | | | ■ | |
| | | 3KF9512-0CA00 | | | | | | ■ |
| | | 3KF9212-0CB00 | | | ■ | | | |
| | | | | NH000 | NH00 | NH1 | NH2 | NH3 |
| LV HRC isolating blades, for 3KF LV HRC and 3KF SITOR | | | | | | | | |
|  | Version | Article No. | | | | | | |
| | With insulated grip lugs | 3NG1002 | | ■ | ■ | | | |
| | | 3NG1202 | | | | ■ | | |
| | | 3NG1302 | | | | | ■ | |
| | | 3NG1402 | | | | | | ■ |

3NJ62 switch disconnectors with fuses

System overview

Fuse links



For LV HRC fuses



For BS fuses

Accessories

Connection terminals
and covers

Auxiliary switches



Current transformers



Ammeters



Guide rails

8

Note:

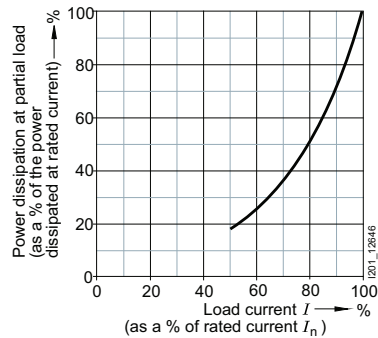
You will find a detailed range of accessories with the basic units.

General information



Suitable fuses

You will find further information under:
sie.ag/2UlrAvy



The 3NJ62 switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the switch disconnector with fuses is not exceeded.

For use of Siemens semiconductor fuses (SITOR), ready-made derating tables are available in the linked document.

3NJ62 switch disconnectors with fuses

Configuration

For a complete and valid configuration of your switch disconnectors with fuses, please use our online configurator at www.siemens.com/lowvoltage/3nj62-configurator

| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|----------------------------|---------------------------------|-------------------------------|---|---|---|----|----|----|----|----|----|----|--|
| | | 3NJ62 | | - | A | | 0 | | | | | | |
| Size and type of fuse | LV HRC fuse | 00 160 A | 0 | | | | | | | | | | |
| | | 1 250 A | 1 | | | | | | | | | | |
| | | 2 400 A | 2 | | | | | | | | | | |
| | BS 88 fuse | 3 630 A | 3 | | | | | | | | | | |
| | | A3 63 A | 4 | | | | | | | | | | |
| | | A3 100 A | 5 | | | | | | | | | | |
| | | 00T 160 A | 6 | | | | | | | | | | |
| | | B2 250 A | 7 | | | | | | | | | | |
| | | B4 400 A | 8 | | | | | | | | | | |
| 3T 630 A | 9 | | | | | | | | | | | | |
| Number of poles | 2-pole | | 2 | | | | | | | | | | |
| | 3-pole | | 3 | | | | | | | | | | |
| | 4-pole | | 4 | | | | | | | | | | |
| Breaking capacity | Standard breaking capacity S | Manually operated | | 1 | | | | | | | | | |
| | | Motorized operating mechanism | | 2 | | | | | | | | | |
| | High breaking capacity H | Manually operated | | 3 | | | | | | | | | |
| | | Motorized operating mechanism | | 4 | | | | | | | | | |
| Electronic fuse monitoring | Without | | | | | A | | | | | | | |
| | AC version | EFM10 | | | | B | | | | | | | |
| | AC version with line monitoring | EFM20 | | | | C | | | | | | | |
| | DC version | EFM25 | | | | E | | | | | | | |
| Auxiliary switches | Without | | | | | | 0 | | | | | | |
| | 1 NC | | | | | | 1 | | | | | | |
| | 1 NO | | | | | | 2 | | | | | | |
| | 1 NO + 1 NC | | | | | | 3 | | | | | | |

| | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
|---|---|-------------------------------|---|---|---|----|----|----|----|----|----|----|---|
| 3NJ62 | | | | - | | | | | | | | | |
| Type of ammeter | Without | | | | | | | | | | 0 | | |
| | Moving iron | | | | | | | | | | 1 | | |
| | Bi-metal | | | | | | | | | | 2 | | |
| Wiring version of the current transformer | Without | | | | | | | | | | A | | |
| | 1 current transformer to multi-function plug | | | | | | | | | | B | | |
| | 3 current transformers to multi-function plug | | | | | | | | | | C | | |
| | 1 current transformer to 1 ammeter | | | | | | | | | | D | | |
| | 1 current transformer to 1 ammeter and multi-function plug | | | | | | | | | | E | | |
| | 3 current transformers to 1 ammeter and multi-function plug | | | | | | | | | | F | | |
| Current transformer primary current | Without | | | | | | | | | | | A | |
| | 50 A | | | | | | | | | | | B | |
| | 100 A | | | | | | | | | | | D | |
| | 150 A | | | | | | | | | | | E | |
| | 200 A | | | | | | | | | | | F | |
| | 250 A | | | | | | | | | | | G | |
| | 300 A | | | | | | | | | | | H | |
| | 400 A | | | | | | | | | | | J | |
| | 500 A | | | | | | | | | | | K | |
| | 600 A | | | | | | | | | | | L | |
| Current transformer secondary current | Without | Without accuracy class | | | | | | | | | | | 0 |
| | 1 A | Accuracy class 1 | | | | | | | | | | | 1 |
| | 1 A | Accuracy class 0.5 | | | | | | | | | | | 2 |
| | 1 A | Accuracy class 0.5 calibrated | | | | | | | | | | | 3 |
| | 5 A | Accuracy class 1 | | | | | | | | | | | 4 |
| | 5 A | Accuracy class 0.5 | | | | | | | | | | | 5 |
| | 5 A | Accuracy class 0.5 calibrated | | | | | | | | | | | 6 |

3NJ62 switch disconnectors with fuses

Accessories

Terminals



| Variant | Article No. |
|----------------------|---------------|
| For 2/3-pole devices | 3NJ6923-1BA00 |
| | 3NJ6933-1BA00 |
| | 3NJ6943-1CA00 |
| For 4-pole devices | 3NJ6924-1BA00 |
| | 3NJ6934-1BA00 |
| | 3NJ6944-1CA00 |

Terminal covers



| Variant | Version | Article No. |
|----------------------|-------------------------------|---------------|
| For 2/3-pole devices | – | 3NJ6923-1DA00 |
| | | 3NJ6933-1DA01 |
| | | 3NJ6943-1DA00 |
| | As an internal terminal cover | 3NJ6933-1DB00 |
| For 4-pole devices | | 3NJ6904-1DA00 |

Contact extensions



| Number of poles | Version | Article No. |
|-----------------|--------------------------------------|---------------|
| 3-pole | – | 3NJ6923-1EB00 |
| | | 3NJ6933-1EB00 |
| | | 3NJ6943-1EB00 |
| 4-pole | With line monitoring for AC networks | 3NJ6924-1EB00 |
| | | 3NJ6934-1EB00 |
| | | 3NJ6944-1EB00 |

Electronic fuse monitoring and line monitoring devices



| Variant | Version | Article No. |
|---------|--------------------------------------|---------------|
| EFM 10 | – | 3NJ6920-3FB00 |
| | | 3NJ6930-3FB00 |
| | | 3NJ6940-3FB00 |
| EFM 20 | With line monitoring for AC networks | 3NJ6920-3FC00 |
| | | 3NJ6930-3FC00 |
| | | 3NJ6940-3FC00 |
| EFM 25 | – | 3NJ6920-3FE00 |
| | | 3NJ6930-3FE00 |
| | | 3NJ6940-3FE00 |

Auxiliary switches



| Contacts | Version | Article No. |
|---------------------|---------------|---------------|
| 1 NO contact (1 NO) | With cover | 3NJ6920-2BB00 |
| | | 3NJ6930-2BB00 |
| | | 3NJ6940-2BB00 |
| | Without cover | 3NJ6900-2BC00 |
| 1 NC contact (1 NC) | With cover | 3NJ6920-2CB00 |
| | | 3NJ6930-2CB00 |
| | | 3NJ6940-2CB00 |
| | Without cover | 3NJ6900-2CC00 |

| NH00 | NH1 | NH2 | NH3 | BS A3 | BS 00T | BS B2 | BS B4 | BS 3T |
|------|-----|-----|-----|-------|--------|-------|-------|-------|
| ■ | | | | ■ | ■ | | | |
| | ■ | | | | | ■ | | |
| | | ■ | ■ | | | | ■ | ■ |
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| | | ■ | ■ | | | | ■ | ■ |

3NJ62 switch disconnectors with fuses

Accessories

Current transformers for main devices and contact extensions



| Rated current I_e | Class | Apparent power consumption | Feed-through opening diameter | Article No. |
|---------------------|----------------|----------------------------|-------------------------------|---------------|
| 50 A/1 A | 1 | 1 VA | Ø 21 mm | 3NJ6920-3BB11 |
| 50 A/5 A | 1 | 1 VA | Ø 21 mm | 3NJ6920-3BB21 |
| 100 A/1 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6920-3BD11 |
| | 0.5 | 1.5 VA | Ø 21 mm | 3NJ6920-3BD12 |
| | 0.5 calibrated | 1.5 VA | Ø 14 mm | 3NJ6920-3BD13 |
| 100 A/5 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6920-3BD21 |
| | 0.5 | 1.5 VA | Ø 21 mm | 3NJ6920-3BD22 |
| | 0.5 calibrated | 1.5 VA | Ø 14 mm | 3NJ6920-3BD23 |
| 150 A/1 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6920-3BE11 |
| | 0.5 | 1.5 VA | Ø 21 mm | 3NJ6920-3BE12 |
| | 0.5 calibrated | 1.5 VA | Ø 14 mm | 3NJ6920-3BE13 |
| 150 A/5 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6920-3BE21 |
| | 0.5 | 1.5 VA | Ø 21 mm | 3NJ6920-3BE22 |
| | 0.5 calibrated | 1.5 VA | Ø 14 mm | 3NJ6920-3BE23 |
| 200 A/1 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6930-3BF11 |
| | 0.5 | 5 VA | Ø 21 mm | 3NJ6930-3BF12 |
| 200 A/5 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6930-3BF21 |
| | 0.5 | 5 VA | Ø 21 mm | 3NJ6930-3BF22 |
| 250 A/1 A | 1 | 5 VA | Ø 21 mm | 3NJ6930-3BG11 |
| | 0.5 | 5 VA | Ø 21 mm | 3NJ6930-3BG12 |
| 250 A/5 A | 1 | 2.5 VA | Ø 21 mm | 3NJ6930-3BG21 |
| | 0.5 | 2.5 VA | Ø 21 mm | 3NJ6930-3BG22 |
| 300 A/1 A | 1 | 5 VA | – | 3NJ6940-3BH11 |
| | 0.5 | 5 VA | – | 3NJ6940-3BH12 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BH13 |
| 300 A/5 A | 1 | 5 VA | – | 3NJ6940-3BH21 |
| | 0.5 | 5 VA | – | 3NJ6940-3BH22 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BH23 |
| 400 A/1 A | 1 | 5 VA | – | 3NJ6940-3BJ11 |
| | 0.5 | 5 VA | – | 3NJ6940-3BJ12 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BJ13 |
| 400 A/5 A | 1 | 5 VA | – | 3NJ6940-3BJ21 |
| | 0.5 | 5 VA | – | 3NJ6940-3BJ22 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BJ23 |
| 500 A/1 A | 1 | 5 VA | – | 3NJ6940-3BK11 |
| | 0.5 | 5 VA | – | 3NJ6940-3BK12 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BK13 |
| 500 A/5 A | 1 | 5 VA | – | 3NJ6940-3BK21 |
| | 0.5 | 5 VA | – | 3NJ6940-3BK22 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BK23 |
| 600 A/1 A | 1 | 5 VA | – | 3NJ6940-3BL11 |
| | 0.5 | 5 VA | – | 3NJ6940-3BL12 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BL13 |
| 600 A/5 A | 1 | 5 VA | – | 3NJ6940-3BL21 |
| | 0.5 | 5 VA | – | 3NJ6940-3BL22 |
| | 0.5 calibrated | 5 VA | – | 3NJ6940-3BL23 |

3NJ62 switch disconnectors with fuses

Accessories

Current transformer busbars



| Variant | Version | Article No. |
|---|----------------------------|---------------|
| For current transformers with feed-through opening diameter 21 mm | For 1 current transformer | 3NJ6920-3DB00 |
| | | 3NJ6930-3DB00 |
| | For 3 current transformers | 3NJ6920-3DC00 |
| | | 3NJ6930-3DC00 |
| For current transformers with feed-through opening diameter 14 mm | For 1 current transformer | 3NJ6920-3DD00 |
| | | 3NJ6930-3DD00 |
| | For 3 current transformers | 3NJ6920-3DE00 |
| | For 4 current transformers | 3NJ6920-3DF00 |
| | | 3NJ6920-3DG00 |

Holders



| Version | Article No. |
|--------------|---------------|
| For ammeters | 3NJ6900-4GA00 |

Ammeters



| Variant | Version | Rated current I_e | Article No. |
|-----------------------------------|--|---------------------|---------------|
| Moving-iron measuring instruments | For measurements on transformer x/1 A with double overload | 50 A/1 A | 3NJ6900-4HB11 |
| | | 100 A/1 A | 3NJ6900-4HD11 |
| | | 150 A/1 A | 3NJ6900-4HE11 |
| | | 200 A/1 A | 3NJ6900-4HF11 |
| | | 250 A/1 A | 3NJ6900-4HG11 |
| | | 300 A/1 A | 3NJ6900-4HH11 |
| | | 400 A/1 A | 3NJ6900-4HJ11 |
| | For measurements on transformer x/5 A with double overload | 500 A/1 A | 3NJ6900-4HK11 |
| | | 600 A/1 A | 3NJ6900-4HL11 |
| | | 50 A/5 A | 3NJ6900-4HB21 |
| | | 100 A/5 A | 3NJ6900-4HD21 |
| | | 150 A/5 A | 3NJ6900-4HE21 |
| | | 200 A/5 A | 3NJ6900-4HF21 |
| | | 250 A/5 A | 3NJ6900-4HG21 |



| | | | |
|--------------------------------|---|-----------|---------------|
| Bi-metal measuring instruments | For measurements on transformer x/1 A with 1.2-times overload | 50 A/1 A | 3NJ6900-4HB12 |
| | | 100 A/1 A | 3NJ6900-4HD12 |
| | | 150 A/1 A | 3NJ6900-4HE12 |
| | | 200 A/1 A | 3NJ6900-4HF12 |
| | | 250 A/1 A | 3NJ6900-4HG12 |
| | | 300 A/1 A | 3NJ6900-4HH12 |
| | | 400 A/1 A | 3NJ6900-4HJ12 |
| | For measurements on transformer x/5 A with 1.2-times overload | 500 A/1 A | 3NJ6900-4HK12 |
| | | 600 A/1 A | 3NJ6900-4HL12 |
| | | 50 A/5 A | 3NJ6900-4HB22 |
| | | 100 A/5 A | 3NJ6900-4HD22 |
| | | 150 A/5 A | 3NJ6900-4HE22 |
| | | 200 A/5 A | 3NJ6900-4HF22 |
| | | 250 A/5 A | 3NJ6900-4HG22 |

| NH00 | NH1 | NH2 | NH3 | BS A3 | BS 00T | BS B2 | BS B4 | BS 3T |
|------|-----|-----|-----|-------|--------|-------|-------|-------|
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3NJ62 switch disconnectors with fuses

Accessories

Multi-function plugs



| Version | Dimensions | Article No. |
|-----------------------|--|---------------|
| With fixing screws | 6 × 2.5 mm ² | 3NJ6920-3EB01 |
| | 8 × 2.5 mm ² | 3NJ6920-3ED01 |
| | | 3NJ6940-3EC00 |
| Without fixing screws | 8 × 2.5 mm ² | 3NJ6940-3ED00 |
| | 10 × 1.5 mm ² and 8 × 2.5 mm ² | 3NJ6920-3EE01 |
| | 12 × 1.5 mm ² and 8 × 2.5 mm ² | 3NJ6940-3EF00 |

Front panels



| Purpose | Version | Article No. |
|---|------------------|---------------|
| 3NJ6203-1AA... and 3NJ6203-3AA... with/without EFM | With LV HRC fuse | 3NJ6923-4BB00 |
| | With BS 88 fuse | 3NJ6923-4BC00 |
| 3NJ6213-1AA... and 3NJ6213-3AA... with/without EFM | With LV HRC fuse | 3NJ6933-4BB00 |
| | With BS 88 fuse | 3NJ6933-4BC00 |
| 3NJ6223-1AA... and 3NJ6223-3AA... with/without EFM | With LV HRC fuse | 3NJ6943-4BB00 |
| | With BS 88 fuse | 3NJ6943-4BC00 |
| 3NJ6233-1AA... and 3NJ6233-3AA... with/without EFM | With LV HRC fuse | 3NJ6953-4BB00 |
| | With BS 88 fuse | 3NJ6953-4BC00 |

Busbar covers



| Article No. |
|---------------|
| 3NJ6916-4EA00 |

Blanking covers



| Article No. |
|---------------|
| 3NJ6900-4CB00 |

Connection modules



| Article No. |
|---------------|
| 3NJ6915-3BA00 |

Guide rails



| Overall depth | Article No. |
|---------------|---------------|
| 200 mm | 3NJ6900-4FB00 |
| 400 mm | 3NJ6900-4FC00 |

LV HRC fuse puller tongs

| Version | Article No. |
|-------------------|-------------|
| For NH00 | XPT:8PT9624 |
| For NH1, NH2, NH3 | XPT:8PT9625 |

Locking devices for padlocks



| Article No. |
|-------------|
| 3NJ6900-4LL |

| | NH00 | NH1 | NH2 | NH3 | BS A3 | BS 00T | BS B2 | BS B4 | BS 3T |
|--|------|-----|-----|-----|-------|--------|-------|-------|-------|
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5SG switch disconnectors with fuses

System overview

MINIZED switch disconnectors with fuses



1P



3P

NEOZED SR60 bus-mounting switch disconnectors



3P



3P, with terminals

Accessories



Auxiliary switches



Lateral modules



Reducers

Note:

You will find a detailed range of accessories with the basic units.



| | | Number of poles | | | | | |
|---|---------------------|--------------------------|------------------------|------------------------|--------------------------|--------------------------|------------------------|
| | | 1P | 1P+N | 2P | 3P | 3P+N | |
| | | | | | | | |
| Size of fuse | Rated current I_n | Mounting width 1.5 MW | Mounting width 3 MW | Mounting width 3 MW | Mounting width 1.5 MW | Mounting width 4.5 MW | Mounting width 6 MW |
| MINIZED switch disconnectors with fuses^{1) 3)} | | | | | | | |
| D02 | 63 A | 5SG7113 | 5SG7153 | 5SG7123 | – | 5SG7133 | 5SG7163 |
| MINIZED switch disconnectors with fuses – version for Austria only^{2) 3)} | | | | | | | |
| D02 | 25 A | – | – | – | – | 5SG7133-8BA25 | – |
| | 35 A | – | – | – | – | 5SG7133-8BA35 | – |
| | 50 A | – | – | – | – | 5SG7133-8BA50 | – |
| NEOZED SR60 bus-mounting switch disconnectors | | | | | | | |
| D02 | 63 A | – | – | – | 5SG7230 ⁴⁾ | – | – |
| NEOZED SR60 bus-mounting switch disconnectors, without LED signal detector | | | | | | | |
| D02 | 63 A | – | – | – | 5SG7234-1 ⁴⁾ | – | – |
| NEOZED SR60 bus-mounting switch disconnectors, with LED signal detector | | | | | | | |
| D02 | 63 A | – | – | – | 5SG7234-2 ⁵⁾ | – | – |

¹⁾ Using draw-out technology with touch protection according to BGV A3, adapter sleeves not included in the scope of delivery

²⁾ With permanently fitted adapter sleeves, incl. fuse link

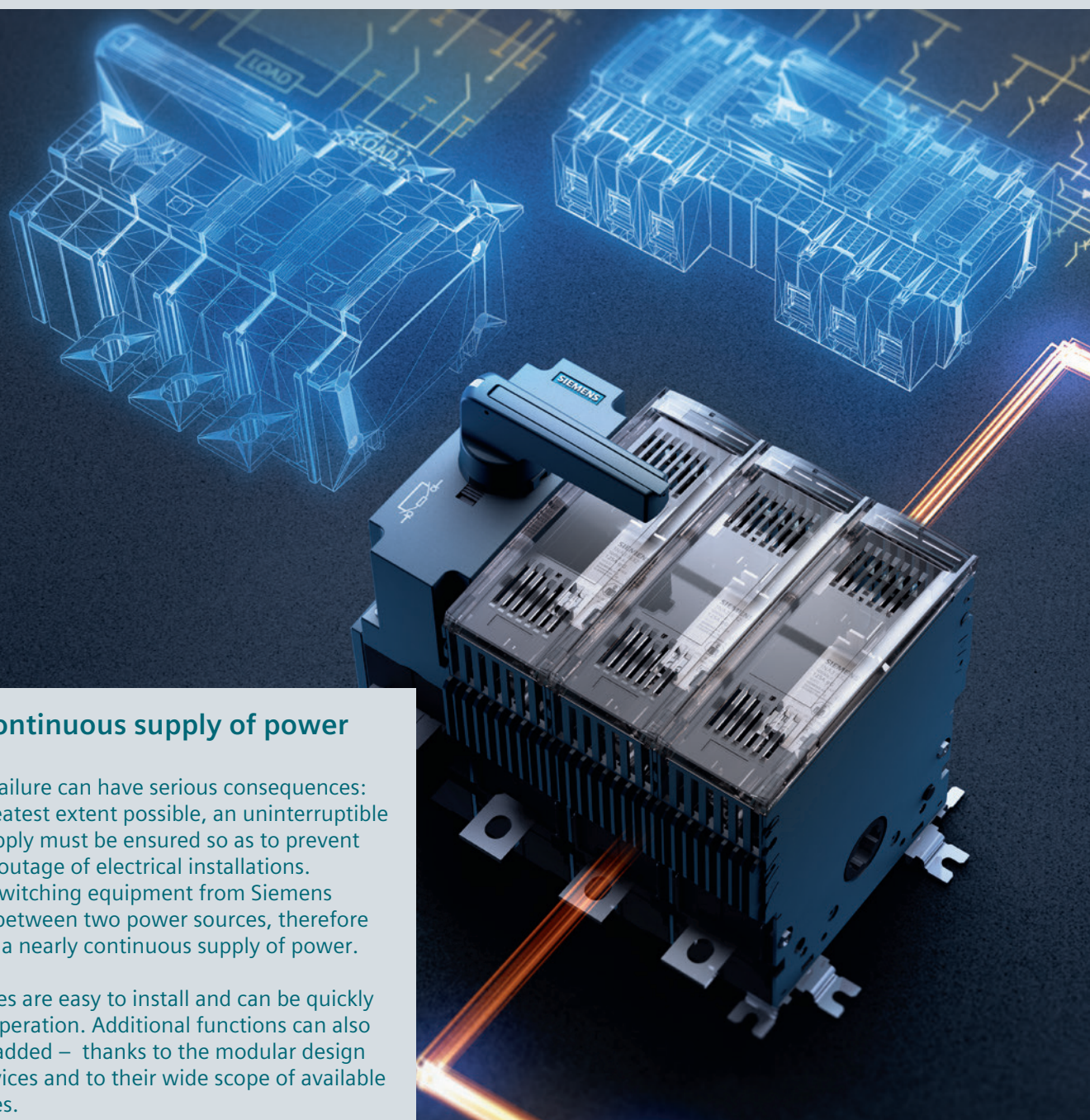
³⁾ Do not use fuse links with nickel-plated contact caps

⁴⁾ In the case of permanent load over 35 A, we recommend the use of 5SH5526 lateral modules. Please observe EN 60439-1, Table 1

⁵⁾ In the case of permanent load over 35 A, we recommend the use of 5SH5533 lateral modules. Please observe EN 60439-1, Table 1

Accessories

| Auxiliary switches | | | | | |
|------------------------|---|------------------|----------------|-------------|-------------|
| | Version | Variant | Mounting width | Contacts | Article No. |
| | For MINIZED D02 switch disconnectors | Standard | 0.5 MW | 1 NO + 1 NC | 5ST3010 |
| | | | | 2 NO | 5ST3011 |
| | | | | 2 NC | 5ST3012 |
| | | With test button | 0.5 MW | 1 NO + 1 NC | 5ST3010-2 |
| | | | | 2 NO | 5ST3011-2 |
| | | | | 2 NC | 5ST3012-2 |
| | For NEOZED SR60 bus-mounting switch disconnectors | Standard | 0.5 MW | 1 CO | 5SH5525 |
| Lateral modules | | | | | |
| | Version | Variant | Mounting width | Article No. | |
| | For NEOZED SR60 bus-mounting switch disconnectors | 5SG7230 | 0.5 MW | 5SH5526 | |
| | | 5SG7234-1 and -2 | 0.5 MW | 5SH5533 | |
| Reducers | | | | | |
| | Version | | | | Article No. |
| | For D01 fuse links | | | | 5SH5527 |



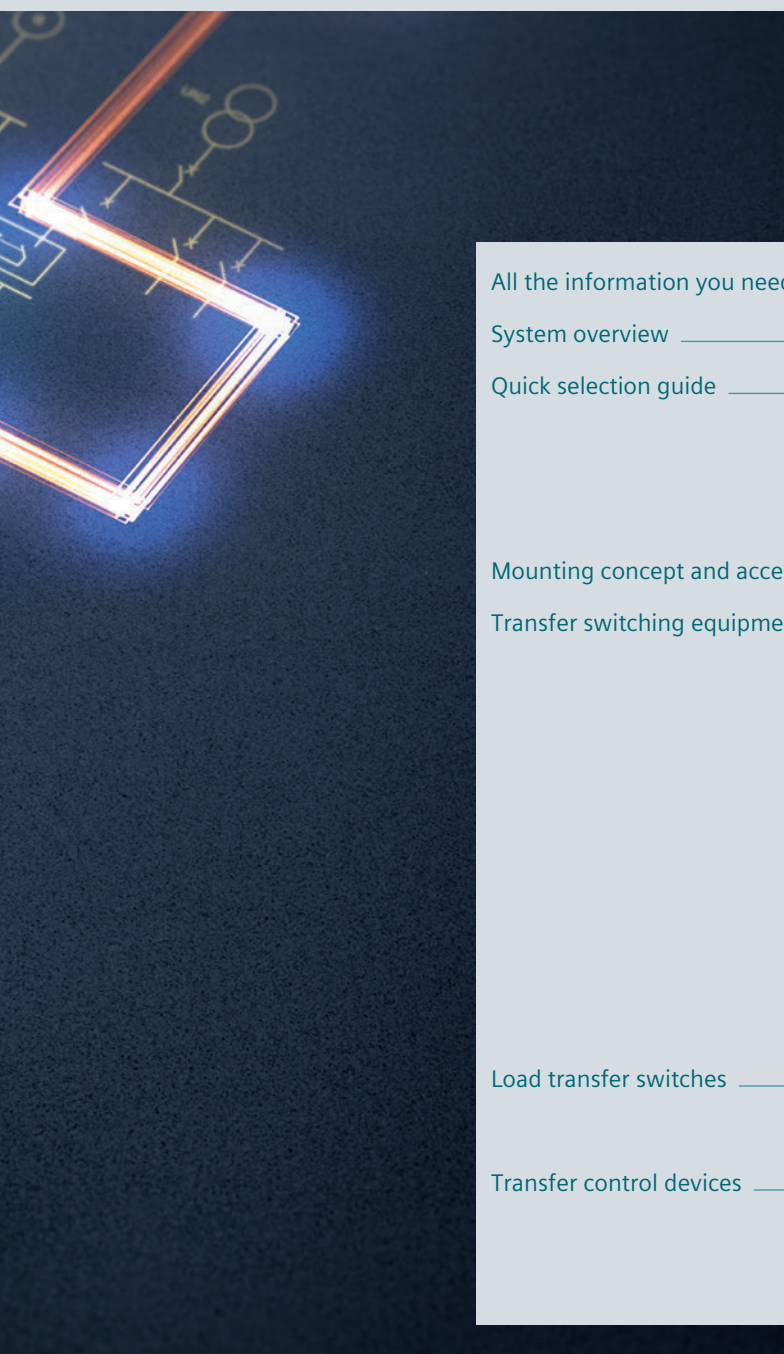
For a continuous supply of power

A power failure can have serious consequences: To the greatest extent possible, an uninterruptible power supply must be ensured so as to prevent failure or outage of electrical installations. Transfer switching equipment from Siemens switches between two power sources, therefore providing a nearly continuous supply of power.

The devices are easy to install and can be quickly put into operation. Additional functions can also be easily added – thanks to the modular design of the devices and to their wide scope of available accessories.

Convenient ordering processes and fast delivery optimize stock keeping and save you time and money. You can also use our CAx data for automated and streamlined planning and configuration.

Transfer Switching Equipment and Load Transfer Switches



| | |
|--|------|
| All the information you need | 9/2 |
| System overview | 9/4 |
| Quick selection guide | 9/6 |
| Applications | 9/6 |
| Transfer switching equipment and load transfer switches | 9/8 |
| Mounting concept and accessories | 9/12 |
| Transfer switching equipment | 9/16 |
| 3KC3 and 3KC4 remote transfer switching equipment (RTSE) | 9/16 |
| 3KC6 and 3KC8 automatic transfer switching equipment (ATSE) | 9/17 |
| Accessories for remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE) | 9/18 |
| 3KC0 manual transfer switching equipment (MTSE) | 9/24 |
| Accessories for manual transfer switching equipment (MTSE) | 9/26 |
| Load transfer switches | 9/30 |
| 3LD2 load transfer switches | 9/30 |
| Transfer control devices | 9/32 |
| 3KC ATC transfer control devices | 9/32 |
| Accessories for transfer control devices | 9/34 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about transfer switching equipment and load transfer switches, please visit our website www.siemens.com/switching-devices

Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information www.siemens.com/lowvoltage/product-support

- Technical basic information – Switch disconnectors and transfer switching equipment ([109763354](#))

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Switch disconnectors and transfer switching equipment sie.ag/2mmMw6g

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

Order supports are available in Siemens Industry Online Support at www.siemens.com/lowvoltage/catalogs

- Order support – 3KC automatic transfer switching equipment (ATSE) – End-to-end safety for user and systems ([109755620](#))
- Order support – 3KC remotely operated transfer switching equipment (RTSE) – End-to-end safety for user and systems ([109755627](#))
- Order support – 3KC manual transfer switching equipment (MTSE) – End-to-end safety for user and systems ([109750227](#))

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Transfer switching equipment and load transfer switches ([109769745](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC3 and 3KC6 transfer switching equipment ([109754954](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC0 manual transfer switching equipment ([109763232](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC4 and 3KC8 transfer switching equipment ([109738725](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC ATC3100 transfer control device ([100341671](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC ATC6300 transfer control device ([109755149](http://www.siemens.com/lowvoltage/manuals))
- Equipment manual – 3KC ATC6500 transfer control device ([109758018](http://www.siemens.com/lowvoltage/manuals))

Technical overview – Transfer switching equipment and load transfer switches



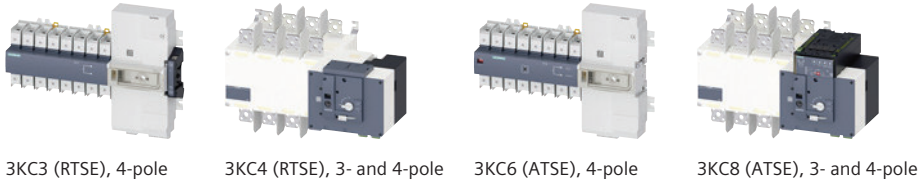
The fast way to get you to our online services

This page provides you with comprehensive information and links on transfer switching equipment and load transfer switches

www.siemens.com/lowvoltage/product-support ([109764946](http://www.siemens.com/lowvoltage/product-support))

System overview

Remote (RTSE) and automatic (ATSE) transfer switching equipment



3KC3 (RTSE), 4-pole 3KC4 (RTSE), 3- and 4-pole 3KC6 (ATSE), 4-pole 3KC8 (ATSE), 3- and 4-pole

Accessories, RTSE and ATSE



Bridging bars Auxiliary switches Terminal covers Autotransformers Dual power supply Power supply and voltage sensing cables

Manual transfer switching equipment (MTSE)



3KC0 (MTSE), 3- and 4-pole

Accessories, MTSE



Bridging bars 4th contact element Auxiliary switches Direct operating mechanisms Door-coupling rotary operating mechanisms Phase barriers Terminal covers

Note:

You will find a detailed range of accessories in the Accessories section.

Load transfer switches



Front mounting
3LD2



Floor mounting
3LD2



Molded-plastic
enclosures 3LD2

Accessories



4th contact
element



N/PE terminal



Auxiliary
switches



Terminal covers

Transfer control devices



3KC ATC3100



3KC ATC6300



3KC ATC6500

Accessories



Expansion modules



Front interface



Protective seal

Note:

You will find a detailed range of accessories in the Accessories section.

Applications

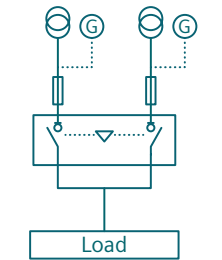
Switching with switch disconnectors (without protection function)



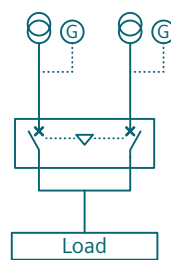
| | | | | | | | |
|--------------------------------|---------------------|----|----------------|----------------|----------------|----------------|----------------|
| Transfer types | Load transfer | AC | ■ | ■ | ■ | - | - |
| | | DC | - | - | ■ | - | - |
| | Transfer control | AC | ■ | ■ | ■ | ■ | ■ |
| Method of operation | Manual (MTSE) | | ■ | ■ | ■ | ■ | ■ |
| | Remote (RTSE) | | - | ■ | ■ | - | ■ |
| | Automatic (ATSE) | | - | With ATC6300 | With ATC6300 | ■ | ■ |
| Transfer control | Network/network | AC | ■ | ■ | ■ | ■ | ■ |
| | Network/generator | AC | ■ | ■ | ■ | - | ■ |
| | Generator/generator | AC | ■ | ■ | ■ | - | - |
| Rated operating current | | | 16 ... 1600 A | 40 ... 160 A | 250 ... 3200 A | 40 ... 160 A | 250 ... 3200 A |
| Number of poles | | | 3 and 4 | 4 | 3 and 4 | 4 | 3 and 4 |
| Communication | | | - | With ATC6300 | With ATC6300 | - | - |
| Automatic load shedding | | | - | - | - | - | - |
| More information | | | from page 9/24 | from page 9/16 | from page 9/16 | from page 9/17 | from page 9/17 |

¹⁾ Manual load transfer switch, not an MTSE

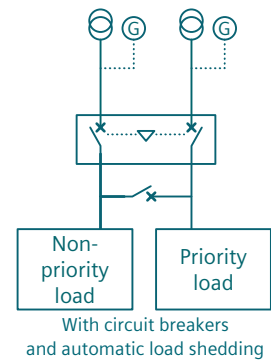
Transfer control



With switch disconnectors

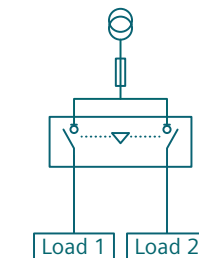


With circuit breakers



With circuit breakers and automatic load shedding

Load transfer



With switch disconnectors

Switching with circuit breakers (with protection function)



3LD2



3KC ATC3100 (+ 3VA/3WL)



3KC ATC6300 (+ 3VA/3WL)



3KC ATC6500 (+ 3VA/3WL)

| | | | |
|--------------|--|--|---|
| ■ | - | - | - |
| - | - | - | - |
| - | ■ | ■ | ■ |
| ■ 1) | - | - | - |
| - | ■ | ■ | ■ |
| - | ■ | ■ | ■ |
| - | ■ | ■ | ■ |
| - | ■ | ■ | ■ |
| - | - | ■ | ■ |
| 25 ... 250 A | 3VA: 16 ... 630 A, 3WL: 630 ... 6300 A | 3VA: 16 ... 630 A, 3WL: 630 ... 6300 A | 3VA: 16 ... 1600 A, 3WL: 630 ... 6300 A |
| 3 and 4 | 3 and 4 | 3 and 4 | 3 and 4 |
| - | - | ■ | ■ |
| - | - | - | ■ |

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from page 9/32

Transfer switching equipment and load transfer switches

Remote transfer switching equipment (RTSE), automatic transfer switching equipment (ATSE)

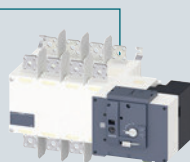


| | 3KC3424 3KC6424 | 3KC3426 3KC6426 | 3KC3428 3KC6428 | 3KC3430 3KC6430 | 3KC3432 3KC6432 | 3KC3434 3KC6434 | | |
|--|--|-----------------------|--------------------|--------------------|--------------------|--------------------|---------|---------|
| Rated uninterrupted current I_u | 40 A | 63 A | 80 A | 100 A | 125 A | 160 A | | |
| Connection | Box terminal | | | | | | | |
| Switch positions | I–O–II | | | | | | | |
| Number of poles | 4 | | | | | | | |
| Size | – | | | | | | | |
| General technical details | | | | | | | | |
| Operating voltage at 50/60 Hz AC in acc. to IEC 60947-6-1 | V | 415 | | | | | | |
| Operating voltage at 50/60 Hz AC in acc. to IEC 60947-3 (load transfer switch) | V | 415 | | | | | | |
| Impulse withstand voltage (U_{imp}) for main circuit | kV | 6 | | | | | | |
| Impulse withstand voltage (U_{imp}) for control circuit (RTSE / ATSE) | kV | 4 (RTSE) / 2.5 (ATSE) | | | | | | |
| Operational current in acc. to IEC 60947-6-1 | AC-31 A/B, at 415 V | A | 40 | 63 | 80 | 100 | 100/125 | 100/160 |
| | AC-32 A/B, at 415 V | A | 40 | 63 | 80 | 100 | 100/125 | 100/160 |
| | AC-33 B, at 415 V | A | 40 | 63 | 80 | 100 | 125 | 125 |
| Operational current in acc. to IEC 60947-3 (load transfer switch) | AC-21 A/B, at 415 V | A | 40 | 63 | 80 | 100 | 125 | 125/160 |
| | AC-21 A/B, at 690 V | A | 40 | 63 | 80 | 100 | 125 | 125 |
| | AC-22 A/B, at 415 V | A | 40 | 63 | 80 | 100 | 125 | 125/160 |
| | AC-22 A/B, at 690 V | A | 40 | 63 | 80 | 80 | 100/125 | 100/125 |
| | AC-23 A/B, at 415 V | A | 40 | 63 | 80 | 100 | 125 | 125/160 |
| | AC-23 A/B, at 690 V | A | 40 | 63 | 63 | 80 | 80 | 80 |
| Operational power in acc. to IEC 60947-3 (load transfer switch) | AC-23 A/B, at 415 V ¹⁾ | kW | 22 | 37 | 45 | 55 | 60 | 75 |
| | AC-23 A/B, at 690 V ²⁾ | kW | 37 | 55 | 55 | 75 | 75 | 75 |
| | AC 3 motor load switch at 380 ... 440 V | kW | – | | | | | |
| | AC-3 motor load switch at 660 ... 690 V | kW | – | | | | | |
| Short-circuit behavior | | | | | | | | |
| Short-circuit current ratings in acc. to IEC 60947-6-1 | Conditional short-circuit current with gG fuse (415 V) | kA | 50 | 50 | 50 | 50 | 50 | 40 |
| Short-circuit current ratings in acc. to IEC 60947-3 (load transfer switch) | Conditional short-circuit current with gG fuse (415 V) | kA | 50 | 50 | 50 | 50 | 50 | 40 |
| | Conditional short-circuit current with gG fuse (690 V) | kA | – | | | | | |
| Transfer switching properties (in acc. to IEC 60947-6-1) | | | | | | | | |
| Switching time I–O and II–O | s | 0.045 | | | | | | |
| Switch-off time I–O–II and II–O–I | s | 0.15 | | | | | | |
| Transfer time I–O–II and II–O–I without/with network monitoring | s | 0.18/1.4 | | | | | | |
| Degree of protection | | | | | | | | |
| IP maximum degree of protection | | IP20 | | | | | | |
| Standards UL/CSA, in acc. to UL508 | | | | | | | | |
| Rated operational voltage U_e AC | V | – | | | | | | |
| Rated uninterrupted current I_u | A | – | | | | | | |
| Maximum rated power (AC-3), three-phase, 40 ... 60 Hz | 480 V | hp | – | | | | | |
| | 600 V | hp | – | | | | | |
| More information | | | | | | | | |
| Catalog LV 10 | | from page 9/16 | | | | | | |

¹⁾ For 3LD2 at 380 ... 440 V

²⁾ For 3LD2 at 660 ... 690 V

Remote transfer switching equipment (RTSE), automatic transfer switching equipment (ATSE)



| 3KC4.38 3KC8.38 250 A | 3KC4.42 3KC8.42 400 A | 3KC4.46 3KC8.46 630 A | 3KC4.48 3KC8.48 800 A | 3KC4.50 3KC8.50 1000 A | 3KC4.52 3KC8.52 1250 A | 3KC4.54 3KC8.54 1600 A | 3KC4.56 3KC8.56 2000 A | 3KC4.58 3KC8.58 2500 A | 3KC4.60 3KC8.60 3200 A |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Flat terminal | | | | | | | | | |
| I-O-II | | | | | | | | | |
| 3 and 4 | | | | | | | | | |
| - | | | | | | | | | |
| 415 | | | | | | | | | |
| 690 | | | | | | | | | |
| 12 | | | | | | | | | |
| 4 | | | | | | | | | |
| -/250 | -/400 | -/630 | -/800 | -/1000 | -/1250 | -/1600 | -/2000 | -/2500 | -/3200 |
| -/200 | -/400 | -/500 | -/800 | -/1000 | -/1250 | -/1600 | -/2000 | -/2000 | -/2000 |
| 200 | 200 | 400 | 800 | 800 | 1000 | 1000 | 1250 | 1250 | 1250 |
| 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | -/2000 | -/2500 | -/3200 |
| 200 | 200 | 500 | 800 | 1000 | 1250 | 1600 | -/2000 | -/2000 | -/2000 |
| 250 | 400 | 630 | 800 | 1000 | 1250 | 1600 | -/2000 | -/2500 | -/3200 |
| 160 | 160 | 400 | 630 | 800 | 1000 | 1000 | - | - | - |
| 200 | 400 | 500/630 | 800 | 1000 | 1250 | 1250 | -/1600 | -/1600 | -/1600 |
| 125 | 125 | 400 | 630 | 630 | 800 | 800 | - | - | - |
| 110 | 220 | 335 | 450 | 700 | 800 | 900 | - | - | - |
| 110 | 110 | 400 | 400 | 630 | 800 | 800 | - | - | - |
| - | | | | | | | | | |
| - | | | | | | | | | |
| 50 | 50 | 50 | 50 | 50 | 100 | 100 | - | - | - |
| - | | | | | | | | | |
| 50 | 50 | 50 | 50 | 50 | 100 | 100 | - | - | - |
| 0.5 | 0.5 | 0.6 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.6 |
| 0.4 | 0.4 | 0.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.2 | 1.2 | 1.2 |
| 0.9/1.0 | 0.9/1.0 | 1.0/1.1 | 2.8/3.1 | 2.8/3.1 | 2.8/3.1 | 2.9/3.3 | 2.8/2.8 | 2.8/2.8 | 2.8/2.8 |
| IP20 | | | | | | | | | |
| - | | | | | | | | | |
| - | | | | | | | | | |
| - | | | | | | | | | |
| - | | | | | | | | | |

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Transfer switching equipment and load transfer switches

Manual transfer switching equipment (MTSE)

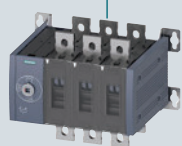


| | | | 3KC0.16 | 3KC0.22 | 3KC0.26 | 3KC0.28 | 3KC0.30 | 3KC0.32 | 3KC0.34 | |
|--|--|----|----------------|---------|---------|----------------|---------|---------|---------|--|
| Rated uninterrupted current I_u | | | 16 A | 32 A | 63 A | 80 A | 100 A | 125 A | 160 A | |
| Connection | | | Box terminal | | | Box terminal | | | | |
| Switch positions | | | I–O–II | | | I–O–II | | | | |
| Number of poles | | | 3 and 4 | | | 3 and 4 | | | | |
| Size | | | 1 | | | 2 | | | | |
| General technical details | | | | | | | | | | |
| Operating voltage at 50/60 Hz AC in acc. to IEC 60947-6-1 | V | | 415 | | | 415 | | | | |
| Operating voltage at 50/60 Hz AC in acc. to IEC 60947-3 (load transfer switch) | V | | 690 | | | 690 | | | | |
| Impulse withstand voltage (U_{imp}) for main circuit | kV | | 8 | | | 8 | | | | |
| Impulse withstand voltage (U_{imp}) for control circuit (RTSE / ATSE) | kV | | – | | | – | | | | |
| Operational current in acc. to IEC 60947-6-1 | AC-31 A/B, at 415 V | A | –/16 | –/32 | –/63 | –/80 | –/100 | –/125 | –/160 | |
| | AC-32 A/B, at 415 V | A | –/16 | –/32 | –/63 | –/80 | –/100 | –/125 | –/160 | |
| | AC-33 B, at 415 V | A | 16 | 32 | 63 | 80 | 100 | 125 | 160 | |
| Operational current in acc. to IEC 60947-3 (load transfer switch) | AC-21 A/B, at 415 V | A | 16/16 | 32/32 | 63/63 | 80/80 | 100/100 | 125/125 | 160/160 | |
| | AC-21 A/B, at 690 V | A | 16/16 | 32/32 | 63/63 | 80/80 | 100/100 | 125/125 | 160/160 | |
| | AC-22 A/B, at 415 V | A | 16/16 | 32/32 | 63/63 | 80/80 | 100/100 | 125/125 | 160/160 | |
| | AC-22 A/B, at 690 V | A | 16/16 | 32/32 | 63/63 | 80/80 | 100/100 | 125/125 | 160/160 | |
| | AC-23 A/B, at 415 V | A | 16/16 | 32/32 | 63/63 | 80/80 | 100/100 | 125/125 | 160/160 | |
| Operational power in acc. to IEC 60947-3 (load transfer switch) | AC-23 A/B, at 415 V ¹⁾ | kW | 7.5/7.5 | 15/15 | 30/30 | 37/37 | 55/55 | 55/55 | 90/90 | |
| | AC-23 A/B, at 690 V ²⁾ | kW | 11/11 | 30/30 | 55/55 | 75/75 | 90/90 | 110/110 | 110/110 | |
| | AC-3 motor load switch at 380 ... 440 V | kW | – | – | – | – | – | – | – | |
| AC-3 motor load switch at 660 ... 690 V | kW | – | – | – | – | – | – | – | | |
| Short-circuit behavior | | | | | | | | | | |
| Short-circuit current ratings in acc. to IEC 60947-6-1 | Conditional short-circuit current with gG fuse (415 V) | kA | 100 | | | 100 | | | | |
| Short-circuit current ratings in acc. to IEC 60947-3 (load transfer switch) | Conditional short-circuit current with gG fuse (415 V) | kA | 100 | | | 100 | | | | |
| | Conditional short-circuit current with gG fuse (690 V) | kA | 100 | | | 65 | | | | |
| Transfer switching properties (in acc. to IEC 60947-6-1) | | | | | | | | | | |
| Switching time I–O and II–O | s | | – | | | – | | | | |
| Switch-off time I–O–II and II–O–I | s | | – | | | – | | | | |
| Transfer time I–O–II and II–O–I without/with network monitoring | s | | – | | | – | | | | |
| Degree of protection | | | | | | | | | | |
| IP maximum degree of protection | | | IP20 | | | IP20 | | | | |
| Standards UL/CSA, in acc. to UL508 | | | | | | | | | | |
| Rated operational voltage U_e AC | V | | – | | | – | | | | |
| Rated uninterrupted current I_u | A | | – | | | – | | | | |
| Maximum rated power (AC-3), three-phase, 40 ... 60 Hz | 480 V | hp | – | | | – | | | | |
| | 600 V | hp | – | | | – | | | | |
| More information | | | | | | | | | | |
| Catalog LV 10 | | | from page 9/24 | | | from page 9/24 | | | | |

¹⁾ For 3LD2 at 380 ... 440 V²⁾ For 3LD2 at 660 ... 690 V

Manual transfer switching equipment (MTSE)

Load transfer switches



| 3KC0.36 | | | 3KC0.38 | | | 3KC0.40 | | | 3KC0.42 | | | 3KC0.44 | | | 3KC0.46 | | | 3KC0.48 | | | 3KC0.50 | | | 3KC0.52 | | | 3KC0.54 | | | 3LD21 | 3LD22 | 3LD25 | 3LD27 | 3LD23 | | 3LD24 | | | | | | | | | | | | | | | | |
|---------------|--|---------|---------|---------|--|---------|--|---------|---------------|---------|--|---------|--|-----------|---------|-----------|--|---------------|--|------|---------|------|--|---------|--|-----|--------------|-----|--|-------|-------|-------|-----------------------|-------|--|-------|------|----|--|----|-----|--|--|--|-----|--|--|--|-----|--|--|--|
| 200 A | | | 250 A | | | 315 A | | | 400 A | | | 500 A | | | 630 A | | | 800 A | | | 1000 A | | | 1250 A | | | 1600 A | | | 25 A | 32 A | 63 A | 100 A | 160 A | | 250 A | | | | | | | | | | | | | | | | |
| Flat terminal | | | | | | | | | Flat terminal | | | | | | | | | Flat terminal | | | | | | | | | Box terminal | | | | | | Box terminal | | | | | | | | | | | | | | | | | | | |
| I-O-II | | | | | | | | | I-O-II | | | | | | | | | I-O-II | | | | | | | | | I-O-II | | | | | | I-O-II | | | | | | | | | | | | | | | | | | | |
| 3 and 4 | | | | | | | | | 3 and 4 | | | | | | | | | 3 and 4 | | | | | | | | | 3 | | | | | | 3 and 4 | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | 4 | | | | | | | | | 5 | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| 415 | | | | | | | | | 415 | | | | | | | | | 415 | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| 690 | | | | | | | | | 690 | | | | | | | | | 690 | | | | | | | | | 690 | | | | | | 690 | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | 12 | | | | | | | | | 12 | | | | | | | | | 6 | | | | | | 6 | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| -/200 | | | -/250 | | | -/315 | | | -/400 | | | -/500 | | | -/630 | | | -/800 | | | -/1000 | | | -/1250 | | | -/1600 | | | - | | | | | | - | | | | | | | | | | | | | | | | |
| -/200 | | | -/250 | | | -/315 | | | -/350 | | | -/500 | | | -/630 | | | -/800 | | | -/1000 | | | -/1250 | | | -/1250 | | | - | | | | | | - | | | | | | | | | | | | | | | | |
| 200 | | | 250 | | | 315 | | | 315 | | | 500 | | | 500 | | | 500 | | | 800 | | | 800 | | | 800 | | | - | | | | | | - | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 400/400 | | 500/500 | | 630/630 | | 800/800 | | 1000/1000 | | 1250/1250 | | 1600/1600 | | 25 | | 32 | | 63 | | 100 | | 160 | | 250 | | | | | | | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 400/400 | | 500/500 | | 630/630 | | 800/800 | | 1000/1000 | | 1250/1250 | | 1600/1600 | | 25 | | 32 | | 63 | | 100 | | 160 | | 250 | | | | | | | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 400/400 | | 500/500 | | 630/630 | | 800/800 | | 1000/1000 | | 1250/1250 | | 1600/1600 | | 25 | | 32 | | 63 | | 100 | | 140 | | 230 | | | | | | | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 400/400 | | 500/500 | | 630/630 | | 800/800 | | 1000/1000 | | 1250/1250 | | 1600/1600 | | 25 | | 32 | | 63 | | 100 | | 140 | | 230 | | | | | | | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 400/400 | | 500/500 | | 630/630 | | 670/670 | | 800/800 | | 800/800 | | 800/800 | | 20 | | 22 | | 43 | | 70 | | 132 | | 224 | | | | | | | | | | | | | | | | | | | | | | |
| 200/200 | | 250/250 | | 315/315 | | 315/315 | | 500/500 | | 500/500 | | 500/500 | | 800/800 | | 800/800 | | 800/800 | | 11.5 | | 13.5 | | 22 | | 34 | | 47 | | 58 | | | | | | | | | | | | | | | | | | | | | | |
| 110/110 | | 132/132 | | 160/160 | | 220/220 | | 280/280 | | 355/355 | | 355/355 | | 400/400 | | 400/400 | | 400/400 | | 9.5 | | 11.5 | | 22 | | 37 | | 75 | | 132 | | | | | | | | | | | | | | | | | | | | | | |
| 185/185 | | 220/220 | | 280/280 | | 355/355 | | 500/500 | | 500/500 | | 500/500 | | 800/800 | | 800/800 | | 800/800 | | 9.5 | | 11.5 | | 18.5 | | 30 | | 45 | | 55 | | | | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 7.5 | | | | | | 9.5 | | | | 18.5 | | | | 30 | | | | 50 | | | | 110 | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 7.5 | | | | | | 9.5 | | | | 15 | | | | 22 | | | | 37 | | | | 45 | | | |
| 100 | | | 100 | | | 65 | | | 65 | | | 100 | | | 100 | | | 65 | | | 100 | | | 80 | | | 80 | | | - | | | | | | - | | | | | | | | | | | | | | | | |
| 100 | | | 100 | | | 65 | | | 65 | | | 100 | | | 100 | | | 65 | | | 100 | | | 80 | | | 80 | | | 50 | | 50 | | 50 | | 50 | | 50 | | 50 | | | | | | | | | | | | |
| 65 | | | 65 | | | 35 | | | 35 | | | 65 | | | 65 | | | 50 | | | - | | | - | | | - | | | 50 | | 50 | | 50 | | 50 | | 50 | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | - | | | | | | - | | | | | | | | | | | | | | | | | | | |
| IP20 | | | | | | | | | IP20 | | | | | | | | | IP20 | | | | | | | | | IP65 | | | | | | IP65 | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 600 | | | | | | 600 | | | | 600 | | | | 600 | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 20 | | | | | | 30 | | | | 60 | | | | 100 | | | | 160 | | | | 250 | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 10 | | | | | | 20 (15) ³⁾ | | | | 40 | | | | 60 | | | | 75 | | | | 100 | | | |
| - | | | | | | | | | - | | | | | | | | | - | | | | | | | | | 15 | | | | | | 30 (20) ³⁾ | | | | 50 | | | | 75 | | | | 75 | | | | 75 | | | |

from page 9/24

from page 9/24

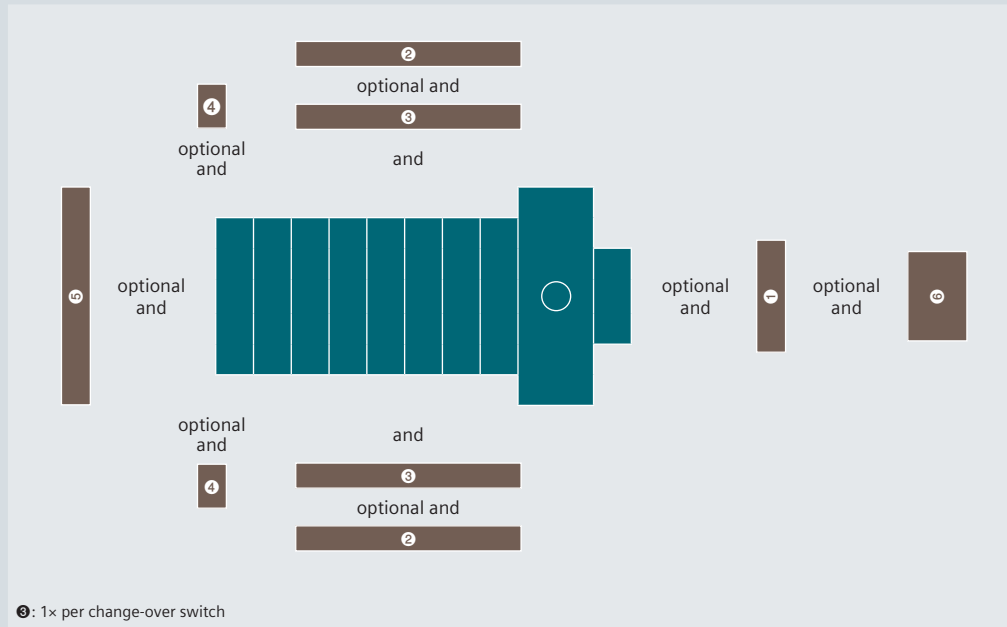
from page 9/24

from page 9/30

³⁾ Values in brackets apply to devices in molded-plastic enclosure.

Mounting concept and accessories

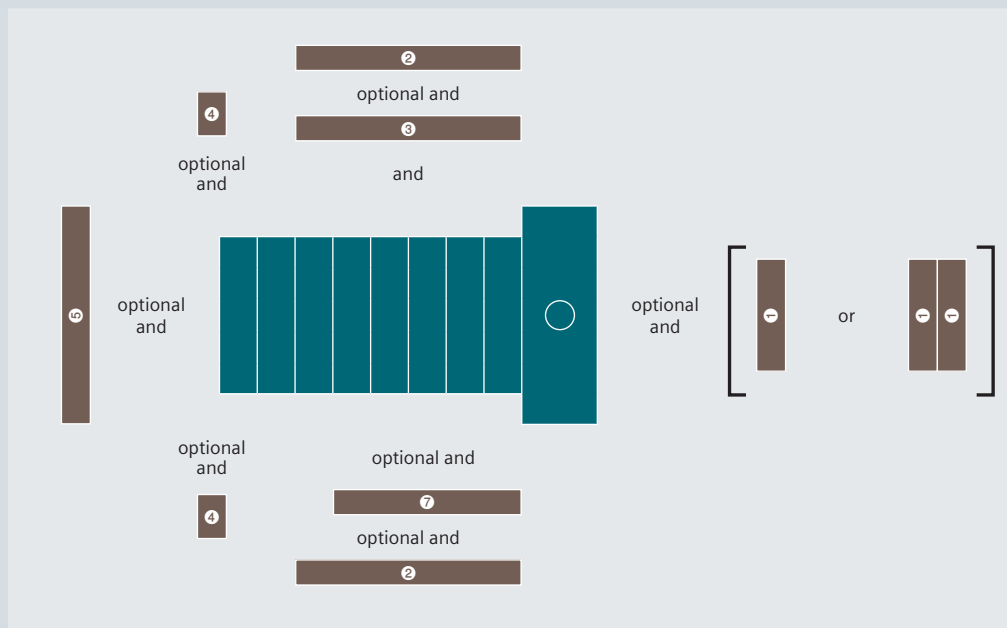
3KC3 (RTSE) 4-pole



Legend

- ① Auxiliary switches
- ② Terminal covers
- ③ Bridging bar
- ④ Aux. conductor terminal
- ⑤ Autotransformers
- ⑥ Dual power supply

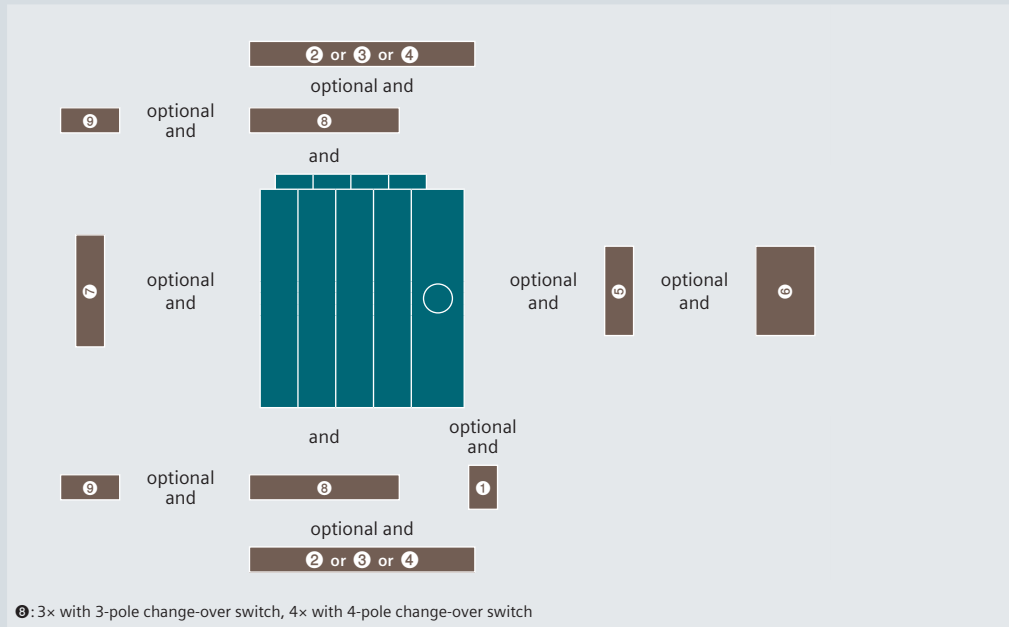
3KC6 (ATSE), 4-pole



Legend

- ① Auxiliary switches
- ② Terminal covers
- ③ Bridging bar
- ④ Aux. conductor terminal
- ⑤ Autotransformers
- ⑥ Dual power supply
- ⑦ Sealable cover

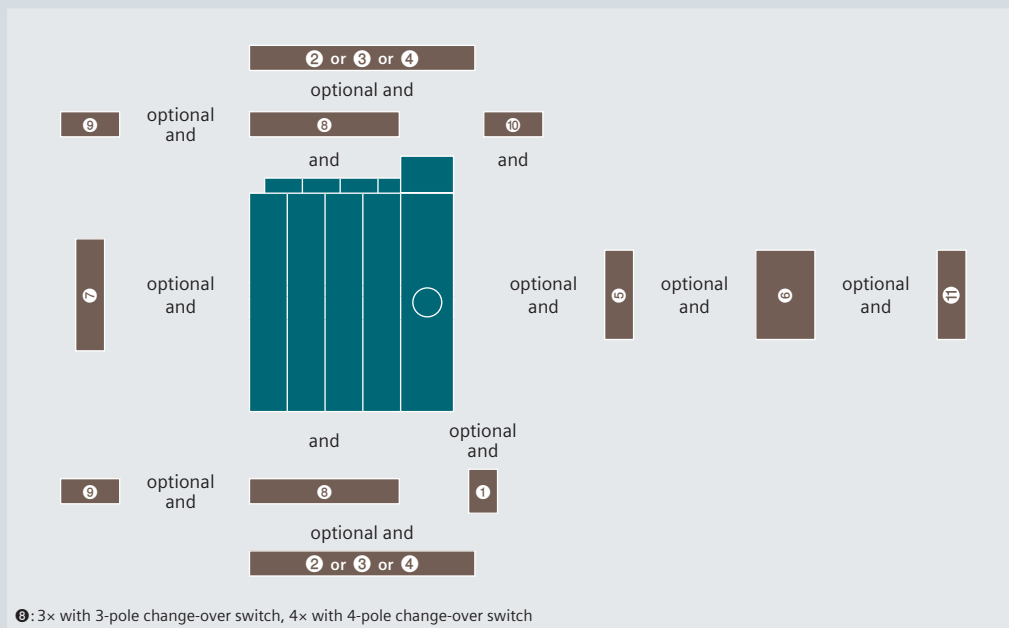
3KC4 (RTSE) 3-pole or 4-pole



Legend

- | | | |
|----------------------|---------------------|-----------------------------|
| ① Auxiliary switches | ④ Terminal plates | ⑦ Spacers |
| ② Phase barriers | ⑤ Autotransformers | ⑧ Bridging bar |
| ③ Terminal covers | ⑥ Dual power supply | ⑨ Copper bar connection kit |

3KC8 (ATSE) 3-pole or 4-pole

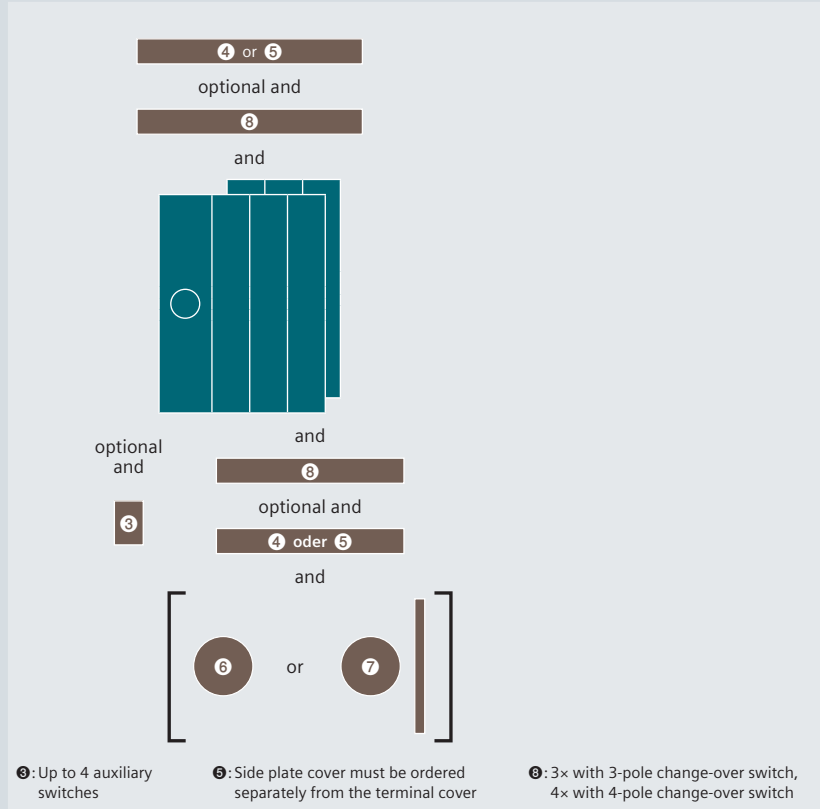


Legend

- | | | |
|----------------------|---------------------|-----------------------------|
| ① Auxiliary switches | ⑤ Autotransformers | ⑨ Copper bar connection kit |
| ② Phase barriers | ⑥ Dual power supply | ⑩ Power supply cables |
| ③ Terminal covers | ⑦ Spacers | ⑪ External display |
| ④ Terminal plates | ⑧ Bridging bar | |

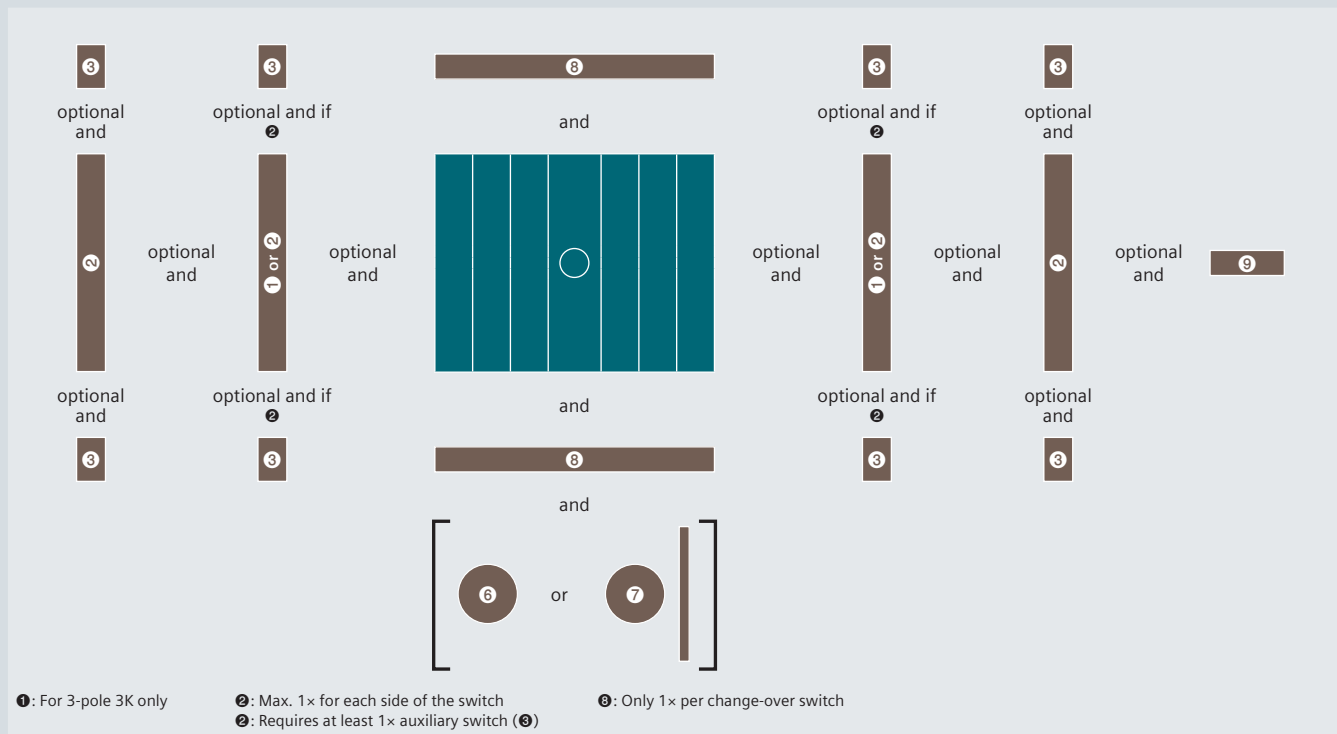
Mounting concept and accessories

3KC0 (MTSE) front operating mechanism on left, 3-pole or 4-pole, sizes 3 to 5



Legend

- 3** Auxiliary switches
- 4** Phase barrier
- 5** Side plate cover and terminal cover
- 6** Direct operating mechanism
- 7** Door-coupling rotary operating mechanism
- 8** Bridging bar



Legend

- 1** 4th contact element
- 2** Auxiliary switch module, standard version
- 3** Auxiliary switches
- 6** Direct operating mechanism
- 7** Door-coupling rotary operating mechanism
- 8** Bridging bar
- 9** Assembly kit for floor mounting

3LD2 load transfer switch mounting concept

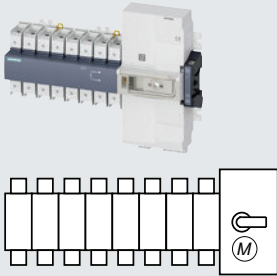
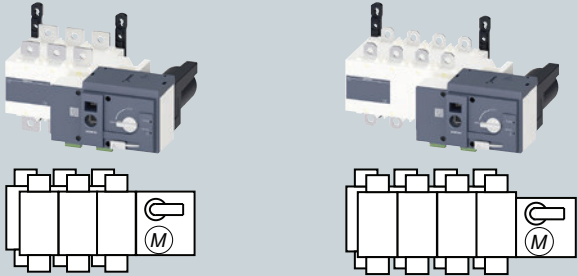


Legend

- ① Auxiliary switches
- ② N/PE terminal
- ③ N switching contacts
- ④ Terminal covers

3KC3 and 3KC4 remote transfer switching equipment (RTSE)


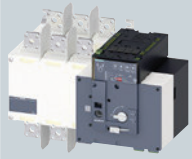
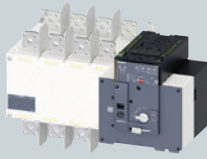
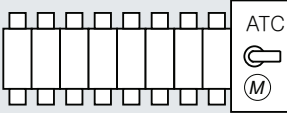
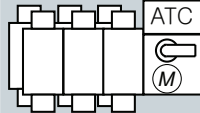
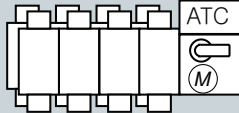
40 to 3200 A

| | Box terminal 3KC3 (RTSE) | Flat terminal 3KC4 (RTSE) |
|---------------------|---|--|
| Version | With motorized operating mechanism and additional handle | With motorized operating mechanism and additional handle |
| Operating mechanism | Operating mechanism on right | Operating mechanism on right |
| Mounting | Floor and DIN rail mounting | Floor mounting |
| Bridging bars | Additionally required for connection side | Additionally required for connection side |
| Scope of supply | Including 3KC9603 auxiliary switches | |
| |  |  |

| Rated uninterrupted current I_u | 4-pole | 3-pole | 4-pole |
|-----------------------------------|--------------------|--------------------|--------------------|
| Box terminal | | | |
| 40 A | 3KC3424-2AA22-0AA3 | – | – |
| 63 A | 3KC3426-2AA22-0AA3 | – | – |
| 80 A | 3KC3428-2AA22-0AA3 | – | – |
| 100 A | 3KC3430-2AA22-0AA3 | – | – |
| 125 A | 3KC3432-2AA22-0AA3 | – | – |
| 160 A | 3KC3434-2AA22-0AA3 | – | – |
| Flat terminal | | | |
| 250 A | – | 3KC4338-OCA21-0AA3 | 3KC4438-OCA21-0AA3 |
| 400 A | – | 3KC4342-ODA21-0AA3 | 3KC4442-ODA21-0AA3 |
| 630 A | – | 3KC4346-OEA21-0AA3 | 3KC4446-OEA21-0AA3 |
| 800 A | – | 3KC4348-OFA21-0AA3 | 3KC4448-OFA21-0AA3 |
| 1000 A | – | 3KC4350-OFA21-0AA3 | 3KC4450-OFA21-0AA3 |
| 1250 A | – | 3KC4352-OGA21-0AA3 | 3KC4452-OGA21-0AA3 |
| 1600 A | – | 3KC4354-OHA21-0AA3 | 3KC4454-OHA21-0AA3 |
| 2000 A | – | 3KC4356-OJA21-0AA3 | 3KC4456-OJA21-0AA3 |
| 2500 A | – | 3KC4358-OJA21-0AA3 | 3KC4458-OJA21-0AA3 |
| 3200 A | – | 3KC4360-OJA21-0AA3 | 3KC4460-OJA21-0AA3 |

3KC6 and 3KC8 automatic transfer switching equipment (ATSE)

40 to 3200 A

| | Box terminal 3KC6 (ATSE) | Flat terminal 3KC8 (ATSE) | |
|---|---|--|---|
| Version | With motorized operating mechanism, integrated controller and additional handle | With motorized operating mechanism, integrated controller and additional handle | |
| Operating mechanism | Operating mechanism on right | Operating mechanism on right | |
| Mounting | Floor and DIN rail mounting | Floor mounting | |
| Bridging bars | Additionally required for connection side | Additionally required for connection side | |
| Scope of supply | Wired ready for operation (including power supply) | Without power supply and voltage sensing cables | |
| |  |  |  |
| |  |  |  |
| Rated uninterrupted current I_u | 4-pole | 3-pole | 4-pole |
| Box terminal | | | |
| 40 A | 3KC6424-2TA20-0TA3 | – | – |
| 63 A | 3KC6426-2TA20-0TA3 | – | – |
| 80 A | 3KC6428-2TA20-0TA3 | – | – |
| 100 A | 3KC6430-2TA20-0TA3 | – | – |
| 125 A | 3KC6432-2TA20-0TA3 | – | – |
| 160 A | 3KC6434-2TA20-0TA3 | – | – |
| Flat terminal | | | |
| 250 A | – | 3KC8338-0CA22-0GA3 | 3KC8438-0CA22-0GA3 |
| 400 A | – | 3KC8342-0DA22-0GA3 | 3KC8442-0DA22-0GA3 |
| 630 A | – | 3KC8346-0EA22-0GA3 | 3KC8446-0EA22-0GA3 |
| 800 A | – | 3KC8348-0FA22-0GA3 | 3KC8448-0FA22-0GA3 |
| 1000 A | – | 3KC8350-0FA22-0GA3 | 3KC8450-0FA22-0GA3 |
| 1250 A | – | 3KC8352-0GA22-0GA3 | 3KC8452-0GA22-0GA3 |
| 1600 A | – | 3KC8354-0HA22-0GA3 | 3KC8454-0HA22-0GA3 |
| 2000 A | – | 3KC8356-0JA22-0GA3 | 3KC8456-0JA22-0GA3 |
| 2500 A | – | 3KC8358-0JA22-0GA3 | 3KC8458-0JA22-0GA3 |
| 3200 A | – | 3KC8360-0JA22-0GA3 | 3KC8460-0JA22-0GA3 |

Accessories

For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)







| | | | | RTSE | ATSE | |
|---|--|------------------------------|------------------------|--------------------|------|---|
| Bridging bar | | | | | | |
| <ul style="list-style-type: none"> For load-side connection For 3KC4/3KC8 3-pole transfer switches 3 units, For 3KC4/3KC8 4-pole transfer switches 4 units are required | | | | | | |
|  | Version | Number of poles | Scope of supply | Article No. | | |
| | For 40 ... 125 A | 4-pole | 1 unit | 3KC9618-2 | ■ | ■ |
| | For 160 A | 4-pole | 1 unit | 3KC9618-3 | ■ | ■ |
| | For 250 A | 1-pole | 1 unit | 3KC9818-2 | ■ | ■ |
| | For 400 A | 1-pole | 1 unit | 3KC9818-3 | ■ | ■ |
| | For 630 A | 1-pole | 1 unit | 3KC9818-4 | ■ | ■ |
| | For 800 ... 1000 A | 1-pole | 1 unit | 3KC9818-5 | ■ | ■ |
| | For 1250 A | 1-pole | 1 unit | 3KC9818-6 | ■ | ■ |
| | For 1600 A | 1-pole | 1 unit | 3KC9818-7 | ■ | ■ |
| For 2000 ... 3200 A | 1-pole | 1 unit | 3KC9818-8 | ■ | ■ | |
| Auxiliary conductor terminal | | | | | | |
|  | Version | | Scope of supply | Article No. | | |
| | For 40 ... 160 A | | 2 units | 3KC9622-2 | ■ | ■ |
| Auxiliary switches for 40 ... 160 A | | | | | | |
|  | <ul style="list-style-type: none"> For 250 V AC/5 A or for 24 V/2 A DC 1 change-over contact for each position O, I, II Max. 2 auxiliary switches can be installed per transfer switching equipment unit | | | | | |
| | Version | Contact configuration | | Article No. | | |
| | For 40 ... 160 A | With separate contacts | | 3KC9603-1 | ■ | ■ |
| | With linked common contacts | | 3KC9603-2 | ■ | ■ | |
| Auxiliary switches for 250 ... 1600 A | | | | | | |
|  | <ul style="list-style-type: none"> One auxiliary switch contains 2 leading changeover contacts, one changeover contact for position I and one changeover contact for position II (incl. bolt set) Max. two auxiliary switches can be installed per transfer switching equipment unit For 2000 ... 3200 A transfer switching equipment the auxiliary switch is included in the basic unit 250 V AC / 12 A (AC-13), 24 V DC / 14 A (DC-13) | | | | | |
| | Version | | | Article No. | | |
| | For 250 ... 630 A | | | 3KC9803-1 | ■ | ■ |
| | For 800 ... 1600 A | | | 3KC9803-2 | ■ | ■ |
| | For 2000 ... 2500 A (included in the basic unit) | | | – | ■ | ■ |

| | | | | | RTSE | ATSE |
|---|---|--------------------------------|------------------------------------|--------------------|------|------|
| Terminal covers | | | | | | |
|  | Version | Number of poles | Scope of supply | Article No. | | |
| | For 40 ... 160 A | 4-pole | 2 units (1 unit covers 4 poles) | 3KC9604-2 | ■ | ■ |
| | For 250 ... 400 A | 3-pole | 3 units (1 unit covers 1 pole) | 3KC9804-1 | ■ | ■ |
| | | 4-pole | 4 units (1 unit covers 1 pole) | 3KC9804-2 | ■ | ■ |
| | For 630 A | 3-pole | 3 units (1 unit covers 1 pole) | 3KC9804-3 | ■ | ■ |
| 4-pole | | 4 units (1 unit covers 1 pole) | 3KC9804-4 | ■ | ■ | |
| Sealable cover | | | | | | |
|  | Version | | Scope of supply | Article No. | | |
| | For 3KC6 (ATSE) 40 ... 160 A | | Incl. bolt set and sealing ribbons | 3KC9721-1 | – | ■ |
| | For 3KC8 (ATSE) 250 ... 3200 A | | Incl. bolt set and sealing ribbons | 3KC9821-0 | – | ■ |
| Sealing ribbon | | | | | | |
|  | <ul style="list-style-type: none"> Also as spare part for sealable cover | | | | | |
| | Version | | Scope of supply | Article No. | | |
| | For 40 ... 3200 A | | 10 units | 3KC9621-2 | – | ■ |
| Autotransformers | | | | | | |
|  | Version | | Technical data | Article No. | | |
| | For 40 ... 160 A | | 400 V AC / 230 V; 400 VA | 3KC9624-1 | ■ | ■ |
| | For 250 ... 3200 A, 3-pole | | 400 V AC / 230 V; 200 VA | 3KC9824-1 | ■ | ■ |

Accessories


For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)

| | | | | | | RTSE | ATSE |
|---|-------------|----------------------------------|----------|---------------------|-------------|------|------|
| Power supply and voltage sensing cables for ATSE | | | | | | | |
| | Application | Infeed | Switches | Version | Article No. | | |
|  <p>For 250 ... 630 A</p> | 2-pole | From below, with power supply | 3-pole | For 250 A | 3KC9833-1 | – | ■ |
| | | | | For 400 A | 3KC9833-2 | – | ■ |
| | | | | For 630 A | 3KC9833-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9833-4 | – | ■ |
| | | | | For 1250 A | 3KC9833-5 | – | ■ |
| | | | | For 1600 A | 3KC9833-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9833-7 | – | ■ |
|  <p>For 800 ... 3200 A</p> | | From above, with power supply | 3-pole | For 250 A | 3KC9834-1 | – | ■ |
| | | | | For 400 A | 3KC9834-2 | – | ■ |
| | | | | For 630 A | 3KC9834-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9834-4 | – | ■ |
| | | | | For 1250 A | 3KC9834-5 | – | ■ |
| | | | | For 1600 A | 3KC9834-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9834-7 | – | ■ |
|  <p>For 250 ... 630 A</p> | 3-pole | From below, without power supply | 3-pole | For 250 A | 3KC9822-1 | – | ■ |
| | | | | For 400 A | 3KC9822-2 | – | ■ |
| | | | | For 630 A | 3KC9822-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9822-4 | – | ■ |
| | | | | For 1250 A | 3KC9822-5 | – | ■ |
| | | | | For 1600 A | 3KC9822-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9822-7 | – | ■ |
|  <p>For 800 ... 3200 A</p> | | From above, without power supply | 3-pole | For 250 A | 3KC9832-1 | – | ■ |
| | | | | For 400 A | 3KC9832-2 | – | ■ |
| | | | | For 630 A | 3KC9832-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9832-4 | – | ■ |
| | | | | For 1250 A | 3KC9832-5 | – | ■ |
| | | | | For 1600 A | 3KC9832-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9832-7 | – | ■ |
|  <p>For 250 ... 630 A</p> | 4-pole | From below, with power supply | 4-pole | For 250 A | 3KC9830-1 | – | ■ |
| | | | | For 400 A | 3KC9830-2 | – | ■ |
| | | | | For 630 A | 3KC9830-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9830-4 | – | ■ |
| | | | | For 1250 A | 3KC9830-5 | – | ■ |
| | | | | For 1600 A | 3KC9830-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9830-7 | – | ■ |
|  <p>For 800 ... 3200 A</p> | | From above, with power supply | 4-pole | For 250 A | 3KC9831-1 | – | ■ |
| | | | | For 400 A | 3KC9831-2 | – | ■ |
| | | | | For 630 A | 3KC9831-3 | – | ■ |
| | | | | For 800 ... 1000 A | 3KC9831-4 | – | ■ |
| | | | | For 1250 A | 3KC9831-5 | – | ■ |
| | | | | For 1600 A | 3KC9831-6 | – | ■ |
| | | | | For 2000 ... 3200 A | 3KC9831-7 | – | ■ |

| | | | | RTSE | ATSE | |
|---|--|------------------------|------------------------|--------------------|------|---|
| Dual power supply | | | | | | |
|  | Version | Technical data | Article No. | | | |
| | For 3KC3 and 3KC4 (RTSE) 40 ... 3200 A | 240 V AC, 3 A | 3KC9625-1 | ■ | – | |
| External display | | | | | | |
|  | <ul style="list-style-type: none"> For installing in the control cabinet door | | | | | |
| | Version | Article No. | | | | |
| For 3KC8 (ATSE) 250 ... 3200 A | 3KC9823-0 | – | ■ | | | |
| Connection cable | | | | | | |
|  | <ul style="list-style-type: none"> 3 m RJ45 cable for external display | | | | | |
| | Version | Article No. | | | | |
| For 250 ... 3200 A | 3KC9823-2 | – | ■ | | | |
| Phase barrier | | | | | | |
|  | <ul style="list-style-type: none"> For 800 ... 3200 A transfer switching equipment included in the scope of supply of the basic unit | | | | | |
| | Version | Number of poles | Scope of supply | Article No. | | |
| | For 250 ... 400 A | 3-pole | 2 units | 3KC9808-1 | ■ | ■ |
| | | 4-pole | 3 units | 3KC9808-6 | ■ | ■ |
| | For 630 A | 3-pole | 2 units | 3KC9808-2 | ■ | ■ |
| | 4-pole | 3 units | 3KC9808-7 | ■ | ■ | |
| Cover frame for ATSE | | | | | | |
|  | <ul style="list-style-type: none"> For a clean and safe door cut-out To enable access to the front of the 3KC8 transfer switching equipment (electronic module and operation of the motorized operating mechanism) | | | | | |
| | Version | Article No. | | | | |
| | 250 ... 630 A | 3KC9820-4 | – | ■ | | |
| 800 ... 3200 A | 3KC9820-5 | – | ■ | | | |
| Spacers | | | | | | |
|  | <ul style="list-style-type: none"> Increase the space between the mounting rail and the cabinet rear panel or the mounting frame | | | | | |
| | Version | Scope of supply | Article No. | | | |
| For 250 ... 630 A | 2 units | 3KC9820-3 | ■ | ■ | | |

Accessories

For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)

| | | | | | RTSE | ATSE |
|---|-----------------------|-------------------|-------------|-----------|-----------|------|
| Copper bar connection kit | | | | | | |
| Version | Designation | Scope of supply | Article No. | | | |
|  | For 2000 ... 2500A | C-bracket, part A | 1 unit | 3KC9811-0 | ■ | ■ |
| | For 2000 ... 3200 A | Bolt set, part B | 1 unit | 3KC9811-1 | ■ | ■ |
| | | | | | 3KC9811-2 | ■ |
| | | T-bracket, part C | 1 unit | 3KC9811-3 | ■ | ■ |
| | | L-bracket, part D | 2 units | 3KC9811-4 | ■ | ■ |
| | Bridging bars, part E | 1 unit | 3KC9818-8 | ■ | ■ | |

| Terminal plates | | | | | | |
|---------------------|-----------------|-------------|---|---|--|--|
| Version | Number of poles | Article No. | | | | |
| For 250 ... 400 A | 3-pole | 3KC9827-1 | ■ | ■ | | |
| | 4-pole | 3KC9828-1 | ■ | ■ | | |
| For 630 A | 3-pole | 3KC9827-2 | ■ | ■ | | |
| | 4-pole | 3KC9828-2 | ■ | ■ | | |
| For 800 ... 1250 A | 3-pole | 3KC9827-3 | ■ | ■ | | |
| | 4-pole | 3KC9828-3 | ■ | ■ | | |
| For 1600 A | 3-pole | 3KC9827-4 | ■ | ■ | | |
| | 4-pole | 3KC9828-4 | ■ | ■ | | |
| For 2000 ... 3200 A | 3-pole | 3KC9827-5 | ■ | ■ | | |
| | 4-pole | 3KC9828-5 | ■ | ■ | | |

- For protecting the front side at the upper and lower connecting terminals

| | | | RTSE | ATSE |
|---|---------------------|--------------------|------|------|
| Motorized operating mechanism as spare part | | | | |
| | Version | Article No. | | |
|  | For 250 ... 400 A | 3KC9826-1 | ■ | ■ |
|  | For 630 A | 3KC9826-2 | ■ | ■ |
|  | For 800 ... 1250 A | 3KC9826-3 | ■ | ■ |
|  | For 1600 A | 3KC9826-4 | ■ | ■ |
|  | For 2000 ... 3200 A | 3KC9826-5 | ■ | ■ |
| Controller (electronic module) as spare part | | | | |
| | Version | Article No. | | |
|  | For 250 ... 3200 A | 3KC9826-0 | – | ■ |



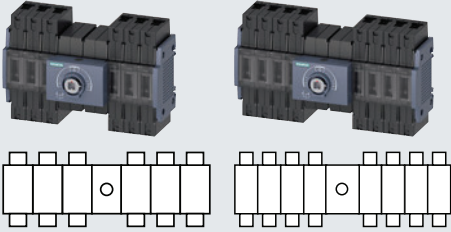
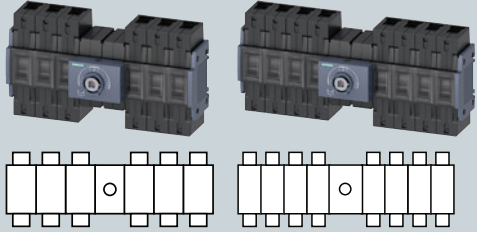
Copper bar connection kit

You will find further information at:
sie.ag/36U7MCb


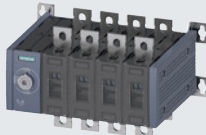

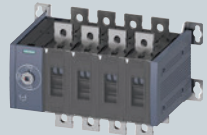


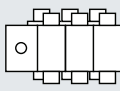
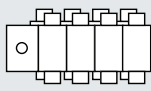
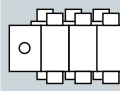
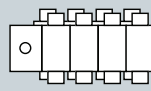
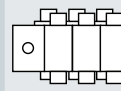
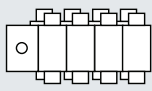


3KC0 manual transfer switching equipment (MTSE)

16 to 1600 A


| | Box terminal | | | |
|-----------------------------------|---|--------------------|---|--------------------|
| | Size 1 | | Size 2 | |
| Version | Basic unit without handle | | Basic unit without handle | |
| Operating mechanism | Front operating mechanism | | Front operating mechanism | |
| Mounting | Standard mounting rail and floor mounting ¹⁾ | | Standard mounting rail and floor mounting ¹⁾ | |
| Bridging bars | Additionally required for connection side | | Additionally required for connection side | |
| |  | |  | |
| Rated uninterrupted current I_u | 3-pole | 4-pole | 3-pole | 4-pole |
| Box terminal | | | | |
| 16 A | 3KC0316-2ME00-0AA0 | 3KC0416-2ME00-0AA0 | – | – |
| 32 A | 3KC0322-2ME00-0AA0 | 3KC0422-2ME00-0AA0 | – | – |
| 63 A | 3KC0326-2ME00-0AA0 | 3KC0426-2ME00-0AA0 | – | – |
| 80 A | – | – | 3KC0328-2NE00-0AA0 | 3KC0428-2NE00-0AA0 |
| 100 A | – | – | 3KC0330-2NE00-0AA0 | 3KC0430-2NE00-0AA0 |
| 125 A | – | – | 3KC0332-2NE00-0AA0 | 3KC0432-2NE00-0AA0 |
| 160 A | – | – | 3KC0334-2NE00-0AA0 | 3KC0434-2NE00-0AA0 |
| Flat terminal | | | | |
| 200 A | – | – | – | – |
| 250 A | – | – | – | – |
| 315 A | – | – | – | – |
| 400 A | – | – | – | – |
| 500 A | – | – | – | – |
| 630 A | – | – | – | – |
| 800 A | – | – | – | – |
| 1000 A | – | – | – | – |
| 1250 A | – | – | – | – |
| 1600 A | – | – | – | – |

¹⁾ An assembly kit is required for floor mounting

| Flat terminal | | Size 4 | | Size 5 | |
|--|---|---|---|---|---|
| Size 3 | | Size 4 | | Size 5 | |
| Basic unit without handle | | Basic unit without handle | | Basic unit without handle | |
| Front operating mechanism | | Front operating mechanism | | Front operating mechanism | |
| Floor mounting | | Floor mounting | | Floor mounting | |
| Additionally required for connection side | | Additionally required for connection side | | Additionally required for connection side | |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 3-pole | 4-pole | 3-pole | 4-pole | 3-pole | 4-pole |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| 3KC0336-OPE00-0AA0 | 3KC0436-OPE00-0AA0 | - | - | - | - |
| 3KC0338-OPE00-0AA0 | 3KC0438-OPE00-0AA0 | - | - | - | - |
| 3KC0340-OPE00-0AA0 | 3KC0440-OPE00-0AA0 | - | - | - | - |
| 3KC0342-OPE00-0AA0 | 3KC0442-OPE00-0AA0 | - | - | - | - |
| - | - | 3KC0344-OQE00-0AA0 | 3KC0444-OQE00-0AA0 | - | - |
| - | - | 3KC0346-OQE00-0AA0 | 3KC0446-OQE00-0AA0 | - | - |
| - | - | 3KC0348-OQE00-0AA0 | 3KC0448-OQE00-0AA0 | - | - |
| - | - | - | - | 3KC0350-ORE00-0AA0 | 3KC0450-ORE00-0AA0 |
| - | - | - | - | 3KC0352-ORE00-0AA0 | 3KC0452-ORE00-0AA0 |
| - | - | - | - | 3KC0354-ORE00-0AA0 | 3KC0454-ORE00-0AA0 |

Accessories

For manual transfer switching equipment (MTSE)

| | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | | |
|---|--|--------------------|--------------------|------------------------|--------------------|--------|--------|--------|---|---|
| Box terminal (4th contact element, switching pole) | | | | | | | | | | |
|  | Connection | | Article No. | | | | | | | |
| | N —  N | | 3KD9105-2 | ■ | | | | | | |
| | | | 3KD9205-2 | | ■ | | | | | |
| Auxiliary switch module | | | | | | | | | | |
|  | <ul style="list-style-type: none"> Delivery does not include auxiliary switch A maximum of 2 auxiliary switches can be installed per auxiliary switch module. The auxiliary switches indicate the switch position of the respective switching equipment (I or II) to which the auxiliary switch module is connected. | | | | | | | | | |
| | Variant | | Article No. | | | | | | | |
| | Standard version | | 3KD9103-5 | ■ | ■ | | | | | |
| Auxiliary switches | | | | | | | | | | |
|    | <ul style="list-style-type: none"> Auxiliary switches for sizes 3 to 5 have a screw terminal and are mounted on the 3K operating mechanism module. Auxiliary switches with spring-type terminals from the 3SU1 program can also be used. All auxiliary switches for sizes 3 to 5 can be used as leading auxiliary switches, depending on the mounting position of the auxiliary switch (see operating instructions). | | | | | | | | | |
| | Variant | | Contacts | Contact surface | Article No. | | | | | |
| | With connecting cables | | 1 CO contact | Standard | 3KD9103-1 | ■ | ■ | | | |
| | | | | Solid-state compatible | 3KD9103-3 | ■ | ■ | | | |
| | Without connecting cables | | 1 CO contact | Standard | 3KD9103-2 | ■ | ■ | | | |
| | | | | Solid-state compatible | 3KD9103-4 | ■ | ■ | | | |
| | | | 1 NO contact | Standard | 3SU1400-1AA10-1BA0 | | | ■ | ■ | ■ |
| | | | | Gold-plated | 3SU1400-1AA10-1LA0 | | | ■ | ■ | ■ |
| | 1 NC contact | Standard | 3SU1400-1AA10-1CA0 | | | ■ | ■ | ■ | | |
| | | Gold-plated | 3SU1400-1AA10-1MA0 | | | ■ | ■ | ■ | | |
| | 1 NO contact + 1 NC contact | Standard | 3SU1400-1AA10-1FA0 | | | ■ | ■ | ■ | | |
| | | Gold-plated | 3SU1400-1AA10-1QA0 | | | ■ | ■ | ■ | | |
| | 2 NO contacts | Standard | 3SU1400-1AA10-1DA0 | | | ■ | ■ | ■ | | |
| | | Gold-plated | 3SU1400-1AA10-1NA0 | | | ■ | ■ | ■ | | |
| | 2 NC contacts | Standard | 3SU1400-1AA10-1EA0 | | | ■ | ■ | ■ | | |
| Gold-plated | | 3SU1400-1AA10-1PA0 | | | ■ | ■ | ■ | | | |
| Bridging bars | | | | | | | | | | |
| <ul style="list-style-type: none"> For load-side connection For 3-pole transfer switches (sizes 3 to 5) 3 units, for 4-pole transfer switches (sizes 3 to 5) 4 units are required | | | | | | | | | | |
| Number of poles | | | Article No. | | | | | | | |
|  | 1-pole | 1 unit | 3KC9318-0 | | | ■ | | | | |
| | | | 3KC9418-0 | | | | ■ | | | |
| | | | 3KC9518-0 | | | | | ■ | | |
|  | 3-pole | 1 unit | 3KC9118-1 | ■ | | | | | | |
| | | | 3KC9218-1 | | ■ | | | | | |
|  | 4-pole | 1 unit | 3KC9118-2 | ■ | | | | | | |
| | | | 3KC9218-2 | | ■ | | | | | |

| | | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | |
|---|--|----------------------|--------------------|--------------------|-----------|--------|--------|--------|--------|--|
| Direct operating mechanism standard version | | | | | | | | | | |
| <ul style="list-style-type: none"> • Can be locked with up to max. 3 padlocks • Requires additional mounting depth in locked state | | | | | | | | | | |
|  | Color | Article No. | | | | | | | | |
| | Gray | 3KC9201-3 | 3KC9301-1 | 3KC9401-1 | 3KC9501-1 | ■ | ■ | ■ | | |
| | Red/yellow | 3KC9301-2 | 3KC9401-2 | 3KC9501-2 | | | ■ | ■ | ■ | |
| | Flat direct operating mechanism for distribution boards | | | | | | | | | |
| | <ul style="list-style-type: none"> • Can be locked with one padlock • No additional mounting depth in locked state | | | | | | | | | |
| |  | Color | Article No. | | | | | | | |
| Gray | | 3KC9101-4 | | | | ■ | | | | |
| Door-coupling rotary operating mechanism, 8UD1 series | | | | | | | | | | |
| <ul style="list-style-type: none"> • Handle with masking plate • Coupling driver with tolerance compensation • Shaft 300 mm • Can be locked with up to max. 3 padlocks • Labeling I–O–II | | | | | | | | | | |
|  | Color | Handle length | Shaft | Article No. | | | | | | |
| | Gray | 55 mm | 8 × 8 mm | 8UD1131-2AE21 | ■ | ■ | | | | |
| | | 100 mm | 8 × 8 mm | 8UD1141-2AE21 | | | ■ | | | |
| | | 140 mm | 10 × 10 mm | 8UD1151-3AE21 | | | | ■ | | |
| | | 200 mm | 12 × 12 mm | 8UD1161-4AE21 | | | | | ■ | |
| Handles for door-coupling rotary operating mechanisms, 8UD1 series | | | | | | | | | | |
| <ul style="list-style-type: none"> • Without extension shaft and coupling driver • With masking plate • Can be locked with up to max. 3 padlocks • Labeling I–O–II | | | | | | | | | | |
|  | Color | Handle length | Shaft | Article No. | | | | | | |
| | Gray | 55 mm | 8 × 8 mm | 8UD1731-2AE01 | ■ | ■ | | | | |
| | | 100 mm | 8 × 8 mm | 8UD1841-2AE01 | | | ■ | | | |
| | | 140 mm | 10 × 10 mm | 8UD1851-3AE01 | | | | ■ | | |
| | | 200 mm | 12 × 12 mm | 8UD1861-4AE01 | | | | | ■ | |
| | Red/yellow | 55 mm | 8 × 8 mm | 8UD1731-2AE05 | ■ | ■ | | | | |
| | | 100 mm | 8 × 8 mm | 8UD1841-2AE05 | | | ■ | | | |
| | | 140 mm | 10 × 10 mm | 8UD1851-3AE05 | | | | ■ | | |
| | | 200 mm | 12 × 12 mm | 8UD1861-4AE05 | | | | | ■ | |

Accessories

For manual transfer switching equipment (MTSE)

Size 1 Size 2 Size 3 Size 4 Size 5

Extension shaft for door-coupling rotary operating mechanism, 8UD1 series



- A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1/2.

| Length | Cross-section | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|--------|---------------|-------------|--------|--------|--------|--------|--------|
| 300 mm | 8 × 8 mm | 8UC6032 | ■ | ■ | ■ | | |
| | 10 × 10 mm | 8UC6033 | | | | ■ | |
| | 12 × 12 mm | 8UC6034 | | | | | ■ |
| 600 mm | 8 × 8 mm | 8UC6082 | ■ | ■ | ■ | | |
| | 10 × 10 mm | 8UC6083 | | | | ■ | |
| | 12 × 12 mm | 8UC6084 | | | | | ■ |

Shaft jack for handle 8UD1 for shaft, 600 mm



| Shaft | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|----------|---------------|--------|--------|--------|--------|--------|
| 8 × 8 mm | 8UD1900-0FA00 | ■ | ■ | | | |

Coupling drivers



| Variant | Shaft | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|-----------------------------|----------|---------------|--------|--------|--------|--------|--------|
| With tolerance compensation | 8 × 8 mm | 8UD1900-2GA00 | ■ | ■ | | | |



| | | | | | | | |
|----------|---------------|---------------|--|--|---|---|---|
| 8 × 8 mm | 8UD1900-6GA00 | | | | ■ | | |
| | 10 × 10 mm | 8UD1900-3GA00 | | | | ■ | |
| | 12 × 12 mm | 8UD1900-4GA00 | | | | | ■ |



| | | | | | | | |
|--------------------------------|----------|---------------|---|---|--|--|--|
| Without tolerance compensation | 8 × 8 mm | 8UD1900-2HA00 | ■ | ■ | | | |
|--------------------------------|----------|---------------|---|---|--|--|--|



| | | | | | | | |
|----------|---------------|---------------|--|--|---|---|---|
| 8 × 8 mm | 8UD1900-6HA00 | | | | ■ | | |
| | 10 × 10 mm | 8UD1900-3HA00 | | | | ■ | |
| | 12 × 12 mm | 8UD1900-4HA00 | | | | | ■ |

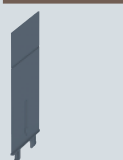
Adapter



- Non-interchangeability features (rivet and lug)





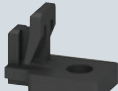

| Shaft | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|------------|-------------|--------|--------|--------|--------|--------|
| 8 × 8 mm | 8UC6022 | ■ | ■ | | | |
| 8 × 8 mm | 8UC6022 | | | ■ | | |
| 10 × 10 mm | 8UC6023 | | | | ■ | |
| 12 × 12 mm | 8UC6024 | | | | | ■ |

Phase barriers



- For manual transfer switching equipment (MTSE) with flat terminals
- One pack (6 or 8 units) is required for the infeed side and the load side

| Number of poles, switch | Scope of supply | Article No. | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 |
|-------------------------|-----------------|-------------|--------|--------|--------|--------|--------|
| 3-pole | 6 units | 3KD9308-6 | | | | ■ | |
| | 6 units | 3KD9408-6 | | | | | ■ |
| | 6 units | 3KD9508-6 | | | | | ■ |
| 4-pole | 8 units | 3KD9308-8 | | | | ■ | |
| | 8 units | 3KD9408-8 | | | | | ■ |
| | 8 units | 3KD9508-8 | | | | | ■ |

| | | | | Size 1 | Size 2 | Size 3 | Size 4 | Size 5 | |
|---|---|--------------------------------|------------------------|--------------------|--------|--------|--------|--------|---|
| Terminal covers | | | | | | | | | |
| <ul style="list-style-type: none"> For manual transfer switching equipment (MTSE) with flat terminals One pack (6 or 8 units) is required for the infeed side and the load side Additional side plates for terminal covers are required for the terminal side, where bridging bars are used (normally the lead side) | | | | | | | | | |
|  | Length | Number of poles, switch | Scope of supply | Article No. | | | | | |
| | Standard length | 3-pole | 6 units | 3KD9304-6 | | | ■ | | |
| | | | | 3KD9404-6 | | | | ■ | |
| | | | | 3KD9504-6 | | | | | ■ |
| | 4-pole | 8 units | 8 units | 3KD9304-8 | | | ■ | | |
| | | | | 3KD9404-8 | | | | ■ | |
| | | | | 3KD9504-8 | | | | | ■ |
| | Short version | 3-pole | 6 units | 3KD9304-7 | | | ■ | | |
| | | | | 3KD9404-7 | | | | ■ | |
| | | | | 3KD9304-5 | | | | ■ | |
| 4-pole | 8 units | 8 units | 3KD9404-5 | | | | ■ | | |
| | | | | | | | | | |
| Terminal covers as spare parts | | | | | | | | | |
|  | Length | | Scope of supply | Article No. | | | | | |
| | Standard length | | 1 unit | 3KD9504-1 | | | | ■ | |
| | | | | | | | | | |
| | Short version | | 1 unit | 3KD9304-1 | | | ■ | | |
| | | | | 3KD9404-1 | | | | ■ | |
| Side plates | | | | | | | | | |
|  | <ul style="list-style-type: none"> For lateral touch protection on the terminal side, where bridging bars are used (normally the load side) Suitable for terminal covers in standard length | | | | | | | | |
| | Length | | Scope of supply | Article No. | | | | | |
| | Standard length | | 2 units | 3KC9304-0 | | | ■ | | |
| | | | | 3KC9404-0 | | | | ■ | |
| | | 3KC9504-0 | | | | | | ■ | |
| Assembly kit for floor mounting | | | | | | | | | |
|  | <ul style="list-style-type: none"> For floor mounting of sizes 1 and 2 Contains 4 mounting brackets and 2 mounting plates for 3-pole and 4-pole devices | | | | | | | | |
| | | | | Article No. | | | | | |
| | | | | 3KC9120-1 | | ■ | ■ | | |
| Mounting bracket as spare part | | | | | | | | | |
|  | <ul style="list-style-type: none"> Spare part, included in the scope of supply of the assembly kit for 3-pole and 4-pole devices | | | | | | | | |
| | Scope of supply | | | Article No. | | | | | |
| | 4 units | | | 3KD9120-1 | | ■ | ■ | | |
| Slide for mounting on DIN rail as spare part | | | | | | | | | |
|  | <ul style="list-style-type: none"> Spare part included in the scope of supply for the 3KCO slide for DIN rail mounting | | | | | | | | |
| | Scope of supply | | | Article No. | | | | | |
| | 5 units | | | 3KF9112-0BA00 | | ■ | ■ | | |

3LD2 load transfer switches

Up to 250 A



| | |
|-----------------------|---|
| | Front mounting |
| | Direct operating mechanism (knob-operated mechanism) |
| Actuator color | Black |
| Locking device | 3LD23 and 3LD24 lockable with up to 3 padlocks with a hasp thickness of 4 to 6 mm (all other versions non-lockable) |
| Mounting | Four-hole mounting |
| Bridging bars | Pre-assembled |





| Rated uninterrupted current I_u (AC-21A, 380 ... 440 V) | Rated operational power (50/60 Hz, 380 ... 440 V) | | 3P | | 3P+N | |
|--|--|---------|---------------|---------------|------|--|
| | at AC-23A | at AC-3 | | | | |
| 25 A | 9.5 kW | 7.5 kW | 3LD2123-7UK01 | – | | |
| 32 A | 11.5 kW | 9.5 kW | 3LD2223-7UK01 | – | | |
| 63 A | 22.0 kW | 18.5 kW | 3LD2524-7UK01 | – | | |
| 100 A | 37.0 kW | 30.0 kW | 3LD2724-7UK01 | – | | |
| 160 A | 75 kW | 50 kW | 3LD2305-7UK01 | 3LD2305-7UL01 | | |
| 250 A | 132 kW | 110 kW | 3LD2405-7UK01 | 3LD2405-7UL01 | | |





9

Accessories

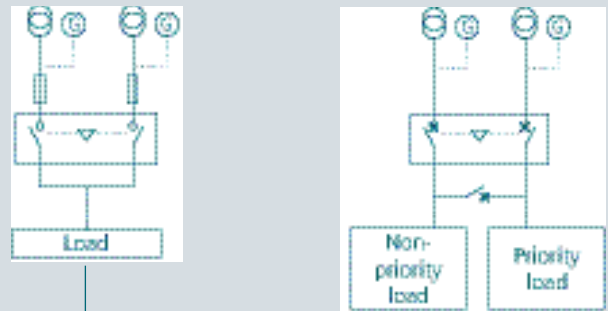
| | | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|--|------------------------------------|---------------------------|-----------------|-----------------|------------------|------------------|------------------|
| 4th contact (N conductor) | | | | | | | |
|  <ul style="list-style-type: none"> Leading switch-on, lagging switch-off Bridging bars for the switchable N pole are not included in the scope of supply | Load transfer switch design | Article No. | | | | | |
| | Front mounting | 3LD9220-0B | ■ | ■ | | | |
| | | 3LD9250-0BA | | ■ | | | |
| | | 3LD9280-0B | | | ■ | | |
| | | 3LD9240-0B | | | | ■ | |
| | | 3LD9240-0C | | | | ■ | |
| | | 3LD9240-0C | | | | ■ | |
| | | 3LD9220-0C | ■ | ■ | | | |
| | | 3LD9250-0CA ¹⁾ | | ■ | | | |
| | | 3LD9280-0C ¹⁾ | | | ■ | | |
| N or PE terminals | | | | | | | |
|  <ul style="list-style-type: none"> Through-type | Load transfer switch design | Article No. | | | | | |
| | Front mounting | 3LD9220-2B | ■ | ■ | | | |
| | | 3LD9250-2BA | | ■ | | | |
| | | 3LD9280-2B | | | ■ | | |
| | | 3LD9240-2B | | | | ■ | |
| | | 3LD9240-2C | | | | ■ | |
| | | 3LD9240-2C | | | | ■ | |

¹⁾ Can only be used as a spare part, as no additional poles can be installed in the enclosure.

| Floor mounting Door-coupling rotary operating mechanism (knob-operated mechanism) | | Molded-plastic enclosures Direct operating mechanism (knob-operated mechanism) |
|--|---------------|--|
| Black | | Black |
| Lockable in OR position with up to 3 padlocks with a hasp thickness of 4 to 6 mm | | 3LD21 and 3LD22 lockable in OR position with up to 3 padlocks with a hasp thickness of 4 to 6 mm (all other versions non-lockable) |
| Four-hole mounting | | Metric screw connection |
| Pre-assembled | | Pre-assembled |
|  | |  |
| 3P | 3P+N | 3P + N and PE base terminal |
| - | - | 3LD2165-7UB01 |
| - | - | 3LD2265-7UB01 |
| - | - | 3LD2566-7UB01 |
| - | - | 3LD2766-7UB01 |
| 3LD2318-7UK01 | 3LD2318-7UL01 | - |
| 3LD2418-7UK01 | 3LD2418-7UL01 | - |

| | | | | 3LD21 (25 A) | 3LD22 (32 A) | 3LD25 (63 A) | 3LD27 (100 A) | 3LD23 (160 A) | 3LD24 (250 A) |
|---|---|------------------------|--|---|-----------------|-----------------|------------------|------------------|------------------|
| Auxiliary switches | | | | | | | | | |
|  | <ul style="list-style-type: none"> For mounting on the left and/or right, lagging switch-on, leading switch-off For 3-pole load transfer switches only Indicate the switch position of the respective load transfer switch (I or II) to which the auxiliary switch module is connected | | | | | | | | |
| | Load transfer switch design | Contacts | Type of contact | Article No. | | | | | |
| | Front mounting | 1 NO + 1 NC | Standard Gold-plated | 3LD9200-5B 3LD9200-5BF | ■ | ■ | ■ | ■ | ■ |
| | Floor mounting and molded-plastic enclosure | 1 NO + 1 NC 2 NO | Standard Gold-plated Standard | 3LD9200-5C 3LD9200-5CF 3LD9200-6C | ■ | ■ | ■ | ■ | ■ |
| Terminal covers as additional touch protection | | | | | | | | | |
| | <ul style="list-style-type: none"> For mounting on load side only | | | | | | | | |
| | Number of poles | Scope of supply | Article No. | | | | | | |
|  | 1-pole | 4 units | 3LD9221-2A 3LD9251-2A 3LD9281-2A 3LD9241-2A | ■ | ■ | ■ | ■ | ■ | ■ |
|  | 3-pole | 4 units | 3LD9221-0A 3LD9251-0A | ■ | ■ | ■ | ■ | ■ | ■ |
| Shaft coupling | | | | | | | | | |
| | <ul style="list-style-type: none"> No ON-lock | | | | | | | | |
|  | Load transfer switch design | Article No. | | | | | | | |
| | Floor mounting | 3LD9242-4F | | | | | ■ | ■ | |

3KC ATC transfer control devices



| Version | Controllable switching devices | Interfaces | ATC3100 | ATC6300 | ATC6500 |
|---|--------------------------------|---|---------------|---------------|---------------|
| For fast parameterization without software | 2 | – | 3KC9000-8EL10 | – | – |
| For programming with user-friendly software, with programmable inputs and outputs | 2 | Optional communications interface and LCD display | – | 3KC9000-8TL40 | – |
| | 3 | Integrated RS485 interface and LCD display | – | – | 3KC9000-8TL50 |

| Further technical specifications | | ATC3100 | ATC6300 | ATC6500 |
|--|-------------------------|---|--|--|
| Application | | | | |
| Transfer between | | Network/network, network/generator | Network/network, network/generator, generator/generator | |
| Controllable switching devices | | 2 | | 3 |
| In-phase transition | | – | | Yes |
| Implementation of transfer with | | 3VA, 3VL, 3VT, 3WL, 3WT | 3WL FSI-III, 3WT, 3KC3, 3KC4, 3VA, 3VL | 3WL FSI-III, 3WL10, 3WT, 3VA |
| Measuring inputs | | | | |
| Max. rated voltage U_n | Phase-phase | 400 V AC | 480 V AC | 600 V AC |
| | Phase-neutral conductor | 230 V AC | 277 V AC | 346 V AC |
| Measuring range | Phase-phase | – | 50 ... 576 V AC | 50 ... 720 V AC |
| | Phase-neutral conductor | 161 ... 264 V AC | 50 ... 333 V AC | 30 ... 415 V AC |
| Frequency range | | 50/60 Hz | 45 ... 65 Hz | |
| Relative error of measurement method | | ±5% | ±0.25% | |
| Communication | | | | |
| Integrated RS485 interface (Modbus RTU) | | – | | Yes |
| Optional RS485 interface (Modbus RTU) | | – | Yes | Ready-integrated |
| Optional Ethernet interface (Modbus TCP) | | – | Yes | |
| Power supply | | | | |
| Auxiliary power supply | Rated voltage U_n AC | 220 ... 240 V | 100 ... 240 V | |
| | Rated voltage U_n DC | – | 110 ... 250 V | |
| | Frequency range | 50/60 Hz | 45 ... 65 Hz | |
| Battery power supply | Rated voltage U_n DC | 12/24 V | | 12/24/48 V |
| Digital inputs | | | | |
| Number of inputs | | 5 | 6 | 8 |
| Freely programmable | | – | All | |
| Relay outputs | | | | |
| Number of outputs | | 9 | 7 | |
| Freely programmable | | – | All | |
| Contact configuration | | 6× 1 NO, 8 A, 250 V AC 3× 1 NO, 16 A, 250 V AC | 6× 1 NO, 8 A, 250 V AC (AC-1) 1× 1 CO, 8 A, 250 V AC (AC-1) | 2× 1 NO, 12 A, 250 V AC (AC-1) 2× 1 NO, 8 A, 250 V AC (AC-1) 3× 1 CO, 8 A, 250 V AC (AC-1) |
| Real time clock and event log | | | | |
| ATC component | | No | Yes | |
| Operating time without voltage | | – | 300 s | 14 days |
| Max. number of events that can be stored | | – | 100 | 250 |
| Connections | | | | |
| Terminal type | | Removable/plug-in | | |
| Cable cross-section IEC | | 0.5 ... 2.5 mm ² | 0.2 ... 2.5 mm ² | |
| Enclosures | | | | |
| Version | | Door installation, standard rail mounting, floor mounting | Door installation | |
| Degree of protection | | IP41 on the front, IP20 on the rear side | IP40 on the front, IP20 on the rear side | |

Accessories for transfer control devices

3KC ATC3100 transfer switching equipment

Connecting cable for 3KC ATC3100

- Measurement and control cable for connection of 3KC ATC3100 to 3VL or 3WL

| Cable length | Article No. |
|--------------|---------------|
| 1.8 m | 3KC9000-8EL62 |

For 3KC ATC6300 and 3KC ATC6500 transfer switching equipment

Expansion modules with digital inputs and outputs



| ATC6 expansion module | Features | Article No. |
|-----------------------|---|---------------|
| 4DI | <ul style="list-style-type: none"> 4 digital inputs Including insulated 24 V DC/1 W power supply for digital inputs and sensors | 3KC9000-8TL60 |
| 4DO, SSR | <ul style="list-style-type: none"> 4 solid-state-compatible digital outputs 4 NO contacts at the solid-state-compatible output max. 55 mA at 30 V AC or 40 V DC | 3KC9000-8TL61 |
| 2DI/2DO, SSR | <ul style="list-style-type: none"> 2 digital inputs and 2 solid-state compatible digital outputs Including insulated 24 V DC/1 W power supply for digital inputs and sensors 2 NO contacts at the solid-state-compatible output max. 55 mA at 30 V AC or 40 V DC | 3KC9000-8TL62 |
| 2DO, relay | <ul style="list-style-type: none"> 2 relay outputs 2 CO contacts at relay output, 5 A, 250 V AC (AC-1) | 3KC9000-8TL63 |
| 2DI/2DO, relay | <ul style="list-style-type: none"> 2 digital inputs and 2 relay outputs 2 NO contacts at relay output, 5 A, 250 V AC (AC-1) | 3KC9000-8TL64 |

Expansion modules with communication interfaces



- Note: The 3KC ATC6500 transfer switching equipment comes with an integrated RS485 interface

| ATC6 expansion module | Features | Article No. |
|-----------------------|--|---------------|
| RS485 | <ul style="list-style-type: none"> RS485 interface | 3KC9000-8TL74 |
| Ethernet | <ul style="list-style-type: none"> Ethernet interface | 3KC9000-8TL75 |

Front interface



- For parameterization on the front using software

| ATC6 front interface | Features | Article No. |
|----------------------|---|---------------|
| USB | <ul style="list-style-type: none"> Mini-USB cable, 1.8 m | 3KC9000-8TL73 |

Protective seal



- For front IP65 protection

| Suitable for | Version | Article No. |
|--------------|--------------|---------------|
| 3KC ATC6300 | 144 × 144 mm | 3KC9000-8TL67 |
| 3KC ATC6500 | 240 × 180 mm | 3KC9000-8TL68 |



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Measuring Devices, Power Monitoring and Digitalization Solutions



| | |
|--|-------|
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- System manual – 7KT multichannel current measuring system ([109483442](#))
- Equipment manual – PAC2200 measuring device ([109746835](#))
- Equipment manual – SENTRON PAC3200 power monitoring device ([26504150](#))
- Equipment manual – PAC3200T measuring device ([109746833](#))
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- Equipment manual – 7KM PAC3120 and 7KM PAC3220 ([109767307](#))
- Communication manual – SENTRON PAC5100/5200 7KM5212/5412 ([109477870](#))
- Communication manual – 3VA with IEC and UL certification ([98746267](#))
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Technical overview – Measuring devices, power monitoring and digitalization solutions



The fast way to get you to our online services

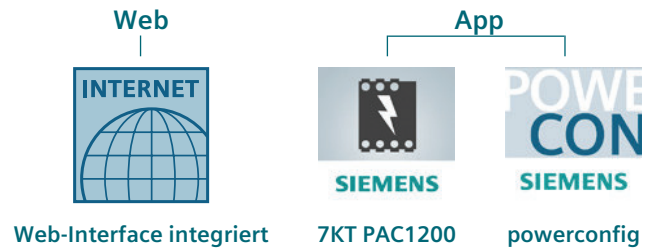
This page provides you with comprehensive information and links on measuring devices, power monitoring and digitalization solutions

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Power monitoring

Software

Local monitoring systems



Functions for power monitoring

- Commissioning of measuring devices and circuit breakers
- Displaying current data
- Displaying / evaluating current / historical values
- Prepared analyses / reports
- Customized reporting
- Data analysis in the cloud

| | | | |
|---|---|---|---|
| Commissioning of measuring devices and circuit breakers | - | - | ■ |
| Displaying current data | ■ | ■ | ■ |
| Displaying / evaluating current / historical values | ■ | ■ | ■ |
| Prepared analyses / reports | - | - | - |
| Customized reporting | - | - | - |
| Data analysis in the cloud | - | - | - |

Additionally for energy management

- Switching loads on and off

| | | | |
|----------------------------|---|---|---|
| Switching loads on and off | - | - | - |
|----------------------------|---|---|---|

Operating environment

- Use
- System requirements
- Suitable according to ISO 50001
- Connection of non-Siemens devices
- Integrated cloud interface
- More information

| | | | |
|-----------------------------------|----------------|-----------------|-----------------|
| Use | Free of Charge | Free of Charge | Free of Charge |
| System requirements | Browser | Android, iOS | Android, iOS |
| Suitable according to ISO 50001 | - | - | - |
| Connection of non-Siemens devices | - | - | - |
| Integrated cloud interface | - | - | - |
| More information | | from page 10/21 | from page 10/10 |

Measuring devices and circuit breakers

Measuring devices for industrial applications



- 7KM PAC2200
- 7KM PAC3200T
- 7KM PAC3100
- 7KM PAC3120
- 7KM PAC3200
- 7KM PAC3220
- 7KM PAC4200
- 7KM PAC5100
- 7KM PAC5200

| | | | |
|--------------|---|---|---|
| 7KM PAC2200 | ■ | - | - |
| 7KM PAC3200T | ■ | - | - |
| 7KM PAC3100 | - | - | - |
| 7KM PAC3120 | - | - | - |
| 7KM PAC3200 | - | - | ■ |
| 7KM PAC3220 | ■ | - | ■ |
| 7KM PAC4200 | ■ | - | ■ |
| 7KM PAC5100 | ■ | - | - |
| 7KM PAC5200 | ■ | - | - |

Measuring devices for buildings and infrastructure



- 7KT PAC1200
- 7KT PAC1600
- SEM3

| | | | |
|-------------|---|---|---|
| 7KT PAC1200 | ■ | ■ | - |
| 7KT PAC1600 | - | - | - |
| SEM3 | ■ | - | - |

Circuit breakers



- 3WL
- 3WL10 / 3VA27
- 3VA ETU5/8

| | | | |
|---------------|---|---|---|
| 3WL | - | - | ■ |
| 3WL10 / 3VA27 | - | - | - |
| 3VA ETU5/8 | - | - | ■ |

■ Function available □ Available with limited functionality - Function not available

| PC-basiert | | | Cloud | World of SIMATIC | |
|-----------------|---------------------------|----------------------|--------------------------------|-------------------------------|----------------------------|
| powerconfig | powermanager | 7KN Powercenter 3000 | SENTRON powermind (MindSphere) | SIMATIC TIA Portal integrated | SIMATIC TIA Portal capable |
| ■ | - | - | - | ■ | - |
| ■ | ■ | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ |
| - | ■ | - | ■ | - | - |
| - | ■ | - | ■ | - | - |
| - | ■ | - | - | - | - |
| - | ■ | - | - | ■ | ■ |
| Free of Charge | License and trial license | - | Subscription | - | - |
| Windows X64 | Windows X64 | - | Browser | - | - |
| - | ■ (TÜV) | ■ | ■ | - | - |
| - | ■ | ■ | ■ | - | - |
| - | ■ | ■ | ■ | - | - |
| from page 10/10 | from page 10/11 | from page 10/16 | from page 10/14 | | |
| ■ | ■ | ■ | ■ | - | - |
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| ■ | ■ | ■ | ■ | ■ | - |
| ■ | ■ | - | - | - | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ |

Hardware components

Industry

7KM
PAC22007KM
PAC3200T7KM
PAC31007KM PAC3120
new7KM
PAC32007KM PAC3220
new

| Installation type | 7KM PAC2200 | 7KM PAC3200T | 7KM PAC3100 | 7KM PAC3120 new | 7KM PAC3200 | 7KM PAC3220 new |
|--|----------------|----------------|----------------|-----------------|-----------------------------|-----------------|
| Front mounting Standard mounting rail Screw mounting | - ■ - | - ■ - | ■ - - | ■ - - | ■ - - | ■ - - |
| Withdrawable Fixed-mounted | - - | - - | - - | - - | - - | - - |
| Measuring connection | | | | | | |
| Direct measurement | ■ | - | - | - | - | - |
| Transformer measurement | ■ | ■ | ■ | ■ | ■ | ■ |
| Multichannel measuring system | - | - | - | - | - | - |
| Suitable transformers | | | | | | |
| Window-type current transformers | ■ | ■ | ■ | ■ | ■ | ■ |
| Folding transformer | ■ | ■ | ■ | ■ | ■ | ■ |
| Integrated transformer | - | - | - | - | - | - |
| Commissioning | | | | | | |
| MID version | ■ | - | - | - | - | - |
| Max. input voltage L-L/L-N | 480 V / 277 V | 480 V / 277 V | 480 V / 276 V | 690 V / 400 V | 690 V / 400 V ¹⁾ | 690 V / 400 V |
| Transformer connection version | x/1 A or x/5 A | x/1 A or x/5 A | x/5 A | x/1 A or x/5 A | x/1 A or x/5 A | x/1 A or x/5 A |
| Direct connection version | 65 A | - | - | - | - | - |
| DC power supply unit with extra-low voltage version | - | - | - | 22 ... 65 V DC | 22 ... 65 V DC | 22 ... 65 V DC |
| Single-phase counter version | ■ | - | - | - | - | - |
| Electrically isolated voltage inputs | - | - | - | - | - | - |
| Version without display (for web interface) | - | ■ | - | - | - | - |
| Evaluation | | | | | | |
| Measured quantities | | | | | | |
| Average value of measured values | ■ | ■ | - | ■ | - | ■ |
| Voltage, current, frequency | ■ | ■ | ■ | ■ | ■ | ■ |
| Power, power factor | ■ | ■ | ■ | ■ | ■ | ■ |
| Energy measurement | | | | | | |
| Daily energy storage | 60 days | 60 days | - | 60 days | - | 60 days |
| Apparent Active Reactive energy cos φ | ■ ■ ■ - | ■ ■ ■ - | - ■ ■ - | ■ ■ ■ - | ■ ■ ■ - | ■ ■ ■ - |
| Distortion factor THD (voltage, current) | - | ■ | - | ■ | ■ (THD indication) | ■ |
| Harmonics (voltage, current) | - | - | - | - | - | - |
| Phase angle/phase chart | - | - | - | - | - | - |
| Load profile recording | - | - | - | - | - | - |
| Flicker acc. to IEC 61000-4-15 | - | - | - | - | - | - |
| Monitoring functions | | | | | | |
| Operating hours counter | ■ | ■ | - | ■ | ■ | ■ |
| Limit monitoring | - | ■ | - | ■ | ■ | ■ |
| Logic functions | - | ■ | - | ■ | ■ | ■ |
| Event log | - | - | - | - | - | - |
| Gateway function | - | - | - | - | - | - |
| Reporting acc. to EN 50160 | - | - | - | - | - | - |
| Integrated fault recorder | - | - | - | - | - | - |
| Integrated communication interfaces | | | | | | |
| Digital inputs/digital outputs | 1/1 | 1/1 | 2/2 | 2/2 | 1/1 | 2/2 |
| S0-Interface | ■ | ■ | ■ | ■ | ■ | ■ |
| M-Bus | ■ | - | - | - | - | - |
| RS485 (Modbus RTU) | ■ | - | ■ | ■ | - | - |
| Ethernet with Modbus TCP | ■ | ■ | - | - | ■ | ■ |
| BACnet | - | - | - | - | - | - |
| More information | | | | | | |
| Catalog LV 10 | See page 10/16 | See page 10/16 | See page 10/16 | See page 10/16 | See page 10/16 | See page 10/16 |

¹⁾ For devices with AC/DC wide-voltage power supply unit

Industry

Buildings and infrastructure

Circuit breakers



| 7KM PAC4200 | 7KM PAC5100 | 7KM PAC5200 | 7KT PAC1200 | 7KT PAC1600 | SEM3 | 3WL | 3WL10 / 3VA27 | 3VA ETU8 |
|---|-------------------------------|-------------------------------|----------------------|----------------------|----------------------------------|---------------------------|---------------------------|---------------------------|
| ■ - - | ■ ■ - | ■ ■ - | - ■ - | - ■ - | - - ■ | - - - | - - - | - - - |
| - - | - - | - - | - - | - - | - - | ■ ■ | ■ ■ | - ■ |
| - | - | - | ■ | ■ | - | - | - | - |
| ■ | ■ | ■ | ■ | ■ | - | - | - | - |
| - | - | - | ■ | - | ■ | - | - | - |
| ■ | ■ | ■ | ■ | ■ | ■ | - | - | - |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| - | - | - | - | ■ | - | - | - | - |
| 690 V/400 V ¹⁾ x/1 A or x/5 A | 690 V/400 V x/1 A or x/5 A | 690 V/400 V x/1 A or x/5 A | 400 V/230 V x/5 A | 400 V/230 V x/5 A | 480 V/277 V 50...1200 A/0.1 A | 690 V/400 V integrated | 690 V/400 V integrated | 690 V/400 V integrated |
| - | - | - | 40/63 A | 63/80 A | - | - | - | - |
| 22 ... 65 V DC | - | - | - | - | - | 24 V DC | 24 V DC | 24 V DC |
| - | - | - | ■ | ■ | ■ | - | - | - |
| - | ■ | ■ | - | - | - | - | - | - |
| - | ■ | ■ | ■ | - | ■ | - | - | - |
| ■ | - | - | - | - | - | ■ | - | - |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| - | - | - | - | - | - | - | - | - |
| ■ ■ ■ ■ | ■ ■ ■ ■ | ■ ■ ■ ■ | - ■ ■ - | ■ ■ ■ - | ■ ■ ■ ■ | ■ ■ ■ ■ | ■ ■ ■ ■ | ■ ■ ■ ■ |
| ■ | ■ | ■ | - | - | - | ■ | - | - |
| 2nd to 64th | 2nd to 40th | 2nd to 40th | - | - | - | 2nd to 29th | - | - |
| ■ | ■ | ■ | - | - | - | ■ | ■ | ■ |
| ■ | - | ■ | - | - | ■ | ■ | ■ | ■ |
| - | - | ■ | - | - | - | - | - | - |
| ■ | - | - | - | ■ | - | ■ | - | ■ |
| ■ | ■ | ■ | - | ■ | - | ■ | ■ | ■ |
| > 4000 events | ■ | ■ | - | - | ■ | ■ | ■ | ■ |
| ■ | - | ■ | - | - | - | - | - | - |
| ■ | - | ■ | - | - | - | - | - | - |
| ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ |
| - | - | - | - | - | ■ | - | - | - |
| 2/2 | 0/2 | 0/2 | - | 1/1 | 2/1 | ■ | ■ | ■ |
| ■ | - | - | - | ■ | - | - | - | ■ |
| - | - | - | - | ■ | - | - | - | - |
| - | - | - | - | ■ | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | - | ■ | ■ | ■ | ■ |
| - | - | - | - | - | ■ | - | - | - |

See page 10/16 See page 10/16 See page 10/16 See page 10/20 See page 10/20 See page 10/22 See page 1/4 See page 1/4
See page 2/12

Accessories

Communication modules



7KM Switched Ethernet
PROFINET / Modbus TCP

7KM PROFIBUS DP

7KM RS485
Modbus RTU

Industry

| | | | | |
|--|------------------------|---|---|---|
| | 7KM PAC2200 | - | - | - |
| | 7KM PAC3200T | - | - | - |
| | 7KM PAC3100 | - | - | - |
| | 7KM PAC3120 new | - | - | - |
| | 7KM PAC3200 | ■ | ■ | ■ |
| | 7KM PAC3220 new | ■ | ■ | ■ |
| | 7KM PAC4200 | ■ | ■ | ■ |
| | 7KM PAC5100 | - | - | - |
| | 7KM PAC5200 | - | - | - |

Buildings and infrastructure

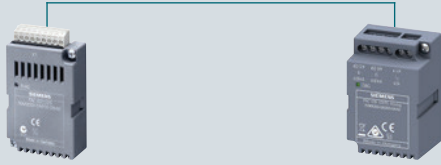
| | | | | |
|--|-------------|---|---|---|
| | 7KT PAC1200 | - | - | - |
| | 7KT PAC1600 | - | - | - |
| | SEM3 | - | - | - |

Circuit breakers

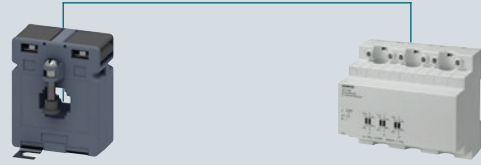
| | | | | |
|--|---------------|---|---|---|
| | 3WL | - | - | - |
| | 3WL10 / 3VA27 | - | - | - |
| | 3VA ETU5/8 | ■ | ■ | ■ |

10

Expansion modules



Current transformers



7KM PAC
4DI/2DO

7KM PAC
I(N), I(Diff), analog

4NC
Current transformers

7KT
Current transformers

| 7KM PAC 4DI/2DO | 7KM PAC I(N), I(Diff), analog | 4NC Current transformers | 7KT Current transformers |
|--------------------|----------------------------------|-----------------------------|-----------------------------|
| - | - | ■ | ■ |
| - | - | ■ | ■ |
| - | - | ■ | ■ |
| - | - | ■ | ■ |
| - | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ |
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| - | - | - | - |

powerconfig

PC-based software for commissioning and maintenance

powerconfig is available free of charge at www.siemens.com/powerconfig

You can find more information on the Internet at www.siemens.com/sentron

Free download SENTRON powerconfig mobile via:



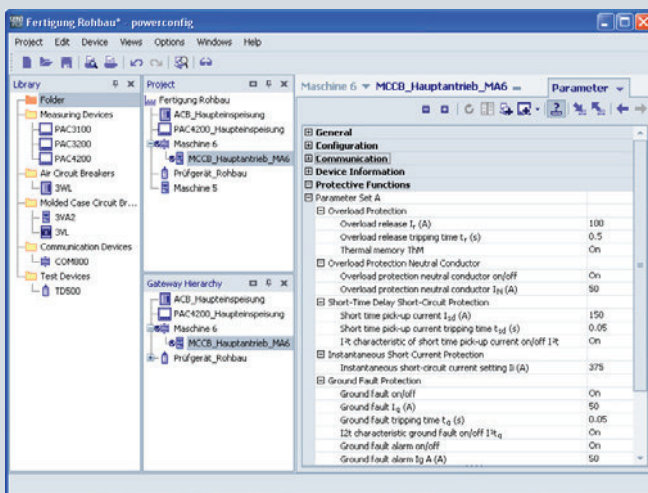
App Store



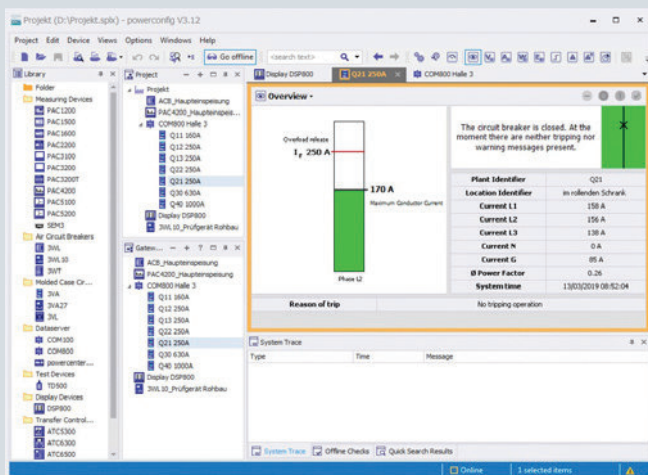
Play Store

- PC-based software tool for the efficient commissioning and diagnostics of communication-capable SENTRON components
- Supports all PAC measuring devices incl. expansion modules, 3WL/3VA circuit breakers and further communication-capable components, e.g. ATC6300
- Service functions:
 - Firmware updates
 - Switching of language packs for 7KM PAC measuring devices
- General range of functions:
 - Facilitates the parameterization of the devices
 - Saving and printing of device settings
 - Monitoring, saving and printing of instantaneous measured quantities
 - Execution of specific device functions, such as resetting of devices and setting of energy counters
- Additional functional scope with 7KM PAC4200 and 3VA:
 - Readout of data stored in the device (events, load profile history, daily energy counters)
 - Saving in csv format

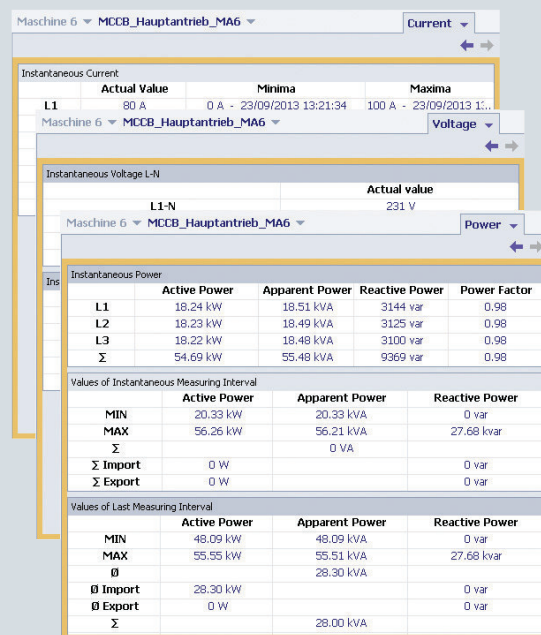
10



Setting of parameter values



Display of the circuit breaker state



Display of actual measured quantities

powermanager V3

PC-based power monitoring software



New in powermanager 3.6

- Support of new devices:
 - PAC3120
 - PAC3220 with firmware V2.1

| Version | Description | Article No. |
|---|--|--------------------|
| powermanager V3.5 | | |
| Basic Package | Full product license for up to 10 devices, installation for client/server, web access | 3ZS2711-0CC30-0YA0 |
| Trial license | Full product license limited to 60 days for up to 10 devices, incl. "Expert" and "Web" option packs Available free of charge at https://support.industry.siemens.com/cs/ww/en/view/64850998 | |
| V3.x device expansions | | |
| Device Pack (20) | Device expansion license for up to 20 devices | 3ZS2711-0CC30-0YD0 |
| Device Pack (50) | Device expansion license for up to 50 devices | 3ZS2712-0CC30-0YD0 |
| Device Pack (100) | Device expansion license for up to 100 devices | 3ZS2713-0CC30-0YD0 |
| Device Pack (200) | Device expansion license for up to 200 devices | 3ZS2714-0CC30-0YD0 |
| Device Pack (500) | Device expansion license for up to 500 devices | 3ZS2715-0CC30-0YD0 |
| Device Pack (1000) | Device expansion license for up to 1000 devices | 3ZS2716-0CC30-0YD0 |
| Option packs | | |
| "Expert" option pack | Option for creating/presenting any number of freely configured images | 3ZS2710-2CC30-0YH0 |
| "Client (5)" option pack | Expansion for up to 5 clients | 3ZS2710-3CC00-0YD0 |
| "Distributed Systems (2)" option pack | Option for the connection of 2 autonomous powermanager systems for the exchange of measured values and alarms | 3ZS2718-1CC00-0YH0 |
| "Distributed Systems (5)" option pack | Option for the connection of 5 autonomous powermanager systems for the exchange of measured values and alarms | 3ZS2718-2CC00-0YH0 |
| „Distributed Systems (10)“ option pack | Option for the connection of 10 autonomous powermanager systems for the exchange of measured values and alarms | 3ZS2718-3CC00-0YH0 |
| „OPC UA Server“ option pack | Option pack for data exchange with other processing platforms via OPC UA | 3ZS2710-4CC30-0YD0 |
| Update powermanager V2.0 to V3.0 | | |
| Update license | From V2.0 Lean to V3.x (10) | 3ZS2711-0CC30-0YE0 |
| Update license | From V2.0 Standard to V3.x (50) | 3ZS2712-0CC30-0YE0 |
| Update license | From V2.0 Maximum to V3.x (100) | 3ZS2713-0CC30-0YE0 |
| Update license | From V2.0 Maximum to V3.x (200) | 3ZS2714-0CC30-0YE0 |
| System packages | | |
| System 1 | Package comprising 1× powermanager Basic Package 1× PAC4200 (+ RS485 module) and 1× PAC3100 | 3ZS2812-5CC20-0AY0 |
| System 3 | Package comprising 1× powermanager Basic Package 3× PAC 3200 | 3ZS2813-2CC20-0YA0 |
| System 4 | Package comprising 1× powermanager Basic Package 1× PAC4200 4× PAC1600 1× RS485 module | 3ZS2812-7CC20-0YA0 |
| System 5 | Package comprising 1× powermanager Basic Package 5× PAC2200 transformer measurement Modbus TCP | 3ZS2812-8CC20-0YA0 |

powermanager V4 **new**

PC-based power monitoring software



SENTRON powermanager V4.2

SENTRON powermanager V4.1 is based on a new platform with advanced graphical capabilities and a standard SQL database. The workflows for setting up the system, creating devices, graphically displaying the device data and processing it in reports have been fundamentally revised. Unlike with V4.1, PAC3120 and PAC3220 are now also supported.

The migration of existing powermanager V3.x projects will be supported as of a future powermanager version.

You can find more information on the Internet at www.siemens.com/powermanager

You can find training courses on the Internet at www.siemens.com/sitrain-lowvoltage

| Version | Description | Article No. |
|-----------------------------------|---|--------------------|
| powermanager V4.1 | | |
| Extended Package | Full product license for up to 10 devices, installation for client/server, web access Download via SIOS Portal https://support.industry.siemens.com | 7KN2710-2CE40-0YCO |
| Device expansions | | |
| Device Pack (20) | Device expansion license for up to 20 devices | 7KN2711-1CE40-0YCO |
| Device Pack (50) | Device expansion license for up to 50 devices | 7KN2711-2CE40-0YCO |
| Device Pack (100) | Device expansion license for up to 100 devices | 7KN2711-3CE40-0YCO |
| Device Pack (200) | Device expansion license for up to 200 devices | 7KN2711-4CE40-0YCO |
| Device Pack (500) | Device expansion license for up to 500 devices | 7KN2711-5CE40-0YCO |
| Device Pack (1000) | Device expansion license for up to 1000 devices | 7KN2711-6CE40-0YCO |
| Option packs | | |
| "Graphics Editor" option pack | Option for creating/presenting any number of freely configured images | 7KN2712-0CE40-0YCO |
| "Client (2)" option pack | Expansion for up to 2 clients | 7KN2712-1CE40-0YCO |
| "Client (5)" option pack | Expansion for up to 5 clients | 7KN2712-2CE40-0YCO |
| "powermanager Server" option pack | Additionally, powermanager server license for distributed systems without devices, web, etc. | 7KN2712-4CE40-0YCO |
| System packages | | |
| System 1 | Package comprising 1× powermanager Extended 1× PAC4200 1× PAC3120 1× RS485 modules | 7KN2715-1CE40-0YCO |
| System 3 | Package comprising 1× powermanager Extended 3× PAC3220 | 7KN2715-3CE40-0YCO |
| System 4 | Package comprising 1× powermanager Extended 1× PAC4200 4× PAC1600 1× RS485 module | 7KN2715-4CE40-0YCO |
| System 5 | Package comprising 1× powermanager Extended 5× PAC2200 transformer measurement Modbus TCP | 7KN2715-5CE40-0YCO |

7KN Powercenter **new**

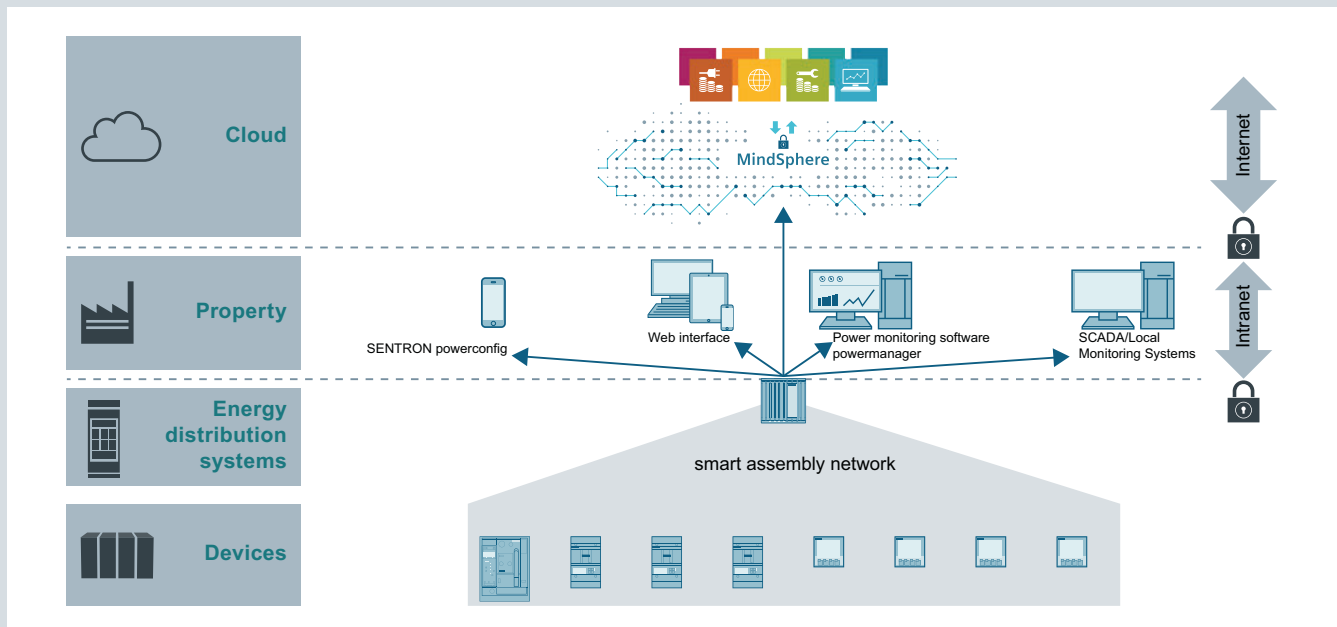
Edge/IoT-based data acquisition and visualization for low-voltage power distribution

7KN Powercenter 3000

- Offers a range of interfaces for the digitalization of low-voltage power distribution
 - One web interface for a clear overview of all connected devices
 - Very simple communication with the SENTRON MindSphere application. See MindSphere Apps
 - Low-voltage power distribution data interface to MindSphere, the IoT operating system from Siemens
 - Communication interface via Modbus TCP for diverse applications, e.g. powermanager
- Provision of the 15 min energy values over 14 months for the connected devices as a basis for energy management according to ISO 50001.
- Event message via email and web interface
- Flexible IT security features for protection against unauthorized access
- Easy commissioning using powerconfig
- Compact design, 24 V DC supply

You can find more information on the Internet at www.siemens.com/powermonitoring

| Mounting | Interfaces | Protocols | Article No. |
|------------------------|-------------|------------------------------|--------------------|
| Standard rail mounting | 2× Ethernet | Modbus TCP, http, MindSphere | 7KN1310-0MC00-0AA8 |



Application areas 7KN Powercenter 3000

SENTRON powermind **new**

Cloud-based solution for data visualization and analysis in power distribution systems



SENTRON powermind permits cloud-based visualization of data from your power distribution system. The following views are available as part of this application:

- Current power consumptions and power factor
- Historical energy values and power demand (with comparison function) in load curves and bar charts

This solution is especially aimed at small and mid-size enterprises to provide transparency in the power distribution system. No specific domain know-how is required. It is also used as the basis for a power audit or certification according to ISO 50001. This user-friendly application allows even inexperienced and new users to analyze and optimize the energy and power consumption.

You can find more information on the MindSphere Store at www.dex.siemens.com/mindsphere/applications

SIMATIC Energy Suite

For integrated energy management

Highlights

- Simple and intuitive configuration instead of programming
- Automatic generation of the PLC energy program
- Convenient integration of measuring components from the Siemens portfolio and from other manufacturers
- Integrated into the TIA Portal and the automation system
- Archiving in WinCC Professional or PLC
- Seamless interfacing to Energy Manager PRO and Energy
- Analytics

Additional information on the SIMATIC Energy Suite:

www.siemens.com/energysuite

SIMATIC Modbus/TCP SENTRON PAC

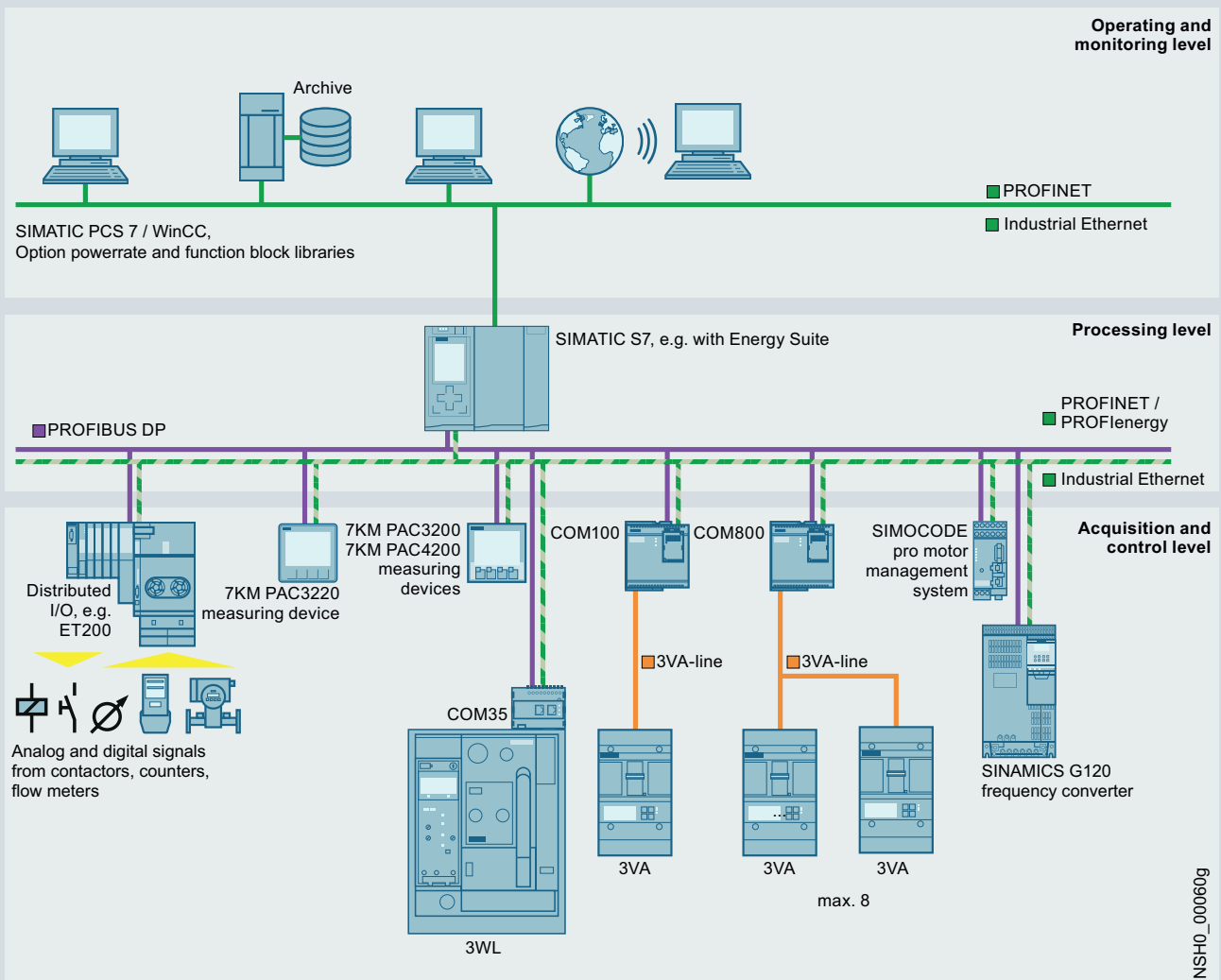
For 7KM PAC3200/4200 measuring devices

| Use and version | Valid for | Type | Article No. |
|---|----------------------------------|----------------------------|--------------------|
| Communication via the integrated PN interface for reading values out of PAC 3200 and PAC PAC 4200 devices, single license | 1 CPU and up to 20 SENTRON PACs | Modbus/TCP 20 SENTRON PAC | 6AV6676-6MA30-0AX0 |
| | 1 CPU and up to 100 SENTRON PACs | Modbus/TCP 100 SENTRON PAC | 6AV6676-6MA30-1AX0 |
| | 1 CPU and up to 512 SENTRON PACs | Modbus/TCP 512 SENTRON PAC | 6AV6676-6MA30-2AX0 |

PAC/3WL/3VA SIMATIC PCS 7 library

For 7KM PAC3200/3220/4200 measuring devices and 3WL/3VA/3VL circuit breakers

| Application | Version | Type of delivery | Article No. |
|--|---|---|--------------------|
| PAC/3WL/3VA SIMATIC PCS 7 library <ul style="list-style-type: none"> AS blocks and faceplates for integrating the 3WL/3VA/3VL circuit breakers into SIMATIC PCS 7, V8.x or V9.0 SP2 For each SIMATIC PCS 7 Operator Station of the single station/server version, a license containing the following is required: <ul style="list-style-type: none"> Engineering license for one SIMATIC PCS 7 Operator Station of the single station/server version Runtime license for one automation system (1 required per automation system, further AS runtime licenses can be ordered separately) | Engineering and runtime software, software class A, 2-language (English, German), single license for one installation | Software and electronic documentation on DVD, engineering and runtime license as Certificate of License | 3ZS2787-1CC30-0YG0 |
| AS runtime license for PAC/3WL/3VA library for SIMATIC PCS 7 License for one automation system in each case | Runtime software, software class A, 2-language (English, German), single license for one installation | Runtime license as Certificate of License without software and documentation | 3ZS2787-1CC30-6YH0 |



7KM PAC measuring devices

Basic units



| Connections | Power supply | Display | Interface | MID | 7KM PAC2200 | 7KM PAC3200T | 7KM PAC3100 | 7KM PAC3120 new | | |
|--------------------------------|--------------------------------------|---------|---|---------|--------------------|--------------|--------------------|------------------------|--------------------|--------------------|
| Transformer measurement | | | | | | | | | | |
| Screw terminals | Self-powered | With | M-Bus | With | 7KM2200-2EA30-1GA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA30-1CA1 | – | – | – | | |
| | | | Modbus RTU | With | 7KM2200-2EA30-1HA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA30-1DA1 | – | – | – | | |
| | | | Modbus TCP | With | 7KM2200-2EA30-1JA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA30-1EA1 | – | – | – | | |
| | | | AC/DC wide-voltage power supply unit | With | Modbus RTU | Without | – | – | 7KM3133-0BA00-3AA0 | 7KM3120-0BA01-1DA0 |
| | | | | | | Without | – | – | – | – |
| | | | | Without | Modbus TCP | Without | – | 7KM3200-0CA01-1AA0 | – | – |
| | | | DC power supply unit with extra-low voltage | With | Modbus TCP | Without | – | – | – | – |
| Without | – | – | | | | – | 7KM3120-1BA01-1EA0 | | | |
| Ring cable lug connection | AC/DC wide-voltage power supply unit | With | Modbus TCP | Without | – | – | – | – | | |
| Direct measurement | | | | | | | | | | |
| Screw terminals | Self-powered | With | M-Bus | With | 7KM2200-2EA40-1GA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA40-1CA1 | – | – | – | | |
| | | | Modbus RTU | With | 7KM2200-2EA40-1HA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA40-1DA1 | – | – | – | | |
| | | | Modbus TCP | With | 7KM2200-2EA40-1JA1 | – | – | – | | |
| | | | | Without | 7KM2200-2EA40-1EA1 | – | – | – | | |

Further technical specifications

| | 7KM2200-.. | 7KM3200-.. | 7KM3133-.. | 7KM3120-0.. | 7KM3120-1.. |
|--|------------|------------|------------|-------------|-------------|
|--|------------|------------|------------|-------------|-------------|

Basic data

| | | | | | |
|----------------------------|------------------------|---|----------------|--------------------|--------------------|
| Installation | Standard mounting rail | | Front mounting | | |
| Mounting width | 6 MW | | – | | |
| Control panel instrument | – | | 96 × 96 mm | | |
| External auxiliary voltage | 50/60 Hz AC | – | 90 ... 276 V | 100 ... 240 V ±10% | 100 ... 250 V ±10% |
| | DC | – | 110 ... 275 V | 110 ... 250 V ±10% | 24 ... 60 V ±20% |

Measuring inputs

| | | | | |
|------------------------|-----------------------------------|----------------|-------|----------------|
| Transformer connection | Secondary input current I_e | x/1 A or x/5 A | x/5 A | x/1 A or x/5 A |
| Direct connection | Input voltage U_e 3 AC 50/60 Hz | 480/277 V | | 690/400 V |
| | Rated current I_n | 65 A | – | |



7KM PAC3200

7KM PAC3220 **new**

7KM PAC4200

7KM PAC5100

7KM PAC5200

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| 7KM2112-0BA00-3AA0 | 7KM3220-0BA01-1DA0 | 7KM4212-0BA00-3AA0 | 7KM5212-6BA00-1EA2 | 7KM5412-6BA00-1EA2 |
| - | - | - | 7KM5212-6CA00-1EA8 | 7KM5412-6CA00-1EA8 |
| 7KM2111-1BA00-3AA0 | 7KM3220-1BA01-1EA0 | 7KM4211-1BA00-3AA0 | - | - |
| 7KM2112-0BA00-2AA0 | - | 7KM4212-0BA00-2AA0 | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |
| - | - | - | - | - |

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7KM2112-.. 7KM2111-.. 7KM3220-0.. 7KM3220-1.. 7KM4212-.. 7KM4211-.. 7KM5212- 7KM5412

Front mounting Front mounting/standard mounting rail

96 × 96 mm

95 ... 240 V ±10% - 100 ... 250 V ±10% - 95 ... 240 V ±10% - 110 ... 230 V ±10%

110 ... 340 V ±10% 22 ... 65 V ±10% 100 ... 250 V ±10% 24 ... 60 V ±20% 110 ... 340 V ±10% 22 ... 65 V ±10% 24 ... 250 V ±10%

x/1 A or x/5 A

690/400 V 400/230 V 690/400 V 500/289 V 690/400 V

-

7KM PAC measuring devices

Accessories

7KM PAC3100
7KM PAC3120
7KM PAC3200
7KM PAC3220
7KM PAC4200

7KM PAC TMP2 standard mounting rail adapter



- Two-tier adapter for mounting a measuring device on a standard mounting rail
- Front display
- For manual intervention

7KM9900-0XA00-0AA0

7KM PAC TMP mounting plate



- Adapter for mounting a measuring device on standard mounting rail
- Display faces backwards towards standard mounting rail
- Readout and evaluation of measurements solely via mains operation

7KM9900-0YA00-0AA0

Compact holder



- Device holder for 7KM PAC3100 /3120/3200/3220/4200
- 10 holders for 5 PAC devices
- For seamless side-by-side mounting of the devices (without spaces)

7KM9900-0GA00-0AA0






Spare parts 7KM PAC



- Spare parts comprising:
 - Device holders for panel mounting (2X)
 - Screw terminal for connection of voltage inputs
 - Screw terminal for connection of current inputs
 - Terminal block inputs/outputs for 7KM PAC3100/4200
 - Terminal block inputs/outputs for 7KM PAC3200
 - RS485 terminal blocks for 7KM PAC3100

7KM9900-0SA00-0AA0

Expansion and communication modules

| | 7KM PAC3200 | 7KM PAC3220 7KM PAC4200 | COM100/800 (3VA) |
|--|--------------------|----------------------------------|------------------|
| 7KM Switched Ethernet PROFINET communication module | | | |
|  <ul style="list-style-type: none"> • Latest PROFINET switching properties • S2 system redundancy for operation in H systems • CIR Configuration in Run • Firmware update via the modules for PAC4200 and PAC3220 | | | |
| | | 7KM9300-0AE02-0AA0 | |
| 7KM PROFIBUS DP communication module | | | |
|  | | 7KM9300-0AB01-0AA0 | |
| 7KM RS485 communication module | | | |
|  | | 7KM9300-0AM00-0AA0 ¹⁾ | |
| 7KM PAC 4DI/2DO expansion module | | | |
|  | – | 7KM9200-0AB00-0AA0 | – |
| 7KM PAC I(N), I(Diff), analog expansion module | | | |
|  <ul style="list-style-type: none"> • To add the following functions to the measuring inputs: <ul style="list-style-type: none"> – N conductor measurement – Two analog inputs, also for measuring non-electrical quantities such as temperature, water or air pressure – Residual current measurement via type A or type B summation current transformers | | | |
| | 7KM9200-0AD00-0AA0 | 7KM9200-0AD00-0AA0 | – |

¹⁾ Suitable for 7KM PAC4200 (especially for the Modbus TCP/RTU Gateway)

Residual-current transformers for 7KM PAC I(N), I(Diff), analog expansion module, [see page 11/1](#)

7KT PAC measuring devices

Basic unit PAC1600



| Connections | Version | Power supply | Display | Interface | MID | 7KT PAC1600 | |
|--------------------------------|---------------------------|---|--------------|--------------|------------|-------------|---------|
| Transformer measurement | | | | | | | |
| Screw terminals | 3-phase | Self-powered | With | Modbus RTU | Without | 7KT1661 | |
| | | | | | With | 7KT1662 | |
| | | | | M-Bus | Without | 7KT1663 | |
| | | | | | With | 7KT1664 | |
| | | | | SO-Interface | Without | 7KT1672 | |
| | With | 7KT1673 | | | | | |
| | 3-phase, universal | Auxiliary power: 100 ... 240 V AC, 110 ... 250 V DC 50/60Hz | With | - | Without | 7KT1681 | |
| | | | | | Modbus RTU | Without | 7KT1682 |
| | Direct measurement | | | | | | |
| | Screw terminals | 1-phase | Self-powered | With | Modbus RTU | Without | 7KT1651 |
| With | | | | | | 7KT1652 | |
| M-Bus | | | | | Without | 7KT1653 | |
| | | | | | With | 7KT1654 | |
| SO-Interface | | | | | Without | 7KT1655 | |
| | | | | | With | 7KT1656 | |
| 3-phase | | Self-powered | With | Modbus RTU | Without | 7KT1665 | |
| | | | | | With | 7KT1666 | |
| | | | | M-Bus | Without | 7KT1667 | |
| | | | | | With | 7KT1668 | |
| | | | | SO-Interface | Without | 7KT1670 | |
| | | | | | With | 7KT1671 | |

PAC1200 multichannel current measuring system

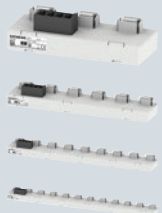


| Connections | Version | Power supply | Display | Interface | MID | 7KT PAC1200 |
|---------------------------|---------|--------------|---------|------------|---------|-------------|
| Direct measurement | | | | | | |
| Screw terminals | 3-phase | Self-powered | Without | Modbus TCP | Without | 7KT1260 |

PAC1200

7KT PAC1200

Data manager with 7KT1260, sensor bars



| Number of connections | Article No. |
|-----------------------|-------------|
| 3 | 7KT1233 |
| 6 | 7KT1236 |
| 9 | 7KT1238 |
| 12 | 7KT1242 |

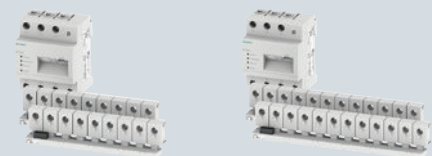
Data manager with 7KT1260, sensors



| Current I _e | Article No. |
|------------------------|-------------|
| 40 A | 7KT1254 |
| 63 A | 7KT1255 |

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PAC1200 Bundles



| Data manager | Sensor bars | Sensors | 18 bundle | 24 bundle |
|-------------------------|--------------------------|--------------------------|-----------|-----------|
| 1× data manager 7KT1260 | 2× 9-sensor bar 7KT1238 | 18× sensors 40 A 7KT1254 | 7KT1222 | – |
| 1× data manager 7KT1260 | 2× 12-sensor bar 7KT1242 | 24× sensors 40 A 7KT1254 | – | 7KT1223 |

SEM3 multichannel current measuring system

Data manager



| Connections | Version | Power supply | Display | Interface | MID | |
|--------------------------------|---------|--------------|---------|--------------------------------|---------|--------------------|
| Transformer measurement | | | | | | |
| Screw terminals | 3-phase | Self-powered | Without | Modbus TCP RS485 Modbus RTU | Without | US2:SEM3CONTROLLER |

Further technical specifications

SEM3

| | |
|--------------------------------|-----------------------|
| Basic data | |
| Installation | Screw mounting |
| Measuring inputs | |
| Max. input voltage 50/60 Hz AC | 480 V / 277 V |
| Standard current transformers | 50 ... 1200 A / 0.1 A |
| Folding transformer | 50 ... 2000 A / 0.1 A |

Accessories

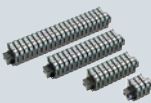
Metering modules



- For recording measured values
- Accuracy of 0.2% or 1% for the entire measurement including current transformer
- Simple setting of phase configuration by means of slide switch
- Connection of a current transformer for measuring a phase
- Metering module is plugged into meter rack

| Measuring accuracy | Article No. |
|--------------------|------------------|
| 0.2% | US2:SEM3PHAMETER |
| 1% | US2:SEM3PLAMETER |

Meter racks



| Version | Article No. |
|-------------------------|----------------|
| For 3 metering modules | US2:SEM3RACK3 |
| For 9 metering modules | US2:SEM3RACK9 |
| For 15 metering modules | US2:SEM3RACK15 |
| For 21 metering modules | US2:SEM3RACK21 |

Connecting cables



- 600 V insulated special cable for connecting meter racks to the data manager

| Length | Article No. |
|--------|-------------------|
| 0.3 m | US2:SEM3CAB12INCH |
| 0.6 m | US2:SEM3CAB24INCH |
| 0.9 m | US2:SEM3CAB36INCH |

Standard current transformers



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

| Output signal | Transformer transmission ratio | Article No. |
|---------------|--------------------------------|------------------|
| 100 mA | 50 : 0.1 | US2:SEM3SCCT50 |
| | 125 : 0.1 | US2:SEM3SCCT125 |
| | 250 : 0.1 | US2:SEM3SCCT250 |
| | 400 : 0.1 | US2:SEM3SCCT400 |
| | 600 : 0.1 | US2:SEM3SCCT600 |
| | 800 : 0.1 | US2:SEM3SCCT800 |
| | 1200 : 0.1 | US2:SEM3SCCT1200 |

Folding transformers **new**



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

| Output signal | Transformer transmission ratio | Article No. |
|---------------|--------------------------------|---------------|
| 100 mA | 50 : 0.1 | 7KT1280-5MA00 |
| | 125 : 0.1 | 7KT1280-5MA01 |
| | 250 : 0.1 | 7KT1280-5MA02 |
| | 400 : 0.1 | 7KT1280-5MA03 |
| | 600 : 0.1 | 7KT1280-5MA04 |
| | 800 : 0.1 | 7KT1280-5MA05 |
| | 1200 : 0.1 | 7KT1280-5MA06 |
| | 1600 : 0.1 | 7KT1280-5MA07 |
| 2000 : 0.1 | 7KT1280-5MA08 | |

DIN rail adapters **new**



| Article No. |
|----------------|
| US2:SEM3DINKIT |

Time and pulse counters

Mechanical counting mechanisms



| Display | Resetting | Rated frequency | Rated control supply voltage U_c | 48 × 48 mm | 72 × 72 mm | – |
|----------------------|-----------|-----------------|------------------------------------|------------|------------|---------|
| Time counter | | | | | | |
| 00000.00 h | Without | – | 10 ... 80 V DC | 7KT5500 | – | – |
| | | | 10 ... 50 V DC | – | 7KT5600 | – |
| | | | 12 ... 24 V DC | – | – | 7KT5801 |
| | | 50 Hz | 24 V AC | 7KT5505 | – | 7KT5802 |
| | | | 115 V AC | 7KT5501 | 7KT5601 | 7KT5803 |
| | | | 230 V AC | 7KT5502 | 7KT5602 | 7KT5804 |
| | | 60 Hz | 115 V AC | 7KT5503 | 7KT5603 | 7KT5806 |
| | | | 230 V AC | 7KT5504 | 7KT5604 | 7KT5807 |
| Pulse counter | | | | | | |
| 0000000 | Without | – | 12 ... 24 V DC | – | – | 7KT5811 |
| | | 50/60 Hz | 24 V AC | – | – | 7KT5812 |
| | | | 230 V AC | – | – | 7KT5814 |

Further technical specifications

| | 7KT55.. | 7KT56.. | 7KT58.. |
|-------------------|--------------------|--|------------------------|
| Basic data | | | |
| Installation | Front mounting | | Standard mounting rail |
| Mounting width | – | | 2 MW |
| Front frame | 48 × 48 mm | 72 × 72 mm | – |
| Display | Drum-type register | | |
| Version | – | With narrow frame according to DIN 43700 | – |

Accessories

| | 7KT55.. | 7KT56.. | 7KT58.. |
|---|-----------------|-------------|-------------|
| Cover | | | |
| Size | Article No. | Article No. | Article No. |
| 55 × 55 mm | 7KT9020 | – | – |
| Sealing ring for cover | | | |
| Degree of protection | Scope of supply | Article No. | Article No. |
| IP43 (in switchboards with smooth surfaces) | 1 set = 5 units | 7KT9000 | – |
| Terminal cover | | | |
| Degree of protection | Article No. | Article No. | Article No. |
| IP20 (with connected conductors) | – | 7KT9021 | – |

Electronic counting mechanisms



| Display | Resetting | Rated frequency | Rated control supply voltage U_c | |
|----------------------|---------------------------|-----------------|------------------------------------|---------|
| Time counter | | | | |
| 000000.0 h | Without | 50/60 Hz | 24 ... 240 V AC, 12 ... 150 V DC | 7KT5821 |
| | Electrical | 50/60 Hz | 24 ... 240 V AC, 12 ... 150 V DC | 7KT5822 |
| | Electrical and mechanical | 50/60 Hz | 24 ... 240 V AC, 12 ... 150 V DC | 7KT5823 |
| Pulse counter | | | | |
| 0000000 | Electrical and mechanical | 50/60 Hz | 24 ... 240 V AC, 12 ... 150 V DC | 7KT5833 |

Further technical specifications

7KT58..

| | |
|-------------------|------------------------|
| Basic data | |
| Installation | Standard mounting rail |
| Mounting width | 2 MW |
| Display | LCD display |

Current transformers

For measuring purposes



| Size | Rated operational voltage U_e | Rated primary current I_{pr} | Rated power P_n | Accuracy class 0.2s | | |
|----------------------------|---------------------------------|--------------------------------|-------------------|-----------------------|-----------------------|-----------------------|
| | | | | $I_{sr} = 5\text{ A}$ | $I_{sr} = 1\text{ A}$ | $I_{sr} = 5\text{ A}$ |
| Accuracy class 0.2s | | | | | | |
| 1 | 720 V | 150 A | 1 VA | 4NC5121-2FA21 | – | – |
| | | 200 A | 2.5 VA | 4NC5122-2FC21 | – | – |
| | | 250 A | 2.5 VA | 4NC5123-2FC21 | – | – |
| | | 300 A | 5 VA | 4NC5124-2FE21 | – | – |
| | | 400 A | 5 VA | 4NC5125-2FE21 | – | – |
| | | 500 A | 5 VA | 4NC5126-2FE21 | – | – |
| 5 | 720 V | 600 A | 5 VA | 4NC5227-2FE21 | – | – |
| | | 700 A | 5 VA | 4NC5228-2FE21 | – | – |
| | | 800 A | 5 VA | 4NC5231-2FE21 | – | – |
| | | 1000 A | 5 VA | 4NC5232-2FE21 | – | – |
| Accuracy class 0.5 | | | | | | |
| 1 | 720 V | 100 A | 1 VA | 4NC5117-2DA21 | 4NC5117-0DA21 | – |
| | | 150 A | 2.5 VA | 4NC5121-2DC21 | 4NC5121-0DC21 | – |
| | | 200 A | 5 VA | 4NC5122-2DE21 | 4NC5122-0DE21 | – |
| | | 250 A | 5 VA | 4NC5123-2DE21 | 4NC5123-0DE21 | – |
| 2 | 720 V | 200 A | 5 VA | 4NC5222-2DE21 | 4NC5222-0DE21 | – |
| | | 250 A | 5 VA | 4NC5223-2DE21 | 4NC5223-0DE21 | – |
| | | 300 A | 5 VA | 4NC5224-2DE21 | 4NC5224-0DE21 | – |
| | | 400 A | 5 VA | 4NC5225-2DE21 | 4NC5225-0DE21 | – |
| 3 | 720 V | 400 A | 5 VA | 4NC5325-2DE21 | 4NC5325-0DE21 | – |
| | | 500 A | 5 VA | 4NC5326-2DE21 | 4NC5326-0DE21 | – |
| | | 600 A | 5 VA | 4NC5327-2DE21 | 4NC5327-0DE21 | – |
| | | 750 A | 5 VA | 4NC5330-2DE21 | 4NC5330-0DE21 | – |
| | | 800 A | 5 VA | 4NC5331-2DE21 | – | – |
| 4 | 720 V | 800 A | 10 VA | 4NC5431-2DH21 | 4NC5431-0DH21 | – |
| | | 1000 A | 10 VA | 4NC5432-2DH21 | 4NC5432-0DH21 | – |
| | | 1200 A | 10 VA | 4NC5433-2DH21 | 4NC5433-0DH21 | – |
| | | 1500 A | 10 VA | 4NC5435-2DH21 | 4NC5435-0DH21 | – |
| | | 1600 A | 15 VA | 4NC5436-2DK21 | – | – |
| | | 2000 A | 20 VA | 4NC5438-2DL21 | – | – |
| | | 2500 A | 25 VA | 4NC5440-2DM21 | – | – |
| 3000 A | 30 VA | 4NC5441-2DN21 | – | – | | |



| Size | Rated operational voltage U_e | Rated primary current I_{pr} | Rated power P_n | Accuracy class 1.0 | | |
|------|---------------------------------|--------------------------------|-------------------|--------------------|----------------|----------------|
| | | | | $I_{sr} = 5 A$ | $I_{sr} = 1 A$ | $I_{sr} = 5 A$ |
| 1 | 720 V | 50 A | 1.2 VA | 4NC5112-2CB21 | 4NC5112-0CB21 | – |
| | | 60 A | 1.2 VA | 4NC5113-2CB21 | 4NC5113-0CB21 | – |
| | | | 1.25 VA | – | – | 7KT1200 |
| | | 75 A | 2.5 VA | 4NC5115-2CC21 | 4NC5115-0CC21 | – |
| | | 100 A | 2.5 VA | 4NC5117-2CC21 | 4NC5117-0CC21 | 7KT1201 |
| | | 150 A | 2.5 VA | 4NC5121-2CC21 | 4NC5121-0CC21 | – |
| | | | 3.75 VA | – | – | 7KT1202 |
| | | 200 A | 5 VA | 4NC5122-2CE21 | 4NC5122-0CE21 | – |
| 2 | 720 V | 250 A | 5 VA | 4NC5123-2CE21 | 4NC5123-0CE21 | – |
| | | 200 A | 5 VA | 4NC5222-2CE21 | 4NC5222-0CE21 | – |
| | | 250 A | 5 VA | 4NC5223-2CE21 | 4NC5223-0CE21 | – |
| | | 300 A | 5 VA | 4NC5224-2CE21 | 4NC5224-0CE21 | – |
| 3 | 720 V | 400 A | 5 VA | 4NC5225-2CE21 | 4NC5225-0CE21 | – |
| | | 400 A | 5 VA | 4NC5325-2CE21 | 4NC5325-0CE21 | – |
| | | 500 A | 5 VA | 4NC5326-2CE21 | 4NC5326-0CE21 | – |
| | | 600 A | 5 VA | 4NC5327-2CE21 | 4NC5327-0CE21 | – |
| 4 | 720 V | 750 A | 5 VA | 4NC5330-2CE21 | 4NC5330-0CE21 | – |
| | | 800 A | 10 VA | 4NC5431-2CH21 | 4NC5431-0CH21 | – |
| | | 1000 A | 10 VA | 4NC5432-2CH21 | 4NC5432-0CH21 | – |
| | | 1250 A | 10 VA | 4NC5434-2CH21 | 4NC5434-0CH21 | – |
| | | 1500 A | 10 VA | 4NC5435-2CH21 | 4NC5435-0CH21 | – |
| | | 2000 A | 12.5 VA | 4NC5438-2CJ21 | 4NC5438-0CJ21 | – |
| | | 2500 A | 12.5 VA | 4NC5440-2CJ21 | 4NC5440-0CJ21 | – |
| | | 3000 A | 30 VA | 4NC5441-2CN21 | – | – |

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Accessories

Standard rail mounting



| For transformer size | Article No. | Article No. | Article No. |
|----------------------|---------------|---------------|-------------|
| 1 and 5 | 4NC5923-5LT21 | 4NC5923-5LT21 | – |
| 2 | 4NC5925-5LT21 | 4NC5925-5LT21 | – |
| 3 | 4NC5930-5LT21 | 4NC5930-5LT21 | – |
| 4 | 4NC5940-5LT21 | 4NC5940-5LT21 | – |



Well-monitored – well-protected

Monitoring devices perform numerous functions to protect people and machinery: At dusk, they switch on automatically, control the temperature or signal the location where a fuse has tripped.

They also ensure reliable switchover to emergency power supply, monitor the emergency lighting, ensure overload-free operation of motors and neutral monitoring for breakage and overvoltages.

Monitoring devices can do even more, e.g., underload monitoring of asynchronous motors in no-load operation.

Monitoring Devices



| | |
|--|-------|
| All the information you need | 11/2 |
| System overview | 11/4 |
| Monitoring devices for electrical values | 11/6 |
| 5SV8 residual current monitors | 11/6 |
| 5SV8 modular RCCB device | 11/8 |
| 5TT3 undervoltage relays | 11/12 |
| 5TT3 short-time voltage relay | 11/14 |
| 5TT3 undervoltage and overvoltage relays | 11/15 |
| 5TT6 current relays | 11/16 |
| 5TT3 fuse monitors | 11/17 |
| 5TT3 phase monitors | 11/18 |
| 5TT3 phase sequence monitors | 11/19 |
| 5TT3 insulation monitors for industrial applications | 11/20 |
| Monitoring devices for plants and equipment | 11/21 |
| 5TT5 EMERGENCY STOP modules | 11/21 |
| 5TT3 level relays | 11/22 |
| 5TT3 line circuit relays | 11/23 |
| 7LQ2 dimmer switches | 11/24 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about monitoring devices, please visit our website
www.siemens.com/lowvoltage

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Monitoring devices sie.ag/2m3no4A

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Monitoring devices (45316099)

Technical overview – Monitoring devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on monitoring devices

www.siemens.com/lowvoltage/product-support (109769086)

System overview

Monitoring devices for electrical values



5SV8 residual current monitor



5SV8 modular RCCB device



5TT3 and 5TT6 relay



5TT3 monitors

Accessories



Summation current transformer



Holders for standard mounting rails



Magnetic field centering sleeves

Monitoring devices for plants and equipment



5TT5 EMERGENCY STOP modules



5TT3 relay



7LQ2 dimmer switches

Accessories



Immersion electrodes

Note:

You will find a detailed range of accessories with the basic units.

5SV8 residual current monitors

Type A and type AC



| Rated operational voltage U_e | Rated residual current $I_{\Delta n}$ | | Response time Δt | Mounting width | | |
|---------------------------------|---------------------------------------|------------|---------------------------------------|----------------|-------------|-------------|
| | Type A | Type AC | | 2 MW | 1 channel | 4 channels |
| 230 V AC | 0.03 ... 5 A | >3 A | 0.02 ... 5 s | 5SV8000-6KK | – | – |
| | 0.03 ... 3 A | 5 ... 30 A | 0.02 ... 10 s, INS, SEL ¹⁾ | – | 5SV8001-6KK | 5SV8200-6KK |

Further technical specifications

| Further technical specifications | 5SV8000-6KK | 5SV8001-6KK | 5SV8200-6KK |
|--|-----------------------|---------------------------------------|-----------------------------|
| Standards | | | |
| Standards | EN 62020, IEC 62020 | | |
| Approvals | – | UL | |
| Supply | | | |
| Rated operational voltage U_e | 230 V AC | | |
| Frequency | 50/60 Hz | | |
| Rated residual current $I_{\Delta n}$ | Type A | 0.03 ... 3 A | |
| | Type AC | >3 A | 5 ... 30 A |
| Response time Δt | 0.02 ... 5 s | 0.02 ... 10 s, INS, SEL ¹⁾ | |
| Relay contacts | | | |
| Relay contacts | 1 × alarm | 1 × pre-alarm, 1 × alarm | 1 × pre-alarm, 4 × alarm |
| Rated voltage | 230 V AC | | |
| Rated current | 6 A | | |
| Summation current transformer | | | |
| Diameter | 20 ... 210 mm | | |
| Equipment | | | |
| Maximum cable length RCM/CT | 10 m (shielded cable) | | |
| Conductor cross-section | 1.5 mm ² | | |
| Test/reset | Yes/Yes | | |
| External tripping operation/external reset | –/Yes | Yes/Yes | |
| Safety | | | |
| Degree of protection | Contacts | IP20 | |
| | Front | IP41 | |
| Ambient conditions | | | |
| Operating temperature | –10 ... +50 °C | | |

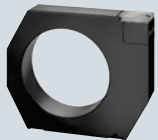
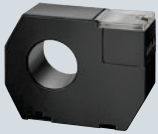
¹⁾ INS: Instantaneous,
SEL: Selective

Accessories

Summation current transformers

- Including holder for standard mounting rail or wall mounting
- Standard ☺

| Mounting options | Lowest measurable residual current $I_{\Delta n, \min}$ | Rated current I_n | Maximum current ²⁾ I_{\max} | Internal diameter | Article No. |
|---|---|---------------------|--|-------------------|-------------|
| Standard mounting rail | 30 mA | ≤ 40 A | 240 A | 20 mm | 5SV8700-0KK |
| | | ≤ 63 A | 380 A | 30 mm | 5SV8701-0KK |
| Wall mounting, standard mounting rail ¹⁾ | 30 mA | ≤ 80 A | 480 A | 35 mm | 5SV8702-0KK |
| | | ≤ 200 A | 1200 A | 70 mm | 5SV8703-0KK |
| Wall mounting | 100 mA 300 mA | ≤ 250 A | 1500 A | 105 mm | 5SV8704-0KK |
| | | ≤ 500 A | 3000 A | 140 mm | 5SV8705-0KK |
| | | ≤ 600 A | 3600 A | 210 mm | 5SV8706-0KK |



Holders for standard mounting rails

- Suitable for summation current transformers with internal diameter of 20 mm, 30 mm, 35 mm, 70 mm
- Cannot be used together with magnetic field centering sleeves.



Article No.
5SV8900-1KK

Magnetic field centering sleeves



| Internal diameter | Article No. |
|-------------------|-------------|
| 35 mm | 5SV8902-1KK |
| 70 mm | 5SV8903-1KK |
| 105 mm | 5SV8904-1KK |
| 140 mm | 5SV8905-1KK |
| 210 mm | 5SV8906-1KK |

¹⁾ The holder for standard mounting rails is additionally required for mounting onto the standard mounting rail.

²⁾ Short-time starting current, up to 2 s

5SV8 modular RCCB device

Type A

Mounting width **3 MW**

MRCD

3 MW



| Rated operational voltage U_e | Rated residual current $I_{\Delta n}$ Type A | Response time Δt | MRCD |
|---------------------------------|---|---------------------------------------|-------------|
| 230 V AC | 0.03 ... 3 A | 0.02 ... 10 s, INS, SEL ¹⁾ | 5SV8101-6KK |

Further technical specifications

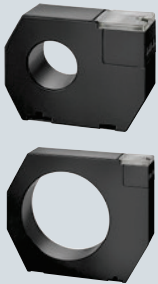
| Standards | | |
|--|--------------------------------|--|
| Standards | | EN 60947-2 (Annex M), IEC 60947-2 (Annex M) |
| Approvals | | – |
| Supply | | |
| Rated operational voltage U_e | | 230 V AC from a 1-phase auxiliary voltage source (also externally) |
| Frequency | | 50/60 Hz |
| Rated residual current $I_{\Delta n}$ | Type A | 0.03 ... 3 A (default setting: 30 mA) |
| | Type AC | – |
| Response time Δt | $I_{\Delta n} = 30 \text{ mA}$ | INS instantaneous |
| | $I_{\Delta n} > 30 \text{ mA}$ | INS – SEL – 0.06 ... 10 s ¹⁾ (default setting INS) |
| Relay contacts | | |
| Relay contacts | | 1× alarm, 1× tripping operation |
| Rated voltage | | 230 V AC |
| Rated current | | 6 A |
| Summation current transformer | | |
| Diameter | | 35 ... 210 mm |
| Equipment | | |
| Maximum cable length RCM/CT | | 10 m (shielded cable) |
| Conductor cross-section | | 0.125 ... 2.08 mm ² |
| Test/reset | | Yes/Yes |
| External tripping operation/external reset | | Yes/Yes |
| Safety | | |
| Degree of protection | Contacts | IP20 |
| | Front | IP41 |
| Ambient conditions | | |
| Operating temperature | | –10 ... +50 °C |

¹⁾ INS: Instantaneous,
SEL: Selective

Accessories

Summation current transformers

- Including holder for wall mounting
- Standard ②



| Mounting options | Lowest measurable residual current $I_{\Delta n, \min}$ | Rated current I_n | Maximum current ²⁾ I_{\max} | Internal diameter | Article No. |
|---|---|---------------------|--|-------------------|-------------|
| Wall mounting, standard mounting rail ¹⁾ | 30 mA | ≤80 A | 480 A | 35 mm | 5SV8702-0KK |
| | 30 mA | ≤200 A | 1200 A | 70 mm | 5SV8703-0KK |
| Wall mounting | 100 mA | ≤250 A | 1500 A | 105 mm | 5SV8704-0KK |
| | 300 mA | ≤500 A | 3000 A | 140 mm | 5SV8705-0KK |
| | | ≤600 A | 3600 A | 210 mm | 5SV8706-0KK |

Holders for standard mounting rails



- Suitable for summation current transformers with internal diameter of 20 mm, 30 mm, 35 mm, 70 mm
- Cannot be used together with magnetic field centering sleeves.

Article No.
5SV8900-1KK

Magnetic field centering sleeves

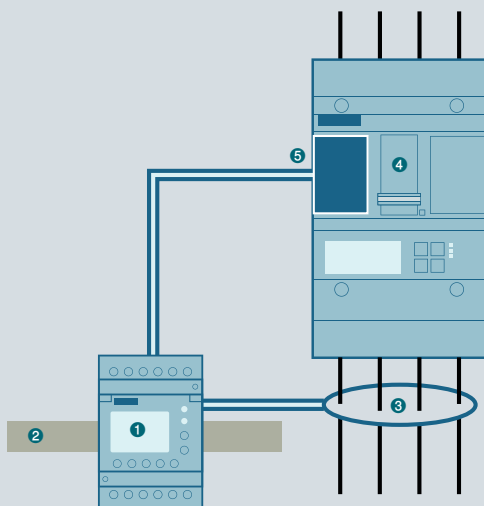


| Internal diameter | Article No. |
|-------------------|-------------|
| 35 mm | 5SV8902-1KK |
| 70 mm | 5SV8903-1KK |
| 105 mm | 5SV8904-1KK |
| 140 mm | 5SV8905-1KK |
| 210 mm | 5SV8906-1KK |

¹⁾ The holder for standard mounting rails is additionally required for mounting onto the standard mounting rail.

²⁾ Short-time starting current, up to 2 s

Tested combination options



5SV8101-6KK / - (tested combinations)

① Modular RCCB device

5SV8101-6KK

② Standard mounting rail

EN 60715 – TH35 – 7.5 35 – 15

③ Summation current transformers

Magnetic field centering sleeves

| | | |
|----------|-------------|-------------|
| Ø 35 mm | 5SV8702-0KK | 5SV8902-1KK |
| Ø 70 mm | 5SV8703-0KK | 5SV8903-1KK |
| Ø 105 mm | 5SV8704-0KK | 5SV8904-1KK |
| Ø 140 mm | 5SV8705-0KK | 5SV8905-1KK |
| Ø 210 mm | 5SV8706-0KK | 5SV8906-1KK |

④ Molded case circuit breakers

⑤ Trip element

⑥ Trip element

| | | |
|----------|---------------|---------------|
| 3VL17... | 3VL9400-1ST00 | 3VL9400-1UP00 |
| 3VL27... | | |
| 3VL37... | | |
| 3VL47... | | |
| 3VA10... | 3VA9988-0BL30 | 3VA9908-0BB11 |
| 3VA11... | 3VA9988-0BL32 | 3VA9908-0BB20 |
| 3VA20... | 3VA9988-0BL33 | 3VA9908-0BB24 |
| 3VA21... | | 3VA9908-0BB25 |
| 3VA22... | | |
| 3VA12... | 3VA9988-0BL30 | 3VA9908-0BB11 |
| 3VA23... | 3VA9988-0BL32 | 3VA9908-0BB20 |
| 3VA24... | 3VA9988-0BL33 | 3VA9908-0BB24 |

5SV8 modular RCCB device

Type B

Mounting width **MRCD digital**
2 MW



| Rated operational voltage U_e | Rated residual current $I_{\Delta n}$ | Response time Δt | |
|---------------------------------|---------------------------------------|--------------------------|-------------|
| 230 V AC | 0.03 ... 1 A | 0 ... 10 s | 5SV8101-4KK |
| 24 V DC | 0.03 ... 1 A | 0 ... 10 s | 5SV8111-4KK |

| Further technical specifications | | 5SV8101-4KK | 5SV8111-4KK |
|--|--|---|---------------------------|
| Standards | | | |
| Standards | | EN 60947-2 (Annex M), IEC 60947-2 (Annex M) | |
| Supply | | | |
| Supply voltage U_s | | 230 V AC (70 ... 300 V AC) | 24 V DC (9.6 ... 94 V DC) |
| Frequency | | 50/60 Hz | – |
| Power consumption | | <6.5 VA | |
| Relay contacts | | | |
| Relay contacts | | 1× alarm, 1× tripping operation | |
| Rated voltage | | 250 V AC | |
| Rated current | | 5 A | |
| External summation current transformer | | | |
| Internal diameter | | 35 ... 210 mm (5SV8701-2KK, 5SV8701-2KP, 5SV8702-2KK, 5SV8702-2KP, 5SV8703-2KK, 5SV8704-2KK) | |
| Rated voltage (Summation current transformers) | | 690 V | |
| Response characteristic | | Acc. to IEC 60947-2 (M) | |
| Rated frequency | | 0 ... 2 kHz | |
| Response residual current | | $I_{\Delta n1}$ (AL1 alarm) 50 ... 100% of $I_{\Delta n2}$ (factory setting: 50%) | |
| | | $I_{\Delta n2}$ (TP2 tripping) 30 mA ... 1 A (factory setting: 30 mA) | |
| Response delay | | t_{on1} (alarm) 0 ... 10 s (factory setting: 1 s) | |
| | | t_{on2} (tripping) 0 ... 10 s (factory setting: 0 s) | |
| Equipment | | | |
| Maximum cable length MRCD/converter | | 10 m (6 × 0.75 mm ²) | |
| Password | | Off / 0 ... 999 (factory setting: 0) | |
| Safety | | | |
| Degree of protection | | Components (IEC 60529) IP30 | |
| | | Terminals (IEC 60529) IP20 | |
| EMC | | IEC 60947-2 (M) | |
| Overvoltage category | | III | |
| Pollution degree | | 3 | |
| Mechanical data | | | |
| Width | | 36 mm (2 MW) | |
| Depth | | 64 mm | |
| Height | | 85 mm | |
| Weight | | 150 g | |
| Fixing | | Standard mounting rail | |
| Enclosure material | | Polycarbonate | |
| Electrical connection | | Screw terminals | |
| Conductor cross-section | | Rigid 0.2 ... 4 mm ² | |
| | | Flexible, with end sleeve 0.2 ... 2.5 mm ² (AWG 24 ... 12) | |
| Stripped length | | 8 ... 9 mm | |
| Tightening torque | | 0.5 ... 0.6 Nm | |
| Ambient conditions | | | |
| Operating temperature | | –25 ... +55 °C | |

Accessories

Summation current transformers



| Lowest measurable residual current $I_{\Delta n, min}$ | Rated current I_n | Maximum current ¹⁾ I_{max} | Internal diameter | Version | Article No. |
|--|---------------------|---|-------------------|-------------|-------------|
| 10 mA | ≤80 A | 500 A | 35 mm | Standard | 5SV8701-2KK |
| | | | | With shield | 5SV8701-2KP |
| 100 mA | ≤160 A | 1000 A | 60 mm | Standard | 5SV8702-2KK |
| | | | | With shield | 5SV8702-2KP |
| 300 mA | ≤330 A | 2000 A | 120 mm | Standard | 5SV8703-2KK |
| 300 mA | ≤630 A | 3800 A | 210 mm | Standard | 5SV8704-2KK |

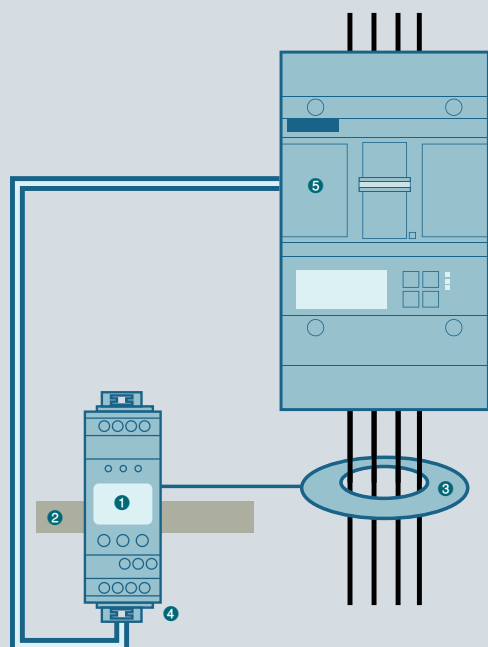
Holders for standard mounting rails



| Suitable for summation current transformers | Article No. |
|---|-------------|
| 5SV8701-2KK, 5SV8701-2KP | 5SV8900-2KK |
| 5SV8702-2KK, 5SV8702-2KP | 5SV8900-3KK |

¹⁾ Short-time starting current, up to 2 s

Tested combination options



5SV8101-4KK / 5SV8111-4KK (tested combinations)

- 1 Modular RCCB device**
5SV8101-4KK / 5SV8111-4KK
- 2 Standard mounting rail**
EN 60715 – TH35 – 7,5 35 – 15
- 3 Summation current transformers**




| | |
|----------|---------------------------|
| Ø 35 mm | 5SV8701-2KK / 5SV8701-2KP |
| Ø 60 mm | 5SV8702-2KK / 5SV8702-2KP |
| Ø 120 mm | 5SV8703-2KK |
| Ø 210 mm | 5SV8704-2KK |
- 4 Relay contacts**

DC:  AC: max. 230 V, 5A

| Molded case circuit breakers | Trip element | |
|------------------------------|---------------|---------------|
| 3VA1... | 3VA9988-OBL30 | 3VA9908-0BB11 |
| 3VA20... | 3VA9988-OBL32 | 3VA9908-0BB24 |
| 3VA21... | 3VA9988-OBL33 | 3VA9908-0BB25 |
| 3VA22... | | |
| 3VA23... | 3VA9988-OBL30 | 3VA9908-0BB11 |
| 3VA24... | 3VA9988-OBL32 | 3VA9908-0BB25 |
| | 3VA9988-OBL33 | |

5TT3 undervoltage relays

Without response delay

| | For the monitoring of | | |
|----------------|---|---|---|
| | 1, 2 or 3 phases against N | 3 phases against N | |
| Contacts | 1 CO | 2 CO | 2 CO |
| Mounting width | 1 MW | 2 MW | 2 MW |
| |  |  |  |

| Rated operational voltage U_e | Rated operational current I_e | Switching thresholds | Hysteresis | | | |
|---------------------------------|---------------------------------|----------------------------|------------|---------|---------|---------|
| Not adjustable | | | | | | |
| 230 V AC | 4 A | 0.7 and $0.9 \times U_c$ | – | 5TT3400 | 5TT3402 | 5TT3404 |
| | | 0.85 and $0.95 \times U_c$ | – | 5TT3401 | – | 5TT3405 |
| Adjustable | | | | | | |
| 230 V AC | 4 A | 0.7 ... $0.95 \times U_c$ | 5% | – | – | 5TT3406 |
| | | 0.9 ... $0.95 \times U_c$ | – | – | 5TT3403 | – |

Further technical specifications

| | | | |
|---|---|----------------------------------|-----------------------------|
| Standards | | | |
| Standards | IEC 60255, DIN VDE 0435-110, DIN VDE 0435-303 | | |
| Supply | | | |
| Rated control circuit voltage U_c | 230 / 400 V AC | | |
| Operating range (overload capability) | $1.1 \times U_c$ | | |
| Rated frequency | 50/60 Hz | | |
| Contacts | | | |
| μ contact | AC-11 | 4 A | |
| Response values | ON-switching | $0.9 / 0.95 \times U_c$ | 4% hysteresis |
| | OFF-switching | $0.7 / 0.85 \times U_c$ | $0.7 \dots 0.95 \times U_c$ |
| Minimum contact load | 10 V / 100 mA | | |
| Safety | | | |
| Rated insulation voltage U_i | Between coil/contact | 4 kV | |
| Electrical isolation, creepage distances and clearances | Actuator/contact | 3 mm | 5.5 mm |
| | Actuator/contact | >2.5 kV | >4 kV |
| Functions | | | |
| Phase asymmetry | Setting accuracy | – | Approx. 5 ... 10% |
| | Repeat accuracy | – | 1 |
| Phase failure detection | At L1 or L2 or L3 | 100 ms | |
| Functions | Monitoring of 1/2 phases against N | Yes | – |
| | Monitoring of 3 phases against N | Yes | – |
| | Asymmetry (failure) detection | – | Yes |
| | Reverse (failure) detection | – | Yes |
| | Phase failure detection | Yes | – |
| N-conductor monitoring | – | – | Yes |
| Connection | | | |
| Terminals | \pm screw (Pozidriv) | PZ 1 | |
| Conductor cross-sections | Rigid | Max. $2 \times 2.5 \text{ mm}^2$ | |
| | Flexible, with end sleeve | Max. $1 \times 0.5 \text{ mm}^2$ | |
| Ambient conditions | | | |
| Permissible ambient temperature | –20 ... +60 °C | | |
| Resistance to climate | Acc. to EN 60068-1 | 20/60/4 | |

5TT3400

5TT3401

5TT3402

5TT3403

5TT3404

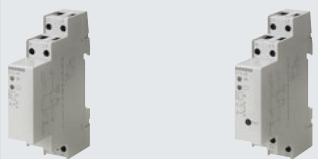
5TT3405

5TT3406

5TT3 undervoltage relays

With response delay

| | For the monitoring of 1, 2 or 3 phases against N | |
|----------------|---|------|
| Contacts | 1 CO | 2 CO |
| Mounting width | 1 MW | 1 MW |



| Rated operational voltage U_e | Rated operational current I_e | Switching thresholds | Hysteresis | Standard | With TEST pushbutton |
|---------------------------------|---------------------------------|----------------------|------------|----------|----------------------|
| Not adjustable | | | | | |
| 230 V AC | 4 A | $0.85 \times U_c$ | 5% | 5TT3414 | 5TT3415 |

Further technical specifications

| | | 5TT3414 | 5TT3415 |
|---|---------------------------------------|-----------------------------|---------|
| Supply | | | |
| Rated control circuit voltage U_c | | 230 / 400 V AC | |
| Operating range (overload capability) | | $1.15 \times U_c$ | |
| Rated frequency | | 50/60 Hz | |
| Contacts | | | |
| Contacts | AC-15 | 1 CO | 2 CO |
| Response values | ON-switching | 5% hysteresis | |
| | OFF-switching | $0.85 \times U_c$ | |
| Response delay | | 0.5 s | |
| Return transfer delay | | 60 s | |
| Minimum contact load | | 10 V / 100 mA | |
| Electrical service life in switching cycles | AC-15 (1 A, 230 V AC) | 1×10^5 | |
| Safety | | | |
| Rated insulation voltage U_i | Between coil/contact | – | |
| Rated impulse withstand voltage | Acc. to IEC 60664-1 | 6 kV | |
| Pollution degree | | 2 | |
| Functions | | | |
| Phase failure detection | At L1 or L2 or L3 | 500 ms | |
| Functions | Monitoring of 1 or 2 phases against N | Yes | |
| | Monitoring of 3 phases against N | Yes | |
| | Phase failure detection | Yes | |
| Connection | | | |
| Terminals | – screw (slot) | 3.5 mm | |
| Conductor cross-sections | Rigid | $1 \times 4 \text{ mm}^2$ | |
| | Flexible, with end sleeve | $1 \times 2.5 \text{ mm}^2$ | |
| Ambient conditions | | | |
| Permissible ambient temperature | | –25 ... +60 °C | |
| Resistance to climate | Acc. to EN 60068-1 | 20/060/04 | |

5TT3 short-time voltage relay

Without response delay

For the monitoring of
1, 2 or 3 phases against N

Contacts 2 CO
Mounting width 2 MW



| Rated operational voltage U_e | Rated operational current I_e | Switching thresholds | |
|---------------------------------|---------------------------------|-----------------------------|---------|
| Not adjustable | | | |
| 230 V AC | 4 A | $0.8 \dots 0.85 \times U_c$ | 5TT3407 |

Further technical specifications

| Standards | | | |
|---|--|--|--|
| Standards | | IEC 60255, DIN VDE 0435-303 | |
| Supply | | | |
| Rated control circuit voltage U_c | | 230/400 V AC | |
| Operating range (overload capability) | | $1.1 \times U_c$ | |
| Rated frequency | | 50/60 Hz | |
| Rated operational power P_s | | AC operation: | 230 V and p.f. = 1 230 V and p.f. = 0.4 |
| | | | 2000 VA 1250 VA |
| | | DC operation: | $U_e = 24 \text{ V}$ and $I_e = 6 \text{ A}$ $U_e = 60 \text{ V}$ and $I_e = 1 \text{ A}$ $U_e = 110 \text{ V}$ and $I_e = 0.6 \text{ A}$ $U_e = 220 \text{ V}$ and $I_e = 0.5 \text{ A}$ |
| | | | Max. 100 W Max. 100 W Max. 100 W Max. 100 W |
| Back-up fuse | | Terminals L1/L2/L3 | 2 A |
| Contacts | | | |
| μ contact | | AC-11 | 3 A |
| Response values | | ON-switching | $0.85 \times U_c$ |
| | | OFF-switching | $0.8 \times U_c$ |
| Automatic reclosing delay (return transfer delay) | | 0.2 ... 2 s | |
| Minimum contact load | | 10 V / 100 mA | |
| Safety | | | |
| Rated insulation voltage U_i | | Between coil/contact | 4 kV |
| Electrical isolation, creepage distances and clearances | | Actuator/contact | 4 mm |
| Rated impulse withstand voltage U_{imp} | | Actuator/contact | >4 kV |
| Functions | | | |
| Phase failure detection | | At L1 or L2 or L3 | $\geq 20 \text{ ms}$ |
| Phase asymmetry | | Setting accuracy | Approx. 5 ... 10% |
| | | Repeat accuracy | 1 |
| Functions | | Monitoring of 1 or 2 phases against N | Yes |
| | | Monitoring of 3 phases against N | Yes |
| | | Phase failure detection | Yes |
| | | N-conductor monitoring | Yes |
| Connection | | | |
| Terminals | | \pm screw (Pozidriv) | PZ 1 |
| Conductor cross-sections | | Rigid | Max. $2 \times 2.5 \text{ mm}^2$ |
| | | Flexible, with end sleeve | Max. $1 \times 0.5 \text{ mm}^2$ |
| Ambient conditions | | | |
| Permissible ambient temperature | | $-20 \dots +60 \text{ }^\circ\text{C}$ | |
| Humidity class | | Acc. to IEC 60068-2-30 | F |

5TT3 undervoltage and overvoltage relays

With adjustable response delay

For the monitoring of
3 phases against N

Contacts 2 CO
Mounting width 2 MW








| Rated operational voltage U_e | Rated operational current I_e | Switching thresholds | Hysteresis | |
|---------------------------------|---------------------------------|--|------------|---------|
| Adjustable | | | | |
| 230 V AC | 4 A | 0.7 and $1.1 \times U_c$ 0.9 and $1.3 \times U_c$ | 4% 4% | 5TT3408 |

Further technical specifications

| Standards | | | |
|---|---------------------------------------|---------------|---|
| Standards | | | IEC 60255, DIN VDE 0435-303 |
| Supply | | | |
| Rated control circuit voltage U_c | | | 230/400 V AC |
| Operating range (overload capability) | | | $1.35 \times U_c$ |
| Rated frequency | | | 50/60 Hz |
| Back-up fuse | Terminals L1/L2/L3 | | 2 A |
| Contacts | | | |
| μ contact | AC-11 | | 1 A |
| Response values | Overvoltage: | ON-switching | 4% hysteresis |
| | | OFF-switching | $0.9 \dots 1.3 \times U_c$ |
| | Undervoltage: | ON-switching | 4% hysteresis |
| | | OFF-switching | $0.7 \dots 1.1 \times \text{voltage}_c$ |
| On/off-delay (response delay) | | | 0.1 ... 20 s |
| Automatic reclosing delay (return transfer delay) | | | – |
| Minimum contact load | | | 10 V / 100 mA |
| Safety | | | |
| Rated insulation voltage U_i | Between coil/contact | | 4 kV |
| Electrical isolation, creepage distances and clearances | Contact/contact | | 4 mm |
| | Actuator/contact | | 4 mm |
| Rated impulse withstand voltage U_{imp} | Actuator/contact | | >4 kV |
| Functions | | | |
| Phase failure detection | At L1 or L2 or L3 | | 100 ms |
| Phase asymmetry | Setting accuracy | | Approx. 5 ... 10% |
| | Repeat accuracy | | 1 |
| Functions | Monitoring of 1 or 2 phases against N | | – |
| | Monitoring of 3 phases against N | | Yes |
| | Asymmetry detection | | Yes |
| | Reverse voltage detection | | Yes |
| | Phase failure detection | | Yes |
| | N-conductor monitoring | | Yes |
| Connection | | | |
| Terminals | \pm screw (Pozidriv) | | PZ 1 |
| Conductor cross-sections | Rigid | | Max. $2 \times 2.5 \text{ mm}^2$ |
| | Flexible, with end sleeve | | Max. $1 \times 0.5 \text{ mm}^2$ |
| Ambient conditions | | | |
| Permissible ambient temperature | | | $-20 \dots +60 \text{ }^\circ\text{C}$ |
| Humidity class | Acc. to IEC 60068-2-30 | | F |

5TT6 current relays

For single-phase loads up to 230 V AC

| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control current I_c | Auxiliary voltage and load voltage | | | | |
|---------------------------------|---------------------------------|--------------|---|---|---|--|---|---|
| | | | | not isolated | | galvanically isolated | | |
| Mounting width | | | | 1 MW | 1 MW | 2 MW | 2 MW | 2 MW |
| | | | |  |  |  |  |  |
| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control current I_c | Monitoring Undercurrent | Overcurrent | Monitoring Undercurrent | Overcurrent | Overcurrent/undercurrent |
| 230 V AC | 5 A | 1 CO 2 CO | 1 ... 10 A 0.1 ... 1 A, 0.5 ... 5 A, 1 ... 10 A, 1.5 ... 15 A | 5TT6111 – | 5TT6112 – | – 5TT6113 | – 5TT6114 | – 5TT6115 |

Further technical specifications

| | | | | |
|---|--|--|--|---|
| Standards | | | | |
| Standards | | IEC 60255 | | IEC 60255 DIN VDE 0435-303 |
| Supply | | | | |
| Rated control current I_c | | 1 ... 10 A | | 0.1 ... 1 A, 0.5 ... 5 A, 1 ... 10 A, 1.5 ... 15 A |
| Rated control circuit voltage U_c | | 230 V AC | | |
| Primary operating range | | 0.9 ... 1.1 × U_c | | |
| Overload capability | | Continuous | 15 A | 20 A |
| | | At 50 °C ambient temperature max. 3 s | 20 A | – |
| | | Independent of measuring range, max. 3 s | – | 30 A |
| Rated frequency | | 50/60 Hz | | |
| Contacts | | | | |
| μ contact (AC-15) | | NO contacts | 3 A | 5 A |
| | | NC contacts | 1 A | |
| Response values | | ON-switching | Infinitely variable | |
| | | OFF-switching | Permanent, 4% hysteresis | |
| Switching delay t_v | | 0.1 ... 20 s, continuously adjustable | | |
| Response time | | Non-adjustable | Current corresponds to the rated operational power of the continuous-flow heater | See Siemens Service and Support Portal, search term "Article No.", e.g. 5TT6113 |
| Minimum contact load | | 10 V / 100 mA | | |
| Safety | | | | |
| Rated insulation voltage U_i | | Between coil/contact | 2.5 kV | |
| Electrical isolation, creepage distances and clearances | | Actuator/contact | 3 mm | |
| Rated impulse withstand voltage U_{imp} | | Actuator/contact | >4 kV | |
| Connection | | | | |
| Terminals | | ± screw (Pozidriv) | PZ 1 | |
| Conductor cross-sections | | Rigid | Max. 2 × 2.5 mm ² | |
| | | Flexible, with end sleeve | Max. 1 × 0.5 mm ² | |
| Ambient conditions | | | | |
| Permissible ambient temperature | | –20 ... +60 °C | | |
| Resistance to climate | | Acc. to EN 60068-1 | 20/60/4 | |

5TT3 fuse monitors

For all low-voltage fuse systems

Mounting width 2 MW



| Rated operational voltage U_e | Rated operational current I_e | Rated control circuit voltage U_c | |
|---------------------------------|---------------------------------|-------------------------------------|---------|
| Adjustable | | | |
| 250 V AC | 4 A | 380 ... 415 V AC | 5TT3170 |

Further technical specifications

| Standards | | |
|---|----------------------------|--|
| Standards | | IEC 60255, DIN VDE 0435-110 |
| Supply | | |
| Rated operational voltage U_e | | 250 V AC |
| Rated operational current I_e | AC-1 | 4 A |
| Rated control circuit voltage U_c | 3 AC | 380 ... 415 V |
| Primary operating range | | $0.8 \dots 1.1 \times U_c$ |
| Rated frequency | | 50 ... 400 Hz |
| Contacts | | |
| Internal resistance of measuring paths | | $>1000 \Omega/V$ |
| Max. permissible rear feed | | 90% |
| Response/release time | | $<50 \text{ ms}$ |
| Electrical endurance AC-11 | In switching cycles at 1 A | 1.5×10^5 |
| Safety | | |
| Rated impulse withstand voltage U_{imp} | Input/output | $>4 \text{ kV}$ |
| Application | | |
| Area of application | | Asymmetric, systems afflicted with harmonics, regenerative motors Also for disconnected loads |
| Message | | |
| Connection | | |
| Terminals | \pm screw (Pozidriv) | PZ 1 |
| Conductor cross-sections | Rigid | Max. $2 \times 2.5 \text{ mm}^2$ |
| | Flexible, with end sleeve | Max. $1 \times 0.5 \text{ mm}^2$ |
| Ambient conditions | | |
| Permissible ambient temperature | | $-20 \dots +45 \text{ }^\circ\text{C}$ |
| Resistance to climate | Acc. to EN 60068-1 | 20/45/4 |

5TT3 phase monitors

For monitoring of voltages in a three-phase system

Mounting width 1 MW




| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control circuit voltage U_c | With 3 green LEDs for 3 phases |
|---------------------------------|---------------------------------|----------|-------------------------------------|--------------------------------|
| 250 V AC | 4 A | 1 CO | 230/400 V | 5TT3421 |

Further technical specifications

| Standards | | | |
|---|--|-----------------------------|---------------------------------|
| Standards | | IEC 60255, DIN VDE 0435 | |
| Supply | | | |
| Rated operational voltage U_e | | 250 V AC | |
| Rated operational current I_e | | 4 A | |
| Rated control circuit voltage U_c | | 230/400 V AC | |
| Primary operating range | | 0.8 ... 1.1 × U_c | |
| Rated frequency | | 50/60 Hz | |
| Rated power dissipation P_v | | Electronics | 9 VA |
| | | Contacts | 0.2 VA |
| Contacts | | | |
| μ contact | | AC-11 | 3 A |
| Minimum contact load | | 10 V / 100 mA | |
| Safety | | | |
| Rated insulation voltage U_i | | Between coil/contact | 4 kV |
| Electrical isolation, creepage distances and clearances | | Actuator/contact | 4 mm |
| Rated impulse withstand voltage U_{imp} | | Actuator/contact | >2.5 kV |
| Degree of protection | | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | | Acc. to EN 61140/VDE 0140-1 | II |
| Connection | | | |
| Terminals | | ± screw (Pozidriv) | PZ 1 |
| Conductor cross-sections | | Rigid | Max. 2 x 2.5 mm ² |
| | | Flexible, with end sleeve | – |
| Ambient conditions | | | |
| Permissible ambient temperature | | –20 ... +60 °C | |
| Resistance to climate | | Acc. to EN 60068-1 | 20/60/4 |

5TT3 phase sequence monitors

For monitoring of phase sequence in a three-phase system

| | | | | Phase sequence monitors |
|---------------------------------|---------------------------------|----------|-------------------------------------|---|
| Mounting width | | | | 1 MW |
| | | | |  |
| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control circuit voltage U_c | With one green LED, which lights up for right-rotating field |
| 250 V AC | 4 A | 1 CO | 400 V | 5TT3423 |

Further technical specifications

| Standards | | | |
|---|--|-----------------------------|---------------------------------|
| Standards | | IEC 60255, DIN VDE 0435 | |
| Supply | | | |
| Rated operational voltage U_e | | 250 V AC | |
| Rated operational current I_e | | 4 A | |
| Rated control circuit voltage U_c | | 400 V AC | |
| Primary operating range | | 0.8 ... 1.1 × U_c | |
| Rated frequency | | 50/60 Hz | |
| Rated power dissipation P_v | | Electronics | 9 VA |
| | | Contacts | 0.2 VA |
| Contacts | | | |
| μ contact | | AC-11 | 3 A |
| Minimum contact load | | 10 V / 100 mA | |
| Safety | | | |
| Rated insulation voltage U_i | | Between coil/contact | 4 kV |
| Electrical isolation, creepage distances and clearances | | Actuator/contact | 4 mm |
| Rated impulse withstand voltage U_{imp} | | Actuator/contact | >2.5 kV |
| Degree of protection | | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | | Acc. to EN 61140/VDE 0140-1 | II |
| Connection | | | |
| Terminals | | ± screw (Pozidriv) | PZ 1 |
| Conductor cross-sections | | Rigid | Max. 2 × 2.5 mm ² |
| | | Flexible, with end sleeve | – |
| Ambient conditions | | | |
| Permissible ambient temperature | | –20 ... +60 °C | |
| Resistance to climate | | Acc. to EN 60068-1 | 20/60/4 |

5TT3 insulation monitors for industrial applications

Are used for protection of persons and against fire in non-grounded systems (IT systems)

Mounting width 2 MW



| Measurement voltage range U_{meas} | Measuring range | Contacts | Rated control circuit voltage U_c | |
|---|----------------------|----------|-------------------------------------|---------|
| 0 ... 500 V AC | 5 ... 100 k Ω | 2 CO | 230 V AC | 5TT3470 |
| 12 ... 280 V DC | 5 ... 200 k Ω | 2 CO | – | 5TT3471 |

Further technical specifications

| | | 5TT3470 | 5TT3471 |
|--|---|--------------------------------------|--|
| Supply | | | |
| Rated operational voltage U_e | | 230 V AC | 12 ... 280 V DC |
| Rated operational current I_s | Thermal current I_{th} | 4 A | |
| | DC-13 at 24 V DC | – | 2 A |
| | DC-13 at 250 V DC | – | 0.2 A |
| | AC-15 | – | 3 A |
| | AC-15 NO contacts | 5 A | – |
| | AC-15 NC contacts | 2 A | – |
| Supply voltage U_c | For AC supply | 220 ... 240 V AC | – |
| Primary operating range | For AC supply | 0.8 ... 1.1 $\times U_c$ | – |
| Frequency range for U_c | | 45 ... 400 Hz | – |
| Rated power dissipation P_v | For AC supply | Approx. 2 VA | – |
| | For DC supply | – | Approx. 1 W |
| Contacts | | | |
| μ contact | | 2 W | |
| Switching hysteresis | At R_{meas} 50 k Ω | 15% | 10 ... 15% |
| Measuring circuit | | | |
| Measuring circuit | | For three-phase and AC systems | For direct voltage systems |
| Measurement voltage range U_{meas} | | 0 ... 500 V AC | 12 ... 280 V DC |
| Measurement voltage U_{meas} | Internal | Approx. 15 V DC | – |
| Primary operating range | | 0 ... 1.1 $\times U_{\text{meas}}$ | 0.9 ... 1.1 $\times U_{\text{meas}}$ |
| Frequency range for U_{meas} | | 10 ... 10000 Hz | – |
| Alarm values | Measuring shunt R_{AL} | 5 ... 100 k Ω | 5 ... 200 k Ω |
| Setting of alarm value | On absolute scale | Infinitely variable | |
| Alternating current internal resistance | Internal testing resistance | >250 k Ω | – |
| Direct current internal resistance | Internal testing resistance | >250 k Ω | – |
| | L+ and L- to PE | – | 75 k Ω each |
| Max. measurement current I_{meas} | Short circuit | <0.1 mA | 0.2 ... 4 mA, depending on the voltage |
| Direct interference voltage | Max. permissible | 500 V DC | – |
| | Response delay | | 0.8 s |
| at R_{AL} 50 k Ω and 1 μ F | ∞ to 0.9 $\times R_{\text{meas}}$ | <1.3 s | 0.4 s |
| | R_{meas} from ∞ to 0 Ω | <0.7 s | |
| Safety | | | |
| Rated impulse withstand voltage U_{imp} | Terminals A1 to A2 | <4 kV | |
| | Terminals L to PE | <4 kV | |
| | Terminals A1, A2 to L, PE | <4 kV | <3 kV |
| | Terminals against contacts | <6 kV | |
| Degree of protection | Terminals (according to EN 60529) | IP20 | |
| | Enclosure (according to EN 60529) | IP40 | |
| Connection | | | |
| Terminals | \pm screw (Pozidriv) | PZ 2 | |
| Conductor cross-sections | Rigid | Max. 2 \times 2.5 mm ² | |
| | Flexible, with end sleeve | Min. 1 \times 0.50 mm ² | |
| Ambient conditions | | | |
| Permissible ambient temperature | | –20 ... +60 °C | |
| Resistance to climate | Acc. to EN 60068-1 | 20/060/04 | |

5TT5 EMERGENCY STOP modules

Efficient personal and machine protection in small units

Mounting width 4 MW



| Rated operational voltage U_e | Rated operational current I_e | Rated control circuit voltage U_c | 5TT5200 |
|---------------------------------|---------------------------------|-------------------------------------|---------|
| 400 V AC | 5 A | 230 V AC | |

Further technical specifications

| Standards | | |
|---|--|---|
| Standards | | ISO 13849-1: 2015; EN 62061: 2005 + AC: 2010 + A1: 2013 + A2: 2015; ISO 13850: 2015; EN 60204-1: 2006 + A1: 2009 + AC: 2010 (in extracts); EN 60947-5: 2004 + A1: 2009; EN 50178: 1997; EN 61508 Parts 1-7: 2010; EN 50156-1: 2005 (in extracts) |
| Certification | | German Technical Inspectorate Rheinland |
| Supply | | |
| Primary operating range | | $0.8 \dots 1.1 \times U_c$ |
| Rated frequency f_n | | 50 Hz |
| Rated power dissipation P_v | Coil/drive | 3.5 VA |
| | Contact per pole | 0.8 VA |
| Control voltage | Terminal Y1 | 24 V AC/DC |
| Control current | Terminal Y1 | 45 mA |
| Contacts | | |
| Contacts | NO contacts AC-15 | 3 A |
| | NC contacts AC-15 | 2 A |
| | NO contact/NC contact AC-1 | 5 A |
| Contact gap | | >1 mm |
| Electrical service life | AC-15 (2 A, 230 V AC) | 10^5 operating cycles |
| Reliable switching frequency | | 600 operating cycles/h |
| Recovery time | | 500 ms |
| Safety | | |
| Rated impulse withstand voltage U_{imp} | Actuator/contact | >4 kV |
| Electrical isolation, creepage distances and clearances | Actuator/contact | 3 mm |
| Vibration resistance | Amplitude acc. to EN 60068-2-610 (up to 55 Hz) | 0.35 mm |
| Connection | | |
| Terminals | \pm screw (Pozidriv) | PZ 1 |
| Conductor cross-sections of main current paths | Rigid | Max. $2 \times 2.5 \text{ mm}^2$ |
| | Flexible, with end sleeve | Min. $1 \times 0.50 \text{ mm}^2$ |
| Ambient conditions | | |
| Permissible ambient temperature | | 0 ... +50 °C |
| Resistance to climate | Acc. to EN 60068-1 | 0/55/04 |

5TT3 level relays

For level monitoring and control

Mounting width 2 MW



| Rated operational voltage U_e | Rated operational current I_e | Rated control circuit voltage U_c | 5TT3435 |
|---------------------------------|---------------------------------|-------------------------------------|---------|
| 250 V AC | 5 A | 230 V AC | |

Further technical specifications

| Standards | | |
|--|---------------------------|-------------------------------|
| Standards | | IEC 60255; DIN VDE 0435-110 |
| Supply | | |
| Rated operational voltage U_e | | 250 V AC |
| Rated operational current I_e | | 5 A |
| Rated control circuit voltage U_c | | 230 V AC |
| Primary operating range | | 0.8 ... 1.1 × U_c |
| Rated frequency f_n | | 50/60 Hz |
| Measuring circuit | | |
| Setting range of the liquid level | | 2 ... 450 kΩ |
| Switching point hysteresis of set value | At 450 kΩ | 3% |
| | At 2 kΩ | 6% |
| Electrode voltage | | Max. approx. 10 V AC |
| Electrode current | | Max. approx. 1.5 mA AC |
| Response delay | Adjustable | 0.2 ... 20 s |
| OFF-delay | Adjustable | 0.2 ... 20 s |
| Test voltage | Input/auxiliary circuit | 4 kV |
| | Input/output circuit | 4 kV |
| | Auxiliary/output circuit | 4 kV |
| Voltage temperature influence | From set value | <2% |
| Max. cable length to the electrodes at 100 μF/km | Set value 450 kΩ | 50 m |
| | Set value 100 kΩ | 200 m |
| | Set value 35 kΩ | 500 m |
| | Set value 10 kΩ | 1500 m |
| | Set value 5 kΩ | 3000 m |
| Connection | | |
| Terminals | ± screw (Pozidriv) | PZ 2 |
| Conductor cross-sections | Rigid, max. | Max. 2 × 2.5 mm ² |
| | Flexible, with end sleeve | Min. 1 × 0.50 mm ² |
| Ambient conditions | | |
| Permissible ambient temperature | | -20 ... +60 °C |
| Resistance to climate | Acc. to EN 60068-1 | 20/60/4 |

Accessories

Immersion electrodes



- Made of stainless steel, with PG13 sealing cap
- Suitable for pure water in open containers

| Temperature range | Connection | Article No. |
|-------------------|---------------------|-------------|
| 0 ... 60 °C | Terminal connection | 5TG8223 |

5TT3 line circuit relays

To interrupt circuits where there are no active loads

Mounting width 1 MW



| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control circuit voltage U_c | Article No. |
|---------------------------------|---------------------------------|--------------|-------------------------------------|-------------|
| 250 V AC | 16 A | 1 NC contact | 230 V AC | 5TT3171 |

Further technical specifications

| Standards | | | |
|---|------------------------------------|--|--|
| Standards | | | IEC 60255; DIN VDE 0435-110 |
| Supply | | | |
| Rated operational voltage U_e | | | 250 V AC |
| Rated operational current I_e | AC-1 | | 16 A |
| Rated control circuit voltage U_c | | | 230 V AC |
| Primary operating range | | | 0.85 ... $1.15 \times U_c$ |
| Rated frequency | | | 50/60 Hz |
| Rated power dissipation P_v | Electronics | | 5 VA |
| | Contacts | | 2.6 VA |
| Contacts | | | |
| Response value | Adjustable | | 2 ... 20 VA |
| Release value | % of the response value | | 70% |
| Electrical service life | In switching cycles at 3 A (AC-11) | | 5×10^5 |
| Safety | | | |
| Rated impulse withstand voltage U_{imp} | Input/output | | >4 V |
| Degree of protection | Acc. to IEC/EN 60529 | | IP20, with connected conductors |
| Safety class | Acc. to EN 61140/VDE 0140-1 | | II |
| Monitoring voltage | | | 3 V |
| Connection | | | |
| Terminals | \pm screw (Pozidriv) | | PZ 1 |
| Conductor cross-sections | Rigid | | Max. $2 \times 2.5 \text{ mm}^2$ |
| | Flexible, with end sleeve | | Min. $1 \times 0.50 \text{ mm}^2$ |
| Ambient conditions | | | |
| Permissible ambient temperature | | | $-20 \dots +45 \text{ }^\circ\text{C}$ |
| Humidity class | Acc. to IEC 60068-2-30 | | F |

Accessories

Base load resistors for electronic devices

- With 15 cm connection wires, end sleeves and shrink sleeving

Article No.

5TG8222

7LQ2 dimmer switches

For lighting system monitoring and control

Mounting width 1 MW



| Rated operational voltage U_e | Rated operational current I_e | Contacts | Rated control circuit voltage U_c | |
|---------------------------------|---------------------------------|--------------|-------------------------------------|---------|
| 230 V AC | 16 A | 1 NO contact | 250 V AC | 7LQ2300 |

Further technical specifications

| Standards | | |
|-------------------------------------|---|-------------------------------------|
| Standards | EN 60669-1 | |
| Supply | | |
| Rated operational voltage U_e | 230 V AC | |
| Rated frequency f_n | 50/60 Hz | |
| Safety | | |
| Degree of protection | IP30 | |
| Contacts | | |
| Incandescent lamp/halogen lamp load | 2000 W | |
| Energy-saving lamp load | 1000 W | |
| Fluorescent lamp load | Series corrected | 2000 W |
| | Parallel corrected (at max. 70 μ F) | 1000 W |
| LV halogen lamp load ECG | 2000 W | |
| Luminosity setting | 1 ... 100 000 Lux | |
| Measuring circuit | | |
| On/off-delay | Approx. 90 s | |
| Connection | | |
| Terminals | \pm screw (Pozidriv) | PZ1 |
| Conductor cross-sections | Rigid, max. | Max. 2 \times 1.5 mm ² |
| Mechanical data | | |
| Width | 17.5 mm (1 MW) | |
| Fixing | Standard mounting rail | |
| Ambient conditions | | |
| Permissible ambient temperature | -20 ... +55 °C | |

Spare part

| Light sensor | | | |
|--------------|--|------------------|--------------------|
| | <ul style="list-style-type: none"> Included in the 7LQ2300 package IP65 Degree of protection | | |
| | Temperature range | Mounting | Article No. |
| | -20 ... +70 °C | Surface mounting | 7LQ2920 |



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| | |
|---|-------|
| All the information you need | 12/2 |
| System overview | 12/4 |
| Transformers | 12/6 |
| 4AC32 bell transformer | 12/6 |
| 4AC37 safety transformer | 12/8 |
| Power supply units | 12/10 |
| 4AC2 electronic power supply unit | 12/10 |
| Socket outlets | 12/12 |
| 5TE6 socket outlet for modular installation devices | 12/12 |

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- Configuration manual – Transformers, power supply units and socket outlets ([45315886](tel:45315886))

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Technical overview – Transformers, power supply units and socket outlets



The fast way to get you to our online services

This page provides you with comprehensive information and links on transformers, power supply units and socket outlets

www.siemens.com/lowvoltage/product-support (109764946)

System overview

Transformers



4AC32 bell transformers



4AC37 safety transformers

Power supply units



4AC2 electronic power supply units

Socket outlets



5TE6 socket outlet for modular installation devices

Accessories



Hinged lid

Note:

You will find a detailed range of accessories with the basic units.

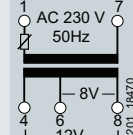
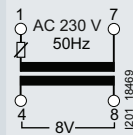
4AC32 bell transformer

U_e 230 V AC



Bell transformers

Mounting width 2 MW



Rated secondary current I_{sec} AC
at rated secondary voltage U_{sec} AC

| 4 V | 8 V | 12 V | 24 V |
|-------|-------|-------|-------|
| – | 1.0 A | – | – |
| 2.0 A | 2.0 A | 1.5 A | – |
| – | 2.0 A | 1.3 A | 0.6 A |

Rated operational power P_s

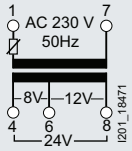
| 8 VA | 8 VA |
|-----------|-----------|
| 4AC3208-0 | – |
| – | 4AC3208-1 |
| – | – |

Further technical specifications

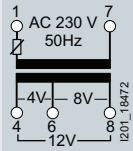
| | 4AC3208-0 | 4AC3208-1 | 4AC3214-0 | 4AC3218-0 |
|---------------------------------|-----------------------------------|--|-----------|-----------|
| Standards | | | | |
| Standards | EN 61558-1, EN 61558-2-8 | | | |
| Supply | | | | |
| Rated operational voltage U_e | 230 V AC | | | |
| Operating range at 50 Hz | $1.04 \times U_e$ | | | |
| Rated frequency | 50 Hz | | | |
| Rated power dissipation P_v | In no-load operation | 1.2 W | | 1.3 W |
| | At a rated voltage of 4 V | – | | 5.5 W |
| | At a rated voltage of 8 V | 5.7 W | | 10.5 W |
| | At a rated voltage of 12 V | – | 3.8 W | 7.4 W |
| | At a rated voltage of 24 V | – | – | 4.2 W |
| Safety | | | | |
| Safe separation | Creepage distances and clearances | | >6 mm | |
| Insulation class | E | | | |
| Test voltage (50 Hz, 1 s) | Primary against secondary winding | | 4 kV | |
| Connection | | | | |
| Conductor cross-section | Rigid | 1 × 4 mm ² or 2 × 2.5 mm ² | | |
| | Flexible, with end sleeve | 1 × 2.5 mm ² or 2 × 1.5 mm ² | | |
| Environmental conditions | | | | |
| Permissible ambient temperature | 40 °C | 35 °C | 40 °C | |
| Permissible humidity | 91% | | | |
| Degree of protection | Acc. to EN 60629 | | IP20 | |
| Safety class | Acc. to EN 61140 (VDE 0140-1) | | II | |



2 MW



2 MW



14 VA

-
-
-
4AC3214-0

18 VA

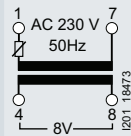
-
-
4AC3218-0
-

4AC37 safety transformer

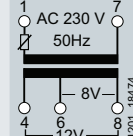
U_e 230 V AC



Mounting width 2 MW



3 MW



Rated secondary current I_{sec} AC
at rated secondary voltage U_{sec} AC

| 8 V | 12 V | 16 V | 24 V | 32 V |
|-------|-------|-------|-------|-------|
| 2.0 A | – | – | – | – |
| – | 2.0 A | – | – | – |
| – | 3.3 A | 2.5 A | 1.6 A | 1.2 A |
| – | – | – | 1.6 A | – |
| – | 5.2 A | – | 2.6 A | – |

Rated operational power P_s

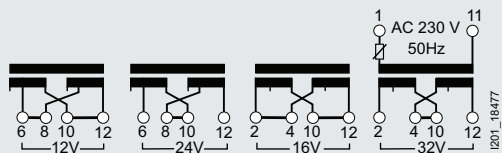
| 16 VA | 24 VA |
|-----------|-----------|
| 4AC3716-0 | – |
| – | 4AC3724-0 |
| – | – |
| – | – |

Further technical specifications

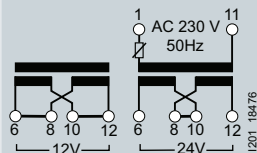
| | 4AC3716-0 | 4AC3724-0 | 4AC3740-0 | 4AC3740-1 | 4AC3763-0 | |
|---------------------------------|-----------------------------------|--|-----------|-----------|-----------|--------|
| Standards | | | | | | |
| Standards | EN 61558-1, EN 61558-2-6 | | | | | |
| Supply | | | | | | |
| Rated operational voltage U_e | 230 V AC | | | | | |
| Operating range at 50 Hz | $1.04 \times U_e$ | | | | | |
| Rated frequency | 50 Hz | | | | | |
| Rated power dissipation P_v | In no-load operation | 1.1 W | – | 3.5 W | 3.9 W | |
| | At a rated voltage of 8 V | 6.8 W | 4.6 W | – | – | |
| | At a rated voltage of 12 V | – | 7.6 W | 7.1 W | 7.5 W | 13.2 W |
| | At a rated voltage of 16 V | – | – | – | 7.7 W | – |
| | At a rated voltage of 24 V | – | – | 7.7 W | 8.1 W | 13.5 W |
| | At a rated voltage of 32 V | – | – | – | 7.6 W | – |
| Safety | | | | | | |
| Safe separation | Creepage distances and clearances | >6 mm | | | | |
| Insulation class | | E | | F | | |
| Test voltage (50 Hz, 1 s) | Primary against secondary winding | 4 kV | | | | |
| Connection | | | | | | |
| Conductor cross-section | Rigid | 1 × 4 mm ² or 2 × 2.5 mm ² | | | | |
| | Flexible, with end sleeve | 1 × 2.5 mm ² or 2 × 1.5 mm ² | | | | |
| Environmental conditions | | | | | | |
| Permissible ambient temperature | | 25 °C | | | | |
| Permissible humidity | | 91% | | | | |
| Degree of protection | Acc. to EN 60629 | IP20 | | | | |
| Safety class | Acc. to EN 61140 (VDE 0140-1) | II | | | | |



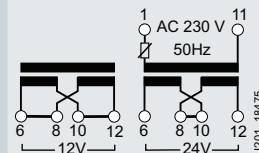
5 MW



5 MW



5 MW



40 VA

| |
|-----------|
| - |
| - |
| 4AC3740-1 |
| - |
| - |

40 VA

| |
|-----------|
| - |
| - |
| - |
| 4AC3740-0 |
| - |

63 VA

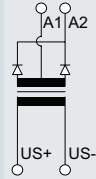
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| - |
| - |
| - |
| - |
| 4AC3763-0 |

4AC2 electronic power supply unit

SELV, short-circuit-proof



Mounting width 2 MW



| Rated operational voltage U_e | | Rated secondary voltage U_{sec} | Rated secondary current I_{sec} | Rated operational power P_s | |
|---------------------------------|--------------|-----------------------------------|-----------------------------------|-------------------------------|---------|
| AC | DC | DC | DC | | |
| 85 ... 265 V | 85 ... 300 V | 24 ±5% V | 0.35 A | 8.4 W | 4AC2402 |

Further technical specifications

| Standards | | |
|---|-----------------------------------|------------------------------------|
| Standards | | EN 60068-2, EN 61558-1, EN 61000-4 |
| Approvals | | – |
| Supply | | |
| Primary operating range | At 50/60 Hz | – |
| Rated frequency | | 50/60 Hz |
| Operating frequency range | | – |
| Rated power dissipation P_v | In no-load operation | – |
| | At rated load | – |
| Safety | | |
| Current limitation | | Electronic overload protection |
| Residual ripple | | <100 mV |
| Hum-free | Core molded | – |
| Safe separation, creepage distances and clearances | | >5.5 mm |
| Insulation class | | – |
| Test voltage (50 Hz, 1 min) | Primary against secondary winding | – |
| Insulation resistance | | 4 kV |
| Rated impulse withstand voltage / degree of pollution | Acc. to IEC 60664-1 | 6 kV/2 |
| Static discharge | Acc. to IEC/EN 61000-4-2 | 8 kV |
| RF irradiation | Acc. to IEC/EN 61000-4-3 | 10 V/m |
| Transient overvoltage (burst) | Acc. to IEC/EN 61000-4-4 | 4 kV |
| Transient overvoltage (surge) | Acc. to IEC/EN 61000-4-5 | |
| | Supply lines A1, A2 | 1 kV |
| | A1/A2 and ground | 2 kV |
| RF, conducted disturbance | Acc. to IEC/EN 61000-4-6 | 10 V |
| Interference suppression to lower limit class | Acc. to EN 61000-6-3 | Complied with |
| Connection | | |
| Terminals | Screw (slotted-head) | M2.5 |
| | ± screw (Pozidriv) | – |
| Conductor cross-section | Rigid | 0.5 ... 2.5 mm ² |
| | Flexible, with end sleeve, min. | 0.5 ... 1.5 mm ² |
| Environmental conditions | | |
| Permissible ambient temperature | | –20 ... +60 °C |
| Resistance to climate | Acc. to IEC/EN 60068-1 | 20/045/04 |
| Resistance to vibrations, frequency 10 ... 55 Hz | Acc. to IEC/EN 60068-2-6 | 0.35 mm amplitude |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors |
| Safety class | Acc. to EN 61140 | II |

5TE6 socket outlet for modular installation devices

SCHUKO® socket outlet DIN VDE 0620-1

Version



| Rated operational voltage U_e | Rated operational current I_e | Mounting width | | |
|--|---------------------------------|----------------|---------|---------|
| Without hinged lid¹⁾ | | | | |
| 125 V AC | 15 A | 2.5 MW | – | – |
| 230 V AC | 16 A | 2.5 MW | 5TE6800 | – |
| With hinged lid²⁾ | | | | |
| 230 V AC | 16 A | 2.5 MW | – | 5TE6801 |

Accessories

5TE6 hinged lids for socket outlets



| Mounting width | Article No. | Article No. |
|----------------|-------------|-------------|
| 2.5 MW | 5TE9120 | – |




¹⁾ The lids can be retrofitted on all devices.

²⁾ In distribution boards with 55 mm mounting depth, the socket outlet can only be used without the hinged lid.

³⁾ In system components where equipment is still live even after the main switch has been disconnected, this must be indicated according to EN 50110-1 (VDE 0105-1) and IEC/EN 60204-1/VDE 0113-1. Yellow socket outlets are used for these applications.

Further technical specifications

| | 5TE6800 5TE6801 5TE6810 | 5TE6802 | 5TE6803 | 5TE6804 |
|---------------------------------|-------------------------------|---|------------------------|--|
| Standards | | | | |
| Standards | VDE 0620-1 | CEI 23-50 | CEE 7 standard sheet V | UL 498 |
| Approvals | VDE 0620-1 | – | | UL File No. E258598/ CSA C22.2 No. 182.3M |
| Connection | | | | |
| Terminals | ± screw (Pozidriv) | PZ1 | | |
| Terminal tightening torque | Max. | 0.8 ... 1 Nm | | |
| Stripped length | | 10 mm | | |
| Conductor cross-section | Rigid | 1.5 ... 6 mm ² (AWG 10 ... 14) | | |
| | Flexible, with end sleeve | 0.5 ... 4 mm ² (AWG 14) | | |
| Environmental conditions | | | | |
| Permissible ambient temperature | | –10 ... +55 °C | | |
| Degree of protection | Acc. to EN 60529 | IP20, with connected conductors | | |
| Mounting position | Without lid | Any | | |
| | With lid | Horizontally or vertically | | |

| | Socket outlets CEE 7 standard sheet V With grounding pin | Socket outlets CEI 23-50 | Socket outlets UL 498 |
|-------------------------------|---|---|---|
| Yellow RAL 1018 ³⁾ |  |  |  |
| – | – | – | 5TE6804 |
| 5TE6810 | 5TE6803 | – | – |
| – | – | 5TE6802 | – |
| Article No. | Article No. | Article No. | Article No. |
| – | 5TE9120 | – | 5TE9120 |

Simplified distribution board design and time-saving assembly

Simplified assembly and connection of electrical power distribution systems and devices ensures that customer requirements can be met more quickly and flexibly.

In addition, installation and plant engineers benefit from a simplified configuration and reduced space requirements in distribution systems and control cabinets.

Our busbar systems for electrical installations offer a particularly easy way of fitting distribution systems with electrotechnical components.

The modular design saves space, while quick assembly contacts ensure fast mounting.



Busbar Systems



| | |
|------------------------------------|-------|
| All the information you need | 13/2 |
| System overview | 13/4 |
| Quick selection guide | 13/5 |
| 40 mm 8US busbar system | 13/6 |
| Basic assemblies | 13/6 |
| 60 mm 8US compact busbar system | 13/7 |
| Basic assemblies | 13/7 |
| Infeeds and connection methods | 13/8 |
| Built-in components | 13/8 |
| Device adapters | 13/10 |
| 60 mm 8US busbar system | 13/12 |
| Basic assemblies | 13/12 |
| Infeeds and connection methods | 13/16 |
| Built-in components | 13/22 |
| Device adapters and device holders | 13/26 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about busbar systems, please visit our website

www.siemens.com/lowvoltage

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Busbar systems sie.ag/2IXoUFI

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.

www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Busbar systems (81379793)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Technical overview – Busbar systems



The fast way to get you to our online services

This page provides you with comprehensive information and links on busbar systems

www.siemens.com/lowvoltage/product-support (109769087)

System overview

1 Basic assemblies



Busbar supports



N/PE busbar supports

Accessories



Flat copper profiles



TT special profiles



Connection pieces



Cover profiles



Blanking covers

2 Infeeds and connection methods



Connection modules



Terminals

Accessories



Covers

3 Built-in components



Bus-mounting fuse bases



Bus-mounting fuse holders



Bus-mounting switch disconnectors

Accessories



Covers



Auxiliary switches



Lateral modules

4 Device adapters



Device adapters



Device holders

Accessories



N/PE modules



Lateral modules

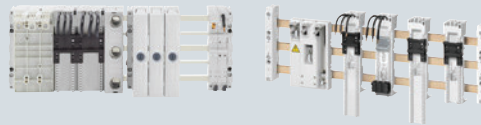


Vibration & shock kits

Note:

You will find a detailed range of accessories with the basic units.

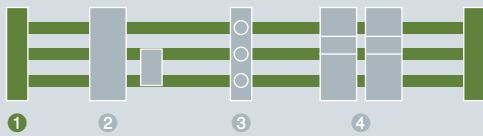
Quick selection guide



| | | 40 mm busbar system | 60 mm compact busbar system | 60 mm busbar system flat copper profile | 60 mm busbar system TT profile |
|--|--------|--------------------------|------------------------------------|---|--------------------------------------|
| Busbars | | | | | |
| Busbar center-to-center spacing | | 40 mm | 60 mm | 60 mm | 60 mm |
| Flat copper profiles | 5 mm | 12 × 5 mm 15 × 5 mm | 12 × 5 mm | 12 × 5 mm 15 × 5 mm 20 × 5 mm 25 × 5 mm 30 × 5 mm | – |
| | 10 mm | 12 × 10 mm 15 × 10 mm | 12 × 10 mm | 20 × 10 mm 30 × 10 mm | – |
| TT special profile | | – | – | – | 2400 × 30 × 40 mm |
| Rated values | | | | | |
| Rated current I_e | IEC | 200 ... 360 A | 200 ... 360 A | 200 ... 900 A | 1020 ... 1600 A |
| | UL 508 | – | 300 A | 630 A | 1400 A |
| Rated voltage U_e | IEC | 690 V AC | 690 V AC | 690 V AC | 690 V AC |
| | UL 508 | – | 600 V AC | 600 V AC | 600 V AC |
| Standards | | | | | |
| IEC | | ■ | ■ | ■ | ■ |
| UL 508 | | ■ | ■ | ■ | ■ |
| Connection modules and terminals for | | | | | |
| Circular conductors | IEC | – | Cu 1.5 ... 150 mm ² | Cu 1.5 ... 300 mm ² Al 95 ... 300 mm ² | Cu 16 ... 300 mm ² |
| | UL 508 | – | Cu AWG 2 ... MCM 300 | Cu AWG 16 ... MCM 600 Al AWG 3 | Cu AWG 4 ... MCM 600 |
| Laminated copper | | – | Cu lam. 15 ... 20 × 5 ... 10 mm | Cu lam. 3 × 20 × 1 ... 10 × 32 × 1 mm | Cu lam. 2 × 40 × 10 mm |
| Cable lugs | | – | – | Max. 240 mm ² | – |
| Built-in components for | | | | | |
| NEOZED bus-mounting fuse bases | | – | ■ | ■ | ■ |
| DIAZED bus-mounting fuse bases | | – | – | ■ | ■ |
| Bus-mounting fuse holders for cylindrical fuses 10 × 38 mm | | – | – | ■ | ■ |
| Class CC bus-mounting fuse holders | | – | – | ■ | ■ |
| Class J bus-mounting fuse holders | | – | – | ■ | ■ |
| NEOZED bus-mounting switch disconnectors | | – | – | ■ | ■ |
| Device adapters for | | | | | |
| Universal application 3P / 5P | | – | ■ / ■ | ■ / ■ | ■ / ■ |
| Molded case circuit breakers | | – | ■ | ■ | ■ |
| Switch disconnectors | | – | – | ■ | ■ |
| Fuse switch disconnectors | | – | – | ■ | ■ |
| SIRIUS 3RM1 motor starters | | – | ■ | – | – |
| SIRIUS load feeders | | – | – | ■ | ■ |
| 3RM193 fuse module | | – | ■ | – | – |
| 5SY miniature circuit breakers | | – | ■ | – | – |
| More information | | | | | |
| Catalog LV 10 | | See page 13/6 | See page 13/7 | See page 13/12 | See page 13/14 |

1 Basic assemblies

For 40 mm 8US busbar system up to 400 A



| No. of poles | Busbar supports | |
|--------------|---|---|
| | 3P | 5P |
| |  |  |

| Flat copper profiles | | | | Rated voltage U_e IEC | Standard | Connection L1–L3 | Connection L1–L3 + N + PE/N |
|--------------------------|-----------|------------|------------|----------------------------|----------|-----------------------------|--------------------------------|
| 12 × 5 mm | 15 × 5 mm | 12 × 10 mm | 15 × 10 mm | | | | |
| Interior mounting | | | | | | | |
| ■ | ■ | ■ | ■ | 690 V AC | IEC | 8US1903-3AB00 ¹⁾ | – |
| ■ | – | ■ | – | 690 V AC | IEC | – | 8US1903-5AA00 |

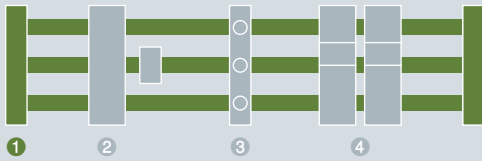
¹⁾ One package contains 2 busbar supports including inlay parts for bar thickness 5 mm and lateral finger-safe covers.

Suitable accessories

| | | | | | 3P | 5P |
|---|-----------------|---------|-----------|---------------|---------------|----|
| Flat copper profile | | | | | | |
|  | Surface | Length | Size | Article No. | Article No. | |
| | Bare | 2400 mm | 12 × 5 mm | 8WC5123 | 8WC5123 | |
| | | | 15 × 5 mm | 8WC5121 | – | |
| Cover profiles for busbars | | | | | | |
|  | Material | Length | Size | Article No. | Article No. | |
| | Plastic profile | 1000 mm | 12 × 5 mm | 8US1922-2CA00 | 8US1922-2CA00 | |
| | | | 15 × 5 mm | 8US1922-2AA00 | – | |

1 Basic assemblies

For 8US compact busbar system up to 360 A (3P) or 200 A (5P)



| No. of poles | Busbar supports ¹⁾ |
|--------------|-------------------------------|
| 3P / 5P | |

| Flat copper profiles | | Rated voltage U_e | | Short-circuit current rating SCCR | | Standard | Dimensions | Min. order quantity | Connection |
|--------------------------|------------|---------------------|----------|-----------------------------------|--------|----------|------------------|---------------------|------------------|
| 12 × 5 mm | 12 × 10 mm | IEC | UL 508 | 3-pole | 5-pole | | | | L1–L3 + N + PE/N |
| Interior mounting | | | | | | | | | |
| ■ | ■ | 690 V AC | – | 54 kA | 32 kA | IEC | 12 × 160 × 45 mm | 10 units | 8US1923-5CA02 |
| | | – | 600 V AC | 18 kA | – | UL 508 | 12 × 160 × 45 mm | 10 units | 8US1923-5CA02 |

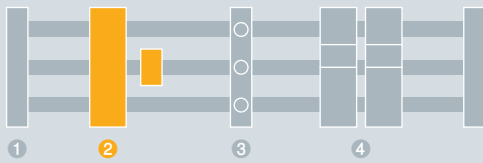
¹⁾ Including end cover

Suitable accessories

| Flat copper profiles | | | | |
|---|---|------------------------|---------------|---------------|
| | Surface | Length | Size | Article No. |
| | Bare | 2400 mm | 12 × 5 mm | 8WC5123 |
| UL spacers for busbar supports | | | | |
| | Dimensions | Minimum order quantity | Height | Article No. |
| | 12 × 160 × 18 mm | 10 units | 18 mm | 8US1922-1CA02 |
| Stabilizing modules | | | | |
| | <ul style="list-style-type: none"> Only for 12 × 5 mm busbars For protecting the N and PE busbars against bending | | | |
| | Dimensions | Minimum order quantity | Article No. | |
| | 2 × 160 × 47 mm | 10 units | 8US1928-5CA02 | |
| Cover profiles | | | | |
| | Dimensions | Minimum order quantity | Article No. | |
| | 700 × 160 × 63 mm | 2 units | 8US1922-2CB02 | |
| Holders for 8US1922-2CB02 cover profile | | | | |
| | Dimensions | Minimum order quantity | Article No. | |
| | 5 × 156 × 55 mm | 10 units | 8US1922-2CA02 | |

② Infeeds and connection methods

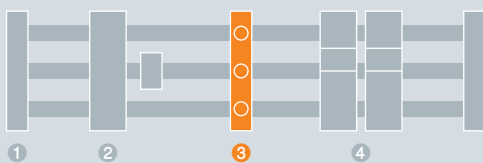
For 8US compact busbar system up to 360 A (3P) or 200 A (5P)



| Conductor cross-section | Rated current I_e | | Rated voltage U_e | | Rated peak with-stand current IEC I_{pk} Max. | Standard | Minimum order quantity | Dimensions |
|----------------------------|---------------------|--------|---------------------|----------|--|-------------|------------------------|---------------|
| | IEC | UL 508 | IEC | UL 508 | | | | |
| Spring terminal | | | | | | | | |
| 1.5 ... 16 mm ² | 63 A | 48 A | 690 V AC | 600 V AC | 10 kA | IEC, UL 508 | 6 units | 20×160×91 mm |
| Connecting terminal | | | | | | | | |
| 6 ... 50 mm ² | 175 A | 175 A | 690 V AC | 600 V AC | 40.5 kA | IEC, UL 508 | 1 unit | 54×160×115 mm |
| 10 ... 120 mm ² | 250 A | 200 A | 690 V AC | 600 V AC | 35.4 kA | IEC, UL 508 | 1 unit | 90×160×80 mm |
| | | | 690 V AC | 600 V AC | 35.1 kA | IEC, UL 508 | 1 unit | 30×160×80 mm |
| | | | 690 V AC | 600 V AC | 35.4 kA | IEC, UL 508 | 1 unit | 30×160×80 mm |
| 35 ... 150 mm ² | 275 A | 285 A | 690 V AC | 600 V AC | 45.9 kA | IEC, UL 508 | 1 unit | 90×160×115 mm |

③ Built-in components

For 8US compact busbar systems up to 360 A (3P)



Number of poles
Mounting width

| Conductor cross-section | For flat copper profiles | | Rated current I_e IEC | Rated voltage U_e IEC | Standard | Minimum order quantity |
|-------------------------------------|--------------------------|----------|----------------------------|----------------------------|----------|------------------------|
| | 12×5 mm | 12×10 mm | | | | |
| Box terminals | | | | | | |
| Rigid 1.5 ... 10 mm ² | ■ | ■ | 63 A | 400 V AC | IEC | 6 units |
| Flexible 1.5 ... 25 mm ² | ■ | ■ | | | | |

See NEOZED screw caps, NEOZED adapter sleeves and NEOZED fuse links, [from page 7/1](#)

For 12 × 5 mm and 12 × 10 mm flat copper profiles
For 3-pole system (up to 360 A)



Connection modules

3P

8US1921-1BA02

8US1921-1CB02

–

–

8US1921-1CC02

For 5-pole system (up to 200 A)



Connection modules

3P

–

–

8US1921-1CD02

–

–



Connection modules

N

–

–

8US1921-1CE02

–

–



Connection modules

PE

–

–

–

8US1921-1CF02

–

NEOZED bus-mounting bases

Size D02

3P

2 MW

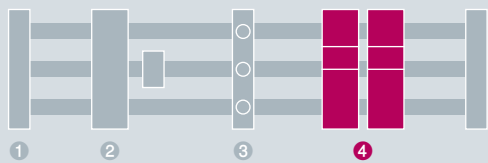


With touch protection

5SG6208

4 Device adapters

For 8US compact busbar system up to 360 A (3P) or 200 A (5P)




For 3-pole system
For universal
applications




| Rated current I_n | Rated voltage U_n | | Standard | For flat copper profiles | | Dimensions | Min. order quantity | | |
|---------------------|---------------------|----------|----------|--------------------------|--------|------------|----------------------|----------|---------------|
| | IEC | UL 508 | | IEC | UL 508 | | | | 12 × 5 mm |
| 16 A | – | 690 V AC | – | IEC | – | – | 160 × 22.5 × 122 mm | 4 units | – |
| | | | | | | | 200 × 22.5 × 122 mm | 5 units | – |
| 25 A | – | 690 V AC | – | IEC | ■ | – | 160 × 22.5 × 41.5 mm | 5 units | – |
| | | | | | | | 185 × 22.5 × 23.5 mm | 5 units | – |
| | | | | | | | 200 × 22.5 × 41.5 mm | 5 units | – |
| 32 A | – | 690 V AC | – | IEC | ■ | – | 160 × 18 × 73 mm | 12 units | – |
| | 25 A | 690 V AC | 600 V AC | IEC, UL 508 | ■ | ■ | 160 × 45 × 63 mm | 4 units | 8US1651-5DK02 |
| 63 A | – | 690 V AC | – | IEC | ■ | – | 160 × 18 × 73 mm | 12 units | – |
| | | | | | | | 160 × 18 × 82 mm | 12 units | – |
| | 65 A | 690 V AC | 600 V AC | IEC, UL 508 | ■ | ■ | 160 × 54 × 63 mm | 4 units | 8US1661-5FK02 |
| 144 A | – | 690 V AC | – | IEC | ■ | ■ | 160 × 77 × 35 mm | 1 unit | – |

Suitable accessories

N modules

| | Rated voltage U_n | Connecting terminal | Dimensions | Minimum order quantity | Article No. |
|---|---------------------|----------------------------|------------------|------------------------|-------------|
|  | 690 V AC | 1.5 ... 16 mm ² | 9 × 160 × 114 mm | 12 units | – |

PE modules

| | Rated voltage U_n | Connecting terminal | Dimensions | Minimum order quantity | Article No. |
|---|---------------------|----------------------------|------------------|------------------------|-------------|
|  | 690 V AC | 1.5 ... 16 mm ² | 9 × 160 × 114 mm | 12 units | – |


Support modules







| | Dimensions | Minimum order quantity | Article No. |
|---|------------------|------------------------|---------------|
|  | 18 × 160 × 54 mm | 6 units | 8US1620-5AK02 |

Lateral modules

| | Dimensions | Minimum order quantity | Article No. |
|---|-----------------|------------------------|---------------|
|  | 9 × 160 × 47 mm | 12 units | 8US1998-2BH02 |

Set of module connectors

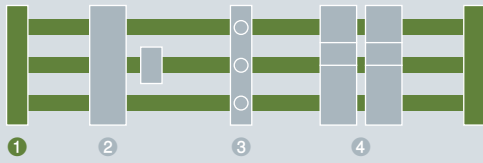
| | Purpose | Package | Article No. |
|---|-------------------------|--------------------|-------------|
|  | For connecting adapters | 1 pack = 100 units | – |

| For 3-pole system For 3VA10/11 molded case circuit breakers | For 5-pole system For universal applications | For SIRIUS 3RM1 motor starters and for relays | For 3RM193 fuse module | | For 5SY miniature circuit breakers |
|--|---|---|---|---|---|
|  |  |  |  |  |  |
| With latching function | Adapters, 1-pole | With fuse module and DIN mounting rail | | With DIN mounting rail | Adapters, 1-pole |
| – | – | 8US1615-5CK10 | – | – | – |
| – | – | 8US1215-5CS10 | – | – | – |
| – | – | – | 8US1616-0AK02 | – | – |
| – | – | – | – | 8US1716-0RK00 | – |
| – | – | – | 8US1216-0AS00 | – | – |
| – | 8US1621-2NJ02 | – | – | – | – |
| – | – | – | – | – | – |
| – | 8US1621-2FK02 | – | – | – | – |
| – | – | – | – | – | 8US1624-2FK02 |
| – | – | – | – | – | – |
| 8US1613-4AU01 | – | – | – | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|---------------|---------------|
| – | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| – | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| – | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 |

1 Basic assemblies

Up to 630 A




| Flat copper profiles | | | | | | | Standard |
|--------------------------|-----------|-----------|-----------|-----------|------------|------------|-----------------------------------|
| 12 × 5 mm | 15 × 5 mm | 20 × 5 mm | 25 × 5 mm | 30 × 5 mm | 20 × 10 mm | 30 × 10 mm | |
| Interior mounting | | | | | | | |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | IEC 61439-1 |
| – | – | ■ | – | – | ■ | ■ | IEC 61439-1, UL 508 ¹⁾ |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | IEC 61439-1 |
| ■ | – | ■ | – | ■ | ■ | ■ | IEC 61439-1 |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | IEC 61439-1, UL 508 |
| Exterior mounting | | | | | | | |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | IEC 61439-1 |
| ■ | ■ | ■ | ■ | ■ | ■ | ■ | IEC 61439-1 |

¹⁾ Only with base plate 8US1922-2UA01

Suitable accessories





| Flat copper profile | | | | | | | |
|---------------------|---------|------------|---------------|---------------------|----------|---------------|--|
| Surface | Length | Size | Rated current | Cross-section | Standard | Article No. | |
| Bare | 1100 mm | 25 × 5 mm | 400 A | 125 mm ² | EN 12167 | 8WC5031-1AA00 | |
| | | 30 × 5 mm | 447 A | 150 mm ² | EN 12167 | 8WC5033-1AA00 | |
| | 2400 mm | 12 × 5 mm | 200 A | 60 mm ² | EN 12167 | 8WC5123 | |
| | | 15 × 5 mm | 250 A | 75 mm ² | EN 12167 | 8WC5121 | |
| | | 20 × 5 mm | 320 A | 100 mm ² | EN 12167 | 8WC5126 | |
| | | 25 × 5 mm | 400 A | 125 mm ² | EN 12167 | 8WC5131 | |
| | | 30 × 5 mm | 447 A | 150 mm ² | EN 12167 | 8WC5133 | |
| | | 20 × 10 mm | 520 A | 200 mm ² | EN 12167 | 8WC5128 | |
| Tin-plated | 2000 mm | 30 × 10 mm | 630 A | 300 mm ² | EN 12167 | 8WC5134 | |
| | | 12 × 5 mm | 200 A | 60 mm ² | EN 12167 | 8WC5051 | |
| | | 15 × 5 mm | 250 A | 75 mm ² | EN 12167 | 8WC5052 | |
| | | 20 × 5 mm | 320 A | 100 mm ² | EN 12167 | 8WC5053 | |
| | | 25 × 5 mm | 400 A | 125 mm ² | EN 12167 | 8WC5054 | |
| | | 30 × 5 mm | 447 A | 150 mm ² | EN 12167 | 8WC5055 | |
| | | 20 × 10 mm | 520 A | 200 mm ² | EN 12167 | 8WC5063 | |
| | | 30 × 10 mm | 630 A | 300 mm ² | EN 12167 | 8WC5065 | |

End covers


| | | | | | | | |
|---|---|---------------------------|--|--------|-----------------|--------------------|--|
|  | • For covering free busbar ends | | | | | | |
| | For connection | For busbar support | | | Standard | Article No. | |
| L1–L3 | 8US1923-2AA01, 8US1923-3AA01, 8US1923-3UA01 | | | UL 508 | 8US1922-1AC00 | | |

Cover profiles for busbars


| Length | Width | Depth | Flat copper profile size | Standard | Article No. |
|---------|-------|-------|----------------------------|----------|---------------|
| 1000 mm | 15 mm | 10 mm | 12 × 5 mm | UL 508 | 8US1922-2CA00 |
| | 40 mm | 9 mm | 15, 20, 25, 30 × 5 mm | UL 508 | 8US1922-2AA00 |
| | 40 mm | 14 mm | 12, 15, 20, 25, 30 × 10 mm | UL 508 | 8US1922-2BA00 |

| No. of poles | End and intermediate holders | | | N/PE busbar supports |
|--------------|---|---|---|---|
| | 3P | 2P | 4P | 1P |
| |  |  |  |  |
| | Connection L1-L3 | Connection L1-L3 + PE/N | Connection L1-L3 + PE/N | Connection PE/N |
| | 8US1923-3AA01 | – | – | – |
| | 8US1923-3UA01 | – | – | – |
| | – | – | 8US1923-4AA00 | – |
| | – | – | – | 5SH3540 |
| | – | – | – | 8US1923-1AA01 |
| | 8US1923-2AA01 | – | – | – |
| | – | 8US1923-5AA00 | – | – |

Blanking covers

| | Length | Height | Depth | Standard | Article No. |
|---|--------|--------|-------|----------|---------------|
|  | 700 mm | 195 mm | 63 mm | UL 508 | 8US1922-2EB00 |



Supports for blanking covers

| | Depth | Standard | Article No. |
|---|--------|----------|---------------|
|  | 32 mm | UL 508 | 8US1922-2EA00 |
| | 107 mm | UL 508 | 8US1922-2EA01 |

Base plates

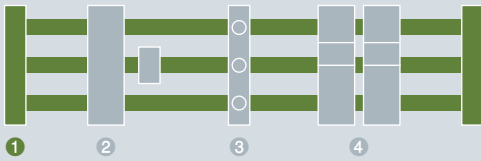
| | Version | Length | Width | Standard | Article No. |
|---|-------------------|---------|--------|----------|---------------|
|  | For 3-pole system | 1100 mm | 240 mm | UL 508 | 8US1922-2UA01 |

Connecting piece for flat copper profiles

| | Length | For flat copper profiles | Article No. |
|---|--------|--|---------------|
|  | 40 mm | 20×5 mm, 25×5 mm, 30×5 mm, 20×10 mm, 25×10 mm, 30×10 mm | 8US1921-2BE00 |
|  | 55 mm | 12×5 mm, 15×5 mm, 20×5 mm 12×10 mm, 15×10 mm, 20×10 mm | 8US1921-2BF00 |

1 Basic assemblies

Up to 1600 A



No. of poles **3P**

Busbar supports



| Copper profile | Rated current I_n | | Rated voltage U_n | | Short-circuit current rating SCCR | | Standard | Connection |
|--------------------------|---------------------|--------|---------------------|----------|-----------------------------------|--------|-------------|---------------|
| | IEC | UL 508 | IEC | UL 508 | IEC | UL 508 | | |
| Interior mounting | | | | | | | | |
| TT special profile | 1600 A | 1400 A | 690 V AC | 600 V AC | 90 kA | 100 kA | IEC, UL 508 | 8US1943-3AA00 |

1 pack = 2 busbar supports + finger-safe end covers

Suitable accessories

TT special copper profile

| Surface | Length | Rated current | Rated voltage | Cross-section | Article No. |
|------------|---------|---------------|---------------|---------------------|---------------|
| Tin-plated | 2400 mm | 1600 A | 690 V AC | 720 mm ² | 8US1948-2AA00 |

Cover profile for TT special copper profile

| Length | Article No. |
|---------|---------------|
| 1000 mm | 8US1922-2DA00 |

Blanking covers

| Length | Height | Depth | Standard | Article No. |
|--------|--------|-------|----------|---------------|
| 700 mm | 195 mm | 63 mm | UL 508 | 8US1922-2EB00 |

Supports for blanking covers

| Depth | Standard | Article No. |
|--------|----------|---------------|
| 32 mm | UL 508 | 8US1922-2EA00 |
| 107 mm | UL 508 | 8US1922-2EA01 |

Connecting piece for TT special profile

| Article No. |
|---------------|
| 8US1941-2BF01 |

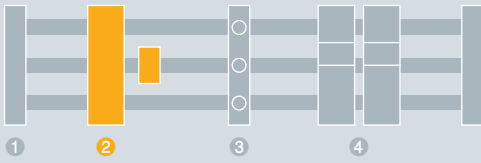
Partitions, closed

| Length | Depth | Article No. |
|---------|-------|---------------|
| 2400 mm | 76 mm | 8US1922-1JA00 |

- For additional lateral touch protection at the top / bottom

② Infeeds and connection methods

Up to 1600 A



| Conductor cross-section, circular conductor | | Conductor cross-section, laminated copper | Rated current I_e | | Rated voltage U_e | | Standard | Length |
|---|----------------------|---|---------------------|--------|---------------------|----------|-------------|--------|
| IEC | UL 508 | | IEC | UL 508 | IEC | UL 508 | | |
| With cover | | | | | | | | |
| Cu 1.5 ... 16 mm ² | Cu AWG 16 ... 4 | Cu lam. 8 × 6 × 0.5 mm | 63 A | 48 A | 690 V AC | 600 V AC | IEC, UL 508 | 200 mm |
| Cu 6 ... 50 mm ² | Cu AWG 10 ... 2 | – | 175 A | 175 A | 690 V AC | 600 V AC | IEC, UL 508 | 200 mm |
| Cu 25 ... 120 mm ² | Cu AWG 6 ... MCM 250 | – | 250 A | 250 A | 690 V AC | 600 V AC | IEC, UL 508 | 200 mm |
| Cu 95 ... 300 mm ² | AWG 3/0 ... MCM 600 | – | 500 A | 420 A | 690 V AC | – | IEC, UL 508 | 200 mm |
| Al 120 ... 240 mm ² | | | | | | | | |
| Without cover | | | | | | | | |
| Cu 95 ... 300 mm ² | AWG 3/0 ... MCM 600 | – | 500 A | 420 A | 690 V AC | 600 V AC | IEC, UL 508 | 184 mm |
| – | – | Cu lam. 3 × 20 × 1 ... 10 × 32 × 1 mm | 550 A | 420 A | 690 V AC | 600 V AC | IEC, UL 508 | 184 mm |
| For 4th pole (PE/N)²⁾ | | | | | | | | |
| Cu 1.5 ... 16 mm ² | – | – | – | – | 690 V AC | 600 V AC | IEC, UL 508 | 242 mm |

¹⁾ Shown without cover

²⁾ For mounting on device adapter or device holder

Suitable accessories

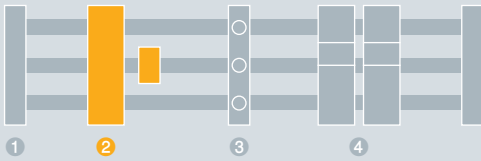
Cover for connection module



| Connection modules | | | | | |
|---|--------------------|--|--------------------|----------------------|--------------------|
| For 5 mm and 10 mm flat copper profiles | | For 5 mm and 10 mm flat copper profiles and TT special profile | | For laminated copper | |
| Width | Connection modules | Connection modules | Connection modules | Connection modules | Connection modules |
| | 3P | 3P | 3P | PE/N | 3P |
| 20 mm | 5SH3538 | – | – | – | – |
| 54 mm | – | – | 8US1921-1BA00 | – | – |
| 81 mm | – | – | 8US1921-1AA00 | – | – |
| 135 mm | – | 5SH3535 ¹⁾ | – | – | – |
| 153 mm | – | – | – | – | 8US1941-2AA03 |
| 153 mm | – | – | – | – | 8US1941-2AA04 |
| 18 mm | – | – | – | 8US1200-0AA00 | – |
| | Article No. | Article No. | Article No. | Article No. | Article No. |
| | – | – | – | – | 8US1922-1GC00 |

② Infeeds and connection methods

Up to 1600 A



| Conductor cross-section, circular conductor | | Conductor cross-section, laminated copper | Rated current I _e | | Rated voltage U _e | | Standard | Minimum order quantity |
|---|-------------------|--|------------------------------|--------|------------------------------|----------|-------------|------------------------|
| IEC | UL 508 | | IEC | UL 508 | IEC | UL 508 | | |
| Cu 1.5 ... 16 mm ² | AWG 16 ... 6 | Cu lam. 8×6×0.5 mm | 65 A | 55 A | 690 V AC | 600 V AC | IEC, UL 508 | 15 units 100 units |
| Cu 4 ... 35 mm ² | AWG 10 ... 2 | Cu lam. 3×9×0.8 mm, Cu lam. 6×9×0.8 mm | 115 A | 115 A | 690 V AC | 600 V AC | IEC, UL 508 | 15 units 50 units |
| Cu 16 ... 70 mm ² | AWG 4 ... 2/0 | Cu lam. 2×9×0.8 mm Cu lam. 6×9×0.8 mm Cu lam. 6×13×0.5 mm | 175 A | 175 A | 690 V AC | 600 V AC | IEC, UL 508 | 15 units 50 units |
| Cu 16 ... 120 mm ² | AWG 4 ... MCM 250 | Cu lam. 4×15.5×0.8 mm Cu lam. 6×15.5×0.8 mm Cu lam. 10×15.5×0.5 mm | 250 A | 255 A | 690 V AC | 600 V AC | IEC, UL 508 | 15 units 50 units |

Suitable accessories

Terminal covers for circular conductors



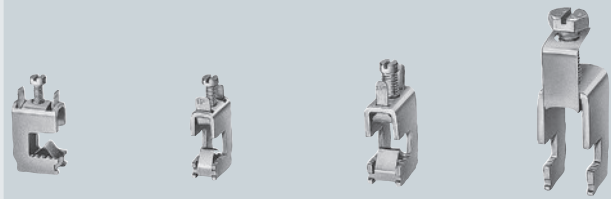
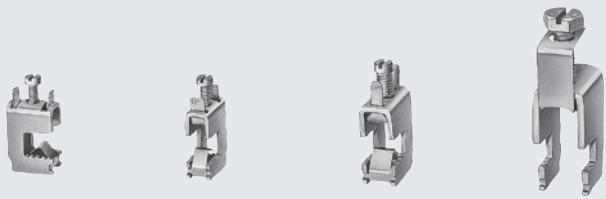
- Fixing to busbar

| Length | Width |
|--------|-------|
| 200 mm | 84 mm |

Terminals

For 12 × 5 mm, 15 × 5 mm, 20 × 5 mm, 25 × 5 mm and 30 × 5 mm flat copper profiles

For 12 × 10 mm, 15 × 10 mm, 20 × 10 mm, 25 × 10 mm and 30 × 10 mm flat copper profiles and TT special profile

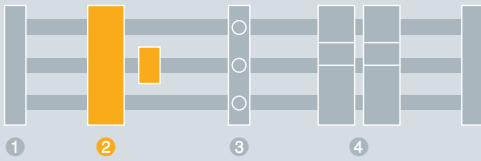


| | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 8US1921-2AA01 | – | – | – | 8US1921-2BA01 | – | – | – |
| 8US1921-2AA00 | – | – | – | 8US1921-2BA00 | – | – | – |
| – | 8US1921-2AB01 | – | – | – | 8US1921-2BB01 | – | – |
| – | 8US1921-2AB00 | – | – | – | 8US1921-2BB00 | – | – |
| – | – | 8US1921-2AD01 | – | – | – | 8US1921-2BD01 | – |
| – | – | 8US1921-2AD00 | – | – | – | 8US1921-2BD00 | – |
| – | – | – | 8US1921-2AC01 | – | – | – | 8US1921-2BC01 |
| – | – | – | 8US1921-2AC00 | – | – | – | 8US1921-2BC00 |

| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 | 8US1922-1GA00 |

② Infeeds and connection methods

Up to 1600 A



| Conductor cross-section, circular conductor | | Conductor cross-section, laminated copper | Conductor cross-section, cable lugs | Rated current I _e | | Rated voltage U _e | | Standard |
|---|---------------------|---|-------------------------------------|------------------------------|--------|------------------------------|----------|----------------|
| IEC | UL 508 | | | IEC | UL 508 | IEC | UL 508 | |
| Cu 95 ... 185 mm ² Al 95 ... 185 mm ² | AWG 3/0 ... MCM 350 | – | – | 300 A | 310 A | 690 V AC | 600 V AC | IEC, UL 508 |
| Cu 95 ... 300 mm ² Al 120 ... 140 mm ² | AWG 3/0 ... MCM 600 | – | – | 500 A | 420 A | 690 V AC | 600 V AC | IEC, UL 508 |
| – | – | Cu lam. 3×20× 1 ... 10×24×1 mm | – | 500 A | 420 A | 690 V AC | 600 V AC | IEC, UL 508 |
| – | – | Cu lam. 2×40×10 mm | – | 1250 A | – | 690 V AC | – | IEC |
| – | – | – | Max. 240 mm ² | 630 A | – | 690 V AC | – | IEC |

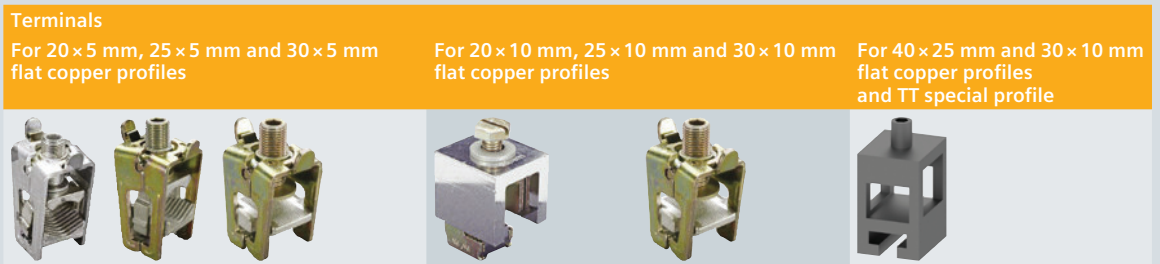
Suitable accessories

Terminal covers for circular conductors



- Fixing to busbar

| Length | Width |
|--------|--------|
| 200 mm | 270 mm |



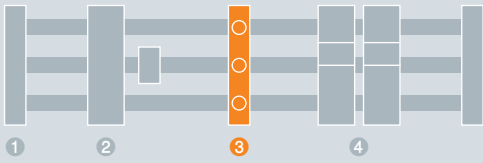
Fixing

| | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|
| - | 8US1941-2AA01 | - | - | - | - |
| - | 8US1941-2AA02 | - | - | - | - |
| M16 threaded pin, size 8 Allen key | - | 8US1941-2BB00 | - | 8US1941-2BB00 | - |
| M16 threaded pin, size 8 Allen key | - | - | - | - | 8US1941-2BA00 |
| M16 threaded pin, size 8 Allen key, M10 hexagon bolt, width across flats 17 | - | - | 8US1941-2AC00 | - | - |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|-------------|-------------|-------------|-------------|
| 8US1922-1GA02 | - | - | - | - |

3 Built-in components

Up to 630 A



NEOZED bus-mounting fuse bases Size D02

Mounting width

1.5 MW

1.5 MW

2 MW



| For flat copper profiles | Rated current I _e | | Rated voltage U _e | | Standard | Standard | With touch protection | | | |
|--------------------------|------------------------------|--------|------------------------------|----------|----------|----------|-----------------------|---------|---------|---|
| | IEC | UL 508 | IEC AC | IEC DC | | | UL | | | |
| Box terminals | | | | | | | | | | |
| 5 mm and 10 mm | 25 A | – | 500 V AC | – | – | IEC | – | – | | |
| | 63 A | – | 400 V AC | 250 V DC | – | IEC | 5SG6202 | 5SG6206 | 5SG6207 | |
| | | | 690 V AC | – | – | IEC | – | – | – | |
| | – | 30 A | 690 V AC | – | 600 V AC | IEC, | – | – | – | |
| | | | | – | 600 V AC | | – | – | – | |
| | | | 100 A | – | 600 V AC | | c | – | – | – |
| | | | 200 A | – | 600 V AC | | c | – | – | – |
| | 400 A | – | 600 V AC | | c | – | – | – | | |

Suitable accessories

NEOZED SR60 covers for standard version










| Size | Version | Mounting width | Article No. | Article No. | Article No. |
|------|-------------------|----------------|-------------|-------------|-------------|
| D02 | Standard | 1.5 MW | 5SH5241 | – | – |
| | Extra wide | 2 MW | 5SH5242 | – | – |
| | With double width | 3 MW | 5SH5243 | – | – |

DIAZED SR60 covers for standard version

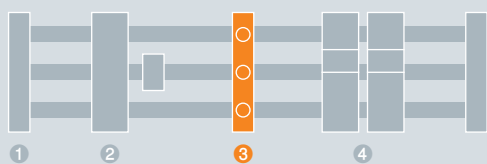


| Size | Mounting width | Article No. | Article No. | Article No. |
|------|----------------|-------------|-------------|-------------|
| DII | 2.3 MW | – | – | – |
| DIII | 3.2 MW | – | – | – |

| DIAZED bus-mounting fuse bases | | Bus-mounting fuse holders | | | | |
|--|---|---|---|--|---|---|
| Size DII | Size DIII | Cylindrical fuses 10 x 38 mm | Class CC | Class J | | |
| 2.3 MW | 3.2 MW | 1.5 MW | 1.5 MW | 106 mm | 184 mm | 256 mm |
|  |  |  |  |  |  |  |
| Standard | With touch protection | | | 3P | 3P | 3P |
| 5SF6015 | 5SF6020 | - | - | - | - | - |
| - | - | - | - | - | - | - |
| 5SF6215 | 5SF6220 | - | - | - | - | - |
| - | - | 3NW7431 | - | - | - | - |
| - | - | - | 3NW7431-0HG | - | - | - |
| - | - | - | - | 3NW7431-6HG | - | - |
| - | - | - | - | - | 3NW7431-7HG | - |
| - | - | - | - | - | - | 3NW7431-8HG |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| 5SH2042 | - | - | - | - | - | - |
| 5SH2242 | - | - | - | - | - | - |

3 Built-in components

Up to 630 A



NEOZED bus-mounting switch disconnectors Size D02

Mounting width

1.5 MW 1.5 MW 1.5 MW



| For flat copper profiles | Rated current I_n | | Rated voltage U_n | | | Standard | Without LED signal detector | | With LED signal detector |
|--------------------------|---------------------|--------|---------------------|----------|--------|----------|-----------------------------|-----------------------|--------------------------|
| | IEC | UL 508 | IEC AC | IEC DC | UL 508 | | | | |
| Box terminals | | | | | | | | | |
| 5 mm and 10 mm | 63 A | – | 400 V AC | – | – | IEC | 5SG7234-1 ²⁾ | – | 5SG7234-2 ²⁾ |
| | | | | 110 V DC | – | IEC | – | 5SG7230 ¹⁾ | – |

¹⁾ From 35 A current load use 5SH5526 lateral module

²⁾ From 35 A current load use 5SH5533 lateral module

Suitable accessories

Auxiliary switches



- For signaling the switching state for bus-mounting switch disconnectors

| Contacts | Mounting width | Article No. | Article No. | Article No. |
|--------------|----------------|-------------|-------------|-------------|
| 1 CO contact | 0.5 MW | – | 5SH5525 | – |

Lateral modules



- For greater heat dissipation for loads from 35 A

| Mounting width | Article No. | Article No. | Article No. |
|----------------|-------------|-------------|-------------|
| 0.5 MW | 5SH5533 | 5SH5526 | 5SH5533 |

Reducers

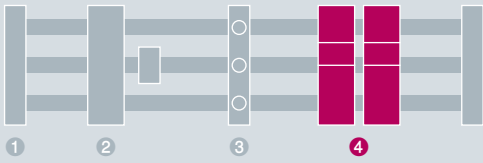


- For NEOZED D01 fuse links in SR60 bus-mounting switch disconnectors

| Article No. | Article No. | Article No. |
|-------------|-------------|-------------|
| – | 5SH5527 | – |

4 Device adapters and device holders

For universal application up to 1600 A



| Rated current I_e | | Rated voltage U_e | | Standard | For copper profiles | Adapters | | Connecting cable | | |
|---------------------|--------|---------------------|----------|-------------|-------------------------|----------|--------|------------------|------------------|--------|
| IEC | UL 508 | IEC | UL 508 | | | Width | Length | Cross-section | Max. temperature | Length |
| 25 A | 25 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 45 mm | 200 mm | AWG 12 | 150 °C | 99 mm |
| | | | | | | | 260 mm | AWG 12 | 150 °C | 167 mm |
| | | | | | | | 260 mm | AWG 12 | 150 °C | 167 mm |
| 32 A | 32 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 45 mm | 200 mm | AWG 10 | 105 °C | 118 mm |
| | | | | | | | 260 mm | AWG 10 | 150 °C | 99 mm |
| | | | | | | | 260 mm | AWG 10 | 150 °C | 167 mm |
| 80 A | 80 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 54 mm | 200 mm | AWG 4 | 150 °C | 150 mm |
| | | | | | | | 260 mm | AWG 4 | 150 °C | 150 mm |
| | | | | | | | 119 mm | 260 mm | AWG 4 | 150 °C |
| 100 A | 100 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 72 mm | 200 mm | AWG 4 | 105 °C | 210 mm |
| - | - | - | - | - | 5 mm, 10 mm, TT profile | 45 mm | 200 mm | - | - | - |
| | | | | | | | 260 mm | - | - | - |
| | | | | | | | 260 mm | - | - | - |

13

Accessories

Lateral modules



- For extending device adapters and device holders of the same length

| Length | Width |
|--------|-------|
| 200 mm | 9 mm |

Device adapters with connecting cables
For contact with busbars

Device holders
No electrical contact



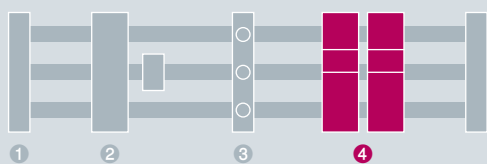
For lateral mounting
on device adapter

| | | | | | | | |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 8US1251-5DS10 | – | – | – | – | – | – | – |
| 8US1251-5DS11 | – | – | – | – | – | – | – |
| 8US1251-5DT10 | – | – | – | – | – | – | – |
| 8US1251-5DT11 | – | – | – | – | – | – | – |
| – | 8US1211-1NS10 | – | – | – | – | – | – |
| – | – | 8US1251-5NS10 | – | – | – | – | – |
| – | – | 8US1251-5NS11 | – | – | – | – | – |
| – | – | 8US1251-5NT10 | – | – | – | – | – |
| – | – | 8US1251-5NT11 | – | – | – | – | – |
| – | – | – | 8US1261-5MS13 | – | – | – | – |
| – | – | – | 8US1261-6MT10 | – | – | – | – |
| – | – | – | – | – | 8US1211-6MT10 | – | – |
| – | – | – | – | 8US1211-4TR00 | – | – | – |
| – | – | – | – | – | – | – | 8US1250-1AA10 |
| – | – | – | – | – | – | 8US1250-5AS10 | – |
| – | – | – | – | – | – | 8US1250-5AT10 | – |

| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|-------------|-------------|---------------|-------------|
| 8US1998-2BJ10 | 8US1998-2BJ10 | 8US1998-2BJ10 | 8US1998-2BJ10 | – | – | 8US1998-2BJ10 | – |

4 Device adapters and device holders

For molded case circuit breakers and switch disconnectors up to 1600 A



| Rated current I _e | | Rated voltage U _e | | Standard | For copper profile | Adapters | | Connecting cable |
|------------------------------|--------|------------------------------|----------|-------------|-------------------------|----------|--------|-------------------------|
| IEC | UL 508 | IEC | UL 508 | | | Length | Width | |
| Screw terminals | | | | | | | | |
| 80 A | 80 A | – | 600 V AC | UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 81 mm | AWG 4 |
| 125 A | 125 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 90 mm | Cu laminated 6×9×0.8 mm |
| Busbar contact | | | | | | | | |
| 144 A | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 200 mm | 76 mm | – |
| 160 A | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 175 mm | 108 mm | – |
| 250 A | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 175 mm | 108 mm | – |
| Tubular contacts | | | | | | | | |
| 150 A | 150 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 190 mm | 105 mm | – |
| 250 A | 250 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 190 mm | 105 mm | – |
| | | | | | | 240 mm | 105 mm | – |
| | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 270 mm | 140 mm | – |
| 400 A | 400 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 296 mm | 140 mm | – |
| 540 A | 540 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 296 mm | 140 mm | – |
| 580 A | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 325 mm | 184 mm | – |
| 590 A | 600 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 300 mm | 140 mm | – |
| | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 300 mm | 185 mm | – |
| M10 pin connector | | | | | | | | |
| 400 A | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 320 mm | 184 mm | – |
| 630 A | 630 A | 690 V AC | 600 V AC | IEC, UL 508 | 5 mm, 10 mm, TT profile | 320 mm | 250 mm | – |
| | – | 690 V AC | – | IEC | 5 mm, 10 mm, TT profile | 320 mm | 184 mm | – |
| | | | | | | 320 mm | 250 mm | – |

¹⁾ Observe the short-circuit strength of the busbar system: Short-circuit strength > 50 kA on request.

²⁾ Usable only for 3VL circuit breakers with line-side box terminals.

³⁾ Only for 3VL 250 A circuit breakers, for screw fixing with metric thread, for flat terminals.

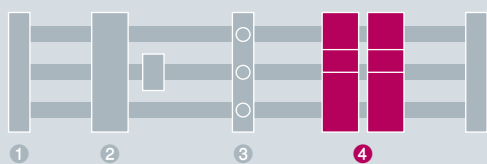
⁴⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R with cable lug, or as a flat conductor for an M10 pin connector.

⁵⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R, bared at both ends for tunnel terminals.

| Device Size / version | Device adapter For molded case circuit breakers | | For switch disconnectors 3KA and 3KL | | For fuse switch disconnectors 3NP5 |
|--|--|---------------|--|-----------------------------|--|
| | 3-pole | 4-pole | 3-pole ¹⁾ | 3-pole | 3-pole |
| NGG, HGG, LGG | 8US1240-5MA00 | – | – | – | – |
| 3VA10, 3VA11, 3VA51, NGG, HGG, LGG (connection at top) | 8US1211-4SS00 | – | – | – | – |
| 3VA10, 3VA11, 3VA51 (connection at bottom) | 8US1215-4SS00 | – | – | – | – |
| 3VA10 3VA11 | 8US1213-4AU01 | – | – | – | – |
| 3VL1 ²⁾ , 3VL2 ²⁾ | – | – | 8US1211-4SL01 | – | – |
| 3NP5060 (NH00) | – | – | – | – | 8US1291-4SB00 |
| 3VL3 ³⁾ | – | – | 8US1211-4SL00 | – | – |
| VL150X UL CG frame | – | – | 8US1213-4AQ01 | – | – |
| VL150 UL DG frame | – | – | 8US1213-4AQ03 | – | – |
| VL250 UL FG frame | – | – | 8US1213-4AQ03 | – | – |
| 3VA12, 3VA20, 3VA21, 3VA22, 3VA52, 3VA61, 3VA62 | 8US1213-4AP03 | – | – | – | – |
| 3VA12, 3VA20, 3VA21, 3VA22 | – | 8US1313-4AH03 | – | – | – |
| VL400 UL JG frame | – | – | 8US1213-4AH00 | – | – |
| VL400X UL LG frame | – | – | 8US1213-4AH00 | – | – |
| 3VL5 | – | – | 8US1213-4AF00 | – | – |
| 3VA13, 3VA14, 3VA23, 3VA24, 3VA53, 3VA54, 3VA63, 3VA64 | 8US1213-4AH04 | – | – | – | – |
| 3VA13, 3VA14, 3VA23, 3VA24 | – | 8US1313-4AM04 | – | – | – |
| 3VL1 up to 3VL4 (also with RCD module) ²⁾ | – | – | 8US1210-4AF00 + 8US1927-4AF01 | – | – |
| 3NP52, 3NP53, 3NP54 ⁵⁾ | – | – | – | – | 8US1210-4AG00 |
| 3KA52, 3KA53, 3KL52, 3KL53 | – | – | – | 8US1210-4AF00 ⁴⁾ | – |
| 3KA55, 3KA57, 3KA58, 3KL55, 3KL57 | – | – | – | 8US1210-4AG00 ⁴⁾ | – |

4 Device adapters and device holders

For load feeders up to 1600 A



| Rated current I_e | | Rated voltage U_e | | | Standard | For copper profile | Adapters | | Connecting cable | | Device Size |
|--------------------------------|--------|---------------------|----------|------|-------------|-------------------------|----------|--------|------------------|------------------|-------------------------|
| IEC | UL 508 | IEC | UL 508 | U, s | | | Length | Width | Cross-section | Max. temperature | |
| Screw terminals | | | | | | | | | | | |
| 25 A | 25 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 45 mm | AWG 12 | 150 °C | S00 |
| | | | | | | | 260 mm | 45 mm | AWG 12 | 150 °C | S00 |
| 32 A | 32 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 45 mm | AWG 10 | 150 °C | S0 |
| | | | | | | | 260 mm | 45 mm | AWG 10 | 150 °C | S0 |
| | | | | | | | – | – | 690 V AC | UL, Ⓢ | 5 mm, 10 mm, TT profile |
| 65 A | 65 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 260 mm | 54 mm | AWG 4 | 150 °C | S2 |
| | | | | | | | | 119 mm | AWG 4 | 150 °C | S2 |
| 80 A | 80 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 54 mm | AWG 4 | 150 °C | S2 |
| | | | | | | | 215 mm | 72 mm | AWG 4 | 150 °C | S3 |
| Spring-loaded terminals | | | | | | | | | | | |
| 25 A | 25 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 45 mm | AWG 12 | 150 °C | S00 |
| | | | | | | | 260 mm | 45 mm | AWG 12 | 150 °C | S00 |
| 32 A | 32 A | 690 V AC | 600 V AC | – | IEC, UL 508 | 5 mm, 10 mm, TT profile | 200 mm | 45 mm | AWG 10 | 150 °C | S0 |
| | | | | | | | 260 mm | 45 mm | AWG 10 | 150 °C | S0 |

13

Suitable accessories

Vibration & shock kit S2



Purpose

For size 2 devices

Lateral modules



- For extending device adapters and device holders of the same length

| Length | Width |
|--------|-------|
| 200 mm | 9 mm |

Device adapters for load feeders

SIRIUS 3RV2/3RT2

Circuit breakers

Direct-on-line starters

Reversing starters

SIRIUS 3RV1/3RT1

Circuit breakers

SIRIUS 3RA6

Direct-on-line starters

Reversing starters



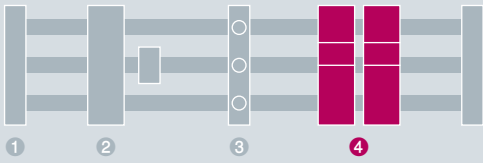
| | | | | | |
|---------------|---------------|-------------------------------|---------------|---------------|-------------------------------|
| 8US1251-5DS10 | 8US1251-5DS10 | 8US1251-5DS10 + 8US1250-5AS10 | – | – | – |
| 8US1251-5DS10 | – | – | – | – | – |
| – | 8US1251-5DT10 | – | – | – | – |
| 8US1251-5NS10 | – | – | – | – | – |
| 8US1251-5NT10 | 8US1251-5NT10 | 8US1251-5NT10 + 8US1250-5AT10 | – | – | – |
| – | – | – | – | 8US1211-1NS10 | 8US1211-1NS10 + 8US1250-1AA10 |
| – | 8US1261-6MT10 | – | – | – | – |
| – | – | 8US1211-6MT10 | – | – | – |
| 8US1261-5MS13 | – | – | – | – | – |
| – | – | – | 8US1211-4TR00 | – | – |
| 8US1251-5DS11 | – | – | – | – | – |
| 8US1251-5DT11 | 8US1251-5DT11 | 8US1251-5DT11 + 8US1250-5AT10 | – | – | – |
| 8US1251-5NS11 | – | – | – | – | – |
| 8US1251-5NT11 | 8US1251-5NT11 | 8US1251-5NT11 + 8US1250-5AT10 | – | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|-------------|-------------|
| 8US1998-1DA10 | 8US1998-1DA10 | 8US1998-1DA10 | – | – | – |




| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|---------------|---------------|
| 8US1998-2BJ10 | 8US1998-2BJ10 | 8US1998-2BJ10 | – | 8US1998-2BJ10 | 8US1998-2BJ10 |

4 Device adapters and device holders

Accessories for device adapters for SIRIUS 3RV2/3RT2 load feeders





Support rails (35 mm) made of plastic with fixing screws

| | Length | For adapter width | Article No. |
|---|--------|-------------------|---------------|
|  | 45 mm | 45 mm | 8US1998-7CB45 |
|  | 54 mm | 54 mm | 8US1998-7CB54 |
|  | 72 mm | 54 mm | 8US1998-7CB72 |

Positioning pieces

- For pushing on
- Secures the adaptable devices on the adapter

| | For adapter width | Article No. |
|---|-------------------|---------------|
|  | 45 mm | 8US1998-1DA45 |
|  | 54 mm | 8US1998-1DA54 |

Connecting element

| | | |
|---|---|---------------|
|  | • For connecting busbar adapters and device holders | Article No. |
| | | 8US1998-1AA10 |

Spacers

| | | |
|---|--|---------------|
|  | • Fix the feeder to the busbar adapter | Article No. |
| | | 8US1998-1BA10 |

Vibration & shock kit

| | | |
|--|--|---------------|
| | | Article No. |
| | | 8US1998-1CA10 |



Always the right connection

Terminal blocks enable incoming and outgoing cables to be connected in switchboards and control systems in a convenient and space-saving manner. They can be used in transport systems and automation technology as well as in building installation technology.

We offer you the complete range of connection technology with screw terminals, spring-loaded terminals and In-Push-out (iPo) terminals, combination plug-in terminals, insulation displacement terminals and a wide variety of accessories. These can be combined with each other. This allows you to benefit from a high level of flexibility as well as simplified configuration.

Terminal Blocks



| | |
|--|-------|
| All the information you need | 14/2 |
| Quick selection guide | 14/4 |
| 8WH terminal blocks | 14/4 |
| 8WA terminal blocks | 14/6 |
| 8WH terminal blocks | 14/8 |
| 8WH6 iPo plug-in terminals | 14/8 |
| 8WH6 iPo installation terminals | 14/18 |
| 8WH2 spring-loaded terminals | 14/24 |
| 8WH5 combination plug-in terminals | 14/36 |
| 8WH3 insulation displacement terminals | 14/40 |
| 8WH screw terminals | 14/44 |
| Accessories for 8WH terminal blocks | 14/57 |
| 8WA terminal blocks | 14/62 |
| 8WA1 screw terminals | 14/62 |
| 8WA2 spring-loaded terminals | 14/76 |
| Accessories for 8WA terminal blocks | 14/78 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about terminal blocks, please visit our website

www.siemens.com/distribution-components

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- Siemens ALPHA FIX terminal blocks – 8WH3 insulation displacement terminals (IDC)
bit.ly/2Y3JCVq
- Siemens ALPHA FIX terminal blocks – 8WH2 terminal with spring-loaded-connection
bit.ly/2kKVz0D

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Terminal blocks sie.ag/2kW8ZXo

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

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Technical overview – Terminal blocks

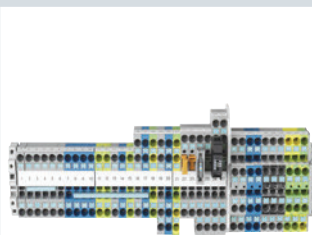


The fast way to get you to our online services

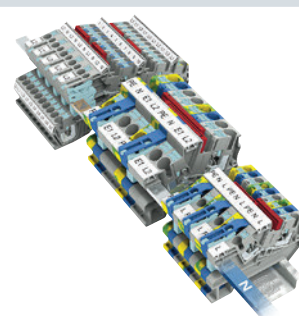
This page provides you with comprehensive information and links on terminal blocks

www.siemens.com/lowvoltage/product-support (109769088)

8WH terminal blocks

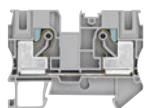


8WH6
iPo plug-in terminals



8WH6
iPo installation terminals

Through-type terminals



Through-type terminals

Two-tier terminals

Three-tier terminals

Four-tier motor terminals

2.5 ... 150 mm² [See page 14/8](#)

2.5 ... 4 mm² [See page 14/11](#)

–

–

2.5 ... 35 mm² [See page 14/18](#)

–

–

–

Isolating terminals



Isolating and isolating blade terminals

Two-tier isolating terminals

N conductor isolating terminals

Measuring transformer isolating terminals

2.5 ... 4 mm² [See page 14/12](#)

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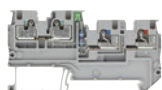
2.5 ... 35 mm² [See page 14/20](#)

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Initiator/actuator terminals



Initiator terminals

Actuator terminals

Feeder terminals

1.5 mm² [See page 14/16](#)

1.5 mm² [See page 14/16](#)

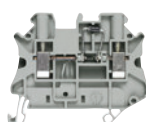
2.5 mm² [See page 14/15](#)

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–

Function terminals



Fuse terminals

Three-tier terminals

Three-tier isolating terminals

Diode terminals

Two-tier diode terminals

Shield terminals

4 mm² [See page 14/14](#)

–

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–

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–

2.5 mm² [See page 14/22](#)

2.5 mm² [See page 14/23](#)

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Further information

[From page 14/8](#)

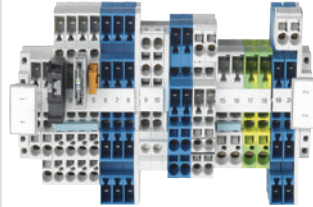
[From page 14/18](#)



8WH2
spring-loaded
terminals

| | |
|----------------------------|----------------|
| 1.5 ... 35 mm ² | See page 14/24 |
| 1.5 ... 4 mm ² | See page 14/27 |
| 2.5 mm ² | See page 14/28 |
| 2.5 ... 4 mm ² | See page 14/29 |
| 2.5 ... 4 mm ² | See page 14/30 |
| – | – |
| – | – |
| – | – |
| – | – |
| – | – |
| – | – |
| – | – |
| – | – |
| 4 mm ² | See page 14/32 |
| – | – |
| – | – |
| 2.5 mm ² | See page 14/34 |
| 2.5 mm ² | See page 14/34 |
| – | – |

From page 14/24



8WH5
combination
plug-in terminals

| | |
|---------------------|----------------|
| 2.5 mm ² | See page 14/36 |
| – | – |
| – | – |
| – | – |
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From page 14/36



8WH3
insulation displacement
terminals

| | |
|-----------------------------|----------------|
| 1.5 ... 2.5 mm ² | See page 14/40 |
| 1.5 mm ² | See page 14/40 |
| – | – |
| – | – |
| – | – |
| 1.5 ... 2.5 mm ² | See page 14/40 |
| – | – |
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From page 14/40

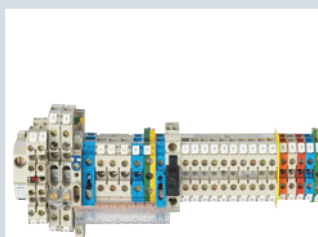


8WH1
screw terminals

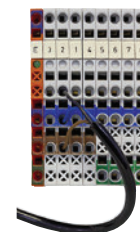
| | |
|-----------------------------|----------------|
| 2.5 ... 240 mm ² | See page 14/44 |
| 2.5 ... 4 mm ² | See page 14/47 |
| – | – |
| – | – |
| – | – |
| 4 ... 6 mm ² | See page 14/48 |
| 4 mm ² | See page 14/50 |
| – | – |
| 6 mm ² | See page 14/51 |
| – | – |
| – | – |
| – | – |
| – | – |
| 4 ... 6 mm ² | See page 14/52 |
| – | – |
| – | – |
| 4 mm ² | See page 14/54 |
| 2.5 mm ² | See page 14/55 |
| Diameter 2 ... 35 mm | See page 14/56 |

From page 14/44

8WA terminal blocks



8WA1
screw terminals



8WA2
spring-loaded terminals

Through-type terminals



Through-type terminals

2.5 ... 95 mm² [See page 14/62](#)

Two-tier terminals

4 mm² [See page 14/67](#)

Three-tier terminals

2.5 mm² [See page 14/68](#)

Four-tier motor terminals

–

Isolating terminals



Isolating and isolating blade terminals

–

Two-tier isolating terminals

–

N conductor isolating terminals

2.5 ... 16 mm² [See page 14/69](#)

Measuring transformer terminals

6 mm² [See page 14/71](#)

Initiator/actuator terminals



Initiator terminals

–

1.5 mm² [See page 14/76](#)

Actuator terminals

–

1.5 mm² [See page 14/76](#)

Feeder terminals

–

1.5 mm² [See page 14/77](#)

Function terminals



Fuse terminals

1.5 mm² [See page 14/72](#)

Three-tier terminals

–

Three-tier isolating terminals

–

Diode terminals

2.5 mm² [See page 14/73](#)

Two-tier diode terminals

4 mm² [See page 14/74](#)

Shield terminals

–

Further information

[From page 14/62](#)

[From page 14/76](#)

8WH6 iPo plug-in terminals

Through-type terminals






| Terminal width | 2.5 mm ² | 4 mm ² |
|---|-------------------------------------|---------------------------|
| Operational current I_{\max} | 30 A | 38 A |
| Operational voltage U_{\max} | 800 V | 800 V |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 2.5 mm ² | 0.2 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus | |

| | Terminal size | |
|---|-------------------------------------|---------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Operational current I_{\max} | 30 A | 38 A |
| Operational voltage U_{\max} | 800 V | 800 V |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 2.5 mm ² | 0.2 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus | |

| Terminals | Color | | |
|------------------------------------|----------------|---------------|---------------|
| ① Through-type terminals | | | |
| 2 | ● Gray | 8WH6000-0AF00 | 8WH6000-0AG00 |
| | ● Blue | 8WH6000-0AF01 | 8WH6000-0AG01 |
| 3 | ● Gray | 8WH6003-0AF00 | 8WH6003-0AG00 |
| | ● Blue | 8WH6003-0AF01 | 8WH6003-0AG01 |
| 4 | ● Gray | 8WH6004-0AF00 | 8WH6004-0AG00 |
| | ● Blue | 8WH6004-0AF01 | 8WH6004-0AG01 |
| ② PE through-type terminals | | | |
| 2 | ● Green-yellow | 8WH6000-0CF07 | 8WH6000-0CG07 |
| 3 | ● Green-yellow | 8WH6003-0CF07 | 8WH6003-0CG07 |
| 4 | ● Green-yellow | 8WH6004-0CF07 | 8WH6004-0CG07 |

Special accessories

| Covers | | | | | |
|---|--------|---------------|---------------|---------------|--|
| Terminals | Color | Width | Article No. | Article No. | |
|  | ● Gray | 2.2 mm | 8WH9000-1GA00 | 8WH9003-1GA00 | |
| | ● Gray | 2.2 mm | 8WH9000-2GA00 | 8WH9003-2SA00 | |
| | ● Gray | 2.2 mm | 8WH9000-4GA00 | 8WH9003-4SA00 | |
| Partitions | | | | | |
| Terminals | Color | Width | Article No. | Article No. | |
|  | ● Gray | 2.0 mm | 8WH9070-0AA00 | 8WH9070-0AA00 | |
| | ● Gray | 2.0 mm | 8WH9070-0GA00 | 8WH9070-0GA00 | |
| | ● Gray | 2.0 mm | 8WH9070-0HA00 | 8WH9070-0HA00 | |
| Cover segments | | | | | |
| Terminals | Color | Article No. | Article No. | | |
|  | ● Gray | 8WH9000-0GA00 | - | | |

See general accessories, page 14/57 onwards

| 6 mm ² | 10 mm ² | 16 mm ² | 35 mm ² |
|--|---|---|---|
| 8.2 mm | 10.2 mm | 12.2 mm | 16 mm |
| 41 A | 57 A | 90 A | 125 A |
| 1000 V | 1000 V | 1000 V | 1000 V |
| 20 ... 8 | 20 ... 6 | 20 ... 4 | 10 ... 2 |
| 0.5 ... 10 mm ² | 0.5 ... 16 mm ² | 0.5 ... 25 mm ² | 6 ... 35 mm ² |
| 0.5 ... 6 mm ² | 0.5 ... 10 mm ² | 0.5 ... 16 mm ² | 6 ... 35 mm ² |
| IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, UL, CE | IEC 60947-7-1, IEC 60947-7-2, UL, CE |
|  |  |  |  |
| 8WH6000-0AH00 | 8WH6000-0AJ00 | 8WH6000-0AK00 | 8WH6000-0AM00 |
| 8WH6000-0AH01 | 8WH6000-0AJ01 | 8WH6000-0AK01 | 8WH6000-0AM01 |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| 8WH6000-0CH07 | 8WH6000-0CJ07 | 8WH6000-0CK07 | 8WH6000-0CM07 |
| - | - | - | - |
| - | - | - | - |

| Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|
| 8WH9004-3SA00 | 8WH9005-1SA00 | 8WH9006-1SA00 | - |
| - | - | - | - |
| - | - | - | - |
| Article No. | Article No. | Article No. | Article No. |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| Article No. | Article No. | Article No. | Article No. |
| - | - | - | - |

8WH6 iPo plug-in terminals

Through-type terminals for high-current applications



| | Terminal size | | |
|---|--|--|----------------------------|
| | 50 mm ² | 95 mm ² | 150 mm ² |
| Terminal width | 20 mm | 25 mm | 31 mm |
| Operational current I_{max} | 150 A | 232 A | 309 A |
| Operational voltage AC/DC | 1000 V / 1500 V | 1000 V / 1500 V | 1000 V / 1500 V |
| AWG | 8 ... 2/0 | 4 ... 3/0 | 1/0 ... 300 kcmil |
| Connection capacity, rigid | 10 ... 70 mm ² | 25 ... 95 mm ² | 95 ... 150 mm ² |
| Connection capacity, flexible with end sleeve | 10 ... 50 mm ² | 25 ... 95 mm ² | 95 ... 150 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, cULus |
| | | | |
| | | | |

| Terminals | Color | | | |
|-----------------------------|----------------|---------------|---------------|---------------|
| ① Through-type terminals | | | | |
| 2 | ● Gray | 8WH6000-0AN00 | 8WH6000-0AQ00 | 8WH6000-0AS00 |
| | ● Blue | 8WH6000-0AN01 | 8WH6000-0AQ01 | 8WH6000-0AS01 |
| ② PE through-type terminals | | | | |
| 2 | ● Green-yellow | 8WH6000-0CN07 | 8WH6000-0CQ07 | – |



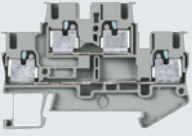
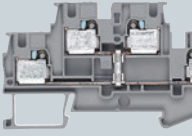
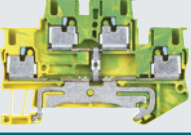
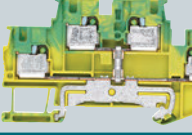
Special accessories


| Connecting combs | | | | |
|-----------------------------------|-----------------|---------------|---------------|---------------|
| | Number of poles | Article No. | Article No. | Article No. |
| | 2-pole | 8WH9020-3AB00 | 8WH9020-3AD00 | 8WH9020-3AF00 |
| | 3-pole | 8WH9020-3AC00 | 8WH9020-3AE00 | 8WH9020-3AG00 |
| Tap-off terminal | | | | |
| | Number of poles | Article No. | Article No. | Article No. |
| | 1-pole | 8WH9120-0DA00 | 8WH9120-0DA00 | 8WH9120-0DA00 |
| Test plugs | | | | |
| | Surface | Article No. | Article No. | Article No. |
| | Metal | 8WH9010-0NB00 | 8WH9010-0NB00 | 8WH9010-0NB00 |
| Insulating sleeves for test plugs | | | | |
| | Color | Article No. | Article No. | Article No. |
| | ● Red | 8WH9010-0MB02 | 8WH9010-0MB02 | 8WH9010-0MB02 |

See general accessories, page 14/57 onwards

Two-tier terminals



| | Terminal size | |
|---|--|--|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Operational current I _{max} | 26 A | 32 A |
| Operational voltage U _{max} | 500 V | 500 V |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 2.5 mm ² | 0.2 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2,  US | IEC 60947-7-1, IEC 60947-7-2,  US |
| |  |  |
| |  |  |

| Version | Color | | |
|---|--|---------------|---------------|
| 1 Two-tier terminals | | | |
| Without equipotential bonding |  Gray | 8WH6020-0AF00 | 8WH6020-0AG00 |
| |  Blue | 8WH6020-0AF01 | 8WH6020-0AG01 |
| With equipotential bonding |  Gray | 8WH6025-0AF00 | 8WH6025-0AG00 |
| 2 PE two-tier terminals¹⁾ | | | |
| |  Green-yellow | 8WH6020-0CF07 | 8WH6020-0CG07 |



¹⁾ Bridging the terminal is only possible in the top tier (in the center).

Special accessories

Covers

| | Terminals | Color | Width | Article No. | Article No. |
|---|-----------|--|--------|---------------|---------------|
|  | 4 |  Gray | 2.2 mm | 8WH9000-4SE00 | – |
| | 4 |  Gray | 2.2 mm | – | 8WH9003-1VA00 |

Compartment partitions

| | Terminals | Color | Thickness | Article No. | Article No. |
|---|-----------|--|-----------|---------------|---------------|
|  | 4 |  Gray | 2 mm | 8WH9070-0BA00 | 8WH9070-0BA00 |

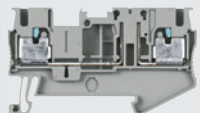
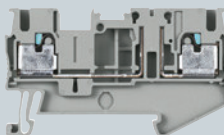
See general accessories, page 14/57 onwards

8WH6 iPo plug-in terminals

Isolating terminals



| | Terminal size | |
|---|------------------------------|---------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Operational current I_{max} | 20 A | 20 A |
| Operational voltage U_{max} | 400 V | 400 V |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 2.5 mm ² | 0.2 ... 4 mm ² |
| Standard | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus |

| Terminals | Color | | |
|-----------|--------|---------------|---------------|
| 2 | ● Gray | 8WH6000-6CF00 | 8WH6000-6AG00 |
| 3 | ● Gray | 8WH6003-6CF00 | – |
| 4 | ● Gray | 8WH6004-6CF00 | – |

Special accessories

| Covers | | | | | | |
|---|--------------------------------|----------|-----------|-------------------------------|---------------|---------------|
| | Terminals | Color | Width | Article No. | Article No. | |
|  | 2 | ● Gray | 2.2 mm | 8WH9000-3SC00 | 8WH9003-1GA00 | |
| | 3 | ● Gray | 2.2 mm | 8WH9000-3SD00 | – | |
| | 4 | ● Gray | 2.2 mm | 8WH9000-5GA00 | – | |
| Compartment partitions | | | | | | |
| | Terminals | Color | Width | Article No. | Article No. | |
|  | 2 | ● Gray | 2.2 mm | 8WH9070-0AA00 | 8WH9070-0AA00 | |
| | 3 | ● Gray | 2.2 mm | 8WH9070-0GA00 | 8WH9070-0GA00 | |
| Plug-in zone connectors | | | | | | |
| | Type | Color | I_{max} | Illuminated display | Article No. | Article No. |
|  | Isolating plugs | ● Orange | – | – | 8WH9040-0DB04 | 8WH9040-0DB04 |
| | Through-type connectors | ● Gray | 16 A | – | 8WH9020-8AB00 | 8WH9020-8AB00 |
|  | Fused connectors ¹⁾ | ● Black | 6.3 A | 12 ... 30 V, 1 ... 2.5 mA | 8WH9040-3AB08 | 8WH9040-3AB08 |
| | | | | 110 ... 250 V, 0.5 ... 2.5 mA | 8WH9040-3CB08 | 8WH9040-3CB08 |
| | | | | Without | 8WH9040-3DB08 | 8WH9040-3DB08 |
|  | Component connectors | ● Gray | 6 A | – | 8WH9040-0BB00 | 8WH9040-0BB00 |

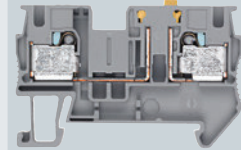
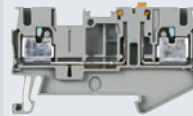
¹⁾ The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

See general accessories, page 14/57 onwards

Isolating blade terminals



| | Terminal size | |
|---|------------------------------|---------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Operational current I _{max} | 20 A | 20 A |
| Operational voltage U _{max} | 400 V | 400 V |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, two rigid conductors | – | 0.5 ... 6 mm ² |
| Connection capacity, one flexible conductor | 0.14 ... 2.5 mm ² | 0.2 ... 4 mm ² |
| Standard | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus |



| Terminals | Color | | |
|-----------|--------|---------------|---------------|
| 2 | ● Gray | 8WH6000-6AF00 | 8WH6000-6CG00 |
| 3 | ● Gray | 8WH6003-6AF00 | – |
| 4 | ● Gray | 8WH6004-6AF00 | – |

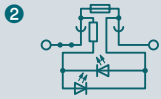
Special accessories

| Covers | | | | | |
|---|-----------|--------|-----------|---------------|---------------|
| | Terminals | Color | Width | Article No. | Article No. |
|  | 2 | ● Gray | 2.2 mm | 8WH9000-3SC00 | 8WH9003-1GA00 |
| | 3 | ● Gray | 2.2 mm | 8WH9000-3SD00 | – |
| | 4 | ● Gray | 2.2 mm | 8WH9000-5GA00 | – |
| Compartment partitions | | | | | |
| | Terminals | Color | Thickness | Article No. | Article No. |
|  | 2 | ● Gray | 2 mm | 8WH9070-0AA00 | 8WH9070-0AA00 |

See general accessories, page 14/57 onwards

8WH6 iPo plug-in terminals

Fuse terminals



Terminal size

4 mm²

Terminal width 6.2 mm

Operational current I_{\max} 6.3 A

Operational voltage U_{\max} 500 V

AWG 24 ... 10

Connection capacity, one rigid conductor 0.2 ... 4 mm²

Connection capacity, one flexible conductor with end sleeve 0.2 ... 4 mm²

Standard cULus, @



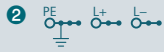
| LED | Color | |
|---|---------|---------------|
| Fuse terminals for 5 × 20 mm G fuse links | | |
| ① Without | ● Black | 8WH6000-1GG08 |
| ② 10 ... 30 V AC/DC | ● Black | 8WH6000-1KG38 |
| ② 110 ... 250 V AC/DC | ● Black | 8WH6000-1MG88 |

Special accessories

| Covers | Terminals | Color | Width | Article No. |
|--------|-----------|--------|--------|---------------|
| | 2 | ● Gray | 2.2 mm | 8WH9003-1GA00 |

See general accessories, page 14/57 onwards

Feeder terminals for initiator/actuator terminals



Connection capacity, flexible with end sleeve, with plastic sleeve
 Connection capacity, flexible with end sleeve, without plastic sleeve
 Standard

Terminal size

2.5 mm²

Terminal width 7 mm

Operational current I_{max} 20 A

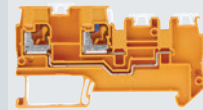
Operational voltage U_{max} 250 V

AWG 24 ... 12

0.14 ... 1.0 mm²

0.14 ... 1.5 mm²

IEC 60947-7-1



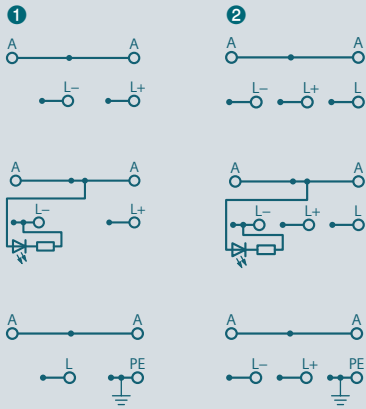
| Conductors ¹⁾ | Color | |
|--------------------------|----------|---------------|
| ① 3-wire, L+, L- | ● Orange | 8WH6003-0DF04 |
| ② 4-wire, L+, L-, PE | ● Orange | 8WH6004-0HE04 |

¹⁾ L+ = red, L- = blue, A (output) = petrol, L = petrol, PE (ground) = green/yellow

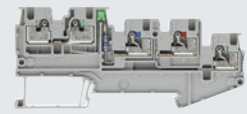
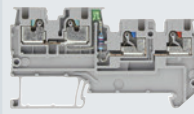
See general accessories, page 14/57 onwards

8WH6 iPo plug-in terminals

Initiator/actuator terminals



| | Terminal size 1.5 mm ² | |
|---|--------------------------------------|------------------------------|
| Terminal width | 3.5 mm | 3.5 mm |
| Operational current I_{max} | 13.5 A | 10 A |
| Operational voltage U_{max} | 250 V | 65 V |
| AWG | 26 ... 14 | 26 ... 14 |
| Connection capacity, flexible with end sleeve, with plastic sleeve | 0.14 ... 1.0 mm ² | 0.14 ... 1.0 mm ² |
| Connection capacity, flexible with end sleeve, without plastic sleeve | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Standard | IEC 60947-7-1 | IEC 60947-7-1 |



| Conductors ¹⁾ | LED | Color | | |
|-----------------------------|------------------------------|--------|---------------|---------------|
| 1 Initiator terminal | | | | |
| 3-wire, L+, L-, A | – | ● Gray | 8WH6003-0DE00 | – |
| 3-wire, L+, L-, A | Green, 24 V (15 ... 30 V DC) | ● Gray | 8WH6003-0FE00 | – |
| 3-wire, L, A, PE | – | ● Gray | 8WH6003-0HE00 | – |
| 2 Actuator terminal | | | | |
| 4-wire, L+, L-, L, A | – | ● Gray | – | 8WH6004-0DE00 |
| 4-wire, L+, L-, L, A | Green, 24 V (15 ... 30 V DC) | ● Gray | – | 8WH6004-0FE00 |
| 4-wire, L+, L-, PE, A | – | ● Gray | – | 8WH6004-0HE00 |

¹⁾ L+ = red, L- = blue, A (output) = petrol, L = petrol, PE (ground) = green/yellow

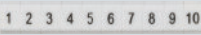
Special accessories


| Covers | | | | | |
|--------|------------|--------|--------|---------------|---------------|
| | Version | Width | Color | Article No. | Article No. |
| | For 3-wire | 2.2 mm | ● Gray | 8WH9001-2VD00 | – |
| | For 4-wire | 2.2 mm | ● Gray | – | 8WH9001-4VE00 |

General accessories for 8WH6 initiator/actuator terminals

| Connecting combs | | | | |
|---|-----------------|--------------|--------|---------------|
| | Number of poles | Load current | Color | Article No. |
|  | 2-pole | 17.5 A | ● Red | 8WH9020-6JC02 |
| | | | ● Blue | 8WH9020-6JC01 |
| | | | ● Gray | 8WH9020-6JC00 |
| | 3-pole | 17.5 A | ● Red | 8WH9020-6JD02 |
| | | | ● Blue | 8WH9020-6JD01 |
| | | | ● Gray | 8WH9020-6JD00 |
| | 4-pole | 17.5 A | ● Red | 8WH9020-6JE02 |
| | | | ● Blue | 8WH9020-6JE01 |
| | | | ● Gray | 8WH9020-6JE00 |
| | 5-pole | 17.5 A | ● Red | 8WH9020-6JF02 |
| | | | ● Blue | 8WH9020-6JF01 |
| | | | ● Gray | 8WH9020-6JF00 |
| | 10-pole | 17.5 A | ● Red | 8WH9020-6JL02 |
| | | | ● Blue | 8WH9020-6JL01 |
| | | | ● Gray | 8WH9020-6JL00 |
| | 20-pole | 17.5 A | ● Red | 8WH9020-6JS02 |
| | | | ● Blue | 8WH9020-6JS01 |
| | | | ● Gray | 8WH9020-6JS00 |

| Labels, front, for terminal width 3.5 mm and terminal size 1.5 mm ² | | | | |
|---|--------------------|----------------------|---------|---------------------|
| | Variant | | Color | Article No. |
|  | Blank | | ● White | 8WH8110-0AA05 |
| | Custom inscription | Printed vertically | ● White | 8WH8140-0XA05-Z Y01 |
| | | Printed horizontally | ● White | 8WH8120-0XA05-Z Y01 |

| Labels, flat, for terminal width 3.5 mm and terminal size 1.5 mm ² | | | | | |
|---|-----------------------|--------------------|-----------------|---------------------|---------------|
| | Variant | Inscription | Color | Article No. | |
|  | Blank | | ● White | 8WH8111-0AA05 | |
| | Consecutive numbering | Printed vertically | 1 ... 10 (10×) | ● White | 8WH8141-0AB05 |
| | | | 11 ... 20 (10×) | ● White | 8WH8141-0AB15 |
| | | | 21 ... 30 (10×) | ● White | 8WH8141-0AB25 |
| | | | 31 ... 40 (10×) | ● White | 8WH8141-0AB35 |
| | | | 41 ... 50 (10×) | ● White | 8WH8141-0AB45 |
| | | | 51 ... 60 (10×) | ● White | 8WH8121-0AB55 |
| | Printed horizontally | 1 ... 10 (10×) | ● White | 8WH8121-0AB05 | |
| | | 11 ... 20 (10×) | ● White | 8WH8121-0AB15 | |
| | | 21 ... 30 (10×) | ● White | 8WH8121-0AB25 | |
| 31 ... 40 (10×) | | ● White | 8WH8121-0AB35 | | |
| Custom inscription | Printed vertically | 41 ... 50 (10×) | ● White | 8WH8121-0AB45 | |
| | | 51 ... 60 (10×) | ● White | 8WH8121-0AB55 | |
| | Printed horizontally | | ● White | 8WH8141-0XA05-Z Y01 | |
| | | | ● White | 8WH8121-0XA05-Z Y01 | |

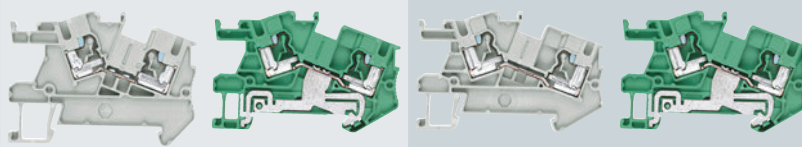
| Labels for 8WH initiator/actuator terminals for labeling system | | | | | |
|---|--------------|----------------|----------|---------|---------------|
| | Variant | Terminal width | Standard | Color | Article No. |
|  | Front, blank | 3.5 mm | WIN 486 | ● White | 8WH8112-0AA05 |
| | Flat, blank | 3.5 mm | WIN 416 | ● White | 8WH8113-0AA05 |

8WH6 iPo installation terminals

Through-type terminals



| | Terminal size | | | |
|--|------------------------------|------------------------------|----------------------------|----------------------------|
| | 2.5 mm ² | | 4 mm ² | |
| Terminal width | 5.2 mm | 5.2 mm | 6.2 mm | 6.2 mm |
| Terminal length | 59.5 mm | 59.5 mm | 66 mm | 66 mm |
| Terminal height | 43 mm | 43 mm | 46.3 mm | 46.3 mm |
| Max. load current I _{max} | 24 A | – | 32 A | – |
| Rated voltage U _n | 800 V | – | 800 V | – |
| Rated impulse withstand voltage | – | – | – | – |
| AWG | 26 ... 12 | 24 ... 12 | 24 ... 10 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 4 mm ² | 0.2 ... 6 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, two rigid conductors | – | – | – | – |
| Connection capacity, flexible with end sleeve | 0.25 ... 2.5 mm ² | 0.25 ... 2.5 mm ² | 0.25 ... 4 mm ² | 0.25 ... 4 mm ² |
| Connection capacity, flexible without end sleeve | 0.25 ... 2.5 mm ² | 0.25 ... 2.5 mm ² | 0.25 ... 4 mm ² | 0.25 ... 4 mm ² |
| Tightening torque | – | – | – | – |
| Standard | IEC 60947-7-1 | IEC 60947-7-2 | IEC 60947-7-1 | IEC 60947-7-2 |



| Terminals | Color | iPo plug-in technology | iPo plug-in technology |
|------------------------------------|----------------|------------------------|------------------------|
| 1 Through-type terminals | | | |
| 2 | ● Gray | 8WH6001-0AF00 | – |
| | ● Blue | 8WH6001-0AF01 | – |
| 2 PE through-type terminals | | | |
| 2 | ● Green-yellow | – | 8WH6001-0CF07 |
| | | – | 8WH6001-0CG07 |

Special accessories

Covers



| Color | Width | Article No. | Article No. |
|--------|-------|---------------|---------------|
| ● Gray | 2 mm | 8WH9000-1WA00 | 8WH9003-7WA00 |

Support brackets



- For holding the N busbar

| Color | Article No. | Article No. |
|--------|---------------|---------------|
| ● Blue | 8WH9143-0AF01 | 8WH9143-0AF01 |

Connecting combs



| Number of poles | Article No. | Article No. |
|-----------------|-------------|-------------|
| 2-pole | – | – |
| 3-pole | – | – |
| 10-pole | – | – |

Compartment partitions



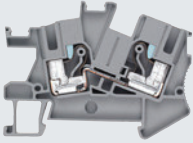
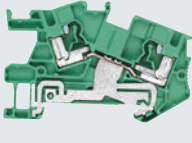


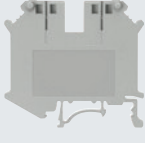

| Color | Article No. | Article No. |
|--------|-------------|-------------|
| ● Gray | – | – |

Insulation plate



| Color | Article No. | Article No. |
|--------|-------------|-------------|
| ● Gray | – | – |

See general accessories, page 14/57 onwards

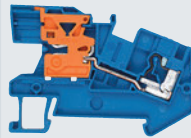
| 6 mm ² | | 16 mm ² | | 35 mm ² | |
|--|---|---|---|---|---|
| 8.2 mm | 8.2 mm | 12.2 mm | 12.2 mm | 16 mm | 16 mm |
| 66 mm | 66 mm | 42.5 mm | 42.5 mm | 55 mm | 55 mm |
| 50 mm | 50 mm | 47 mm | 47 mm | 51 mm | 51 mm |
| 41 A | – | 101 A | 101 A | 125 A | 125 A |
| 800 V | – | 400 V | – | 800 V | – |
| – | – | 6 kV | 6 kV | 8 kV | 8 kV |
| 20 ... 8 | 20 ... 8 | 22 ... 4 | 22 ... 4 | 18 ... 2 | 18 ... 2 |
| 0.5 ... 10 mm ² | 0.5 ... 10 mm ² | 1.5 ... 16 mm ² | 1.5 ... 16 mm ² | 0.75 ... 35 mm ² | 0.75 ... 35 mm ² |
| – | – | 1.5 ... 6 mm ² | 1.5 ... 6 mm ² | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² |
| 0.5 ... 6 mm ² | 0.5 ... 6 mm ² | 1.5 ... 4 mm ² | 1.5 ... 4 mm ² | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² |
| 0.5 ... 6 mm ² | 0.5 ... 6 mm ² | – | – | – | – |
| – | – | 1.5 ... 1.8 Nm | 1.5 ... 1.8 Nm | 3.2 ... 3.7 Nm | 3.2 ... 3.7 Nm |
| IEC 60947-7-1 | IEC 60947-7-2 | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus, CE | cULus, CE | cULus, CE |
|  |  |  |  |  |  |
| iPo plug-in technology | | Screw terminals | | Screw terminals | |
| 8WH6001-0AH00 | – | 8WH1001-0AK00 | – | 8WH1001-0AM00 | – |
| 8WH6001-0AH01 | – | 8WH1001-0AK01 | – | 8WH1001-0AM01 | – |
| – | 8WH6001-0CH07 | – | 8WH1001-0CK07 | – | 8WH1001-0CM07 |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| 8WH9004-1WA00 | – | 8WH9005-3PA00 | – | – | – |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| 8WH9143-0AH01 | – | – | – | – | – |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| – | – | – | – | 8WH9030-6BC00 | – |
| – | – | – | – | 8WH9030-6BD00 | – |
| – | – | 8WH9030-6AL00 | – | – | – |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| – | – | 8WH9070-6HA00 | – | – | – |
| Article No. | Article No. | Article No. | Article No. | Article No. | Article No. |
| – | – | 8WH9070-6GA00 | – | 8WH9070-6GA00 | – |

8WH6 iPo installation terminals

N conductor isolating terminals



| | Terminal size | |
|--|------------------------------|----------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Terminal length | 59 mm | 66 mm |
| Terminal height | 46.3 mm | 46.3 mm |
| Rated current I _n /cross-section | 24 A/2.5 mm ² | 32 A/4 mm ² |
| Rated voltage U _n | 250 V | 250 V |
| Rated impulse withstand voltage | – | – |
| AWG | 26 ... 12 | 24 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.2 ... 6 mm ² |
| Connection capacity, two rigid conductors | – | – |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 2.5 mm ² | 0.25 ... 4 mm ² |
| Connection capacity, two flexible conductors with end sleeve | – | – |
| Tightening torque | – | – |
| Standard | IEC 60947-7-1 | IEC 60947-7-1 |



| Terminals | Color | iPo plug-in technology | iPo plug-in technology |
|-----------|--------|------------------------|------------------------|
| 2 | ● Blue | 8WH6001-0BF01 | 8WH6001-0BG01 |

Special accessories

Covers



| Color | Article No. | Article No. |
|--------|---------------|---------------|
| ● Blue | 8WH9000-1SA00 | 8WH9003-1SA00 |
| ● Gray | – | – |

Support brackets

- For holding the N busbar 10 × 3 mm
- To be placed every 20 cm



| Color | Article No. | Article No. |
|--------|---------------|---------------|
| ● Blue | 8WH9143-0AF01 | 8WH9143-0AF01 |
| | – | – |

Connecting terminals



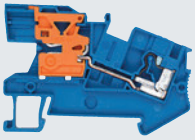



| Color | Width | Article No. | Article No. |
|--------|---------|---------------|---------------|
| ● Blue | 10.3 mm | 8WH9126-0BA01 | 8WH9126-0BA01 |

N busbars, 10 × 3 mm



| Version | Length | Article No. | Article No. |
|----------------|---------|-------------|-------------|
| Copper, tinned | 1000 mm | 8WA2842 | 8WA2842 |

See general accessories, page 14/57 onwards

| 6 mm ² | 10 mm ² | 16 mm ² | 35 mm ² |
|--|---|---|---|
| 8.2 mm | 10 mm | 12 mm | 16 mm |
| 66.3 mm | 43.5 mm | 43.5 mm | 55 mm |
| 50 mm | 47 mm | 54 mm | 51 mm |
| 41 A/6 mm ² | 63 A/16 mm ² | 90 A/25 mm ² | 110 A/35 mm ² |
| 400 V | – | – | – |
| – | 6 kV | 6 kV | 6 kV |
| 20 ... 8 | – | – | – |
| 0.5 ... 10 mm ² | 1.5 ... 10 mm ² | 1.5 ... 16 mm ² | 0.75 ... 35 mm ² |
| – | 1.5 ... 4 mm ² | 1.5 ... 6 mm ² | 0.75 ... 10 mm ² |
| 0.5 ... 6 mm ² | 1.5 ... 6 mm ² | 1.5 ... 16 mm ² | 0.75 ... 35 mm ² |
| – | 1.5 ... 2.5 mm ² | 1.5 ... 8 mm ² | 0.75 ... 10 mm ² |
| – | 1.5 ... 1.8 Nm | 1.5 ... 1.8 Nm | 3.2 ... 3.7 Nm |
| IEC 60947-7-1 | IEC 60947-7-1 | IEC 60947-7-1 | IEC 60947-7-1 |
|  |  |  |  |
| iPo plug-in technology | Screw terminals | Screw terminals | Screw terminals |
| 8WH6001-OBH01 | 8WH1001-OBJ01 | 8WH1001-OBK01 | 8WH1001-OBM01 |

| Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|
| 8WH9004-1SA00 | – | – | – |
| – | 8WH9005-3PA00 | 8WH9005-3PA00 | – |

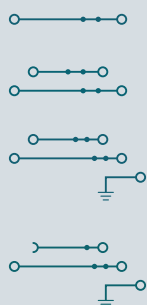
| Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|
| 8WH9143-0AH01 | – | – | – |
| – | 8WH9141-0BA01 | 8WH9141-0BA01 | 8WH9141-0BA01 |

| Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|
| 8WH9126-0BA01 | 8WH9126-0BA01 | 8WH9126-0BA01 | – |

| Article No. | Article No. | Article No. | Article No. |
|-------------|-------------|-------------|-------------|
| 8WA2842 | 8WA2842 | 8WA2842 | 8WA2842 |

8WH6 iPo installation terminals

Three-tier terminals



| | Terminal size |
|---|------------------------------|
| | 2.5 mm ² |
| Terminal width | 5.2 mm |
| Terminal length | 101 mm |
| Terminal height | 50.5 mm |
| Rated current I _n / cross-section | 24 A/4 mm ² |
| Rated voltage U _n (L-L) | 400 V |
| Rated voltage U _n (L-N, L-PE) | 250 V |
| AWG | 26 ... 12 |
| Connection capacity, rigid | 0.14 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.14 ... 2.5 mm ² |



| Versions | Color | |
|----------|--------|---------------|
| L | ● Gray | 8WH6001-4QF00 |
| L/L | ● Gray | 8WH6001-4DF00 |
| L/N | ● Gray | 8WH6001-4CF00 |
| PE/L/L | ● Gray | 8WH6001-4HF00 |
| PE/L/N | ● Gray | 8WH6001-4EF00 |
| PE/L/NT | ● Gray | 8WH6001-4FF00 |

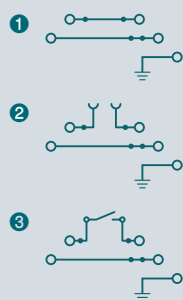
Special accessories

| Covers | | | |
|---|--|---------------|--------------------|
|  | Color | | Article No. |
| | ● Gray | | 8WH9000-3SA00 |
| Support brackets | | | |
|  | <ul style="list-style-type: none"> For holding the N busbar To be placed every 20 cm | | |
| | Color | Width | Article No. |
| | ● Blue | 2 mm | 8WH9142-0AF01 |
| N busbars, 10 × 3 mm | | | |
|  | Version | Length | Article No. |
| | Copper, tinned ¹⁾ | 1000 mm | 8WA2842 |

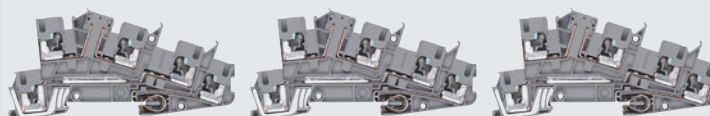
¹⁾ Only copper busbars may be installed.

See general accessories, page 14/57 onwards

Three-tier isolating terminals



| | Terminal size | | |
|---|------------------------------|------------------------------|------------------------------|
| | 2.5 mm ² | | |
| Terminal width | 5.2 mm | 5.2 mm | 5.2 mm |
| Terminal length | 101 mm | 101 mm | 101 mm |
| Terminal height | 50.5 mm | 50.5 mm | 50.5 mm |
| Rated current I_n / cross-section | 24 A/4 mm ² | 24 A/4 mm ² | 24 A/4 mm ² |
| Rated voltage U_n (L-L) | 400 V | 400 V | 400 V |
| Rated voltage U_n (L-N, L-PE) | 250 V | 250 V | 250 V |
| AWG | 22 ... 12 | 22 ... 12 | 22 ... 12 |
| Connection capacity, rigid | 0.25 ... 4 mm ² | 0.25 ... 4 mm ² | 0.25 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.25 ... 2.5 mm ² | 0.25 ... 2.5 mm ² | 0.25 ... 2.5 mm ² |



| Versions | Color | | | |
|--|--------|---------------|---------------|---------------|
| 1 Through-type terminals with identical contour | | | | |
| PE/L/L | ● Gray | – | – | 8WH6001-4PF00 |
| 2 Isolating terminals | | | | |
| PE/L/L isolation | ● Gray | 8WH6001-4MF00 | – | – |
| 3 Isolating blade terminals | | | | |
| PE/L/L isolating blade | ● Gray | – | 8WH6001-4NF00 | – |
| PE/L/N isolating blade | ● Gray | – | 8WH6001-4GF00 | – |

Special accessories

Covers for isolating terminal in the contour

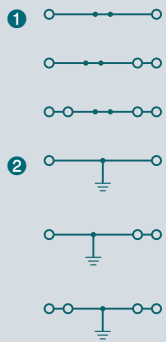


| Color | Article No. | Article No. | Article No. |
|--------|-------------|---------------|---------------|
| ● Gray | – | 8WH9000-6SA00 | 8WH9000-6SA00 |

See general accessories, page 14/57 onwards

8WH2 spring-loaded terminals

Through-type terminals

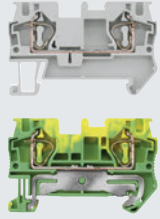
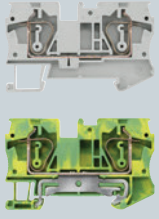
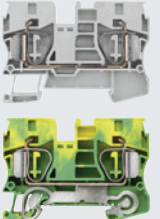
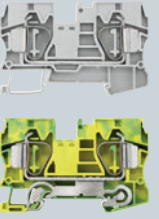
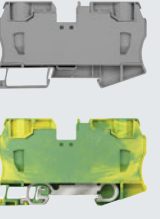


| | Terminal size | |
|---|---|--|
| | 1.5 mm ² | 2.5 mm ² |
| Terminal width | 4.2 mm | 5.2 mm |
| Load current I | 17.5 A | 28 A |
| Operational voltage U | 500 V | 800 V |
| AWG | 28 ... 16 | 28 ... 12 |
| Connection capacity, rigid | 0.08 ... 1.5 mm ² | 0.08 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 1.5 mm ² | 0.08 ... 2.5 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus, c | IEC 60947-7-1, IEC 60947-7-2, cULus |
| | | |
| | | |

| Terminals | Color | | |
|------------------------------------|--|---------------|---------------|
| ① Through-type terminals | | | |
| 2 | <ul style="list-style-type: none"> Gray Blue Orange Red Black Green White Yellow | 8WH2000-0AE00 | 8WH2000-0AF00 |
| | | 8WH2000-0AE01 | 8WH2000-0AF01 |
| | | 8WH2000-0AE04 | 8WH2000-0AF04 |
| | | 8WH2000-0AE02 | 8WH2000-0AF02 |
| | | 8WH2000-0AE08 | 8WH2000-0AF08 |
| | | 8WH2000-0AE03 | 8WH2000-0AF03 |
| | | 8WH2000-0AE05 | 8WH2000-0AF05 |
| | | 8WH2000-0AE06 | 8WH2000-0AF06 |
| 3 | <ul style="list-style-type: none"> Gray Blue Orange | 8WH2003-0AE00 | 8WH2003-0AF00 |
| | | 8WH2003-0AE01 | 8WH2003-0AF01 |
| | | 8WH2003-0AF04 | 8WH2003-0AF04 |
| 4 | <ul style="list-style-type: none"> Gray Blue Orange | 8WH2004-0AE00 | 8WH2004-0AF00 |
| | | 8WH2004-0AE01 | 8WH2004-0AF01 |
| | | 8WH2004-0AF04 | 8WH2004-0AF04 |
| ② PE through-type terminals | | | |
| 2 | Green-yellow | 8WH2000-0CE07 | 8WH2000-0CF07 |
| 3 | Green-yellow | 8WH2003-0CE07 | 8WH2003-0CF07 |
| 4 | Green-yellow | 8WH2004-0CE07 | 8WH2004-0CF07 |

Special accessories

| Covers | | | | |
|--|---|-----------|---------------|---------------|
| | Color | Terminals | Article No. | Article No. |
| | ● Gray | 2 | 8WH9000-1GA00 | 8WH9000-1GA00 |
| | | 3 | 8WH9000-2GA00 | 8WH9000-2GA00 |
| | | 4 | 8WH9000-4GA00 | 8WH9000-4GA00 |
| Compartment partitions | | | | |
| | Color | Terminals | Article No. | Article No. |
| | ● Gray | 2 | 8WH9070-0AA00 | 8WH9070-0AA00 |
| | | 3 | 8WH9070-0GA00 | 8WH9070-0GA00 |
| | | 4 | 8WH9070-0HA00 | 8WH9070-0HA00 |
| Cover segments | | | | |
| | • For covering multi-wire terminals when mounting two-wire terminals side-by-side | | | |
| | ● Gray | | Article No. | Article No. |
| | ● Gray | | 8WH9000-0GA00 | 8WH9000-0GA00 |
| Warning covers for the operating shafts of 8WH2 through-type terminals | | | | |
| | | | Article No. | Article No. |
| | | | 8WH9061-5AA06 | 8WH9060-5AA06 |

| 4 mm ² | 6 mm ² | 10 mm ² | 16 mm ² | 35 mm ² |
|--|---|---|--|---|
| 6.2 mm | 8.2 mm | 10.2 mm | 12 mm | 16 mm |
| 40 A | 52 A | 65 A | 90 A | 125 A |
| 800 V | 1000 V | 1000 V | 1000 V | 1000 V |
| 28 ... 10 | 24 ... 8 | 24 ... 6 | 24 ... 4 | 14 ... 2 |
| 0.08 ... 6 mm ² | 0.2 ... 10 mm ² | 1.5 ... 16 mm ² | 1.5 ... 25 mm ² | 2.5 ... 35 mm ² |
| 0.08 ... 4 mm ² | 0.2 ... 6 mm ² | 1.5 ... 10 mm ² | 1.5 ... 16 mm ² | 2.5 ... 35 mm ² |
| IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus |
|  |  |  |  |  |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| 8WH2000-0AG00 | 8WH2000-0AH00 | 8WH2000-0AJ00 | 8WH2000-0AK00 | 8WH2000-0AM00 |
| 8WH2000-0AG01 | 8WH2000-0AH01 | 8WH2000-0AJ01 | 8WH2000-0AK01 | 8WH2000-0AM01 |
| 8WH2000-0AG04 | – | – | – | – |
| 8WH2000-0AG02 | – | – | – | – |
| 8WH2000-0AG08 | – | – | – | – |
| 8WH2000-0AG03 | – | – | – | – |
| 8WH2000-0AG05 | – | – | – | – |
| 8WH2000-0AG06 | – | – | – | – |
| 8WH2003-0AG00 | 8WH2003-0AH00 | – | – | – |
| 8WH2003-0AG01 | 8WH2003-0AH01 | – | – | – |
| – | – | – | – | – |
| 8WH2004-0AG00 | – | – | – | – |
| 8WH2004-0AG01 | – | – | – | – |
| – | – | – | – | – |
| 8WH2000-0CG07 | 8WH2000-0CH07 | 8WH2000-0CJ07 | 8WH2000-0CK07 | 8WH2000-0CM07 |
| 8WH2003-0CG07 | 8WH2003-0CH07 | – | – | – |
| 8WH2004-0CG07 | – | – | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|-------------|
| 8WH9003-1GA00 | 8WH9004-1GA00 | 8WH9005-1GA00 | 8WH9006-1GA00 | – |
| 8WH9003-2GA00 | 8WH9004-2GA00 | – | – | – |
| 8WH9003-4GA00 | – | – | – | – |

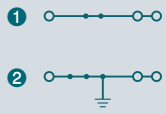
| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|-------------|-------------|-------------|
| 8WH9070-0AA00 | 8WH9070-0DA00 | – | – | – |
| 8WH9070-0GA00 | 8WH9070-0DA00 | – | – | – |
| 8WH9070-0HA00 | – | – | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|-------------|-------------|-------------|-------------|
| 8WH9003-0GA00 | – | – | – | – |

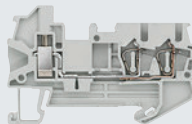
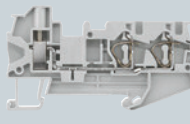
| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|---------------|
| 8WH9063-5AA06 | 8WH9064-5AA06 | 8WH9065-5AA06 | 8WH9066-5AA06 | 8WH9067-5AA06 |

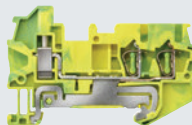
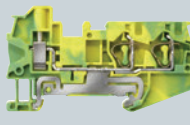
8WH2 spring-loaded terminals

Hybrid through-type terminals



| | Terminal size | |
|--|------------------------------|------------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Load current I | 28 A | 32 A |
| Operational voltage U | 800 V | 800 V |
| AWG Spring | 28 ... 12 | 28 ... 10/26 ... 10 |
| Connection capacity, rigid, spring-loaded | 0.08 ... 4 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible, spring-loaded | 0.08 ... 2.5 mm ² | 0.08 ... 4 mm ² |
| AWG screw | 26 ... 14 | 28 ... 10/26 ... 10 |
| Connection capacity, rigid, screw-type | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, flexible, screw-type | 0.14 ... 2.5 mm ² | 0.14 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2 | IEC 60947-7-1, IEC 60947-7-2 |

| Terminals | Color | Screw-type connection and spring-loaded connection | Screw-type connection and spring-loaded connection |
|---|----------------|--|--|
| ① Hybrid through-type terminals | | | |
| 3 | ● Gray | 8WH2103-2BF00 | 8WH2103-2BG00 |
| | ● Blue | 8WH2103-2BF01 | 8WH2103-2BG01 |
| ② PE hybrid through-type terminals | | | |
| 3 | ● Green-yellow | 8WH2103-3BF07 | 8WH2103-3BG07 |

Special accessories

| Covers | | | | |
|---|--------|-----------|---------------|---------------|
| | Color | Terminals | Article No. | Article No. |
|  | ● Gray | 3 | 8WH9000-2HA00 | 8WH9003-2HA00 |

See general accessories, page 14/57 onwards

Two-tier terminals



| | Terminal size | | |
|---|---|-------------------------------------|-------------------------------------|
| | 1.5 mm ² | 2.5 mm ² | 4 mm ² |
| Terminal width | 4.2 mm | 5.2 mm | 6.2 mm |
| Load current I | 17.5 A | 26 A | 32 A |
| Operational voltage U | 500 V | 500 V | 500 V |
| AWG | 28 ... 16 | 28 ... 12 | 28 ... 10 |
| Connection capacity, rigid | 0.08 ... 1.5 mm ² | 0.08 ... 4 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 1.5 mm ² | 0.08 ... 2.5 mm ² | 0.08 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus, CE | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus |
| | | | |
| | | | |

| Version | Number of poles | Terminals | Color | | | |
|---|-----------------|-----------|----------------|---------------|---------------|---------------|
| 1 Two-tier terminals | | | | | | |
| Without equipotential bonding | 2-pole | 4 | ● Gray | 8WH2020-0AE00 | 8WH2020-0AF00 | 8WH2020-0AG00 |
| | | | ● Blue | 8WH2020-0AE01 | 8WH2020-0AF01 | 8WH2020-0AG01 |
| | 6 | ● Gray | – | 8WH2023-0AF00 | – | |
| | | ● Blue | – | 8WH2023-0AF01 | – | |
| With equipotential bonding | 1-pole | 4 | ● Gray | 8WH2025-0AE00 | 8WH2025-0AF00 | 8WH2025-0AG00 |
| | | | ● Blue | – | 8WH2025-0AF01 | – |
| | | 6 | ● Gray | – | 8WH2022-0AF00 | – |
| 2 Two-tier terminals, N at top and L at bottom | | | | | | |
| Without equipotential bonding | 2-pole | 4 | ● Gray | – | 8WH2020-4CF00 | – |
| 3 PE two-tier terminals¹⁾ | | | | | | |
| | | 4 | ● Green-yellow | 8WH2020-0CE07 | 8WH2020-0CF07 | 8WH2020-0CG07 |
| | | 6 | ● Green-yellow | – | 8WH2023-0CF07 | – |

¹⁾ Only top tier can be fitted with connecting combs.

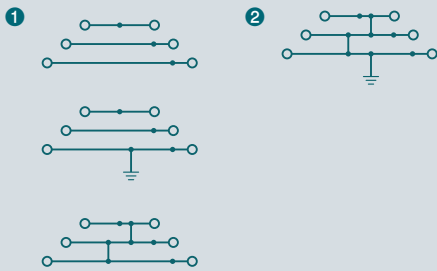
Special accessories

| Covers | | | | | | |
|------------------------|-----------|--------|---------------|---------------|---------------|--|
| | Terminals | Color | Article No. | Article No. | Article No. | |
| | 4 | ● Gray | 8WH9000-1VA00 | 8WH9000-1VA00 | 8WH9003-1VA00 | |
| | 6 | ● Gray | – | 8WH9000-2VA00 | – | |
| Compartment partitions | | | | | | |
| | | Color | Article No. | Article No. | Article No. | |
| | | ● Gray | 8WH9070-0BA00 | 8WH9070-0BA00 | 8WH9070-0BA00 | |
| | | | | | | |

See general accessories, page 14/57 onwards

8WH2 spring-loaded terminals

Three-tier terminals



Terminal size

2.5 mm²

Terminal width 5.2 mm

Load current I 28 A ¹⁾

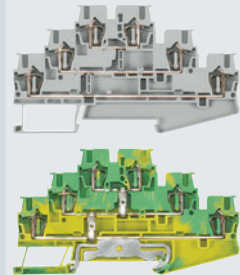
Operational voltage U 500 V

AWG 28 ... 12

Connection capacity, rigid 0.08 ... 4 mm²Connection capacity, flexible with end sleeve 0.08 ... 2.5 mm²

Standard

IEC 60947-7-1, IEC 60947-7-2, cULus



| Version | Versions | Color | |
|----------------------------------|----------|----------------|---------------|
| 1 Three-tier terminals | | | |
| Without equipotential bonding | – | ● Gray | 8WH2030-0AF00 |
| | | ● Blue | 8WH2030-0AF01 |
| | PE/L/N | ● Gray | 8WH2030-4EF00 |
| | PE/L/L | ● Gray | 8WH2030-4HF00 |
| With equipotential bonding | | ● Gray | 8WH2035-0AF00 |
| | | ● Blue | 8WH2035-0AF01 |
| 2 PE three-tier terminals | | | |
| | | ● Green-yellow | 8WH2035-0CF07 |

¹⁾ The total current through all connected conductors must not exceed the maximum load current.

Special accessories

Covers



Color

● Gray

Article No.

8WH9000-1GD00

Label holder



Color

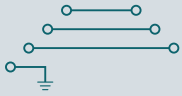
● Gray

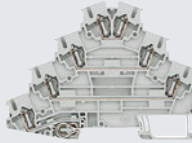

Article No.

8WH9060-4BA00

See general accessories, page 14/57 onwards

Four-tier motor terminals



| | Terminal size | |
|---|--|---|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Load current I | 26 A | 32 A |
| Operational voltage U | 800 V | 800 V |
| AWG | 28 ... 12 | 28 ... 10 |
| Connection capacity, rigid | 0.08 ... 4 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² | 0.08 ... 4 mm ² |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus, © |
| |  |  |

| Variant | Color | Article No. | Article No. |
|----------|--------|---------------|---------------|
| L/L/L/PE | ● Gray | 8WH2040-4LF00 | 8WH2040-4LG00 |

Special accessories

| Covers | | | |
|---|--------|---------------|-------------|
| | Color | Article No. | Article No. |
|  | ● Gray | 8WH9000-1GE00 | – |

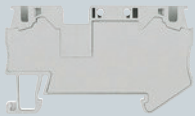
See general accessories, page 14/57 onwards

8WH2 spring-loaded terminals

Isolating terminals

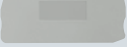








| | Terminal size | |
|---|------------------------------|----------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Load current I | 16 A | 16 A |
| Operational voltage U | 400 V | 400 V |
| AWG | 28 ... 12 | 28 ... 10 |
| Connection capacity, rigid | 0.08 ... 4 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² | 0.08 ... 4 mm ² |
| Standard | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus |

| Terminals | Color | Article No. | Article No. |
|-----------|--------|---------------|---------------|
| 2 | ● Gray | 8WH2000-6AF00 | 8WH2000-6AG00 |
| 3 | ● Gray | 8WH2003-6AF00 | – |
| 4 | ● Gray | 8WH2004-6AF00 | – |

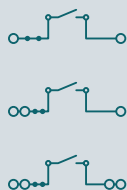
Special accessories

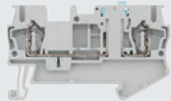
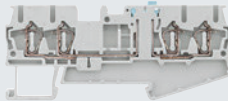

| Covers | | | | | | |
|---|---|--------------------------------|------------------|---------------------|---------------------------|---------------|
|  | Color | ● Gray | Terminals | Article No. | Article No. | |
| | | | 2 | 8WH9000-2GA00 | – | |
| | | | 3 | 8WH9000-4GA00 | – | |
| | | | 4 | 8WH9000-5GA00 | – | |
| Compartment partitions | | | | | | |
|  | Color | ● Gray | Terminals | Article No. | Article No. | |
| | | | 2 | 8WH9070-0AA00 | 8WH9070-0AA00 | |
| | | | 3 | 8WH9070-0GA00 | – | |
| | | | 4 | 8WH9070-0HA00 | – | |
| Cover segments | | | | | | |
|  | <ul style="list-style-type: none"> For covering multi-wire terminals when mounting two-wire terminals side-by-side | | | | | |
| | Color | ● Gray | Terminals | Article No. | Article No. | |
| | | | 3/4 | 8WH9000-0GA00 | – | |
| Plug-in zone connectors | | | | | | |
|  | Type | Color | I _{max} | Illuminated display | Article No. | Article No. |
| | Isolating plugs | ● Orange | 20 A | – | 8WH9040-0DB04 | 8WH9040-0DB04 |
|  | Through-type connectors | ● Gray | 16 A | – | 8WH9020-8AB00 | 8WH9020-8AB00 |
| |  | Fused connectors ¹⁾ | ● Black | 6.3 A | 12 ... 30 V, 1 ... 2.5 mA | 8WH9040-3AB08 |
| 110 ... 250 V, 0.5 ... 2.5 mA | | | | | 8WH9040-3CB08 | 8WH9040-3CB08 |
| Without | | | | | 8WH9040-3DB08 | 8WH9040-3DB08 |
|  | Component connectors | ● Gray | 6 A | – | 8WH9040-0BB00 | 8WH9040-0BB00 |

¹⁾ The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

See general accessories, page 14/57 onwards

Isolating blade terminals




| | Terminal size | | |
|---|---|--|---|
| | 2.5 mm ² | 5.2 mm | 4 mm ² |
| Terminal width | 5.2 mm | 5.2 mm | 6.2 mm |
| Load current I | 16 A | 16 A ¹⁾ | 16 A |
| Operational voltage U | 400 V | 400 V | 400 V |
| AWG | 28 ... 12 | 26 ... 14 | 28 ... 10 |
| Connection capacity, rigid | 0.08 ... 4 mm ² | 0.14 ... 4 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² | 0.14 ... 2.5 mm ² | 0.08 ... 4 mm ² |
| Standard | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus |
| |  |  |  |

| Terminals | Color | 2.5 mm ² | 5.2 mm | 4 mm ² |
|-----------|--------|---------------------|---------------|-------------------|
| 2 | ● Gray | 8WH2000-6CF00 | – | 8WH2000-6CG00 |
| 3 | ● Gray | – | 8WH2003-6CF00 | – |
| 4 | ● Gray | – | 8WH2004-6CF00 | – |

¹⁾ On terminals with three and four clamping points, the total current through all connected conductors must not exceed the max. load current.

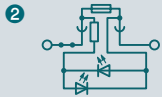
Special accessories

| Covers | | | | | |
|---|--------|-----------|---------------|---------------|---------------|
|  | Color | Terminals | Article No. | Article No. | Article No. |
| | ● Gray | 2 | 8WH9000-2GA00 | 8WH9000-2GA00 | – |
| | | 3 | 8WH9000-4GA00 | 8WH9000-4GA00 | – |
| | | 4 | 8WH9000-5GA00 | 8WH9000-5GA00 | – |
| Compartment partitions | | | | | |
|  | Color | Terminals | Article No. | Article No. | Article No. |
| | ● Gray | 2 | 8WH9070-0AA00 | 8WH9070-0AA00 | 8WH9070-0AA00 |
| | | 3 | 8WH9070-0GA00 | 8WH9070-0GA00 | – |
| | | 4 | 8WH9070-0HA00 | 8WH9070-0HA00 | – |
| Cover segments | | | | | |
|  | Color | Terminals | Article No. | Article No. | Article No. |
| | ● Gray | 3/4 | 8WH9000-0GA00 | 8WH9000-0GA00 | – |

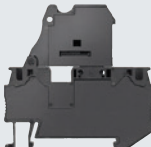


See general accessories, page 14/57 onwards

8WH2 spring-loaded terminals

Fuse terminals



| | Terminal size | | |
|--|----------------------------|----------------------------|----------------------------|
| | 4 mm ² | | |
| Terminal width | 6.2 mm | 8.2 mm | 8.2 mm |
| Load current I | 6.3 A | 10 A | 30 A |
| Operational voltage U | 250 V | 400 V | 400 V |
| Max. individual power loss as overload protection | 1.6 W | – | – |
| Max. power loss as a group as overload protection | 1.6 W | – | – |
| Max. individual power loss as short-circuit protection | 4 W | – | – |
| Max. power loss as a group as short-circuit protection | 2.5 W | – | – |
| AWG | 28 ... 10 | 28 ... 10 | 28 ... 10 |
| Connection capacity, rigid | 0.08 ... 6 mm ² | 0.08 ... 6 mm ² | 0.08 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 4 mm ² | 0.08 ... 4 mm ² | 0.08 ... 4 mm ² |
| Standard | IEC 60947-7-3, | IEC 60947-7-3, | IEC 60947-7-3, |

| Illuminate display | Color | | | |
|--|---------|---------------|---------------|---------------|
| For 5 × 20 mm G fuse links | | | | |
| ① Without | ● Black | 8WH2000-1GG08 | – | – |
| ② 15 ... 30 V | ● Black | 8WH2000-1JG38 | – | – |
| ② 30 ... 60 V | ● Black | 8WH2000-1JG68 | – | – |
| ② 110 ... 250 V | ● Black | 8WH2000-1MG08 | – | – |
| For 6.3 × 32 mm G fuse links | | | | |
| ① Without | ● Black | – | 8WH2000-1HG08 | – |
| ② 100 ... 250 V | ● Black | – | 8WH2000-1RG08 | – |
| For blade-type fuses according to ISO/DIS 8820 and DIN 72581-3¹⁾ | | | | |
| ① Without | ● Black | – | – | 8WH2000-1AG08 |
| ② 12 V | ● Black | – | – | 8WH2000-1BG28 |
| ② 24 V | ● Black | – | – | 8WH2000-1BG38 |

¹⁾ Blade-type fuses must be ordered separately.

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Special accessories

Compartment partitions



| Color | Terminals | Article No. | Article No. | Article No. |
|--------|-----------|---------------|---------------|---------------|
| ● Gray | 2 | 8WH9070-0AA00 | 8WH9070-0AA00 | 8WH9070-0AA00 |

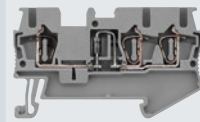
See general accessories, page 14/57 onwards

8WH2 spring-loaded terminals

Diode terminals



| | |
|--|------------------------------|
| Terminal size | 2.5 mm ² |
| Terminal width | 5.2 mm |
| Load current | Determined by the diode |
| Uninterrupted limiting current | 0.5 A |
| Operational voltage U | 500 V |
| Blocking voltage | 1300 V |
| AWG | 28 ... 12 |
| Connection capacity, rigid | 0.08 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² |
| Diode | 1N 4007, integrated |
| Standard | US |



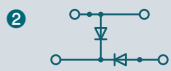
| Terminals | Color | Let-through | |
|-----------|--------|----------------------|---------------|
| 3 | ● Gray | ① From left to right | 8WH2003-5DF00 |
| | ● Gray | ② From right to left | 8WH2003-5CF00 |

Special accessories

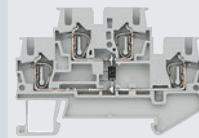
| Covers | | | |
|------------------------|--------|---|---------------|
| | Color | Terminals | Article No. |
| | ● Gray | 3 | 8WH9000-4GA00 |
| Compartment partitions | | | |
| | Color | Terminals | Article No. |
| | ● Gray | 3 | 8WH9070-0GA00 |
| Cover segments | | | |
| | | | |
| | | • For covering multi-wire terminals when mounting two-wire terminals side-by-side | |
| | Color | Terminals | Article No. |
| | ● Gray | 3 | 8WH9000-0GA00 |

See general accessories, page 14/57 onwards

Two-tier diode terminals



| | |
|--|------------------------------|
| Terminal size | 2.5 mm ² |
| Terminal width | 5.2 mm |
| Load current | 26 A |
| Uninterrupted limiting current | 0.5 A |
| Operational voltage U | 500 V |
| Blocking voltage | 1300 V |
| AWG | 28 ... 12 |
| Connection capacity, rigid | 0.08 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² |
| Diode | 1N 4007, integrated |
| Standard | UL 504 |



| Versions | Color | |
|--|--------|---------------|
| 1 With one diode | | |
| Let-through from top to bottom | ● Gray | 8WH2020-5AF00 |
| Let-through from bottom left to bottom right | ● Gray | 8WH2020-5DF00 |
| 2 With two diodes | | |
| Let-through from top to bottom left and from bottom right to bottom left | ● Gray | 8WH2020-5KF00 |
| 3 With illuminated display | | |
| 15 ... 30 V DC/2.5 ... 7.5 A | ● Gray | 8WH2020-5JF30 |

Special accessories

Covers



| Color | Article No. |
|--------|---------------|
| ● Gray | 8WH9000-1VA00 |

Compartment partitions



| Color | Article No. |
|--------|---------------|
| ● Gray | 8WH9070-0BA00 |

See general accessories, page 14/57 onwards

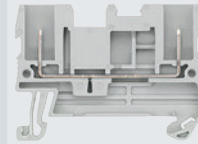
8WH5 combination plug-in terminals

Through-type terminals



| | |
|----------------------|---------------------|
| Terminal size | 2.5 mm ² |
|----------------------|---------------------|

| | |
|------------------------------|------------------|
| Terminal width | 5.2 mm |
| Load current | 24 A |
| Operational voltage U | 500 V |
| Standard | IEC 61984, cULus |

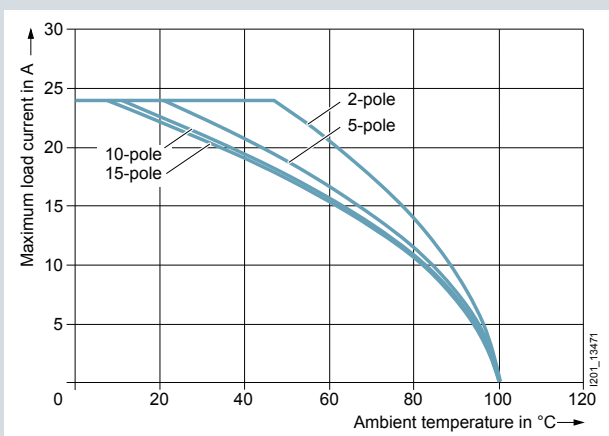


| Terminals | Color | Combination plug-in connection |
|------------------------------------|----------------|--------------------------------|
| 1 Through-type terminals | | |
| 2 | ● Gray | 8WH5000-0AF00 |
| | ● Blue | 8WH5000-0AF01 |
| 2 PE through-type terminals | | |
| 2 | ● Green-yellow | 8WH5000-0CF07 |

Special accessories

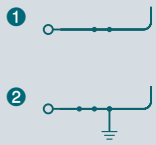
| Covers | | | |
|------------------------|-----------|--------|---------------|
| Image | Terminals | Color | Article No. |
| | 2 | ● Gray | 8WH9000-1VA00 |
| Compartment partitions | | | |
| Image | Terminals | Color | Article No. |
| | 2 | ● Gray | 8WH9070-0BA00 |

See general accessories, page 14/57 onwards



Derating curve for 8WH5000-0AF00

Hybrid through-type terminals



| | | |
|--|--|------------------------------|
| | Terminal size | 2.5 mm ² |
| | Terminal width | 5.2 mm |
| | Rated current I_n / cross-section | 24 A / 2.5 mm ² |
| | Rated voltage U_n | 500 V |
| | AWG | 26 ... 12 |
| | Connection capacity, rigid | 0.14 ... 4 mm ² |
| | Connection capacity, flexible with end sleeve | 0.14 ... 2.5 mm ² |
| | Standard | UL 486B |
| | | |

| Terminals | Color | iPo plug-in connection and combination plug-in connection |
|------------------------------------|----------------|---|
| ① Hybrid through-type terminals | | |
| 2 | ● Gray | 8WH5100-2PF00 |
| ② PE hybrid through-type terminals | | |
| 2 | ● Green-yellow | 8WH5100-3PF07 |





Special accessories










| Covers | | | |
|------------------------|-----------|--------|---------------|
| | Terminals | Color | Article No. |
| | 2 | ● Gray | 8WH9000-1GA00 |
| Compartment partitions | | | |
| | Terminals | Color | Article No. |
| | 4 | ● Gray | 8WH9070-0HA00 |

See general accessories, page 14/57 onwards

8WH5 combination plug-in terminals






8WH9 plugs

| | Terminal size 2.5 mm ² | |
|---|--|--|
| Terminal width | 5.2 mm | 5.2 mm |
| Load current | 24 A | 24 A |
| Operational voltage U | 500 V | 500 V |
| AWG | 28 ... 12 | 28 ... 12 |
| Connection capacity, rigid | 0.08 ... 4 mm ² | 0.08 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.08 ... 2.5 mm ² | 0.08 ... 2.5 mm ² |
| Number of poles | 1P | 1P |
| Standard |  US |  US |
| |  |  |

| Version | Color | With slot for comb | Without slot for comb |
|-----------------|--|--------------------|-----------------------|
| Plug | | | |
| Left element |  Gray | 8WH9040-1DB00 | 8WH9040-1AB00 |
| |  Blue | 8WH9040-1DB01 | 8WH9040-1AB01 |
| Central element |  Gray | 8WH9040-1EB00 | 8WH9040-1BB00 |
| |  Blue | 8WH9040-1EB01 | 8WH9040-1BB01 |
| Right element |  Gray | 8WH9040-1FB00 | 8WH9040-1CB00 |
| |  Blue | 8WH9040-1FB01 | 8WH9040-1CB01 |
| PE plugs | | | |
| Left element |  Green-yellow | 8WH9040-1DB07 | 8WH9040-1AB07 |
| Central element |  Green-yellow | 8WH9040-1EB07 | – |
| Right element |  Green-yellow | 8WH9040-1FB07 | 8WH9040-1CB07 |

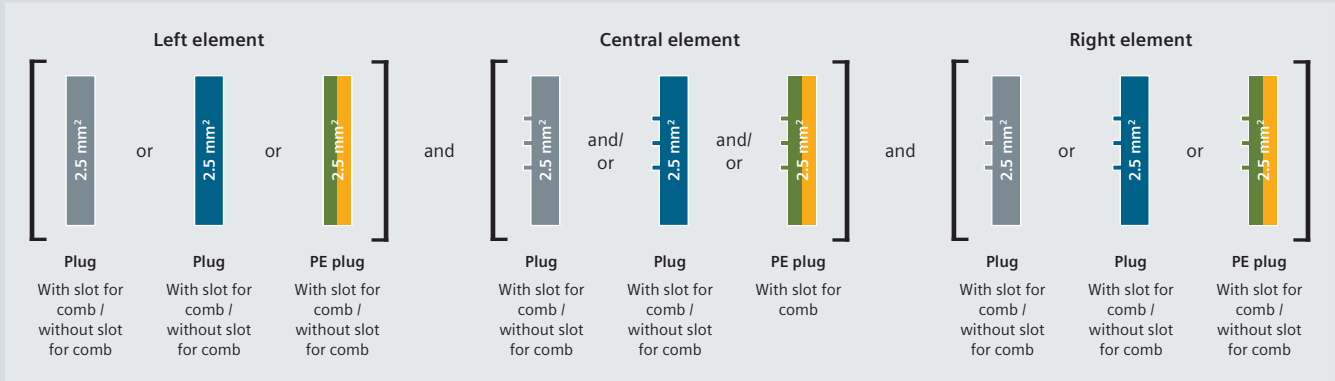
14

Special accessories

| Latches | | | | |
|---|-------------------------------------|--|---------------|---------------|
| | Version | Color | Article No. | Article No. |
|  | With strain relief |  Orange | 8WH9050-2BA04 | 8WH9050-2BA04 |
| | Without strain relief |  Orange | 8WH9050-2AA04 | 8WH9050-2AA04 |
| Shielding | | | | |
|  | | | | |
| | | | | |
| | • For connection of shielded cables | | | |
| | Cable diameter | Color | Article No. | Article No. |
| | 5 ... 10 mm |  Black | 8WH9120-0DB08 | 8WH9120-0DB08 |

See general accessories, page 14/57 onwards

Configuration of combination plug

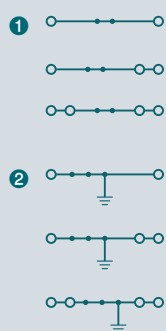


Note:

The configuration concept shown is just one example of how combination plugs can be configured.

8WH3 insulation displacement terminals

Through-type terminals



| | Terminal width | Terminal size | |
|---|------------------------------|------------------------------|-----------------------------|
| | | 1.5 mm ² | 2.5 mm ² |
| Load current I | 5.2 mm | 17.5 A ¹⁾ | 6.2 mm |
| Operational voltage U | 17.5 A ¹⁾ | 24 A ¹⁾ | 800 V |
| AWG | 800 V | 24 ... 16 | 20 ... 14 |
| Connection capacity, rigid | 24 ... 16 | 0.25 ... 1.5 mm ² | 0.5 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.25 ... 1.5 mm ² | 0.25 ... 1.5 mm ² | 0.5 ... 2.5 mm ² |
| | | | |
| | | | |

| Terminals | Color | | |
|------------------------------------|----------------|---------------|---------------|
| 1 Through-type terminals | | | |
| 2 | ● Gray | 8WH3000-0AE00 | 8WH3000-0AF00 |
| | ● Blue | 8WH3000-0AE01 | 8WH3000-0AF01 |
| 3 | ● Gray | 8WH3003-0AE00 | 8WH3003-0AF00 |
| | ● Blue | 8WH3003-0AE01 | 8WH3003-0AF01 |
| 4 | ● Gray | 8WH3004-0AE00 | – |
| | ● Blue | 8WH3004-0AE01 | – |
| 2 PE through-type terminals | | | |
| 2 | ● Green-yellow | 8WH3000-0CE07 | 8WH3000-0CF07 |
| 3 | ● Green-yellow | 8WH3003-0CE07 | 8WH3003-0CF07 |
| 4 | ● Green-yellow | 8WH3004-0CE07 | – |

¹⁾ On terminals with three and four clamping points, the total current through all connected conductors must not exceed the maximum load current.

Special accessories

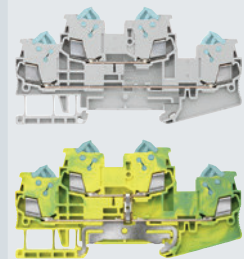
| Covers | | | | | |
|------------------------|---|--------|---------------|---------------|---------------|
| | Terminals | Color | Article No. | Article No. | |
| | 2 | ● Gray | 8WH9001-1AA00 | 8WH9000-1AA00 | |
| | 3 | ● Gray | 8WH9001-2AA00 | 8WH9000-2AA00 | |
| | 4 | ● Gray | 8WH9001-4AA00 | – | |
| Compartment partitions | | | | | |
| | Terminals | Color | Thickness | Article No. | Article No. |
| | 2 | ● Gray | 2 mm | 8WH9070-0JA00 | 8WH9070-0JA00 |
| | 3 | ● Gray | 2 mm | 8WH9070-0KA00 | 8WH9070-0KA00 |
| | 4 | ● Gray | 2 mm | 8WH9070-0LA00 | – |
| Cover segments | | | | | |
| | <ul style="list-style-type: none"> For covering multi-wire terminals when mounting two-wire terminals side-by-side | | | | |
| | Terminals | Color | Article No. | Article No. | |
| 3 | ● Gray | – | 8WH9000-0AA00 | | |

See general accessories, page 14/57 onwards

Two-tier terminals



| | |
|--|------------------------------|
| Terminal size | 1.5 mm ² |
| Terminal width | 5.2 mm |
| Load current | 17.5 A |
| Operational voltage U | 500 V |
| AWG | 24 ... 16 |
| Connection capacity, rigid | 0.25 ... 1.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.25 ... 1.5 mm ² |
| Standard | cULus |



| Version | Color | |
|--------------------------------|----------------|---------------|
| 1 Two-tier terminals | | |
| Without equipotential bonding | ● Gray | 8WH3020-0AE00 |
| | ● Blue | 8WH3020-0AE01 |
| 2 PE two-tier terminals | | |
| | ● Green-yellow | 8WH3020-0CE07 |

Special accessories

Covers



Color

- Gray

Article No.

8WH9001-1BA00

Compartment partitions



Color

- Gray

Article No.

8WH9070-0MA00

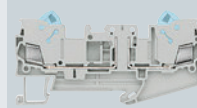
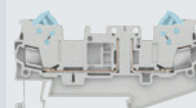
See general accessories, page 14/57 onwards

8WH3 insulation displacement terminals

Isolating terminals



| | Terminal size | |
|---|------------------------------|-----------------------------|
| | 1.5 mm ² | 2.5 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Load current | 16 A | 16 A |
| Operational voltage U | 400 V | 400 V |
| AWG | 24 ... 16 | 20 ... 14 |
| Connection capacity, rigid | 0.25 ... 1.5 mm ² | 0.5 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.25 ... 1.5 mm ² | 0.5 ... 2.5 mm ² |
| Standard | cULus | cULus |



| Terminals | Color | Article No. | Article No. |
|-----------|--------|---------------|---------------|
| 2 | ● Gray | 8WH3000-6AE00 | 8WH3000-6AF00 |

Special accessories

| Covers | | | |
|--------|--------|---------------|---------------|
| | Color | Article No. | Article No. |
| | ● Gray | 8WH9001-2AA00 | 8WH9000-2AA00 |

| Compartment partitions | | | |
|------------------------|--------|---------------|---------------|
| | Color | Article No. | Article No. |
| | ● Gray | 8WH9070-0KA00 | 8WH9070-0KA00 |

| Plug-in zone connectors | | | | | | |
|-------------------------|--------------------------------|----------|------------------|-------------------------------|---------------|---------------|
| | Type | Color | I _{max} | Illuminated display | Article No. | Article No. |
| | Isolating plugs | ● Orange | – | – | 8WH9040-0DB04 | 8WH9040-0DB04 |
| | Through-type connectors | ● Gray | 16 A | – | 8WH9020-8AB00 | 8WH9020-8AB00 |
| | Fused connectors ¹⁾ | ● Black | 6.3 A | 12 ... 30 V, 1 ... 2.5 mA | 8WH9040-3AB08 | 8WH9040-3AB08 |
| | | | | 110 ... 250 V, 0.5 ... 2.5 mA | 8WH9040-3CB08 | 8WH9040-3CB08 |
| | | | | Without | 8WH9040-3DB08 | 8WH9040-3DB08 |
| | Component connectors | ● Gray | 6 A | – | 8WH9040-0BB00 | 8WH9040-0BB00 |

¹⁾ The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

See general accessories, page 14/57 onwards

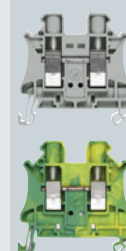
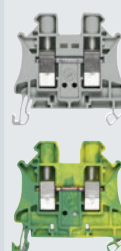
8WH screw terminals

8WH1 through-type terminals







| | | |
|--|---|---|
| Terminal width | 5.2 mm | 6.2 mm |
| Max. load current I_{max} | 32 A | 41 A |
| Rated voltage U_n | 1000 V | 1000 V |
| AWG | 26 ... 12 | 26 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm | 0.6 ... 0.8 Nm |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus, © | IEC 60947-7-1, IEC 60947-7-2, cULus, © |

| | Terminal size | |
|--|---|---|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Max. load current I_{max} | 32 A | 41 A |
| Rated voltage U_n | 1000 V | 1000 V |
| AWG | 26 ... 12 | 26 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm | 0.6 ... 0.8 Nm |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus, © | IEC 60947-7-1, IEC 60947-7-2, cULus, © |

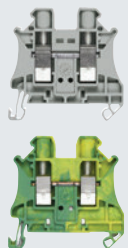
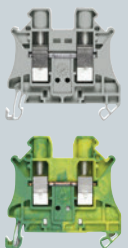
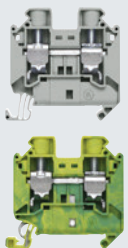




| Terminals | Color | | |
|------------------------------------|--|---|---|
| 1 Through-type terminals | | | |
| 2 | <ul style="list-style-type: none"> ● Gray ● Blue ● Orange ● Red ● Black ● Green ● Yellow | 8WH1000-0AF00 8WH1000-0AF01 8WH1000-0AF04 8WH1000-0AF02 8WH1000-0AF08 8WH1000-0AF03 8WH1000-0AF06 | 8WH1000-0AG00 8WH1000-0AG01 8WH1000-0AG04 8WH1000-0AG02 8WH1000-0AG08 – – |
| 2 PE through-type terminals | | | |
| 2 | <ul style="list-style-type: none"> ● Green-yellow | 8WH1000-0CF07 | 8WH1000-0CG07 |

Special accessories

| Covers | | | | |
|---|----------------------|--|---------------|---------------|
|  | Width | Color | Article No. | Article No. |
| | 2.2 mm | <ul style="list-style-type: none"> ● Gray | 8WH9000-1PA00 | 8WH9000-1PA00 |
| Compartment partitions | | | | |
|  | Thickness | Color | Article No. | Article No. |
| | 2 mm | <ul style="list-style-type: none"> ● Gray | 8WH9070-6BA00 | 8WH9070-6BA00 |
| Reducing combs | | | | |
|  | Version | Color | Article No. | Article No. |
| | From screw to screw | <ul style="list-style-type: none"> ● Turquoise | – | – |
| | From screw to spring | <ul style="list-style-type: none"> ● Turquoise | – | – |
| Warning covers for 8WH1 | | | | |
|  | Image | Color | Article No. | Article No. |
| | Lightning symbol | <ul style="list-style-type: none"> ● Yellow | 8WH9060-5BA06 | 8WH9063-5BA06 |

See general accessories, page 14/57 onwards

| 6 mm ² | 10 mm ² | 16 mm ² | 35 mm ² | |
|--|---|---|--|---|
| 8.2 mm | 10.2 mm | 12.2 mm | 16 mm | 16 mm |
| 57 A | 76 A | 101 A | 150 A | – |
| 1000 V | 1000 V | 1000 V | 1000 V | – |
| 24 ... 8 | 20 ... 6 | 16 ... 4 | 16 ... 1/0 | 16 ... 2 |
| 0.2 ... 10 mm ² | 0.5 ... 16 mm ² | 1.5 ... 25 mm ² | 1.5 ... 50 mm ² | 1.5 ... 35 mm ² |
| 0.2 ... 2.5 mm ² | 0.5 ... 4 mm ² | 1 ... 6 mm ² | 1.5 ... 16 mm ² | 1.5 ... 16 mm ² |
| 0.2 ... 10 mm ² | 0.5 ... 16 mm ² | 1.5 ... 25 mm ² | 1.5 ... 50 mm ² | 1.5 ... 35 mm ² |
| 0.2 ... 2.5 mm ² | 0.5 ... 4 mm ² | 1 ... 6 mm ² | 1.5 ... 10 mm ² | 1.5 ... 10 mm ² |
| 1.5 ... 1.8 Nm | 1.6 ... 1.8 Nm | 2.5 ... 3.0 Nm | 3.2 ... 3.7 Nm | 3.2 ... 3.7 Nm |
| IEC 60947-7-1, IEC 60947-7-2, cULus, CE | IEC 60947-7-1, IEC 60947-7-2, cULus, CE | IEC 60947-7-1, IEC 60947-7-2, cULus, CE | IEC 60947-7-1, IEC 60947-7-2, cULus, CE | IEC 60947-7-1, IEC 60947-7-2, cULus, CE |
|  |  |  |  |  |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| 8WH1000-0AH00 | 8WH1000-0AJ00 | 8WH1000-0AK00 | 8WH1000-0AM00 | – |
| 8WH1000-0AH01 | 8WH1000-0AJ01 | 8WH1000-0AK01 | 8WH1000-0AM01 | – |
| – | – | – | – | – |
| 8WH1000-0AH02 | – | – | – | – |
| 8WH1000-0AH08 | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8WH1000-0CH07 | 8WH1000-0CJ07 | 8WH1000-0CK07 | – | 8WH1000-0CM07 |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|-------------|-------------|
| 8WH9000-1PA00 | 8WH9000-1PA00 | 8WH9076-1PA00 | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|-------------|-------------|-------------|
| 8WH9070-6BA00 | 8WH9070-6BA00 | – | – | – |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|---------------|
| 8WH9002-8AC10 | 8WH9002-8CC10 | 8WH9002-8EC10 | 8WH9002-8GC10 | 8WH9002-8GC10 |
| 8WH9002-8BC10 | 8WH9002-8DC10 | 8WH9002-8FC10 | 8WH9002-8HC10 | 8WH9002-8HC10 |

| Article No. | Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|---------------|
| 8WH9064-5BA06 | 8WH9065-5BA06 | 8WH9066-5BA06 | 8WH9067-5BA06 | 8WH9067-5BA06 |

8WH screw terminals

8WH1 through-type terminals for high-current applications



| | Terminal size | | | |
|---|-------------------------------------|-------------------------------------|----------------------------|----------------------------|
| | 50 mm ² | 95 mm ² | 150 mm ² | 240 mm ² |
| Terminal width | 20 mm | 25 mm | 31 mm | 36 mm |
| Rated current I | 150 A | 232 A | 309 A | 415 A |
| Rated voltage U | 1000 V | 1000 V | 1000 V | 1000 V |
| AWG | 6 ... 0 | 4 ... 000 | 2 ... 300 kcmil | 00 ... 500 kcmil |
| Connection capacity, rigid | 16 ... 50 mm ² | 25 ... 95 mm ² | 35 ... 150 mm ² | 70 ... 240 mm ² |
| Connection capacity, flexible with end sleeve | 25 ... 50 mm ² | 35 ... 95 mm ² | 50 ... 150 mm ² | 70 ... 240 mm ² |
| Tightening torque | 6 ... 8 Nm | 15 ... 20 Nm | 25 ... 30 Nm | 25 ... 30 Nm |
| Standard | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, IEC 60947-7-2, cULus | IEC 60947-7-1, cULus | IEC 60947-7-1, cULus |
| | | | | |

| Terminals | Color | | | | |
|------------------------------------|----------------|---------------|---------------|---------------|---------------|
| ① Through-type terminals | | | | | |
| 2 | ● Gray | 8WH1000-0AN00 | 8WH1000-0AQ00 | 8WH1000-0AS00 | 8WH1000-0AU00 |
| | ● Blue | 8WH1000-0AN01 | 8WH1000-0AQ01 | 8WH1000-0AS01 | 8WH1000-0AU01 |
| ② PE through-type terminals | | | | | |
| 2 | ● Green-yellow | 8WH1000-0CN07 | 8WH1000-0CQ07 | – | – |

Special accessories

Tap-off terminal



- When wiring a tap-off with a smaller cross-section, observe the overload and short-circuit strength specified in VDE 0100 Part 430

| I _{max} | Cross-section | Article No. | Article No. | Article No. | Article No. |
|------------------|--------------------|---------------|---------------|---------------|---------------|
| 57 A | 10 mm ² | 8WH9120-0AA00 | 8WH9120-0BA00 | 8WH9120-0CA00 | 8WH9120-0CA00 |

Insertion profiles



- Evens out the prismatic sleeve base when using flat conductors

| Article No. | Article No. | Article No. | Article No. |
|---------------|---------------|---------------|---------------|
| 8WH9020-3MA00 | 8WH9020-3NA00 | 8WH9020-3PA00 | 8WH9020-3PA00 |

Combs



- Fully insulated, fitted in the clamping sleeve and latched with the terminal enclosure

| I _{max} | Number of poles | Article No. | Article No. | Article No. | Article No. |
|------------------|-----------------|-------------|---------------|---------------|---------------|
| 232 A | 2-pole | – | 8WH9020-3AA00 | 8WH9020-3CA00 | – |
| | 3-pole | – | 8WH9020-3BA00 | 8WH9020-3DA00 | – |
| 320 A | 2-pole | – | – | – | 8WH9020-3EA00 |
| | 3-pole | – | – | – | 8WH9020-3FA00 |

Permanent links



- For cross links
- Screw heads with insulating collar
- Remove partition first

| I _{max} | Number of poles | Article No. | Article No. | Article No. | Article No. |
|------------------|-----------------|---------------|-------------|-------------|-------------|
| 150 A | 2-pole | 8WH9020-6HC00 | – | – | – |
| | 3-pole | 8WH9020-6HD00 | – | – | – |

See general accessories, page 14/57 onwards

8WH1 two-tier terminals



| | Terminal size | |
|--|------------------------------|------------------------------|
| | 2.5 mm ² | 4 mm ² |
| Terminal width | 5.2 mm | 6.2 mm |
| Max. load current I _{max} | 28 A | 36 A |
| Rated voltage U _{max} | 500 V | 800 V |
| AWG | 26 ... 12 | 26 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 4 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.5 ... 0.6 Nm | 0.6 ... 0.8 Nm |
| Standard | cULus, CE | cULus, CE |

| Version | Color | | |
|--------------------------------|----------------|---------------|---------------|
| 1 Two-tier terminals | | | |
| Without equipotential bonding | ● Gray | 8WH1020-0AF00 | 8WH1020-0AG00 |
| With equipotential bonding | ● Blue | 8WH1020-0AF01 | 8WH1020-0AG01 |
| | ● Gray | 8WH1025-0AF00 | 8WH1025-0AG00 |
| 2 PE two-tier terminals | | | |
| | ● Green-yellow | 8WH1020-0CF07 | 8WH1020-0CG07 |

Special accessories

| Covers | | | | |
|---|---|--------|---------------|---------------|
|  | Width | Color | Article No. | Article No. |
| | 2.2 mm | ● Gray | 8WH9000-1QA00 | 8WH9000-1QA00 |
| Compartment partitions | | | | |
|  | Thickness | Color | Article No. | Article No. |
| | 2 mm | ● Gray | 8WH9070-6FA00 | 8WH9070-6FA00 |
| Spacer plates | | | | |
|  | • Compensates for tier offset if other terminals are mounted side by side | | Article No. | Article No. |
| | Thickness | Color | Article No. | Article No. |
| | 2.5 mm | ● Gray | 8WH9160-0AA00 | 8WH9160-0AA00 |

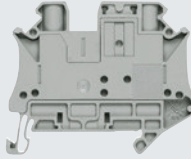
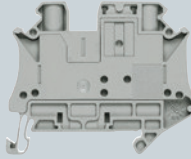
See general accessories, page 14/57 onwards

8WH screw terminals

8WH1 isolating terminals







| | Terminal size | |
|--|------------------------------|-----------------------------|
| | 4 mm ² | 6 mm ² |
| Terminal width | 6.2 mm | 8.2 mm |
| Max. load current I_{max} | 20 A | 20 A |
| Rated voltage U_n | 400 V | 500 V |
| AWG | 26 ... 10 | 24 ... 8 |
| Connection capacity, one rigid conductor | 0.14 ... 6 mm ² | 0.2 ... 10 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² | 0.2 ... 2.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 6 mm ² | 0.2 ... 10 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² | 0.2 ... 2.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm | 1.5 ... 1.8 Nm |
| Standard | cULus, CE | cULus |

| Terminals | Color | | |
|-----------|--------|---------------|---------------|
| 2 | ● Gray | 8WH1000-6AG00 | 8WH1000-6AH00 |

Special accessories

Plug-in zone connectors

| | Type | Color | I_{max} | Illuminated display | Article No. | Article No. |
|---|--------------------------------|----------|-----------|-------------------------------|---------------|---------------|
|  | Isolating plugs | ● Orange | – | – | 8WH9040-0DB04 | 8WH9040-0DB04 |
|  | Through-type connectors | ● Gray | 16 A | – | 8WH9020-8AB00 | 8WH9020-8AB00 |
|  | Fused connectors ¹⁾ | ● Black | 6.3 A | 12 ... 30 V, 1 ... 2.5 mA | 8WH9040-3AB08 | 8WH9040-3AB08 |
| | | | | 110 ... 250 V, 0.5 ... 2.5 mA | 8WH9040-3CB08 | 8WH9040-3CB08 |
| | | | | Without | 8WH9040-3DB08 | 8WH9040-3DB08 |
|  | Component connectors | ● Gray | 6 A | – | 8WH9040-0BB00 | 8WH9040-0BB00 |

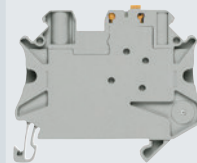
¹⁾ The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

See general accessories, page 14/57 onwards

8WH1 isolating blade terminals



| Terminal size | |
|--|------------------------------|
| | 4 mm ² |
| Terminal width | 6.2 mm |
| Max. load current I _{max} | 20 A |
| Rated voltage U _n | 500 V |
| AWG | 26 ... 12 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 4 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm |
| Standard | UL, CE |



| Terminals | Color | |
|-----------|--------|---------------|
| 2 | ● Gray | 8WH1000-6CG00 |

Special accessories

| Warning covers for 8WH1 | | |
|-------------------------|----------|---------------|
| Image | Color | Article No. |
| | ● Yellow | 8WH9063-5BA06 |

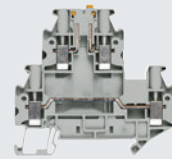
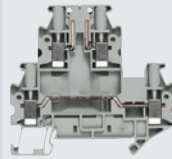
See general accessories, page 14/57 onwards

8WH screw terminals

8WH1 two-tier terminals with isolating function



| | | Terminal size 4 mm ² | |
|--|--|------------------------------------|------------------------------|
| Terminal width | | 6.2 mm | 6.2 mm |
| Max. load current I _{max} | | 38 A | 38 A |
| Rated voltage U _{max} | | 500 V | 500 V |
| AWG | | 26 ... 10 | 26 ... 10 |
| Connection capacity, one rigid conductor | | 0.14 ... 6 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two rigid conductors | | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | | 0.14 ... 6 mm ² | 0.14 ... 6 mm ² |
| Connection capacity, two flexible conductors with end sleeve | | 0.14 ... 1.5 mm ² | 0.14 ... 1.5 mm ² |
| Tightening torque | | 0.6 ... 0.8 Nm | 0.6 ... 0.8 Nm |
| Standard | | UL, CE | UL, CE |



| Version | Color | | |
|--------------------------------------|--------|---------------|---------------|
| 1 Isolating terminal | | | |
| Isolating terminal in the upper tier | ● Gray | 8WH1020-6AG00 | – |
| 2 Isolating blade | | | |
| Isolating blade in the upper tier | ● Gray | – | 8WH1020-6AC00 |

Special accessories

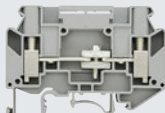
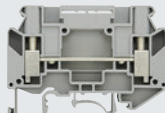
| Covers | | | | |
|---|---|---------------|---------------|---------------|
|  | Width | Color | Article No. | Article No. |
| | 2.2 mm | ● Gray | 8WH9000-1QA00 | 8WH9000-1QA00 |
| Compartment partitions | | | | |
|  | Thickness | Color | Article No. | Article No. |
| | 2 mm | ● Gray | 8WH9070-6FA00 | 8WH9070-6FA00 |
| Spacer plates | | | | |
|  | • Compensates for tier offset if other terminals are mounted side by side | | | |
| | Thickness | Color | Article No. | Article No. |
| 2.5 mm | ● Gray | 8WH9160-0AA00 | 8WH9160-0AA00 | |

See general accessories, page 14/57 onwards

8WH1 measuring transformer isolating terminals



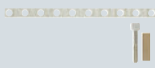





| | Terminal size 6 mm ² | |
|---|------------------------------------|----------------------------|
| Terminal width | 8.2 mm | 8.2 mm |
| Rated uninterrupted current I _u | 41 A | 41 A |
| Rated insulation voltage U _i | 500 V | 800 V |
| AWG | 24 | 8 |
| Connection capacity, rigid | 0.5 ... 10 mm ² | 0.5 ... 10 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 6 mm ² | 0.5 ... 6 mm ² |
| Disconnect slide tightening torque | 0.6 ... 0.8 Nm | – |
| Tightening torque | 1.5 ... 1.6 Nm | 1.5 ... 1.6 Nm |
| Standard | UL, CE | UL, CE |

| Terminals | Color | | |
|--|--------|---------------|---------------|
| 1 Isolating terminals | | | |
| 2 recesses for screwing in the test sockets | ● Gray | 8WH1000-7AH00 | – |
| 2 Through-type terminals with identical contour | | | |
| 2 recesses for screwing in the test sockets | ● Gray | – | 8WH1000-7BH00 |

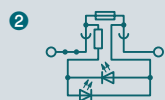
Special accessories

| Covers | | | | | |
|---|---|-----------------|---------------|---------------|---------------|
|  | Width | Color | Article No. | Article No. | |
| | 2.2 mm | ● Gray | 8WH9000-3UA00 | 8WH9000-3UA00 | |
| Disconnecting links | | | | | |
|  | <ul style="list-style-type: none"> For bridging two adjacent terminals Cannot be used with the bare 8WH9010-0MB12 test socket | | | | |
| | Tightening torque | Number of poles | Color | Article No. | Article No. |
| | 0.6 ... 0.8 Nm | 2-pole | ● Gray | 8WH9021-0AC00 | 8WH9021-0AC00 |
| Connecting combs, separable | | | | | |
|  | <ul style="list-style-type: none"> Consisting of connection wire, spacer sleeves and screws For bridging terminals, the connection wire is adjustable Cannot be used with the bare 8WH9010-0MB12 test socket | | | | |
| | Tightening torque | Number of poles | Color | Article No. | Article No. |
| | 0.6 ... 0.8 Nm | 10-pole | ● Gray | 8WH9021-0AL00 | 8WH9021-0AL00 |
| Short-circuiting plugs, fully insulated | | | | | |
|  | <ul style="list-style-type: none"> For short-circuiting adjacent terminals For simple transformer measurements Required when the bare 8WH9010-0MB12 test adapter is used in the measuring transformer terminal | | | | |
| | I _{max} | Number of poles | Color | Article No. | Article No. |
| | 20 A | 2-pole | ● Black | 8WH9010-0BC08 | 8WH9010-0BC08 |
| Test sockets, insulated | | | | | |
|  | <ul style="list-style-type: none"> For screwing into the measuring transformer terminals The 8WH9021-0AC00 disconnecting link shall be used for short-circuiting adjacent terminals | | | | |
| | Tightening torque | Color | Article No. | Article No. | |
| | 0.6 ... 0.8 Nm | ● Green | 8WH9010-0MB03 | 8WH9010-0MB03 | |
| | | ● Violet | 8WH9010-0MB11 | 8WH9010-0MB11 | |
| | | ● Yellow | 8WH9010-0MB06 | 8WH9010-0MB06 | |
| Test sockets, bare | | | | | |
|  | <ul style="list-style-type: none"> For screwing into the measuring transformer terminals For simple transformer measurements For tapping with test plug The 8WH9010-0BC08 short-circuiting plug shall be used for short-circuiting adjacent terminals | | | | |
| | Tightening torque | Article No. | Article No. | | |
| | 0.6 ... 0.8 Nm | 8WH9010-0MB12 | 8WH9010-0MB12 | | |

See general accessories, page 14/57 onwards

8WH screw terminals

8WH1 fuse terminals



| | Terminal size | |
|--|------------------------------|-----------------------------|
| | 4 mm ² | 6 mm ² |
| Terminal width | 6.2 mm | 8.2 mm |
| Max. load current I _{max} | 6.3 A | 10 A |
| Rated voltage U _n | 500 V | 630 V |
| AWG | 26 ... 10 | 24 ... 8 |
| Connection capacity, one rigid conductor | 0.14 ... 6 mm ² | 0.2 ... 10 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² | 0.2 ... 2.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 6 mm ² | 0.2 ... 10 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² | 0.2 ... 2.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm | 1.5 ... 1.8 Nm |
| Standard | IEC 60947-7-3, us, © | IEC 60947-7-3, us, © |
| | | |

| LED | Color | | |
|---|---------|---------------|---------------|
| For 5 × 20 mm G fuse links | | | |
| ① Without | ● Black | 8WH1000-1GG08 | – |
| ② AC/DC with LED 10 ... 30 V | ● Black | 8WH1000-1KG38 | – |
| ② AC/DC with LED 110 ... 250 V | ● Black | 8WH1000-1MG88 | – |
| For 6.3 × 32 mm G fuse links (inch fuses) | | | |
| ① Without | ● Black | – | 8WH1000-1HH08 |
| ② AC/DC with LED 12 ... 30 V | ● Black | – | 8WH1000-1PH38 |

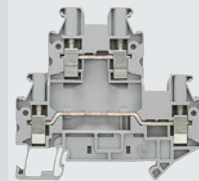
Special accessories

| Reducing combs | | | |
|---------------------|--|-------------|---------------|
| | <ul style="list-style-type: none"> For connecting terminals from terminal size 6 mm² to 2.5 mm² or 4 mm² | | |
| Version | Color | Article No. | Article No. |
| From screw to screw | ● Turquoise | – | 8WH9002-8AC10 |

See general accessories, page 14/57 onwards

8WH1 two-tier terminals for soldering of components ¹⁾

| | |
|---|------------------------------|
| Terminal size | 2.5 mm² |
| Terminal width | 5.2 mm |
| Max. load current I_{max} | 28 A |
| Rated voltage U_{max} | 500 V |
| AWG | 26 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 4 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 4 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.5 ... 0.6 Nm |
| Standard | UL, CE |



| Terminals | Color | Article No. |
|-----------|--------|---------------|
| 4 | ● Gray | 8WH1020-5LF00 |

¹⁾ Supplied without components; the appropriate components (resistors, diodes, capacitors, ...) are to be soldered in by user

Special accessories

| Covers | | | |
|---|---|--------------|--------------------|
|  | Width | Color | Article No. |
| | 2.2 mm | ● Gray | 8WH9000-1QA00 |
| Compartment partitions | | | |
|  | Thickness | Color | Article No. |
| | 2 mm | ● Gray | 8WH9070-6FA00 |
| Spacer plates | | | |
|  | • Compensates for tier offset if other terminals are mounted side by side | | Article No. |
| | Thickness | Color | 8WH9160-0AA00 |
| | 2.5 mm | ● Gray | |

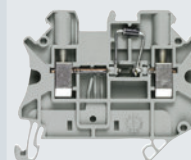
See general accessories, page 14/57 onwards

8WH screw terminals

8WH1 diode terminals



| | Terminal size |
|--|------------------------------|
| | 4 mm ² |
| Terminal width | 6.2 mm |
| Uninterrupted limiting current | 0.5 A |
| Rated insulation voltage U _i | 800 V |
| Blocking voltage | 1300 V |
| AWG | 26 ... 10 |
| Connection capacity, one rigid conductor | 0.14 ... 6 mm ² |
| Connection capacity, two rigid conductors | 0.14 ... 1.5 mm ² |
| Connection capacity, one flexible conductor with end sleeve | 0.14 ... 6 mm ² |
| Connection capacity, two flexible conductors with end sleeve | 0.14 ... 1.5 mm ² |
| Tightening torque | 0.6 ... 0.8 Nm |
| Diode | 1N 4007, integrated |
| Standard | UL, CE |



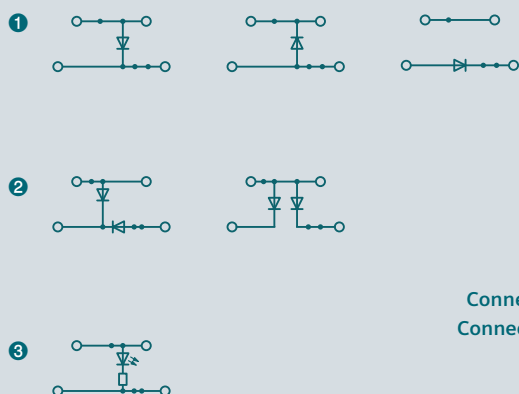
| Let-through | Color | |
|----------------------|--------|---------------|
| ① From left to right | ● Gray | 8WH1000-6LG00 |
| ② From right to left | ● Gray | 8WH1000-6KG00 |

Special accessories

| Covers | | | |
|---|------------------|----------|---------------|
| | Width | Color | Article No. |
|  | 2.2 mm | ● Gray | 8WH9000-2PA00 |
| Warning covers | | | |
| | Image | Color | Article No. |
|  | Lightning symbol | ● Yellow | 8WH9063-5BA06 |

See general accessories, page 14/57 onwards

8WH1 two-tier diode terminals


Terminal size
2.5 mm²

Terminal width 5.2 mm

Max. load current I_{max} 28 A

Uninterrupted limiting current 0.5 A

Rated insulation voltage U_i 500 V

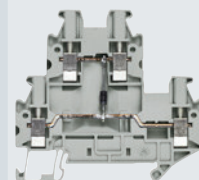
AWG 26 ... 10

Connection capacity, one rigid conductor 0.14 ... 4 mm²Connection capacity, two rigid conductors 0.14 ... 1.5 mm²Connection capacity, one flexible conductor with end sleeve 0.14 ... 4 mm²Connection capacity, two flexible conductors with end sleeve 0.14 ... 1.5 mm²

Tightening torque 0.5 ... 0.6 Nm

Diode 1N 4007, integrated

Standard cULus, ©



| Versions | LED | Color | |
|--|---------|--------|---------------|
| 1 With one diode | | | |
| Let-through from top to bottom | | ● Gray | 8WH1020-5AF00 |
| Let-through from bottom to top | | ● Gray | 8WH1020-5BF00 |
| Let-through from bottom left to bottom right | | ● Gray | 8WH1020-5DF00 |
| 2 With two diodes | | | |
| Let-through from top to bottom left and from bottom right to bottom left | | ● Gray | 8WH1020-5FF00 |
| Let-through from top to bottom left and from top to bottom right | | ● Gray | 8WH1020-5HF00 |
| 3 With illuminated display | | | |
| Let-through from top to bottom | 24 V DC | ● Gray | 8WH1020-5JF30 |

Special accessories

Covers


Width
2.2 mm

Color
● Gray

Article No.
8WH9000-1QA00

Compartment partitions


Thickness
2 mm

Color
● Gray

Article No.
8WH9070-6FA00

Spacer plates



- Compensates for tier offset if other terminals are mounted side by side

Thickness
2.5 mm

Color
● Gray

Article No.
8WH9160-0AA00

See general accessories, page 14/57 onwards

8WH screw terminals

8WH9 shield terminals

| | Terminal diameter | | | |
|---------------------------------|---|---|---|---|
| | 3 ... 8 mm | 3 ... 14 mm | 3 ... 20 mm | 20 ... 35 mm |
| Tightening torque | 0.6 Nm | 0.8 Nm | 0.8 Nm | 1.5 ... 1.8 Nm |
| Sheet thickness, mounting plate | 1 ... 2 mm | 1 ... 2 mm | 1 ... 2 mm | 1 ... 2 mm |
| |  |  |  |  |

Version

For direct shield attachment on conductive mounting plate

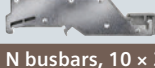
| | | | | |
|--|---------------|---------------|---------------|---------------|
| For connecting cable shield and enclosure ground | 8WH9130-0AA00 | 8WH9130-0BA00 | 8WH9130-0CA00 | 8WH9130-0DA00 |
|--|---------------|---------------|---------------|---------------|

For 10 × 3 mm busbars


| | | | | |
|--|---------------|---------------|---------------|---------------|
| For connecting cable shield and enclosure ground | 8WH9130-0LA00 | 8WH9130-0MA00 | 8WH9130-0NA00 | 8WH9130-0PA00 |
|--|---------------|---------------|---------------|---------------|

Special accessories

Support brackets

| | Version | Article No. | Article No. | Article No. | Article No. |
|---|---|---------------|---------------|---------------|---------------|
|  | Made of molded plastic and conductive connection with retaining screw | 8WH9140-0DA00 | 8WH9140-0DA00 | 8WH9140-0DA00 | 8WH9140-0DA00 |
|  | For mounting rail with clearance of approx. 30 mm to the busbar | 8WH9140-0BA00 | 8WH9140-0BA00 | 8WH9140-0BA00 | – |
|  | For mounting rail with clearance of approx. 65 mm to the busbar | 8WH9140-0CA00 | 8WH9140-0CA00 | 8WH9140-0CA00 | – |

N busbars, 10 × 3 mm

| | Version | Length | Article No. | Article No. | Article No. | Article No. |
|---|----------------|---------|-------------|-------------|-------------|-------------|
|  | Copper, tinned | 1000 mm | 8WA2842 | 8WA2842 | 8WA2842 | 8WA2842 |

See general accessories, page 14/57 onwards

Accessories for 8WH terminal blocks

Individual labeling system

Labeling systems for

- Terminal blocks
- Modular installation devices
- Circuit breakers
- Switch disconnectors

The inscription labels can be inscribed with Murrplastik labeling systems or by hand.

The WIN designation facilitates assignment in the inscription software.


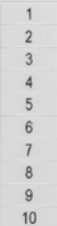




Labeling systems available from:

Murrplastik Systemtechnik GmbH
Postfach 1143
D-71570 Oppenweiler
Telephone: 07191-482-0
email: info@murrplastik.de

| Blank labels | | | | | |
|---|---|-------------|---------------|---------------|--|
| Version | Terminal width | Designation | Color | Article No. | |
| Front | 3.5 mm | WIN 97 | ● White | 8WH8112-0AA05 | |
| | 4.2 mm | WIN 97 | ● White | 8WH8112-1AA05 | |
| | 5.2 and 6.2 mm | WIN 88 | ● White | 8WH8112-2AA05 | |
| | 8.2, 10, 12 and 16 mm | WIN 40 | ● White | 8WH8112-4AA05 | |
| Flat | 3.5 mm | WIN 97 | ● White | 8WH8113-0AA05 | |
| | 4.2 mm | WIN 180 | ● White | 8WH8113-1AA05 | |
| | 5.2 mm | WIN 182 | ● White | 8WH8113-1AA05 | |
| | 6.2 mm | WIN 184 | ● White | 8WH8113-1AA05 | |
| | 8.2 mm | WIN 186 | ● White | 8WH8113-1AA05 | |
| | 10 mm | WIN 188 | ● White | 8WH8113-1AA05 | |
| | 12 and 16 mm | WIN 46Z | ● White | 8WH8113-6AA05 | |
| | | | | | |
| Snap-on device labels | | | | | |
|  | <ul style="list-style-type: none"> • For identification of, e.g. circuit breakers, contactors and control systems | | | | |
| | Version | Designation | Color | Article No. | |
| | 20 × 7 mm, snap-on hooks at side | WIN 95 | ● White | 8WH8210-0AA55 | |
| 20 × 7 mm, snap-on hooks at side | WIN 95 | ● Turquoise | 8WH8210-0AA56 | | |
| Adhesive device labels | | | | | |
|  | <ul style="list-style-type: none"> • For identification of, e.g. modular installation devices and switch disconnectors | | | | |
| | Versions | Designation | Color | Article No. | |
| | 15 × 6 mm | WIN 098 | ● White | 8WH8210-0AA35 | |
| | | WIN 099 | ● Yellow | 8WH8210-0AA36 | |
| 19 × 8 mm | WIN 088 | ● White | 8WH8210-0AA45 | | |
| | WIN 082 | ● Yellow | 8WH8210-0AA46 | | |

Accessories for 8WH terminal blocks

Standard labeling system

| | | | | Terminal size | 1.5 mm ² | 2.5 mm ² |
|---|---|-----------------------|-----------------------|---------------------|------------------------|------------------------|
| | | | | Terminal width | 4.2 mm / 5.2 mm (8WH3) | 5.2 mm / 6.2 mm (8WH3) |
| Front | | | | | | |
|  | Vertical | Consecutive numbering | 1 ... 10 (10×) | 8WH8120-1AB05 | 8WH8120-2AB05 | |
| | | | 11 ... 20 (10×) | 8WH8120-1AB15 | 8WH8120-2AB15 | |
| | | | 21 ... 30 (10×) | 8WH8120-1AB25 | 8WH8120-2AB25 | |
| | | | 31 ... 40 (10×) | 8WH8120-1AB35 | 8WH8120-2AB35 | |
| | | | 41 ... 50 (10×) | 8WH8120-1AB45 | 8WH8120-2AB45 | |
| | | | 51 ... 60 (10×) | 8WH8120-1AB55 | 8WH8120-2AB55 | |
| | | | 61 ... 70 (10×) | 8WH8120-1AB65 | 8WH8120-2AB65 | |
| | | | 71 ... 80 (10×) | 8WH8120-1AB75 | 8WH8120-2AB75 | |
| | | | 81 ... 90 (10×) | 8WH8120-1AB85 | 8WH8120-2AB85 | |
| | | | 91 ... 100 (10×) | 8WH8120-1AC05 | 8WH8120-2AC05 | |
| | L1, L2, L3, N, PE | – | – | 8WH8120-2AA15 | | |
| | U, V, W, N, grounding | – | – | – | | |
| | Custom inscription | – | 8WH8120-1XA05-Z Y01 | 8WH8120-2XA05-Z Y01 | | |
| |  | Horizontal | Consecutive numbering | 1 ... 10 (10×) | 8WH8140-1AB05 | 8WH8140-2AB05 |
| | | | | 11 ... 20 (10×) | 8WH8140-1AB15 | 8WH8140-2AB15 |
| 21 ... 30 (10×) | | | | 8WH8140-1AB25 | 8WH8140-2AB25 | |
| 31 ... 40 (10×) | | | | 8WH8140-1AB35 | 8WH8140-2AB35 | |
| 41 ... 50 (10×) | | | | – | 8WH8140-2AB45 | |
| 51 ... 60 (10×) | | | | – | 8WH8140-2AB55 | |
| 61 ... 70 (10×) | | | | – | 8WH8140-2AB65 | |
| 71 ... 80 (10×) | | | | – | 8WH8140-2AB75 | |
| 81 ... 90 (10×) | | | | – | 8WH8140-2AB85 | |
| 91 ... 100 (10×) | | | | – | 8WH8140-2AC05 | |
| Custom inscription | – | 8WH8140-1XA05-Z Y01 | 8WH8140-2XA05-Z Y01 | | | |
|  | Blank | – | – | 8WH8110-1AA05 | 8WH8110-2AA05 | |
| | | | | – | – | |
| Flat | | | | | | |
|  | Vertical | Consecutive numbering | 1 ... 10 (10×) | 8WH8121-1AB05 | 8WH8121-2AB05 | |
| | | | 11 ... 20 (10×) | 8WH8121-1AB15 | 8WH8121-2AB15 | |
| | | | 21 ... 30 (10×) | 8WH8121-1AB25 | 8WH8121-2AB25 | |
| | | | 31 ... 40 (10×) | 8WH8121-1AB35 | 8WH8121-2AB35 | |
| | | | 41 ... 50 (10×) | 8WH8121-1AB45 | 8WH8121-2AB45 | |
| | | | 51 ... 60 (10×) | 8WH8121-1AB55 | 8WH8121-2AB55 | |
| | | | 61 ... 70 (10×) | – | 8WH8121-2AB65 | |
| | | | 71 ... 80 (10×) | – | 8WH8121-2AB75 | |
| | | | 81 ... 90 (10×) | – | 8WH8121-2AB85 | |
| | | | 91 ... 100 (10×) | – | 8WH8121-2AC05 | |
| | Custom inscription | – | 8WH8121-1XA05-Z Y01 | 8WH8121-2XA05-Z Y01 | | |
| |  | Horizontal | Consecutive numbering | 1 ... 10 (10×) | 8WH8141-1AB05 | 8WH8141-2AB05 |
| | | | | 11 ... 20 (10×) | 8WH8141-1AB15 | 8WH8141-2AB15 |
| | | | | 21 ... 30 (10×) | 8WH8141-1AB25 | 8WH8141-2AB25 |
| | | | | 31 ... 40 (10×) | 8WH8141-1AB35 | 8WH8141-2AB35 |
| 41 ... 50 (10×) | | | | 8WH8141-1AB45 | 8WH8141-2AB45 | |
| 51 ... 60 (10×) | | | | – | 8WH8141-2AB55 | |
| 61 ... 70 (10×) | | | | – | 8WH8141-2AB65 | |
| 71 ... 80 (10×) | | | | – | 8WH8141-2AB75 | |
| 81 ... 90 (10×) | | | | – | 8WH8141-2AB85 | |
| 91 ... 100 (10×) | | | | – | 8WH8141-2AC05 | |
| Custom inscription | – | 8WH8141-1XA05-Z Y01 | 8WH8141-2XA05-Z Y01 | | | |
|  | Blank | – | – | 8WH8111-1AA05 | 8WH8111-2AA05 | |
| | | | | – | – | |

| 4 mm ² | 6 mm ² | 10 and 16 mm ² | 35 mm ² |
|---------------------|---------------------|---------------------------|---------------------|
| 6.2 mm | 8.2 mm | 10 and 12 mm | 16 mm |
| Article No. | Article No. | Article No. | Article No. |
| 8WH8120-3AB05 | 8WH8120-4AB05 | 8WH8120-5AB05 | – |
| 8WH8120-3AB15 | 8WH8120-4AB15 | 8WH8120-5AB15 | – |
| 8WH8120-3AB25 | 8WH8120-4AB25 | 8WH8120-5AB25 | – |
| 8WH8120-3AB35 | 8WH8120-4AB35 | 8WH8120-5AB35 | – |
| 8WH8120-3AB45 | 8WH8120-4AB45 | – | – |
| 8WH8120-3AB55 | 8WH8120-4AB55 | – | – |
| 8WH8120-3AB65 | 8WH8120-4AB65 | – | – |
| 8WH8120-3AB75 | 8WH8120-4AB75 | – | – |
| 8WH8120-3AB85 | 8WH8120-4AB85 | – | – |
| 8WH8120-3AC05 | 8WH8120-4AC05 | – | – |
| 8WH8120-3AA15 | 8WH8120-4AA15 | 8WH8120-5AA15 | 8WH8120-7AA15 |
| – | – | 8WH8120-5AA25 | – |
| 8WH8120-3XA05-Z Y01 | 8WH8120-4XA05-Z Y01 | 8WH8120-5XA05-Z Y01 | 8WH8120-7XA05-Z Y01 |
| 8WH8140-3AB05 | 8WH8140-4AB05 | 8WH8140-5AB05 | – |
| 8WH8140-3AB15 | 8WH8140-4AB15 | 8WH8140-5AB15 | – |
| 8WH8140-3AB25 | 8WH8140-4AB25 | 8WH8140-5AB25 | – |
| 8WH8140-3AB35 | – | 8WH8140-5AB35 | – |
| 8WH8140-3AB45 | – | – | – |
| 8WH8140-3AB55 | – | – | – |
| 8WH8140-3AB65 | – | – | – |
| 8WH8140-3AB75 | – | – | – |
| 8WH8140-3AB85 | – | – | – |
| 8WH8140-3AC05 | – | – | – |
| 8WH8140-3XA05-Z Y01 | 8WH8140-4XA05-Z Y01 | 8WH8140-5XA05-Z Y01 | 8WH8140-7XA05-Z Y01 |
| 8WH8110-3AA05 | 8WH8110-4AA05 | 8WH8110-5AA05 | 8WH8110-7AA05 |
| Article No. | Article No. | Article No. | Article No. |
| 8WH8121-3AB05 | 8WH8121-4AB05 | 8WH8121-5AB05 | – |
| 8WH8121-3AB15 | 8WH8121-4AB15 | 8WH8121-5AB15 | – |
| 8WH8121-3AB25 | 8WH8121-4AB25 | 8WH8121-5AB25 | – |
| 8WH8121-3AB35 | – | – | – |
| 8WH8121-3AB45 | – | – | – |
| 8WH8121-3AB55 | – | – | – |
| 8WH8121-3AB65 | – | – | – |
| 8WH8121-3AB75 | – | – | – |
| 8WH8121-3AB85 | – | – | – |
| 8WH8121-3AC05 | – | – | – |
| 8WH8121-3XA05-Z Y01 | 8WH8121-4XA05-Z Y01 | 8WH8121-5XA05-Z Y01 | – |
| 8WH8141-3AB05 | 8WH8141-4AB05 | 8WH8141-5AB05 | – |
| – | 8WH8141-4AB15 | – | – |
| – | 8WH8141-4AB25 | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| 8WH8141-3XA05-Z Y01 | 8WH8141-4XA05-Z Y01 | 8WH8141-5XA05-Z Y01 | – |
| 8WH8111-3AA05 | 8WH8111-4AA05 | 8WH8111-5AA05 | 8WH8111-7AA05 |

Accessories for 8WH terminal blocks

Mounting accessories

Lateral mounting test plugs



- For individual assembly of test plug connectors
- Cannot be used for 8WH3 insulation displacement terminals.

| Terminal size | Terminal width | Color | Article No. |
|---------------------|----------------|-------|---------------|
| 2.5 mm ² | 5.2 mm | ● Red | 8WH9010-0EB02 |

Spacer plates



- For skipping single terminals for individual test adapter assembly
- Not suitable for 8WH3 insulation displacement terminals

| Terminal size | Terminal width | Color | Article No. |
|---------------------|----------------|-------|---------------|
| 2.5 mm ² | 5.2 mm | ● Red | 8WH9010-2BA02 |

Terminal strip markers, for end retainers



- Height-adjustable
- For quick-fit end retainers
- For inscription with two front labels, for terminal width 10.2 mm and terminal strip markers

| Labeling field size | Color | Article No. |
|---------------------|--------|---------------|
| 20 x 8 mm | ● Gray | 8WH9150-1CA00 |

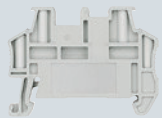
Test adapters



- For 4 mm Ø test plugs and 4 mm Ø safety test plugs
- Makes contact in the bridge slot

| Color | Article No. |
|--------|---------------|
| ● Gray | 8WH9010-0JB00 |

Quick-fit end retainers



- For inscription with front labels, for terminal width 5.2 mm and terminal strip markers

| Color | Article No. |
|--------|---------------|
| ● Gray | 8WH9150-0CA00 |

Reducing combs



- For connecting two through-type terminals
- Cannot be used for 8WH1 through-type terminals and 8WH3 insulation displacement terminals

| From terminal size | To terminal size | Color | Article No. |
|--|---------------------|-------------|---------------|
| 2.5 mm ² or 4 mm ² | 1.5 mm ² | ● Turquoise | 8WH9020-0CC10 |
| | 6 mm ² | ● Turquoise | 8WH9020-0FC10 |
| | 10 mm ² | ● Turquoise | 8WH9020-0AC10 |
| | 16 mm ² | ● Turquoise | 8WH9020-0BC10 |
| | 35 mm ² | ● Turquoise | 8WH9020-0EC10 |
| 16 mm ² | 35 mm ² | ● Turquoise | 8WH9020-0DC10 |

Connecting combs



| Terminal size | Terminal width | Max. load current I_{\max} | Used for 8WH3 | Number of poles | Article No. |
|---------------------|----------------|------------------------------|---|-----------------|---------------|
| 1.5 mm ² | 4.2 mm | 17.5 A | Cannot be used | 2-pole | 8WH9020-6AC10 |
| | | | | 3-pole | 8WH9020-6AD10 |
| | | | | 4-pole | 8WH9020-6AE10 |
| | | | | 5-pole | 8WH9020-6AF10 |
| | | | | 10-pole | 8WH9020-6AL10 |
| | | | | 20-pole | 8WH9020-6AS10 |
| 2.5 mm ² | 5.2 mm | 24 A | Can be used for terminal size 1.5 mm ² | 2-pole | 8WH9020-6BC10 |
| | | | | 3-pole | 8WH9020-6BD10 |
| | | | | 4-pole | 8WH9020-6BE10 |
| | | | | 5-pole | 8WH9020-6BF10 |
| | | | | 10-pole | 8WH9020-6BL10 |
| | | | | 20-pole | 8WH9020-6BS10 |
| 4 mm ² | 6.2 mm | 32 A | Can be used for terminal size 2.5 mm ² | 2-pole | 8WH9020-6CC10 |
| | | | | 3-pole | 8WH9020-6CD10 |
| | | | | 4-pole | 8WH9020-6CE10 |
| | | | | 5-pole | 8WH9020-6CF10 |
| | | | | 10-pole | 8WH9020-6CL10 |
| | | | | 20-pole | 8WH9020-6CS10 |
| 6 mm ² | 8.2 mm | 41 A | Cannot be used | 2-pole | 8WH9020-6DC10 |
| | | | | 3-pole | 8WH9020-6DD10 |
| | | | | 4-pole | 8WH9020-6DE10 |
| | | | | 5-pole | 8WH9020-6DF10 |
| | | | | 10-pole | 8WH9020-6DL10 |
| 10 mm ² | 10 mm | 57 A | Cannot be used | 2-pole | 8WH9020-6EC10 |
| 16 mm ² | 12 mm | 76 A | Cannot be used | 2-pole | 8WH9020-6FC10 |
| 35 mm ² | 16 mm | 101 A | Cannot be used | 2-pole | 8WH9020-6GC10 |

Screwdrivers



| Variant | Article No. |
|--------------|---------------|
| 0.4 × 2.5 mm | 8WH9200-0AA00 |
| 0.6 × 3.5 mm | 8WH9200-0AB00 |
| 0.8 × 4.0 mm | 8WH9200-0AC00 |
| 1.0 × 5.5 mm | 8WH9200-0AD00 |

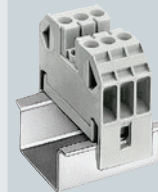
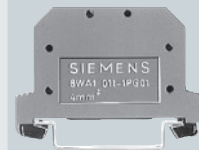
8WA1 screw terminals

Through-type terminals











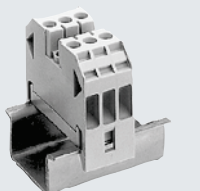


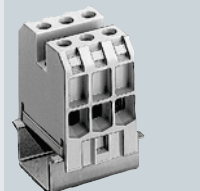


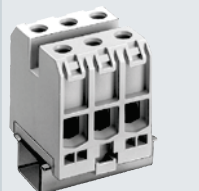



| | |
|---|-------------------------------------|
| Terminal width, through-type terminal | 6 mm |
| Terminal width, PE/PEN through-type terminal | 6 mm |
| 3-pole terminal block width | 18 mm |
| 10-pole terminal block width | 61 mm |
| Rated uninterrupted current I_u | 24 A |
| Rated voltage U_e (VA, Ⓢ) | 600 V |
| Rated insulation voltage U_i | 800 V |
| AWG VA | 22 ... 12 |
| AWG Ⓢ | 18 ... 12 |
| Connection capacity, rigid | 0.5 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 2.5 mm ² |
| Tightening torque | 0.5 Nm |
| Standard | IEC 60947-7-1, IEC 60947-7-2, VA, Ⓢ |

| Terminal size | 2.5 mm ² | 4 mm ² |
|---|-------------------------------------|-------------------------------------|
| Terminal width, through-type terminal | 6 mm | 6.5 mm |
| Terminal width, PE/PEN through-type terminal | 6 mm | 7.2 mm |
| 3-pole terminal block width | 18 mm | 19.5 mm |
| 10-pole terminal block width | 61 mm | 65.5 mm |
| Rated uninterrupted current I_u | 24 A | 32 A |
| Rated voltage U_e (VA, Ⓢ) | 600 V | 600 V |
| Rated insulation voltage U_i | 800 V | 800 V |
| AWG VA | 22 ... 12 | 18 ... 10 |
| AWG Ⓢ | 18 ... 12 | 18 ... 10 |
| Connection capacity, rigid | 0.5 ... 4 mm ² | 0.5 ... 6 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 2.5 mm ² | 0.5 ... 4 mm ² |
| Tightening torque | 0.5 Nm | 0.5 Nm |
| Standard | IEC 60947-7-1, IEC 60947-7-2, VA, Ⓢ | IEC 60947-7-1, IEC 60947-7-2, VA, Ⓢ |



| Terminals | Number of poles | Inscription | Color | | |
|---|-----------------|-------------|----------------|---------------|---------------|
| ① Through-type terminal – single terminal | | | | | |
| 2 | 1-pole | Blank | ● Beige | 8WA1011-1DF11 | 8WA1011-1DG11 |
| | | | ● Blue | 8WA1011-1BF23 | 8WA1011-1BG11 |
| | | | ● Red | 8WA1011-1BF21 | 8WA1011-1BG21 |
| | | | ● Orange | 8WA1011-1BF22 | 8WA1011-1BG22 |
| | | | ● Yellow | 8WA1011-1BF26 | – |
| | | | ● Black | 8WA1011-1BF24 | 8WA1011-1BG24 |
| | | | ● Green | 8WA1011-1BF25 | – |
| ② PE/PEN through-type terminal – single terminal | | | | | |
| 1 | 1-pole | Blank | ● Green-yellow | 8WA1011-1PF01 | 8WA1011-1PG01 |
| 2 | 1-pole | Blank | ● Green-yellow | 8WA1011-1PF00 | 8WA1011-1PG00 |
| ③ Through-type terminal block | | | | | |
| 6 | 3-pole | Blank | ● Beige | 8WA1011-3DF21 | 8WA1011-3DG21 |
| 20 | 10-pole | Blank | ● Beige | 8WA1011-0DF21 | 8WA1011-0DG21 |
| | | 1 ... 10 | ● Beige | 8WA1011-0DF22 | 8WA1011-0DG22 |

| 6 mm ² | 16 mm ² | 35 mm ² | 70 mm ² |
|---|--|--|--|
| 8 mm | 10 mm | 16 mm | 25 mm |
| 8 mm | 12 mm | 16 mm | – |
| 24.5 mm | 30 mm | 48 mm | – |
| – | – | – | – |
| 41 A | 76 A | 125 A | 192 A |
| 600 V | 600 V | 600 V | 600 V |
| 800 V | 800 V | 800 V | 800 V |
| 14 ... 8 | 12 ... 4 | 10 ... 1 | 8 ... 3/0 |
| 16 ... 8 | 14 ... 6 | 12 ... 2 | 8 ... 1/0 |
| 0.7 ... 10 mm ² | 1.5 ... 16 mm ² | 4 ... 16 mm ² | 10 ... 95 mm ² |
| 1.5 ... 6 mm ² | 2.5 ... 16 mm ² | 4 ... 35 mm ² | 16 ... 70 mm ² |
| 0.8 Nm | 1.2 Nm | 2.5 ... 3 Nm | 6 Nm |
| IEC 60947-7-1, IEC 60947-7-2,   | IEC 60947-7-1, IEC 60947-7-2,   | IEC 60947-7-1, IEC 60947-7-2,   | IEC 60947-7-1,   |
|    |    |    |  |

| | | | |
|---------------|---------------|---------------|---------------|
| 8WA1011-1DH11 | 8WA1204 | 8WA1205 | 8WA1206 |
| 8WA1011-1BH23 | 8WA1011-1BK11 | 8WA1011-1BM11 | 8WA1011-1BP11 |
| – | – | – | – |
| – | – | – | – |
| – | – | – | – |
| 8WA1011-1BH24 | – | – | – |
| – | – | – | – |
| – | – | – | – |
| 8WA1011-1PH00 | 8WA1011-1PK00 | 8WA1011-1PM00 | – |
| 8WA1011-3DH21 | 8WA1304 | 8WA1305 | – |
| – | – | – | – |
| – | – | – | – |

8WA1 screw terminals

Through-type terminals

Special accessories

| | Terminal size | 2.5 mm ² | 4 mm ² |
|---|--|---------------------|--------------------|
| Covers | | | |
|  | Version | Article No. | Article No. |
| | With lightning symbol | 8WA1810 | 8WA1811 |
|  | White, facility for labeling | 8WA1860 | 8WA1862 |
| | For connection bars, transparent | 8WA1822-7AX01 | 8WA1822-7AX01 |
|  | For connection bars, white, inscription possible | 8WA1822-7AX03 | 8WA1822-7AX03 |
| Jumpers | | | |
|  | Version | Article No. | Article No. |
| | For connection bars | 8WA1822-7VF01 | 8WA1822-7VG00 |
| Disconnecting links | | | |
|  | <ul style="list-style-type: none"> The terminals must be fitted with end plates and must be mounted with the end plates facing each other | | |
| | I_n | Article No. | Article No. |
| Up to 32 A | 8WA1865 | 8WA1865 | |
| End retainers, thermoplastic | | | |
|  | Width | Article No. | Article No. |
| | 10 mm | 8WA1808 | 8WA1808 |
| Insulation plate | | | |
|  | | Article No. | Article No. |
| | | 8WA1825 | 8WA1825 |
| Barriers | | | |
|  | <ul style="list-style-type: none"> Between terminals with terminal sizes 2.5 and 6 mm² two 8WH1820 barriers are required | | |
| | Thickness | Article No. | Article No. |
| 2 mm | 8WA1820 | 8WA1820 | |
| Connection bars | | | |
|  | Version | Article No. | Article No. |
| | For two terminals | 8WA1895 | 8WA1850 |
| | For three terminals | 8WA1896 | 8WA1851 |
| | For four terminals | 8WA1897 | 8WA1852 |
| | For ten terminals | 8WA1898 | 8WA1853 |

See general accessories, page 14/78 onwards

| 6 mm ² | 16 mm ² | 35 mm ² | 70 mm ² |
|--------------------|--------------------|--------------------|--------------------|
| Article No. | Article No. | Article No. | Article No. |
| 8WA1811 | 8WA1812 | 8WA1813 | 8WA1814 |
| 8WA1862 | 8WA1892 | 8WA1893 | – |
| 8WA1822-7AX01 | 8WA1822-7AX02 | 8WA1822-7AX02 | – |
| 8WA1822-7AX03 | – | – | – |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1822-7VH00 | – | – | – |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1865 | – | – | – |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1808 | 8WA1808 | 8WA1808 | 8WA1808 |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1825 | 8WA1822-7TK00 | 8WA1822-7TK00 | – |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1821 | 8WA1821 | 8WA1823 | 8WA1824 |
| Article No. | Article No. | Article No. | Article No. |
| 8WA1885 | 8WA1842 | 8WA1828 | 8WA1216 |
| 8WA1886 | 8WA1845 | 8WA1803 | – |
| 8WA1887 | 8WA1848 | – | – |
| 8WA1888 | 8WA1802 | 8WA1804 | – |

8WA1 screw terminals

PE through-type terminals, bare




| | Terminal size | |
|---|----------------------------|---------------------------|
| | 6 mm ² | 95 mm ² |
| Terminal width | 6 mm | 16 mm |
| Terminal length | 44 mm | 75 mm |
| Terminal height | 25 mm | 63 mm |
| Tightening torque | 0.8 Nm | 15 ... 20 Nm |
| Connection capacity, rigid | 0.5 ... 10 mm ² | – |
| Connection capacity, flexible with end sleeve | 1.5 ... 6 mm ² | 50 ... 95 mm ² |
| Standard | ☉ | ☉ |




| Terminals | Surface | | |
|---------------------------|---------|---------------|---------------|
| PE through-type terminals | | | |
| 2 | ● Bare | 8WA1010-1PH01 | 8WA1010-1PQ00 |

Special accessories


| Barriers | Article No. | Article No. |
|---|-------------|-------------|
|  | 8WA1821 | – |

See general accessories, page 14/78 onwards

Two-tier terminals



| | | |
|--|--|----------------------------|
| | Terminal size | 4 mm ² |
| | Terminal width | 6.5 mm |
| | Rated uninterrupted current I_u | 32 A |
| | Rated insulation voltage U_i | 690 V |
| | AWG | 18 ... 10 |
| | AWG | 18 ... 10 |
| | Connection capacity, rigid | 0.5 ... 6 mm ² |
| | Connection capacity, flexible with end sleeve | 0.75 ... 4 mm ² |
| | Standard | |



| Version | Color | |
|---|-------|---------------|
| 1 Two-tier terminals without equipotential bonding | | |
| 2-pole with two isolated connections | Beige | 8WA1011-2DG11 |
| | Blue | 8WA1011-2BG11 |
| 2 Two-tier terminals with equipotential bonding | | |
| 1-pole | Beige | 8WA1011-6DG11 |
| | Blue | 8WA1011-6BG11 |

Special accessories

| Covers | | | |
|---------------------|--|--|-------------------|
| | Version | | Article No. |
| | With lightning symbol | | 8WA1811 |
| | White, facility for labeling | | 8WA1862 |
| | For connection bars, transparent | | 8WA1822-7AX01 |
| Jumpers | | | |
| | Version | | Article No. |
| | For upper tier of 2-pole terminals | | 8WA1822-7VG00 |
| | For lower tier of 1 and 2-pole terminals | | 8WA1822-7VG01 |
| Disconnecting links | | | |
| | | | Article No. |
| | | | 8WA1865 |
| End plates | | | |
| | | | Article No. |
| | | | 8WA1817 |
| Insulation plate | | | |
| | Version | | Article No. |
| | For upper and lower tier | | 8WA1825 |
| Connection bars | | | |
| | Version | Versions | Article No. |
| | For upper tier of 2-pole terminals | For two terminals | 8WA1850 |
| | | For three terminals | 8WA1851 |
| | | For four terminals | 8WA1852 |
| | | For ten terminals | 8WA1853 |
| | | For lower tier of 1 and 2-pole terminals | For two terminals |
| | | For ten terminals | 8WA1838 |
| Barriers | | | |
| | Color | | Article No. |
| | Gray | | 8WA1823 |

See general accessories, page 14/78 onwards

8WA1 screw terminals

Insta or three-tier terminals



| | |
|--|---------------------------|
| Terminal size | 2.5 mm ² |
| Terminal width | 6 mm |
| Rated uninterrupted current I _u | 24 A |
| Rated insulation voltage U _i between phase conductors | 400 V |
| Rated insulation voltage U _i between phase and protective conductors and for neutral isolating distance | 250 V |
| AWG | 22 ... 12 |
| Connection capacity, rigid | 0.5 ... 4 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 4 mm ² |
| Tightening torque | 0.5 Nm |
| Standard | EN |



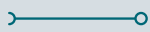
| Type | Color | Article No. |
|-------------|---------|---------------|
| ① L, L | ● Beige | 8WA1011-3JF18 |
| ② PE, L, L | ● Beige | 8WA1011-3JF16 |
| ③ PE, L, N | ● Beige | 8WA1011-3JF17 |
| ④ PE, L, NT | ● Beige | 8WA1011-3JF20 |

Special accessories

| Covers | | | |
|---|--------------------------------------|--------------------------|-----------------------------|
|  | Version | | Article No. |
| | For connection bars, transparent | | 8WA1822-7AX01 |
| | For connection bars, white | | 8WA1822-7AX03 |
| Bare feeder terminals, for N busbars | | | |
|  | Size | Conductor cross-section | Rated uninterrupted current |
| | 6 × 6 mm and 10 × 3 mm | Up to 4 mm ² | 32 A |
| | | Up to 25 mm ² | 76 A |
| | | Up to 35 mm ² | 125 A |
| | Article No. | | |
| | 8WA2867 | | |
| | 8WA2868 | | |
| | 8WA2870 | | |
| N busbars, 6 × 6 mm | | | |
|  | Version | Length | Rated uninterrupted current |
| | For four-field | 1109 mm | 125 A |
| | Article No. | | |
| | 8GF9324-2 | | |
| End retainers, thermoplastic | | | |
|  | Width | | Article No. |
| | 10 mm | | 8WA1808 |
| Terminal strip labels for end retainers | | | |
| | Version | | Article No. |
| | Blank (WIN 67) | | 8WA8212-0AA65 |
| Insulation carriers | | | |
|  | Use | | Article No. |
| | For mounting insulated support rails | | 8WA1857 |
| Labels, blank | | | |
| | Label size | Version | Article No. |
| | 5 × 7 mm (WIN 68) | Suitable for plotting | 8WA8348-2AY |
| Connection bars | | | |
|  | Version | Versions | Article No. |
| | For Insta terminals | For two terminals | 8WA1822-7VF02 |
| | | For three terminals | 8WA1822-7VF03 |
| | | For ten terminals | 8WA1822-7VF10 |
| Barriers | | | |
| | Version | Color | Article No. |
| | For Insta terminals | ● Gray | 8WA1822-7TH00 |

See general accessories, page 14/78 onwards

N conductor isolating and branch terminals



| | Terminal size | | | |
|---|-----------------------------|----------------------------|-----------------------------|----------------------------|
| | 2.5 mm ² | 4 mm ² | 6 mm ² | 16 mm ² |
| Terminal width | 6 mm | 6.5 mm | 8 mm | 10 mm |
| Rated uninterrupted current I _u | 24 A | 32 A | 41 A | 76 A |
| Rated insulation voltage U _i | 500 V | 500 V | 500 V | 500 V |
| AWG | 22 ... 12 | 18 ... 10 | 14 ... 8 | 12 ... 4 |
| AWG | 22 ... 12 | 18 ... 10 | 14 ... 8 | – |
| Connection capacity, rigid | 2.5 ... 4 mm ² | 0.5 ... 6 mm ² | 0.75 ... 10 mm ² | 1.5 ... 16 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 2.5 mm ² | 0.75 ... 4 mm ² | 0.5 ... 6 mm ² | 1.5 ... 16 mm ² |
| Tightening torque | 0.5 Nm | 0.5 Nm | 0.8 Nm | 1.2 Nm |
| Standard | | | | |
| | | | | |

| Terminals | Color | | | | |
|-----------|-------|---------------|---------------|---------------|---------|
| 2 | Blue | 8WA1011-1NF01 | 8WA1011-1NG31 | 8WA1011-1NH01 | 8WA1604 |

Special accessories

| Feeder terminals, for N busbars | | | | | | |
|-------------------------------------|---------------------------|-----------------------------|-------------|-------------|-------------|-------------|
| | Size | Rated uninterrupted current | Article No. | Article No. | Article No. | Article No. |
| | 6 × 6 mm and 10 × 3 mm | 32 A | 8WA2867 | 8WA2867 | – | – |
| | | 76 A | 8WA2868 | 8WA2868 | 8WA2868 | 8WA2868 |
| | | 125 A | 8WA2870 | 8WA2870 | 8WA2870 | 8WA2870 |
| N busbars, 6 × 6 mm, for four-field | | | | | | |
| | Length | Rated uninterrupted current | Article No. | Article No. | Article No. | Article No. |
| | 1109 mm | 125 A | 8GF9324-2 | 8GF9324-2 | 8GF9324-2 | 8GF9324-2 |
| Label holder | | | | | | |
| | | | Article No. | Article No. | Article No. | Article No. |
| | | | 3TX4210-0J | 3TX4210-0J | 3TX4210-0J | 3TX4210-0J |

See general accessories, page 14/78 onwards

8WA1 screw terminals

Through-type terminals with sectionalizing feature



| | |
|---|-----------------------------|
| | Terminal size |
| | 2.5 mm ² |
| Terminal width | 6 mm |
| Rated uninterrupted current I_u | 10 A |
| Rated insulation voltage U_i for open isolating distance | 380 V AC, 450 V DC |
| Rated insulation voltage U_i when using barriers | 750 V AC, 900 V DC |
| Connection capacity, rigid | 0.25 ... 4 mm ² |
| Connection capacity, flexible without end sleeve | 0.5 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 1.5 mm ² |
| Tightening torque | 0.5 Nm |
| Standard | IEC 60947-1, IEC 60947-2 |



| Terminals | Version | Color | |
|-----------|-------------------------------------|--------|---------|
| 2 | With 2 holes for Ø 2.3 mm test plug | ● Gray | 8WA1501 |

Special accessories

| Barriers | | Article No. |
|---|------------------------|-------------|
|  | Color ● Gray | 8WA1820 |

See general accessories, page 14/78 onwards

Measuring transformer terminals

| | | Terminal size 6 mm ² | | | |
|---------------------|-------|---|-----------------------------|---|-----------------------------|
| 1 | | Terminal width | 8 mm | 8 mm | 8 mm |
| 2 | | Rated uninterrupted current I _N | 41 A | 41 A | 41 A |
| | | Rated insulation voltage U _i | 500 V | 500 V | 500 V |
| | | AWG | 14 ... 8 | 14 ... 8 | 14 ... 8 |
| | | AWG | 16 ... 10 | 16 ... 10 | 16 ... 10 |
| | | Connection capacity, rigid | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² |
| | | Connection capacity, flexible with end sleeve | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² | 0.75 ... 10 mm ² |
| | | Tightening torque | 0.8 Nm | 0.8 Nm | 0.8 Nm |
| | | Standard | | | |
| | | | | | |
| Test sockets | Color | 1 Isolating terminal | 2 Isolating blade terminal | 3 Through-type terminals with identical contour | |
| Without test socket | Beige | 8WA1011-1MH11 | – | 8WA1011-1MH10 | |
| With test socket | Beige | – | 8WA1011-1MH15 | – | |

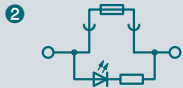
Special accessories

| Covers, for connection bars | | | | | | | | | | | | | |
|---------------------------------------|---|-----------------|---------------|---------------|---------------|---------------------------------------|---------------|----------------|---------|---------------|---------|-----------------------------|---------------|
| | <table border="1"> <thead> <tr> <th>Versions</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>Transparent</td> <td>8WA1822-7AX01</td> </tr> <tr> <td>White, facility for labeling</td> <td>8WA1822-7AX03</td> </tr> </tbody> </table> | Versions | Article No. | Transparent | 8WA1822-7AX01 | White, facility for labeling | 8WA1822-7AX03 | | | | | | |
| Versions | Article No. | | | | | | | | | | | | |
| Transparent | 8WA1822-7AX01 | | | | | | | | | | | | |
| White, facility for labeling | 8WA1822-7AX03 | | | | | | | | | | | | |
| Test sockets | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Diameter</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>4 mm</td> <td>8WA1822-7PH00</td> </tr> </tbody> </table> | Diameter | Article No. | 4 mm | 8WA1822-7PH00 | | | | | | | | |
| Diameter | Article No. | | | | | | | | | | | | |
| 4 mm | 8WA1822-7PH00 | | | | | | | | | | | | |
| Disconnecting links | | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> Rated insulation voltage with disconnecting link open according to DIN VDE 0110: 125 V, size C or 250 V size B <table border="1"> <thead> <tr> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>8WA1822-7VH01</td> </tr> </tbody> </table> | Article No. | 8WA1822-7VH01 | | | | | | | | | | |
| Article No. | | | | | | | | | | | | | |
| 8WA1822-7VH01 | | | | | | | | | | | | | |
| Insulation plate | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>8WA1825</td> </tr> </tbody> </table> | Article No. | 8WA1825 | | | | | | | | | | |
| Article No. | | | | | | | | | | | | | |
| 8WA1825 | | | | | | | | | | | | | |
| Connecting comb | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Number of poles</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>2-pole</td> <td>8WA1822-7VH22</td> </tr> <tr> <td>10-pole, can be shortened as required</td> <td>8WA7163</td> </tr> </tbody> </table> | Number of poles | Article No. | 2-pole | 8WA1822-7VH22 | 10-pole, can be shortened as required | 8WA7163 | | | | | | |
| Number of poles | Article No. | | | | | | | | | | | | |
| 2-pole | 8WA1822-7VH22 | | | | | | | | | | | | |
| 10-pole, can be shortened as required | 8WA7163 | | | | | | | | | | | | |
| Connection bars | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Versions</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td>Two terminals</td> <td>8WA1885</td> </tr> <tr> <td>Three terminals</td> <td>8WA1886</td> </tr> <tr> <td>Four terminals</td> <td>8WA1887</td> </tr> <tr> <td>Ten terminals</td> <td>8WA1888</td> </tr> <tr> <td>Unmounted for ten terminals</td> <td>8WA1822-7VH10</td> </tr> </tbody> </table> | Versions | Article No. | Two terminals | 8WA1885 | Three terminals | 8WA1886 | Four terminals | 8WA1887 | Ten terminals | 8WA1888 | Unmounted for ten terminals | 8WA1822-7VH10 |
| Versions | Article No. | | | | | | | | | | | | |
| Two terminals | 8WA1885 | | | | | | | | | | | | |
| Three terminals | 8WA1886 | | | | | | | | | | | | |
| Four terminals | 8WA1887 | | | | | | | | | | | | |
| Ten terminals | 8WA1888 | | | | | | | | | | | | |
| Unmounted for ten terminals | 8WA1822-7VH10 | | | | | | | | | | | | |
| Barriers | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Color</th> <th>Article No.</th> </tr> </thead> <tbody> <tr> <td> Gray</td> <td>8WA1822-7TH00</td> </tr> </tbody> </table> | Color | Article No. | Gray | 8WA1822-7TH00 | | | | | | | | |
| Color | Article No. | | | | | | | | | | | | |
| Gray | 8WA1822-7TH00 | | | | | | | | | | | | |

See general accessories, page 14/78 onwards

8WA1 screw terminals

Fuse terminals



| | Terminal size |
|--|------------------------------|
| | 1.5 mm ² |
| Terminal width | 10 mm |
| Rated uninterrupted current I _u when using fuses | 6.3 A |
| Rated uninterrupted current I _u when using the isolating link | 16 A |
| Rated insulation voltage U _i when using fuses | 250 V |
| Rated insulation voltage U _i when using the isolating link | 800 V |
| AWG | 18 ... 14 |
| AWG | 18 ... 14 |
| Connection capacity, rigid | 1 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.75 ... 1.5 mm ² |
| Tightening torque | 0.8 Nm |
| Standard | |



| Version | Color | |
|---|-------|---------------|
| For 5 × 25 mm G fuse links | | |
| ① Without LED | Beige | 8WA1011-1SF12 |
| ② With LED 24 V AC/DC | Beige | 8WA1011-1SF13 |
| ③ With LED 230 V AC/DC | Beige | 8WA1011-1SF15 |
| For 6.3 × 32 mm G fuse links (inch fuses) | | |
| ① Without LED | Beige | 8WA1011-1SF30 |
| ② With LED 24 V AC/DC | Beige | 8WA1011-1SF31 |
| ③ With LED 120 V AC/110 V DC | Beige | 8WA1011-1SF32 |

Special accessories


| 5 × 25 mm G fuse links | | | | |
|----------------------------|-----------|-------------------|-----------------------------|---------------|
| | Versions | Breaking capacity | Rated uninterrupted current | Article No. |
| | Quick | Large | 1 A | 8WA1822-7EF16 |
| | | | 1.6 A | 8WA1822-7EF18 |
| | | | 2.5 A | 8WA1822-7EF21 |
| | | | 4 A | 8WA1822-7EF23 |
| | | | 6.3 A | 8WA1822-7EF25 |
| | Slow | Small | 1 A | 8WA1822-7EF76 |
| | | | 1.6 A | 8WA1822-7EF78 |
| | | | 2.5 A | 8WA1822-7EF81 |
| | | | 4 A | 8WA1822-7EF83 |
| | | | 6.3 A | 8WA1822-7EF85 |
| Isolating links, 5 × 25 mm | | | | |
| | Size | | | Article No. |
| | 5 × 25 mm | | | 8WA1891 |

See general accessories, page 14/78 onwards

Terminals for self-fitting with components



| | Terminal size |
|---|------------------------------|
| | 1.5 mm ² |
| Terminal width | 10 mm |
| Rated uninterrupted current I _u | 6.3 A |
| Rated insulation voltage U _i | 500 V |
| Connection capacity, rigid | 1 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.75 ... 1.5 mm ² |
| Tightening torque | 0.8 Nm |



| Terminals | Color | Article No. |
|---|--------|---------------|
| Screw terminal at both ends for 2 conductors each | ● Gray | 8WA1011-1EE00 |

Special accessories

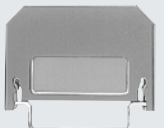
| Plugs for components | | |
|---|--|---------------|
| | Version | Article No. |
|  | With PCB and inscription label (20 × 9 mm) | 8WA1822-7EE00 |

See general accessories, page 14/78 onwards

Diode terminals



| | Terminal size |
|--|-----------------------------|
| | 2.5 mm ² |
| Terminal width | 6 mm |
| Rated uninterrupted current I _u | 1 A |
| Rated insulation voltage U _{RRM} | 250 V |
| Peak blocking voltage | 1000 V |
| Connection capacity, rigid | 0.5 ... 4 mm ² |
| Connection capacity, flexible without end sleeve | 0.5 ... 2.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.5 ... 1.5 mm ² |
| Tightening torque | 0.5 Nm |



| Terminals | Version | Color | Article No. |
|-----------|-------------------------------------|--------|---------------|
| 2 | With 2 holes for Ø 2.3 mm test plug | ● Gray | 8WA1011-1EF20 |

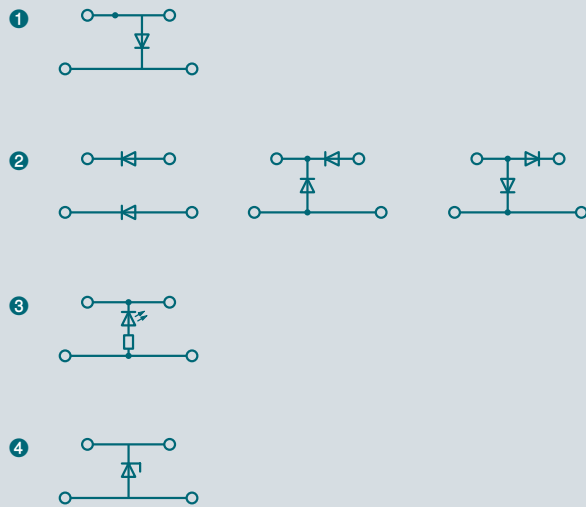
Special accessories

| Barriers | | |
|---|--------|-------------|
| | Color | Article No. |
|  | ● Gray | 8WA1820 |

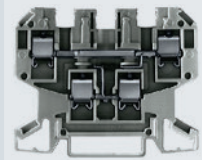
See general accessories, page 14/78 onwards

8WA1 screw terminals

Two-tier diode terminals



| | | |
|--|--|---------------------------|
| | Terminal size | 4 mm ² |
| | Terminal width | 6.5 mm |
| | Rated uninterrupted current I _u | 1 A |
| | Rated insulation voltage U _i | 250 V |
| | Let-through current | – |
| | Avalanche voltage U _z | – |
| | AWG | 18 ... 10 |
| | Connection capacity, rigid | 0.5 ... 6 mm ² |
| | Connection capacity, flexible without end sleeve | 0.5 ... 4 mm ² |
| | Connection capacity, flexible with end sleeve | 0.5 ... 4 mm ² |
| | Tightening torque | 0.5 Nm |
| | Standard | |



| Versions | Bridging | Color | |
|---|--------------|--------|---------------|
| 1 With one diode | | | |
| Let-through from top to bottom | Not possible | ● Gray | – |
| 2 With two diodes | | | |
| Let-through from top right to top left and from bottom right to bottom left | Not possible | ● Gray | 8WA1011-6EG22 |
| Let-through from top right to top left and from bottom to top | Not possible | ● Gray | – |
| Let-through from top left to top right and from top to bottom | Not possible | ● Gray | – |
| 3 With red LED | | | |
| Without diode for voltage limitation | | ● Gray | – |
| 4 With Zener diode | | | |
| Let-through from bottom to top | | ● Gray | – |

Special accessories

End plates

Color

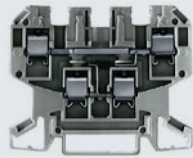
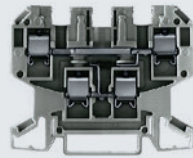
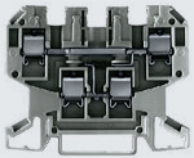
- Gray

Article No.

8WA1817

See general accessories, page 14/78 onwards

| | | |
|---------------------------|---------------------------|---------------------------|
| 6.5 mm | 6.5 mm | 6.5 mm |
| 32/1 A | 32 A | – |
| 250 V | 24 V DC | – |
| – | – | 0.25 A |
| – | – | 2.4 V, ± 5% |
| 18 ... 10 | 18 ... 10 | 18 ... 10 |
| 0.5 ... 6 mm ² | 0.5 ... 6 mm ² | 0.5 ... 6 mm ² |
| 0.5 ... 4 mm ² | 0.5 ... 4 mm ² | 0.5 ... 4 mm ² |
| 0.5 ... 4 mm ² | 0.5 ... 4 mm ² | 0.5 ... 4 mm ² |
| 0.5 Nm | 0.5 Nm | 0.5 Nm |

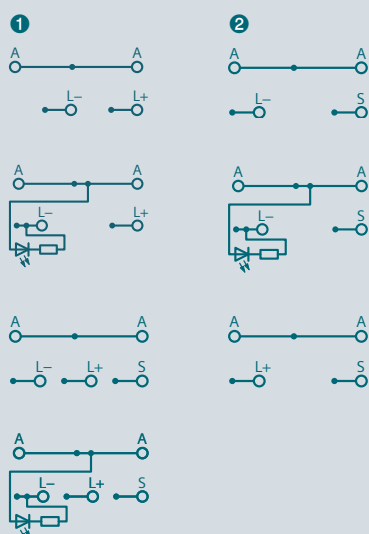


| | | |
|---------------|---------------|---------------|
| 8WA1011-6EG20 | – | – |
| – | – | – |
| 8WA1011-6EG23 | – | – |
| 8WA1011-6EG24 | – | – |
| – | 8WA1011-6EG25 | – |
| – | – | 8WA1011-6EG44 |

| Article No. | Article No. | Article No. |
|-------------|-------------|-------------|
| 8WA1817 | 8WA1817 | 8WA1817 |

8WA2 spring-loaded terminals

Initiator/actuator terminals



Terminal size

1.5 mm²

Terminal width 5 mm

Rated current I_n 10 ARated voltage U_e 65 V

Current consumption with LED 4.8 mA

AWG 22 ... 16

AWG 28 ... 16

Connection capacity, rigid 0.08 ... 1.5 mm²Connection capacity, flexible with end sleeve 0.2 ... 1.5 mm²

Standard



| Version | Conductors ¹⁾ | LED | Color | |
|-----------------------------|--------------------------|------------------------|--------------|---------------|
| 1 Initiator terminal | | | | |
| PNP | L+, L-, A | - | ● Light gray | 8WA2011-3KE10 |
| | | Yellow, 15 ... 30 V DC | ● Light gray | 8WA2011-3KE12 |
| | L+, L-, S, A | - | ● Light gray | 8WA2011-3KE11 |
| | | Yellow, 15 ... 30 V DC | ● Light gray | 8WA2011-3KE13 |
| 2 Actuator terminal | | | | |
| PNP | L-, S, A | - | ● Light gray | 8WA2011-3KE31 |
| | | Yellow, 15 ... 30 V DC | ● Light gray | 8WA2011-3KE33 |
| NPN | L+, S, A | - | ● Light gray | 8WA2011-3KE30 |

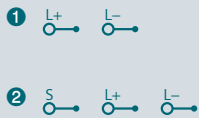
¹⁾ L+ = brown, L- = blue, S (shield) = green, A (output) not colored





Special accessories

| Connection module | | | | | |
|--|-------|--------|---------|---------------|--|
| Version | Width | Height | Color | Article No. | |
| For 8 initiator/actuator terminals and one feeder terminal | 47 mm | 65 mm | ● Black | 8WA2011-3KE50 | |
| For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further bridging for subsequent module | 93 mm | 65 mm | ● Black | 8WA2011-3KE51 | |






See general accessories, page 14/78 onwards

Feeder terminals for initiator/actuator terminals



| | |
|--|---|
| Terminal size | 1.5 mm ² |
| Terminal width | 5 mm |
| Rated current I_n | 10 A |
| Rated voltage U_e | 65 V |
| Current consumption with LED | 4.8 mA |
| AWG  | 22 ... 16 |
| AWG  | 28 ... 16 |
| Connection capacity, rigid | 0.08 ... 1.5 mm ² |
| Connection capacity, flexible with end sleeve | 0.2 ... 1.5 mm ² |
| Standard |   |



| Version | Conductors ¹⁾ | LED | Color | |
|------------------------|-------------------------------------|-----------------------|---|---------------|
| Feeder terminal | | | | |
| PNP | ① L+, L- | - |  Orange | 8WA2011-3KE01 |
| | ② L+, L-, S | - |  Orange | 8WA2011-3KE00 |
| | | Green, 15 ... 30 V DC |  Orange | 8WA2011-3KE02 |
| NPN | ② L+, L-, S | - |  Orange | 8WA2011-3KE00 |
| | ① L+, L-, without ground connection | - |  Orange | 8WA2011-3KE01 |

¹⁾ L+ = brown, L- = blue, S (shield) = green, A (output) connection not colored

Special accessories

| Connection module | | | | | |
|--|-------|--------|--|---------------|---|
| Version | Width | Height | Color | Article No. | |
| For 8 initiator/actuator terminals and one feeder terminal | 47 mm | 65 mm |  Black | 8WA2011-3KE50 |  |
| For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further bridging for subsequent module | 93 mm | 65 mm |  Black | 8WA2011-3KE51 | |

See general accessories, page 14/78 onwards

Accessories for 8WA terminal blocks

Individual labeling system

Labeling systems for

- Terminal blocks
- Modular installation devices
- Circuit breakers
- Switch disconnectors

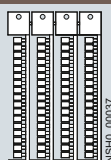
The inscription labels can be inscribed with Murrplastik labeling systems or by hand.

The WIN designation facilitates assignment in the inscription software.

Labeling systems available from:

Murrplastik Systemtechnik GmbH
Postfach 1143
D-71570 Oppenweiler
Telephone: 07191-482-0
email: info@murrplastik.de

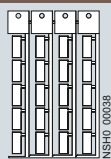
Blank labels



- For 8WA1 and 8WA2, individually removable
- Cannot be used for two-tier terminals (lower tier), 8WA1010-1PQ00 flat terminals and 8WA1808 end retainers

| Version | Designation | Color | Article No. |
|-----------|-------------|---------|-------------|
| 5 × 7 mm | WIN 68 | ● White | 8WA8850-2AY |
| 5 × 10 mm | WIN 68 | ● White | 8WA8851-2AY |

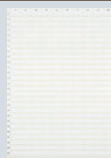
Snap-on device labels



- For identification of, e.g. circuit breakers, contactors and control systems

| Version | Designation | Color | Article No. |
|----------------------------------|-------------|-------------|---------------|
| 20 × 7 mm, snap-on hooks at side | WIN 95 | ● White | 8WH8210-0AA55 |
| | | ● Turquoise | 8WH8210-0AA56 |


Adhesive device labels

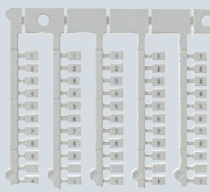
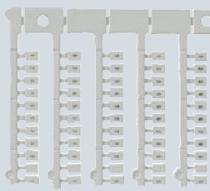


- For identification of, e.g. modular installation devices and switch disconnectors

| Versions | Designation | Color | Article No. |
|-----------|-------------|----------|---------------|
| 15 × 6 mm | WIN 098 | ● White | 8WH8210-0AA35 |
| | WIN 099 | ● Yellow | 8WH8210-0AA36 |
| 19 × 8 mm | WIN 088 | ● White | 8WH8210-0AA45 |
| | WIN 082 | ● Yellow | 8WH8210-0AA46 |

Standard labeling system

| Labels, blank (WIN 68) | | | |
|---|-------------------------|------------|-------------|
| | Text alignment | Label size | Article No. |
|  | Vertical | 5 × 7 mm | 8WA8348-2AY |
| | Horizontal and vertical | 5 × 10 mm | 8WA8310-2AY |

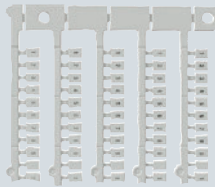
| Labels, with inscription | | | | |
|---|---|---|---|-------------|
| • Label size 5 × 7 mm, font height 2 mm | | | | |
| | Text alignment | Inscription | Scope of supply | Article No. |
|  | Horizontal | 1 ... 5 | 3 cards each with 13× (1 ... 5) + 1× (1 ... 3) | 8WA8360-OBA |
| | | 6 ... 10 | 3 cards each with 13× (6 ... 10) + 1× (6 ... 8) | 8WA8360-0BB |
| | | 11 ... 15 | 3 cards each with 13× (11 ... 15) + 1× (11 ... 13) | 8WA8360-0BC |
| | | 16 ... 20 | 3 cards each with 13× (16 ... 20) + 1× (16 ... 18) | 8WA8360-0BD |
| | | 21 ... 25 | 3 cards each with 13× (21 ... 25) + 1× (21 ... 23) | 8WA8360-0BE |
| | | 26 ... 30 | 3 cards each with 13× (26 ... 30) + 1× (26 ... 28) | 8WA8360-0BF |
| | | 31 ... 35 | 3 cards each with 13× (31 ... 35) + 1× (31 ... 33) | 8WA8360-0BG |
| | | 36 ... 40 | 3 cards each with 13× (36 ... 40) + 1× (36 ... 38) | 8WA8360-0BH |
| | | 41 ... 45 | 3 cards each with 13× (41 ... 45) + 1× (41 ... 43) | 8WA8360-0BJ |
| | | 46 ... 50 | 3 cards each with 13× (46 ... 50) + 1× (46 ... 48) | 8WA8360-0BK |
| | | 56 ... 60 | 3 cards each with 13× (56 ... 60) + 1× (56 ... 58) | 8WA8360-0BM |
| | | 61 ... 65 | 3 cards each with 13× (61 ... 65) + 1× (61 ... 63) | 8WA8360-0BN |
| | | 71 ... 75 | 3 cards each with 13× (71 ... 75) + 1× (71 ... 73) | 8WA8360-0BQ |
| | | 76 ... 80 | 3 cards each with 13× (76 ... 80) + 1× (76 ... 78) | 8WA8360-0BR |
| | | 81 ... 85 | 3 cards each with 13× (81 ... 85) + 1× (81 ... 83) | 8WA8360-0BS |
| | | 91 ... 95 | 3 cards each with 13× (91 ... 95) + 1× (91 ... 93) | 8WA8360-0BU |
| | | 96 ... 100 | 3 cards each with 13× (96 ... 100) + 1× (96 ... 98) | 8WA8360-0BV |
| | | 1 ... 20 | 3 cards each with 3× (1 ... 20) + 1× (1 ... 8) | 8WA8360-0AB |
| | | 1 ... 40 | 3 cards each with 1× (1 ... 40) + 1× (1 ... 28) | 8WA8360-0AC |
| | | 41 ... 100 | 3 cards each with 1× (41 ... 100) + 1× (41 ... 48) | 8WA8360-0AD |
| | | 1 ... 100 | 3 cards each with 2× (1 ... 100) + 1× (1 ... 4) | 8WA8360-0AE |
| | | 101 ... 200 | 3 cards each with 2× (101 ... 200) + 1× (101 ... 104) | 8WA8360-0AF |
| | | 201 ... 300 | 3 cards each with 2× (201 ... 300) + 1× (201 ... 204) | 8WA8360-0AG |
| | | A ... T | 3 cards each with 3× (A ... T) + 1× (A ... H) | 8WA8360-1AA |
| | | U, V, W, X, Y, Z, +, - | 3 cards each with 8× (U ... -) + 1× (U ... X) | 8WA8360-1AB |
| | | L1, L2, L3, N, PE | 3 cards each with 9× (L1 ... PE) + 1× (L1 ... L3) | 8WA8360-1AC |
| | | U1, V1, W1, U2, V2, W2 | 3 cards each with 11× (U1 ... W2) + 1× (U1, V1) | 8WA8360-1AD |
| | |  | Vertical | 1 ... 5 |
| 6 ... 10 | 3 cards each with 13× (6 ... 10) + 1× (6 ... 8) | | | 8WA8361-0BB |
| 11 ... 15 | 3 cards each with 13× (11 ... 15) + 1× (11 ... 13) | | | 8WA8361-0BC |
| 16 ... 20 | 3 cards each with 13× (16 ... 20) + 1× (16 ... 18) | | | 8WA8361-0BD |
| 21 ... 25 | 3 cards each with 13× (21 ... 25) + 1× (21 ... 23) | | | 8WA8361-0BE |
| 26 ... 30 | 3 cards each with 13× (26 ... 30) + 1× (26 ... 28) | | | 8WA8361-0BF |
| 31 ... 35 | 3 cards each with 13× (31 ... 35) + 1× (31 ... 33) | | | 8WA8361-0BG |
| 36 ... 40 | 3 cards each with 13× (36 ... 40) + 1× (36 ... 38) | | | 8WA8361-0BH |
| 41 ... 45 | 3 cards each with 13× (41 ... 45) + 1× (41 ... 43) | | | 8WA8361-0BJ |
| 46 ... 50 | 3 cards each with 13× (46 ... 50) + 1× (46 ... 48) | | | 8WA8361-0BK |
| 51 ... 55 | 3 cards each with 13× (51 ... 55) + 1× (51 ... 53) | | | 8WA8361-0BL |
| 56 ... 60 | 3 cards each with 13× (56 ... 60) + 1× (56 ... 58) | | | 8WA8361-0BM |
| 61 ... 65 | 3 cards each with 13× (61 ... 65) + 1× (61 ... 63) | | | 8WA8361-0BN |
| 66 ... 70 | 3 cards each with 13× (66 ... 70) + 1× (66 ... 68) | | | 8WA8361-0BP |
| 71 ... 75 | 3 cards each with 13× (71 ... 75) + 1× (71 ... 73) | | | 8WA8361-0BQ |
| 76 ... 80 | 3 cards each with 13× (76 ... 80) + 1× (76 ... 78) | | | 8WA8361-0BR |
| 81 ... 85 | 3 cards each with 13× (81 ... 85) + 1× (81 ... 83) | | | 8WA8361-0BS |
| 86 ... 90 | 3 cards each with 13× (86 ... 90) + 1× (86 ... 88) | | | 8WA8361-0BT |
| 91 ... 95 | 3 cards each with 13× (91 ... 95) + 1× (91 ... 93) | | | 8WA8361-0BU |
| 96 ... 100 | 3 cards each with 13× (96 ... 100) + 1× (96 ... 98) | | | 8WA8361-0BV |

Accessories for 8WA terminal blocks

Standard labeling system

Labels, with inscription (continued)

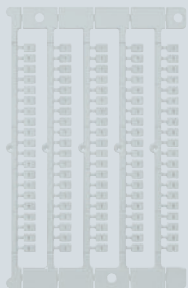
- Label size 5 × 7 mm, font height 2 mm



| Text alignment | Inscription | Scope of supply | Article No. |
|----------------|------------------------|---|-------------|
| Vertical | 1 ... 20 | 3 cards each with 3× (1 ... 20) + 1× (1 ... 8) | 8WA8361-0AB |
| | 1 ... 40 | 3 cards each with 1× (1 ... 40) + 1× (1 ... 28) | 8WA8361-0AC |
| | 41 ... 100 | 3 cards each with 1× (41 ... 100) + 1× (41 ... 48) | 8WA8361-0AD |
| | 1 ... 100 | 3 cards each with 2× (1 ... 100) + 1× (1 ... 4) | 8WA8361-0AE |
| | 101 ... 200 | 3 cards each with 2× (101 ... 200) + 1× (101 ... 104) | 8WA8361-0AF |
| | 201 ... 300 | 3 cards each with 2× (201 ... 300) + 1× (201 ... 204) | 8WA8361-0AG |
| | A ... T | 3 cards each with 3× (A ... T) + 1× (A ... H) | 8WA8361-1AA |
| | U, V, W, X, Y, Z, +, - | 3 cards each with 8× (U ... -) + 1× (U ... X) | 8WA8361-1AB |
| | L1, L2, L3, N, PE | 3 cards each with 9× (L1 ... PE) + 1× (L1 ... L3) | 8WA8361-1AC |
| | U1, V1, W1, U2, V2, W2 | 3 cards each with 11× (U1 ... W2) + 1× (U1, V1) | 8WA8361-1AD |

Labels, type 347/348, with inscription

- Label size 5 × 7 mm, font height 2 mm



| Text alignment | Inscription | Article No. |
|----------------|-------------|-------------|
| Horizontal | L1 | 8WA8347-2AC |
| | L2 | 8WA8347-2AD |
| | L3 | 8WA8347-2AE |
| | N | 8WA8347-1AR |
| | PE | 8WA8347-2AH |
| | L+ | 8WA8347-2AF |
| | L- | 8WA8347-2AG |
| | Vertical | L1 |
| L2 | | 8WA8348-2AD |
| L3 | | 8WA8348-2AE |
| N | | 8WA8348-1AR |
| MP | | 8WA8348-2AB |
| PE | | 8WA8348-2AH |
| L+ | | 8WA8348-2AF |
| L- | | 8WA8348-2AG |
| X | | 8WA8348-1AG |
| Y | | 8WA8348-1AH |

Labels, custom inscriptions

- Label size 5 × 7 mm, font height 2 mm
- Specify required inscription in plain text
- Can only be ordered with the order code -Z Y01

| Text alignment | Article No. |
|----------------|-------------------|
| Horizontal | 8WA8347-0XA-Z Y01 |
| Vertical | 8WA8348-0XA-Z Y01 |

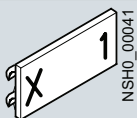
End labeling plates



- Paper label, inscription possible, with transparent cover
- Suitable for 8WA1805, 8WA1808 and 8WA2808 end retainers

| Text alignment | Label size | Article No. |
|-------------------------|------------|-------------|
| Horizontal and vertical | 21 × 42 mm | 8WA1806 |

Terminal strip labels



- Paper label, inscription possible, with transparent cover
- Suitable for 8WA1808 end retainers

| Text alignment | Versions | Article No. |
|----------------|------------------|---------------|
| Horizontal | With inscription | 8WA8826-0AA |
| | | 8WA8826-0AB |
| | | 8WA8826-0AC |
| | Blank (WIN 67) | 8WA8212-0AA65 |

Mounting accessories

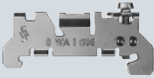
End retainers, with screw fixing



- Suitable for 8WA1806 end labeling plate or 8WA8826-0A. terminal strip identification label or 3TX4 210-0H device label or four 8WA88 labels

| Mounting width | Article No. |
|----------------|-------------|
| 10 mm | 8WA1808 |

End retainers, steel



- Suitable for 8WA1806 end label
- An 8WA1820 barrier must be inserted if using end retainers against an 8WA189 connection bar (size 2.5)

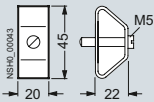
| Mounting width | Article No. |
|----------------|-------------|
| 10.3 mm | 8WA1805 |

Standard mounting rail



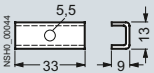
| Version | Material | Standard | Length | Thickness | Article No. |
|----------------|------------------------------|-----------------------------|--------|-----------|-------------|
| Perforated | Steel, sendzimir-galvanized | EN 50022-35 × 7.5 | 2 m | 1 mm | 5ST1145 |
| Non-perforated | Steel, sendzimir-galvanized | EN 50022-35 × 7.5 | 2 m | 1 mm | 5ST1141 |
| | Copper | EN 50022-35 × 15 | 2 m | 2.3 mm | 8WA7551 |
| | Steel, galvanized, chromated | Similar to EN 50022-35 × 15 | 2 m | 1.5 mm | 5ST1142 |

Spacer brackets



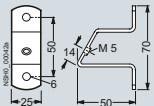
| Version | Article No. |
|--|-------------|
| For raised mounting of terminal strips | 8WA753 |

Spacers



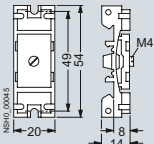
| Version | Drill hole | Article No. |
|--|------------|-------------|
| For raised mounting of terminal strips | 5.5 mm | 8WA752 |

Mounting brackets



| Version | Article No. |
|-------------------|-------------|
| For support rails | 8WA746 |

Insulation carriers



| Version | Article No. |
|---|-------------|
| For insulated mounting of support rails onto plates, frame profiles and standard mounting rails EN 50022-35 | 8WA1857 |

Reliable and efficient power supply in infrastructure and industrial applications

The electrical power distribution in buildings, infrastructure and industry is undergoing a transformation. A growing number of electrical loads, fluctuating load conditions and an increasing level of automation pose new challenges for switchboard manufacturers and electrical planners. Availability, safety and efficiency of the power distribution system are becoming more important. This is reflected in detailed standards and regulations and in requirements for company power management.

The planning and operation of electrical power distribution systems are becoming more complex, and the technical demands placed on the underlying systems and products are rising – in particular with respect to flexibility, communication capability and integrability. A data-based engineering process, hardware and software systems, an intelligent data management must all interact smoothly to provide optimum support to dynamic industrial and infrastructure processes.

The basis for a reliable and efficient power supply is provided by our portfolio of power distribution boards and distribution boards with innovative products and systems. A data-based engineering process with SIMARIS software tools, high availability of product-related data support the value chain of the switchboard manufacturer – from planning to documentation of the installation.



Power Distribution Boards, Motor Control Centers and Distribution Boards



| | |
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| Quick selection guide | 15/4 |
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| SIMARIS® planning tools | 15/12 |
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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

You will find information about power distribution boards, motor control centers and distribution boards on our websites

www.siemens.com/sivacon-S8

www.siemens.com/distributionsystems

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information – SIVACON S4 power distribution boards and ALPHA UNIVERSAL distribution boards ([109767882](tel:109767882))
- Technical basic information – ALPHA distribution systems ([109778911](tel:109778911))

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- Power Distribution – SIVACON (general) bit.ly/2m4oSLI
- Siemens SIVACON S4 power distribution boards up to 4000 A bit.ly/2kmi6h

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- SIVACON S4 power distribution boards sie.ag/2JUQwE4
- ALPHA distribution boards sie.ag/2kURLd8
- SIMARIS planning tools sie.ag/2m3oFbS

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.

www.siemens.com/product?Article No.

How you can get your SIVACON S8

Use the competence and experience of our experts at one of the production locations near to your

www.siemens.com/lowvoltage/contact

Our certified SIVACON Technology Partners are also available to you for questions relating to the high quality of our low-voltage switchboards

www.siemens.com/sivacon-partnerfinder

... can be found in our online services

Commissioning + operation

Planning tools

BIM-compliant SIMARIS planning tools

The SIMARIS planning tools effectively assist you in your planning process. Project-specific BIM (Building Information Modeling) data for cross-package planning is also possible.

www.siemens.com/simaris

Configuration software

SIMARIS configuration

SIMARIS configuration supports the engineering process of the SIVACON and ALPHA distribution systems from planning to documentation of the installation.

www.siemens.com/simarisconfig

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAX Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Planning manual – SIVACON S8 – Technical planning information (**107113936**)
- Manual – SIVACON S4 (**25909512**)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Training and tutorials

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- SIMARIS configuration (WT-LVASIMC)

Technical overview – Power distribution boards, motor control centers and distribution boards



The fast way to get you to our online services

This page provides you with comprehensive information and links on power distribution boards, motor control centers and distribution boards

www.siemens.com/lowvoltage/product-support (109769089)

SIVACON and ALPHA distribution systems

Power distribution boards



SIVACON S4

| Basic data | | |
|--|------------------------------|--------------------------------|
| Rated current | A | 4000 |
| Overtoltage category | | III/IV |
| Rated impulse withstand voltage U_{imp} | kV | 12 |
| Rated insulation voltage U_i | V | 1000 |
| Rated operational voltage U_e | V AC | 690 |
| Rated short-circuit current I_{pk} | kA | 220 |
| Rated short-time current I_{cw} (1 s) | kA | 100 |
| Degree of protection according to IEC 60529/EN 60529 | | IP40 + IPX1 / IP55 |
| Safety class | | I |
| Color | | RAL 7035 (light gray) |
| Dimensions | | |
| Height | mm | 2000 Base 100/200 |
| Width | mm | 350 ... 1200 |
| Depth | mm | 400/600/800 |
| Standards and specifications | | |
| DIN | | DIN EN 61439-1/-2 |
| IEC | | IEC 61439-1/2 |
| VDE | | VDE 0660-600-1/-2 |
| Operating personnel | Ordinary person | - |
| | Electrically skilled person | ■ |
| Approvals | | VDE, EAC |
| Equipment | | |
| Busbar position | | Top, bottom, rear |
| Form of internal separation | | 4b |
| Tested for resistance to internal arcing acc. to EN 61439-2 Supplement 1 | | - |
| Active protection against internal arcs | | - |
| Section for reactive power compensation | | - |
| Other | | |
| Type of installation | | Wall / back to back |
| Type of delivery | Flat pack / individual parts | ■ |
| | Pre-assembled without copper | ■ |
| | Pre-assembled with copper | ■ |
| More information | | |
| Catalog LV 10 | | See page 15/18 |

ALPHA UNIVERSAL distribution boards (NF technology)



| ALPHA 800 UNIVERSAL | ALPHA 630 UNIVERSAL | ALPHA 125 UNIVERSAL |
|------------------------|--|------------------------|
| 800 | 630 | 125 |
| III | III | III |
| 6 | 6 | 6 |
| 690 | 690 | 400 |
| 690 | 690 | 400 |
| 74 | 53 | 10 |
| 35 | 25 | 17 |
| IP30/IP43/IP55 | IP30/IP43/IP55 | IP30/IP31D/IP43 |
| I | I | I |
| RAL 7035 (light gray) | RAL 7035 (light gray) | RAL 7035 (light gray) |
| 1800/2000 | 400/600/800/1000/1200/ 1600/1800/2000 | 400/600/800/1000/1200 |
| 300/600/900 | 600 + 250/900 | 600 |
| 400 | 250 | 140 |
| DIN EN 61439-1/-2 | DIN EN 61439-1/-2 | DIN EN 61439-1/-3 |
| IEC 61439-1/2 | IEC 61439-1/2 | IEC 61439-1/3 |
| VDE 0660-600-1/-2 | VDE 0660-600-1/-2 | VDE 0660-600-1/-3 |
| – | – | – |
| ■ | ■ | ■ |
| VDE | VDE | VDE |
| – | – | – |
| 1 | 1 | 1 |
| – | – | – |
| – | – | – |
| – | – | – |
| – | – | – |
| – | ■ | – |
| – | – | – |
| – | – | – |
| – | – | – |
| See page 15/116 | See page 15/116 | See page 15/116 |

SIVACON and ALPHA distribution systems

Power distribution
boards and motor
control centers



SIVACON S8

Power distribution
boards



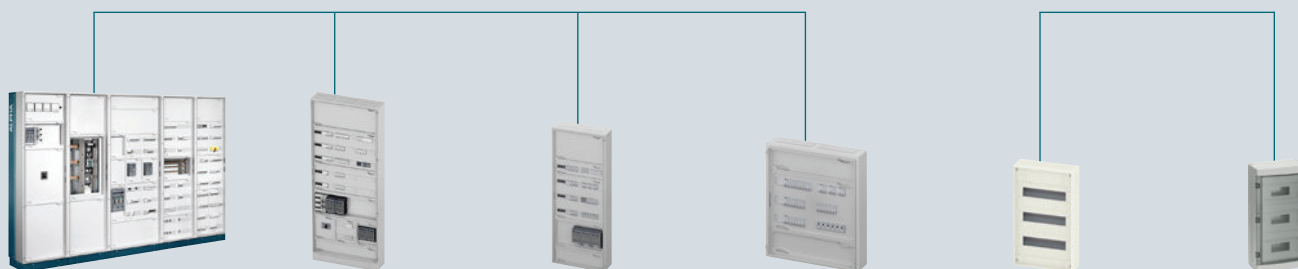
ALPHA 3200

ALPHA 3200 Eco
new

| Basic data | | | | |
|--|------------------------------|--|------------------------|------------------------|
| Rated current | A | 7010 | 3200 | 3200 |
| Overvoltage category | | IV | III/IV | III/IV |
| Rated impulse withstand voltage U_{imp} | kV | 8 | 8 | 8 |
| Rated insulation voltage U_i | V | 1000 | 1000 | 1000 |
| Rated operational voltage U_e | V AC | 690 | 690 | 400 |
| Rated short-circuit current I_{pk} | kA | 330 | 165 | 165 |
| Rated short-time current I_{cw} (1 s) | kA | 150 | 75 | 75 |
| Degree of protection according to IEC 60529/EN 60529 | | IP30 ... IP54 | IP40 + IPX1/IP54 | IP31/IP54 |
| Safety class | | I | I | I |
| Color | | RAL 7035 (light gray) | RAL 7035 (light gray) | RAL 7035 (light gray) |
| Dimensions | | | | |
| Height | mm | 2000 / 2200 Base 100 / 200 | 2000 Base 100 / 200 | 2000 Base 100 / 200 |
| Width | mm | 200 ... 1400 | 350 ... 1400 | 600 ... 1100 |
| Depth | mm | 500 ... 1200 | 600 | 400 |
| Standards and specifications | | | | |
| DIN | | DIN EN 61439-2 | DIN EN 61439-1/-2 | DIN EN 61439-1/-2 |
| IEC | | IEC 61439-2 | IEC 61439-1/2 | IEC 61439-1/2 |
| VDE | | VDE 0660-600-2 | VDE 0660-600-2 | VDE 0660-600-2 |
| Operating personnel | Ordinary person | – | – | – |
| | Electrically skilled person | ■ | ■ | ■ |
| Approvals | | DNV GL, ABS, LR, ASTA, EAC, CCC, DEKRA | – | – |
| Equipment | | | | |
| Busbar position | | Top, rear | Rear | Center |
| Form of internal separation | | 4b | 2b | 1 |
| Tested for resistance to internal arcing acc. to EN 61439-2 Supplement 1 | | ■ | 1 personal protection | – |
| Active protection against internal arcs | | ■ | – | – |
| Section for reactive power compensation | | ■ | ■ | – |
| Other | | | | |
| Type of installation | | Wall / back to back / double-fronted | Wall / back to back | Wall / back to back |
| Type of delivery | Flat pack / individual parts | ■ | – | – |
| | Pre-assembled without copper | ■ | ■ | ■ |
| | Pre-assembled with copper | ■ | ■ | ■ |
| More information | | | | |
| Catalog LV 10 | | see page 15/14 | see page 15/16 | see page 15/16 |

ALPHA distribution boards (DIN technology)

Small distribution boards



| ALPHA 1250 | ALPHA 630 | ALPHA 400 | ALPHA 160 | ALPHA SIMBOX XL | ALPHA SIMBOX WP |
|---------------------------|---------------------------|---|---|---|--------------------------------------|
| 1250 | 630 | 400 | 160 | 63 | 63 |
| III | III | III | II | II | II |
| 8 | 6 | 6 | 6 | – | – |
| 690 | 690 | 690 | 690 | – | 1000 |
| 690 | 690 | 690 | 690 | 400 | 400 |
| 110 | 76 | 76 | – | – | – |
| 35 | 34 | 34 | – | – | – |
| IP55 | IP43/IP55 | IP31/IP43/IP55 | IP31/IP43/IP44 | IP30 | IP65 |
| I | I/II | I/II | II | II | II |
| RAL 7035 (light gray) | RAL 7035 (light gray) | RAL 9016 (traffic white) / RAL 7035 (light gray) | RAL 9016 (traffic white) / RAL 7035 (light gray) | RAL 9010 (pure white) | RAL 7035 (light gray) |
| 1950 Base 100 | 1950 Base 100 | 650/800/950/1100/ 1250/1400 | 500/650/800/950/1100 | 1- ... 4-tier | 1- ... 4-tier |
| 300/550/800/ 1050/1300 | 300/550/800/ 1050/1300 | 300/550/800/ 1050/1300 | 300/550 | 305 | 4 ... 18 MW |
| 400 | 210/250/320 | 210 | 140 | 88/99 | 100/140/160 |
| DIN EN 61439-1/-2 | DIN EN 61439-1/-2 | DIN EN 61439-1/-2/-3 | DIN EN 61439-1/-3 | DIN 43871 | DIN EN 61439-1/-3, DIN 43871 |
| IEC 61439-1/-2 | IEC 61439-1/-2 | IEC 61439-1/-2/-3 | IEC 61439-1/-3 | IEC 61439-1/-3 | IEC 61439-1/-3 |
| VDE 0660-600-1/-2 | VDE 0660-600-1/-2 | VDE 0660-600-1/-2/-3 | VDE 0660-600-1/-3 | DIN VDE 0603 | DIN VDE 0603-1, VDE 0660-500/-504 |
| – | – | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ |
| VDE | VDE | VDE | VDE | VDE | VDE |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| – | – | – | – | – | – |
| Surface mounting | Surface mounting | Surface mounting / flush mounting | Surface mounting / flush mounting | Surface mounting / hollow wall / flush mounting | Surface mounting |
| ■ | ■ | ■ | ■ | ■ | ■ |
| ■ | ■ | ■ | ■ | – | – |
| – | – | – | – | – | – |
| see page 15/146 | see page 15/150 | see page 15/154 | see page 15/157 | see page 15/188 | see page 15/191 |

SIVACON and ALPHA distribution systems













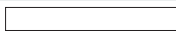



Additional options

To specify the options, add „-Z“ to the complete Article No. and indicate the appropriate order code(s).

8GK.....-.....-.... -Z

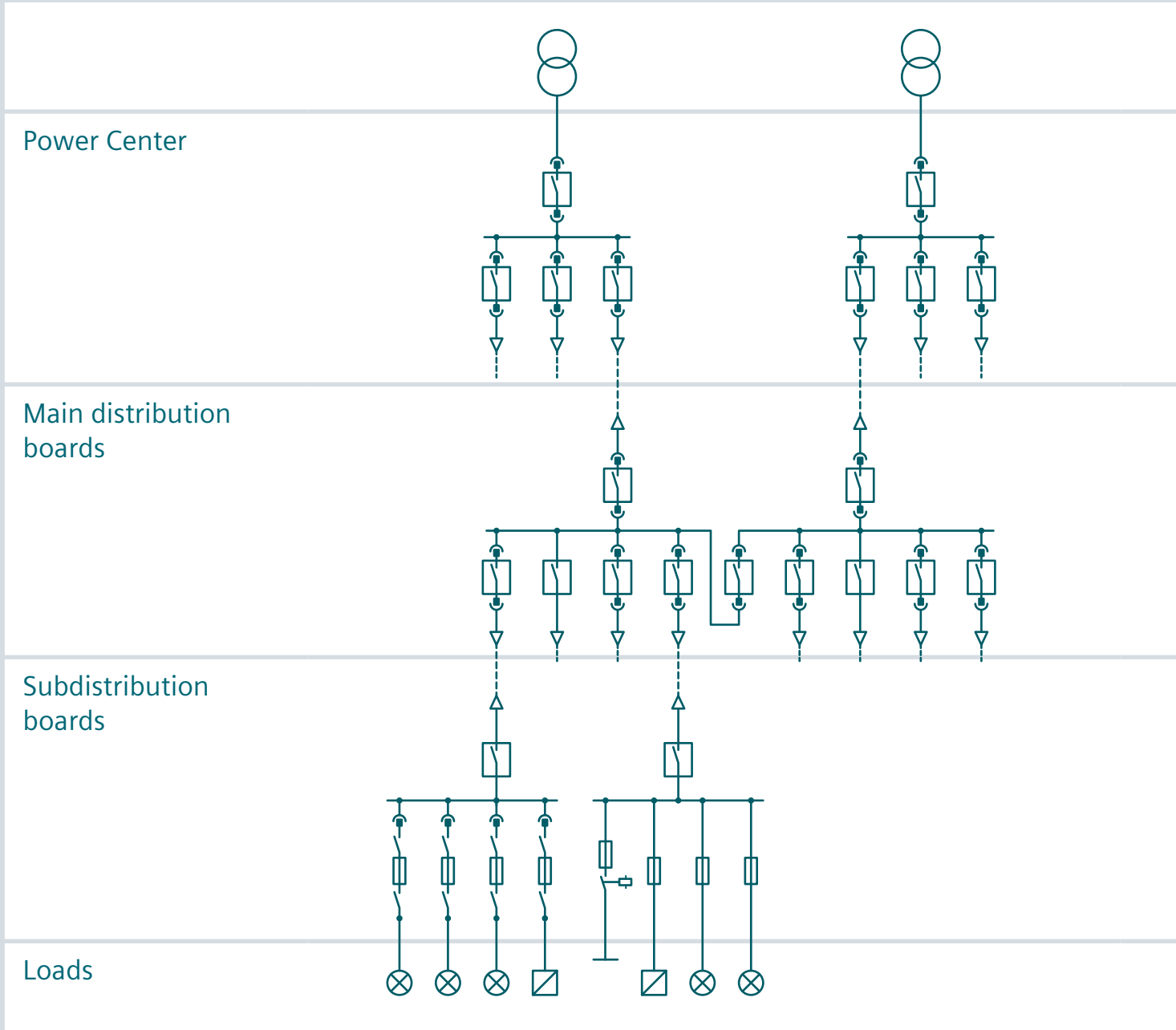
Order code

Special colors for ALPHA

|  | RAL 1003, signal yellow | Semi-gloss | Smooth | C | 2 | 7 |
|---|-------------------------|-------------|-------------------|---|---|---|
|  | RAL 2000, yellow orange | Semi-gloss | Smooth | C | 2 | 5 |
|  | RAL 3000, flame red | Silky gloss | Surface structure | C | 3 | 1 |
|  | RAL 5005, signal blue | Semi-gloss | Smooth | C | 2 | 3 |
|  | RAL 5010, gentian blue | Semi-gloss | Smooth | C | 2 | 4 |
|  | RAL 5017, traffic blue | Silky gloss | Surface structure | C | 2 | 2 |
|  | RAL 6018, yellow green | Semi-gloss | Smooth | C | 2 | 6 |
|  | RAL 7032, pebble gray | Semi-gloss | Surface structure | C | 1 | 3 |
|  | RAL 7033, cement gray | Semi-gloss | Surface structure | C | 2 | 8 |
|  | RAL 7035, light gray | Semi-gloss | Smooth | C | 1 | 1 |
| | | | Surface structure | C | 1 | 2 |
|  | RAL 7038, agate gray | Semi-gloss | Surface structure | C | 1 | 4 |
|  | RAL 9001, cream | Semi-gloss | Smooth | C | 2 | 1 |
|  | RAL 9002, gray white | Semi-gloss | Smooth | C | 1 | 8 |
| | | | Surface structure | C | 1 | 9 |
| | | Silky gloss | Smooth | C | 2 | 9 |
|  | RAL 9003, signal white | Semi-gloss | Surface structure | C | 2 | 0 |
|  | RAL 9005, jet black | Semi-gloss | Smooth | C | 1 | 6 |
| | | | Surface structure | C | 1 | 7 |
|  | RAL 9010, pure white | Semi-gloss | Smooth | C | 1 | 5 |
| | | | Surface structure | C | 3 | 0 |
|  | RAL 9016, traffic white | Semi-gloss | Smooth | C | 1 | 0 |

SIVACON and ALPHA distribution systems

Applications



SIVACON S8



SIVACON S8



SIVACON S4



ALPHA 3200



ALPHA 3200 Eco



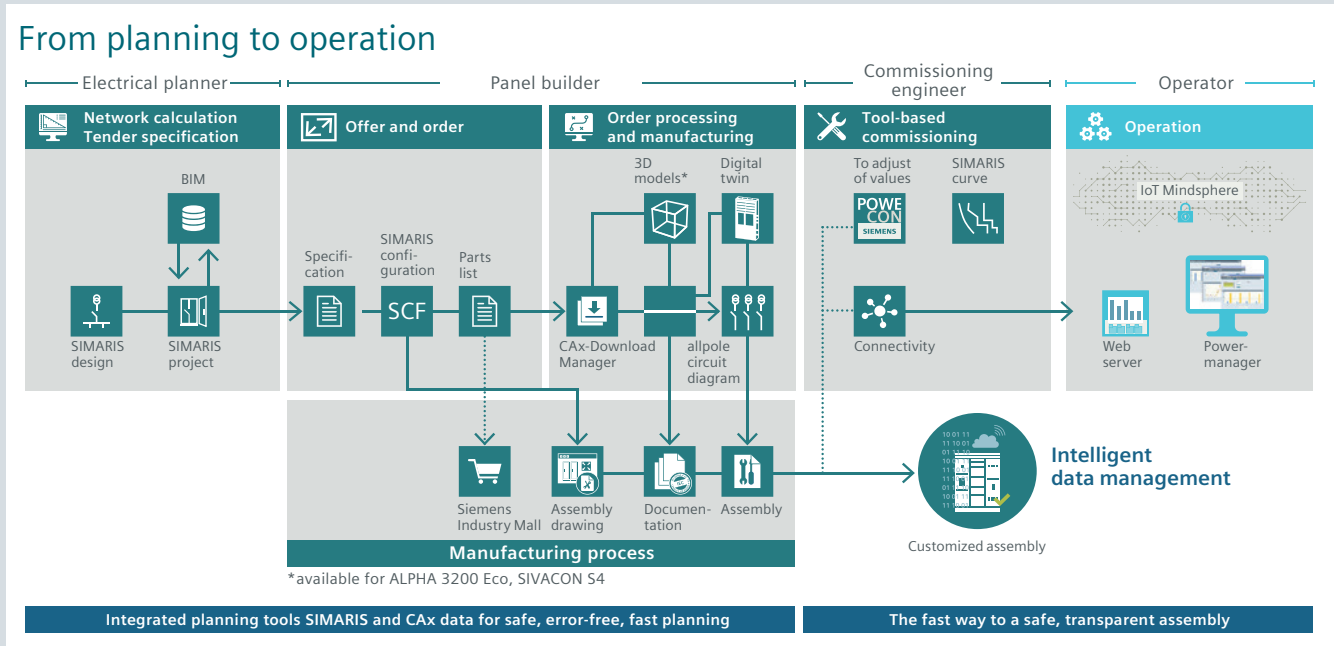
ALPHA UNIVERSAL (NF technology)

ALPHA (DIN technology)



SIMARIS® planning tools

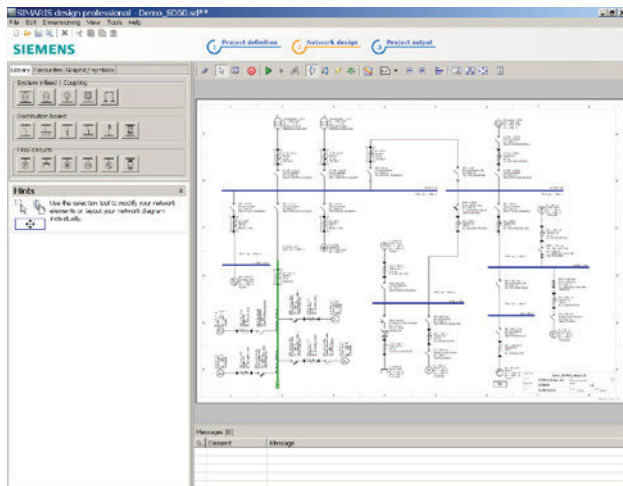
For planning and visualizing the power distribution system



Integrated planning tools SIMARIS and CAX data for safe, error-free, fast planning

The fast way to a safe, transparent assembly

SIMARIS® design

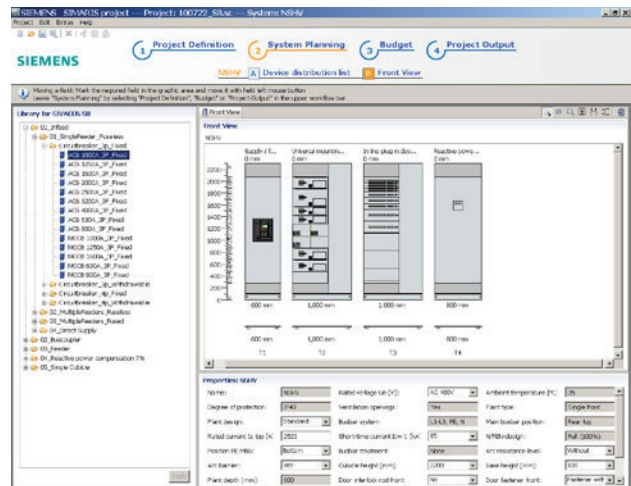


SIMARIS® design is a planning tool for quick, effective network calculations and dimensioning of electrical power distribution systems for non-residential and industrial buildings.

- Dimensioning of electrical networks on the basis of real products according to acknowledged rules of technology and the applicable standards (VDE, IEC)
- Automatic selection of the appropriate components from the integrated product database

Free download of the basic version and further information at: www.siemens.com/simarisdesign

SIMARIS® project

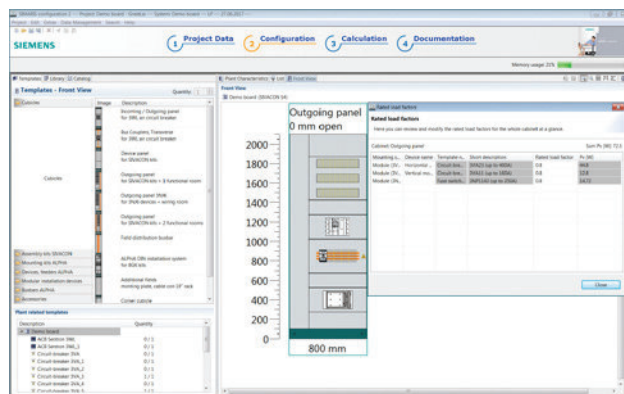


SIMARIS® project is a planning tool for fast calculation of space requirements and electrical power distribution system budgets for non-residential and industrial buildings, and for generating specifications automatically.

- Import of projects created in SIMARIS® design
- Export of 3D data in IFC 4.x format for BIM (Building Information Modeling)

Free download and further information at: www.siemens.com/simariproject

SIMARIS® configuration

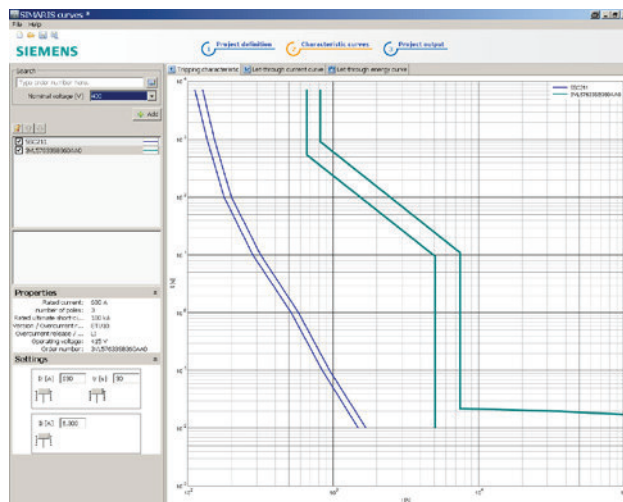


With the configuration software SIMARIS® configuration, the SIVACON S8, ALPHA 3200, SIVACON S4 and ALPHA UNIVERSAL power distribution boards as well as the ALPHA distribution boards can be quickly and reliably configured.

- Comprehensive documentation of the installation with design verification acc. to IEC 61439
- Configuration of the devices from the SENTRON portfolio with the exact article numbers and integrated price calculation feature

Free download and further information at:
www.siemens.com/simarisconfig

SIMARIS® curves



SIMARIS® curves is a planning tool for visualizing and evaluating characteristic curves of Siemens low-voltage protection equipment and fuses (IEC) quickly and easily, including the possibility of simulating instrument settings.

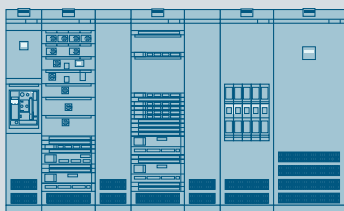
- Is available both as a PC version and also as an app for use on a tablet PC or a smartphone

Free download and further information at:
www.siemens.com/simariscures

SIVACON S8 / SIVACON S4 / ALPHA 3200 / ALPHA 3200 Eco system overview

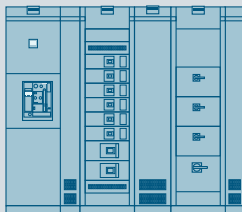
Section design and installable devices

SIVACON S8



| | Circuit breaker design | Fixed-mounted design | In-line design, plugged in |
|----------------------------|---|---------------------------------|----------------------------|
| Devices | 3WL and 3VA | 3VA, 3RV, 3NP, 3K... and 5S... | 3NJ6 |
| Installation system | Fixed-mounted Withdrawable | Fixed-mounted with front covers | Plug-in |
| Functions | Infeed, Outgoing feeder, Coupling | Outgoing cable feeders | Outgoing cable feeders |
| Rated values | 6300 A | 630 A | 630 A |
| Connection type | Front or rear | Front | Front |

SIVACON S4



| | Circuit breaker design | Fixed-mounted design | In-line design, plugged in |
|----------------------------|--|---|----------------------------|
| Devices | 3WL | 3WL, 3VA, 3NP1, Modular installation devices | 3NJ6 |
| Installation system | Fixed-mounted Withdrawable | Fixed-mounted with front covers | Plug-in |
| Functions | Infeed, Outgoing feeder, Coupling (up to 3200 A) | Infeed Outgoing cable feeders | Outgoing cable feeders |
| Rated values | 4000 A | 2950 A | 630 A |
| Connection type | Front or rear | Front or rear | Front |



| In-line design, fixed-mounted | Reactive power compensation | Active protection against internal arcs | Universal mounting design / motor control center | Frequency converter technology |
|-------------------------------|---|---|---|--------------------------------|
| 3NJ4 | Capacitor units, controllers | Internal arc protection system | 3VA, 3RV, 3NP, 3K..., 3R..., 3UF, 3NJ6 and 3LD | SINAMICS G120 (6SL) |
| Fixed-mounted | Fixed-mounted | Fixed-mounted | Withdrawable Fixed-mounted with modular doors Plug-in | Fixed-mounted (modules) |
| Outgoing cable feeders | Central compensation of reactive power | Active protection against internal arcs | Outgoing cable feeders Motor feeders (MCC) | Motor feeders (MCC) |
| 630 A | Without inductor up to 600 kvar With inductor up to 500 kvar | Short-circuit-proof up to 100 kA at 690 V | 630 A, 250 kW | 132 kW |
| Front | Front | – | Front or rear | Front |

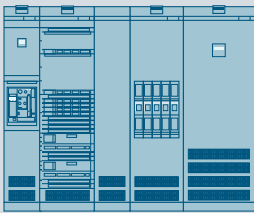


| In-line design, fixed-mounted | ALPHA DIN modular installation system | Section for free configuration |
|-------------------------------|---------------------------------------|--------------------------------|
| 3NJ4 | ALPHA 8GK | Mounting panel structures |
| Fixed-mounted | Fixed-mounted | Fixed-mounted |
| Outgoing cable feeders | Branch circuits | Control equipment |
| 2900 A | – | – |
| Front | Front | Front |

SIVACON S8 / SIVACON S4 / ALPHA 3200 / ALPHA 3200 Eco system overview

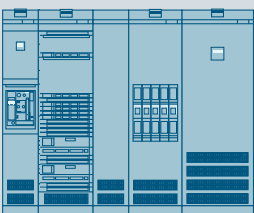
Section design and installable devices

ALPHA 3200

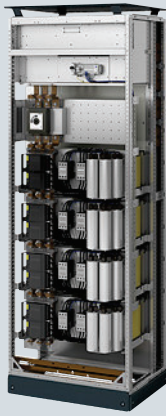
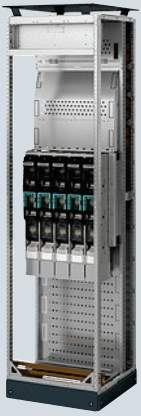


| | Circuit breaker design | Fixed-mounted design | In-line design, plugged in |
|----------------------------|---|---------------------------------|----------------------------|
| Devices | 3WL and 3VA | 3VA, 3RV, 3NP, 3K.. | 3NJ6 |
| Installation system | Fixed-mounted Withdrawable | Fixed-mounted with front covers | Plug-in |
| Functions | Infeed, Outgoing feeder, Coupling | Outgoing cable feeders | Outgoing cable feeders |
| Rated values | Up to 3200 A | Up to 630 A | Up to 630 A |
| Connection type | Front or rear | Front | Front |

ALPHA 3200 Eco new



| | Circuit breaker design | In-line design, fixed-mounted | ALPHA DIN modular installation system |
|----------------------------|-------------------------------|-------------------------------|---------------------------------------|
| Devices | 3WL10 | 3NJ4 | ALPHA 8GK |
| Installation system | Fixed-mounted Withdrawable | Fixed-mounted | Fixed-mounted |
| Functions | Infeed, Outgoing feeder, | Outgoing cable feeders | Branch circuits |
| Rated values | 1250 A | 1250 A | 1250 A |
| Connection type | Front | Front | Front |



| | |
|--------------------------------------|---|
| In-line design, fixed-mounted | Reactive power compensation |
| 3NJ4 | Capacitor units, controllers |
| Fixed-mounted | Fixed-mounted |
| Outgoing cable feeders | Central compensation of reactive power |
| Up to 630 A | Without inductor up to 600 kvar With inductor up to 500 kvar |
| Front | Front |



| |
|---------------------------------------|
| Section for free configuration |
| Mounting panel structures |
| Fixed-mounted |
| Control equipment |
| 1250 A |
| Front |

System overview

SIVACON S4 power distribution boards

Frame and enclosure



Accessories for frame and enclosure



Hinges for covers

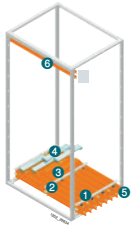


Locks

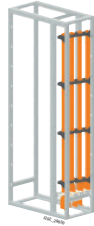


Mech. mounting parts

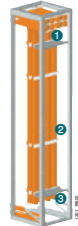
Busbar systems



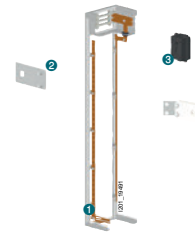
Main busbars



Vertical distribution busbars, cascaded



Vertical distribution busbars, non-cascaded



N/PE bar

Note:

You will find a detailed range of accessories with the basic units.

Section expansion



3WL incoming feeder panels



3VA outgoing feeder panels
3NP1 modular installation devices



3NJ4 outgoing feeder panels



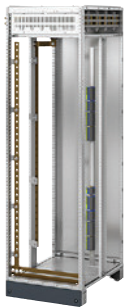
3NJ6 outgoing feeder panels



3WL coupling panels



Mounting plates



Cable section



Corner sections

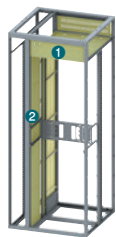


ALPHA 8GK DIN section

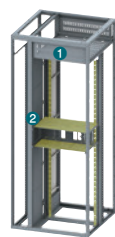
Internal separation



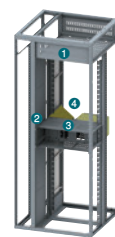
Form 1
Without separation



Form 2
Separation
+ busbar systems



Form 3
Separation
+ busbar systems
+ device compartments



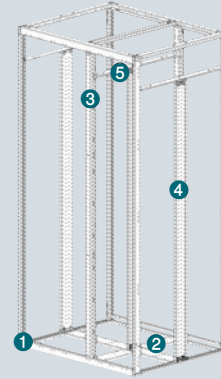
Form 4
Separation
+ busbar systems
+ device compartments
+ connections

Note:

You will find a detailed range of accessories with the basic units.

Frame

Main busbar at top



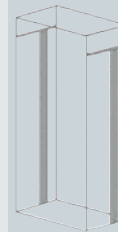
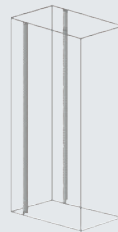
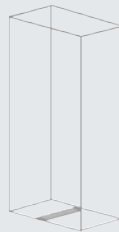
- ❶ Frame
- ❷ Bottom plate partition crossbar
- ❸ Exterior intermediate upright
- ❹ Interior side upright
- ❺ Section division

Main busbar at top

Main busbar at bottom

Main busbar at rear

Frame without main busbar



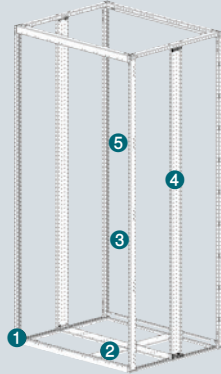
| Width | Depth | ❶ Frame | ❷ Bottom plate partition crossbar | ❸ Exterior intermediate upright | ❹ Interior side upright | ❺ Section division |
|---------|--------|---------------|-----------------------------------|---------------------------------|-------------------------|--------------------|
| 400 mm | 400 mm | 8PQ1204-4BA01 | 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA65 | 8PQ3000-1BA31 |
| | 600 mm | 8PQ1204-6BA01 | 8PQ3000-1BA40 | 8PQ3000-1BA43 | 8PQ3000-0BA01 | 8PQ3000-1BA32 |
| | 800 mm | 8PQ1204-8BA01 | 2x 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA02 | 8PQ3000-1BA34 |
| 600 mm | 400 mm | 8PQ1206-4BA01 | 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA65 | 8PQ3000-1BA31 |
| | 600 mm | 8PQ1206-6BA01 | 8PQ3000-1BA40 | 8PQ3000-1BA43 | 8PQ3000-0BA01 | 8PQ3000-1BA32 |
| | 800 mm | 8PQ1206-8BA01 | 2x 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA02 | 8PQ3000-1BA34 |
| 800 mm | 400 mm | 8PQ1208-4BA01 | 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA65 | 8PQ3000-1BA31 |
| | 600 mm | 8PQ1208-6BA01 | 8PQ3000-1BA40 | 8PQ3000-1BA43 | 8PQ3000-0BA01 | 8PQ3000-1BA32 |
| | 800 mm | 8PQ1208-8BA01 | 2x 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA02 | 8PQ3000-1BA34 |
| 1000 mm | 400 mm | 8PQ1201-4BA02 | 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA65 | 8PQ3000-1BA31 |
| | 600 mm | 8PQ1201-6BA02 | 8PQ3000-1BA40 | 8PQ3000-1BA43 | 8PQ3000-0BA01 | 8PQ3000-1BA32 |
| | 800 mm | 8PQ1201-8BA03 | 2x 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA02 | 8PQ3000-1BA34 |
| 1200 mm | 400 mm | 8PQ1202-4BA02 | 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA65 | 8PQ3000-1BA31 |
| | 600 mm | 8PQ1202-6BA02 | 8PQ3000-1BA40 | 8PQ3000-1BA43 | 8PQ3000-0BA01 | 8PQ3000-1BA32 |
| | 800 mm | 8PQ1202-8BA02 | 2x 8PQ3000-1BA38 | 8PQ3000-1BA43 | 8PQ3000-0BA02 | 8PQ3000-1BA34 |

Main busbar at bottom



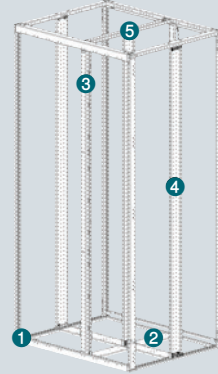
- 1 Frame
-
- 3 Exterior intermediate upright
- 4 Interior side upright
- 5 Section division

Main busbar at rear

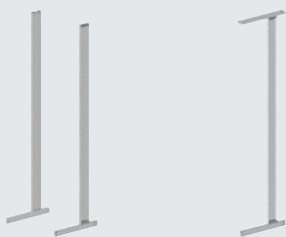


- 1 Frame
- 2 Bottom plate partition crossbar
- 3 Exterior intermediate upright
- 4 Interior side upright
- 5 Section division

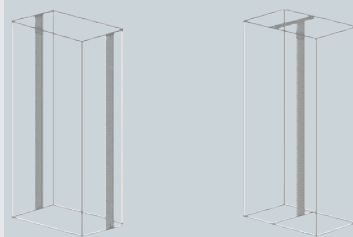
Frame without main busbar



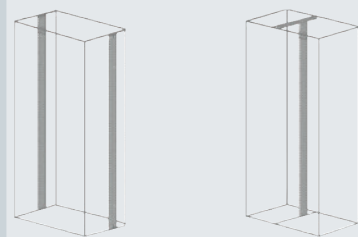
- 1 Frame
- 2 Bottom plate partition crossbar
- 3 Exterior intermediate upright
- 4 Interior side upright
- 5 Section division



4 Interior side upright 5 Section division



4 Interior side upright 5 Section division



4 Interior side upright 5 Section division

| 4 Interior side upright | 5 Section division | 4 Interior side upright | 5 Section division | 4 Interior side upright | 5 Section division |
|-------------------------|--------------------|-------------------------|--------------------|-------------------------|--------------------|
| 8PQ3000-0BA10 | 8PQ3000-0BA10 | – | – | – | – |
| 8PQ3000-3BA10 | 8PQ3000-3BA47 | – | – | 8PQ3000-0BA03 | 8PQ3000-1BA36 |
| 8PQ3000-3BA11 | 8PQ3000-3BA48 | 8PQ3000-0BA03 | 8PQ3000-1BA37 | 8PQ3000-0BA03 | 8PQ3000-1BA37 |
| 8PQ3000-0BA10 | 8PQ3000-0BA10 | – | – | – | – |
| 8PQ3000-3BA10 | 8PQ3000-3BA47 | – | – | 8PQ3000-0BA03 | 8PQ3000-1BA36 |
| 8PQ3000-3BA11 | 8PQ3000-3BA48 | 8PQ3000-0BA03 | 8PQ3000-1BA37 | 8PQ3000-0BA03 | 8PQ3000-1BA37 |
| 8PQ3000-0BA10 | 8PQ3000-0BA10 | – | – | – | – |
| 8PQ3000-3BA10 | 8PQ3000-3BA47 | – | – | 8PQ3000-0BA03 | 8PQ3000-1BA36 |
| 8PQ3000-3BA11 | 8PQ3000-3BA48 | 8PQ3000-0BA03 | 8PQ3000-1BA37 | 8PQ3000-0BA03 | 8PQ3000-1BA37 |
| 8PQ3000-0BA10 | 8PQ3000-0BA10 | – | – | – | – |
| 8PQ3000-3BA10 | 8PQ3000-3BA47 | – | – | 8PQ3000-0BA03 | 8PQ3000-1BA36 |
| 8PQ3000-3BA11 | 8PQ3000-3BA48 | 8PQ3000-0BA03 | 8PQ3000-1BA37 | 8PQ3000-0BA03 | 8PQ3000-1BA37 |
| 8PQ3000-0BA10 | 8PQ3000-0BA10 | – | – | – | – |
| 8PQ3000-3BA10 | 8PQ3000-3BA47 | – | – | 8PQ3000-0BA03 | 8PQ3000-1BA36 |
| 8PQ3000-3BA11 | 8PQ3000-3BA48 | 8PQ3000-0BA03 | 8PQ3000-1BA37 | 8PQ3000-0BA03 | 8PQ3000-1BA37 |

Frame

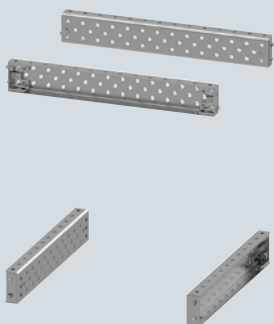
Accessories

Frame reinforcement



| Use | Scope of supply | Article No. |
|-------------------------------|-----------------|---------------|
| For frame widths from 1000 mm | 2 units | 8PQ9400-0BA35 |

Crossbars



| Version | Width | Crossbar length | Scope of supply | Article No. |
|------------------|---------|-----------------|-----------------|---------------|
| - | 400 mm | 350 mm | 2 units | 8PQ3000-0BA12 |
| | 600 mm | 550 mm | 2 units | 8PQ3000-0BA71 |
| | 800 mm | 750 mm | 2 units | 8PQ3000-0BA72 |
| | 1000 mm | 950 mm | 2 units | 8PQ3000-0BA84 |
| | 1200 mm | 1150 mm | 2 units | 8PQ3000-0BA85 |
| Version | Depth | Crossbar length | Scope of supply | Article No. |
| Without uprights | 400 mm | 300 mm | 2 units | 8PQ3000-0BA10 |
| | 600 mm | 500 mm | 2 units | 8PQ3000-1BA24 |
| | 800 mm | 700 mm | 2 units | 8PQ3000-1BA25 |
| With uprights | 600 mm | 300 mm | 2 units | 8PQ3000-0BA10 |
| | 800 mm | 300 mm | 2 units | 8PQ3000-0BA10 |

Universal brackets



| Version | Scope of supply | Article No. |
|---------------------------------|-----------------|-------------|
| For mounting expansion elements | 1 unit | 8MF1000-2CP |

Forming rows of frames



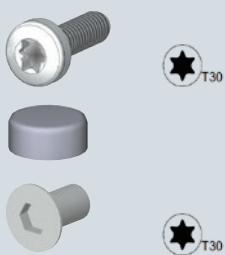
| Version | Scope of supply | Article No. |
|---|-----------------|---------------|
| Mechanical connection, incl. standard parts | 6 units | 8PQ1204-4BA05 |

Board coupling gasket kits



| Version | Scope of supply | Article No. |
|---------------------------------------|-----------------|---------------|
| To maintain degree of protection IP55 | 5.5 m | 8PQ1204-4BA04 |

Self-tapping screws



| Version | Version | Scope of supply | Article No. |
|----------------------|--------------|-----------------|---------------|
| Cylinder-head screws | M6 × 10 mm | 100 units | 8PQ9500-0BA34 |
| | M6 × 16 mm | 100 units | 8PQ9500-0BA32 |
| | M6 × 20 mm | 100 units | 8PQ9500-0BA31 |
| Covering caps | M6, RAL 7035 | 100 units | 8PQ9400-0BA14 |
| Countersunk screws | M6 × 12 mm | 100 units | 8PQ9500-1BA07 |

Enclosure

Paneling sections

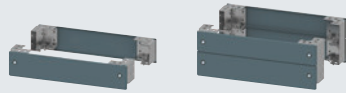


Main busbar at top

Main busbar at bottom

1 Bases

Corners with front cover



Side covers



2 Bottom plates



| Width | Depth | 1 Bases | | 2 Bottom plates | | | IP20 |
|---------|--------|---------------|---------------|-----------------|------------------|------------------|---------------|
| | | Height 100 mm | 200 mm | Height 100 mm | IP40 cable entry | IP55 | |
| 200 mm | 400 mm | – | – | – | – | 8PQ2302-4BA04 | – |
| | 600 mm | – | – | – | – | 8PQ2302-6BA04 | – |
| | 800 mm | – | – | – | – | 2x 8PQ2302-4BA04 | – |
| 400 mm | 400 mm | 8PQ1014-0BA01 | 8PQ1024-0BA01 | 8PQ1010-4BA01 | 8PQ2304-4BA06 | 8PQ2304-4BA05 | 8PQ2304-4BA14 |
| | 600 mm | 8PQ1014-0BA01 | 8PQ1024-0BA01 | 8PQ1010-6BA01 | 8PQ2306-4BA06 | 8PQ2306-4BA05 | 8PQ2304-6BA11 |
| | 800 mm | 8PQ1014-0BA01 | 8PQ1024-0BA01 | 8PQ1010-8BA01 | 2x 8PQ2304-4BA06 | 2x 8PQ2304-4BA05 | 8PQ2304-8BA05 |
| 600 mm | 400 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-4BA01 | 8PQ2306-4BA06 | 8PQ2306-4BA05 | 8PQ2306-4BA10 |
| | 600 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-6BA01 | 8PQ2306-6BA06 | 8PQ2306-6BA05 | 8PQ2306-6BA16 |
| | 800 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-8BA01 | 2x 8PQ2306-4BA06 | 2x 8PQ2306-4BA05 | 8PQ2306-8BA05 |
| 800 mm | 400 mm | 8PQ1018-0BA01 | 8PQ1028-0BA01 | 8PQ1010-4BA01 | 8PQ2308-4BA06 | 8PQ2308-4BA05 | 8PQ2308-4BA13 |
| | 600 mm | 8PQ1018-0BA01 | 8PQ1028-0BA01 | 8PQ1010-6BA01 | 8PQ2308-6BA06 | 8PQ2308-6BA05 | 8PQ2308-6BA13 |
| | 800 mm | 8PQ1018-0BA01 | 8PQ1028-0BA01 | 8PQ1010-8BA01 | 2x 8PQ2308-4BA06 | 2x 8PQ2308-4BA05 | 8PQ2308-8BA10 |
| 1000 mm | 400 mm | 8PQ1011-0BA01 | 8PQ1021-0BA01 | 8PQ1010-4BA01 | – | 8PQ2301-4BA04 | 8PQ2301-4BA06 |
| | 600 mm | 8PQ1011-0BA01 | 8PQ1021-0BA01 | 8PQ1010-6BA01 | – | – | 8PQ2301-6BA05 |
| | 800 mm | 8PQ1011-0BA01 | 8PQ1021-0BA01 | 8PQ1010-8BA01 | – | 2x 8PQ2301-4BA04 | 8PQ2301-8BA04 |
| 1200 mm | 400 mm | 8PQ1012-0BA01 | 8PQ1022-0BA01 | 8PQ1010-4BA01 | – | – | 8PQ2302-4BA05 |
| | 600 mm | 8PQ1012-0BA01 | 8PQ1022-0BA01 | 8PQ1010-6BA01 | – | – | 8PQ2302-6BA05 |
| | 800 mm | 8PQ1012-0BA01 | 8PQ1022-0BA01 | 8PQ1010-8BA01 | – | – | 8PQ2302-8BA04 |

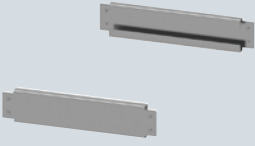
| ③ Rear panels | | ④ Side panels (1 set = 2 units) | | ⑤ Top plates | | | |
|---------------|---------------|------------------------------------|------------------------|---------------|------------------|---------------|---------------|
| IP40 | IP55 | IP55 | IP55 with design strip | IP40 | IP40 cable entry | IPX1 upgrade | IP55 |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - |
| 8PQ2420-4BA02 | 8PQ2420-4BA01 | 8PQ2520-4BA02 | 8PQ2520-4BA01 | 8PQ2304-4BA02 | 8PQ2304-4BA03 | 8PQ2304-4BA04 | 8PQ2304-4BA01 |
| 8PQ2420-4BA02 | 8PQ2420-4BA01 | 8PQ2520-6BA02 | 8PQ2520-6BA01 | 8PQ2304-6BA02 | 8PQ2304-6BA03 | 8PQ2304-6BA04 | 8PQ2304-6BA01 |
| 8PQ2420-4BA02 | 8PQ2420-4BA01 | 8PQ2520-8BA02 | 8PQ2520-8BA01 | 8PQ2304-8BA02 | 8PQ2304-8BA03 | 8PQ2304-8BA04 | 8PQ2304-8BA01 |
| 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-4BA02 | 8PQ2520-4BA01 | 8PQ2306-4BA02 | 8PQ2306-4BA03 | 8PQ2306-4BA04 | 8PQ2306-4BA01 |
| 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-6BA02 | 8PQ2520-6BA01 | 8PQ2306-6BA02 | 8PQ2306-6BA03 | 8PQ2306-6BA04 | 8PQ2306-6BA01 |
| 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-8BA02 | 8PQ2520-8BA01 | 8PQ2306-8BA02 | 8PQ2306-8BA03 | 8PQ2306-8BA04 | 8PQ2306-8BA01 |
| 8PQ2420-8BA02 | 8PQ2420-8BA01 | 8PQ2520-4BA02 | 8PQ2520-4BA01 | 8PQ2308-4BA02 | 8PQ2308-4BA03 | 8PQ2308-4BA04 | 8PQ2308-4BA01 |
| 8PQ2420-8BA02 | 8PQ2420-8BA01 | 8PQ2520-6BA02 | 8PQ2520-6BA01 | 8PQ2308-6BA02 | 8PQ2308-6BA03 | 8PQ2308-6BA04 | 8PQ2308-6BA01 |
| 8PQ2420-8BA02 | 8PQ2420-8BA01 | 8PQ2520-8BA02 | 8PQ2520-8BA01 | 8PQ2308-8BA02 | 8PQ2308-8BA03 | 8PQ2308-8BA04 | 8PQ2308-8BA01 |
| 8PQ2420-1BA02 | 8PQ2420-1BA01 | 8PQ2520-4BA02 | 8PQ2520-4BA01 | 8PQ2301-4BA02 | - | 8PQ2301-4BA03 | 8PQ2301-4BA01 |
| 8PQ2420-1BA02 | 8PQ2420-1BA01 | 8PQ2520-6BA02 | 8PQ2520-6BA01 | 8PQ2301-6BA02 | - | 8PQ2301-6BA03 | 8PQ2301-6BA01 |
| 8PQ2420-1BA02 | 8PQ2420-1BA01 | 8PQ2520-8BA02 | 8PQ2520-8BA01 | 8PQ2301-8BA02 | - | 8PQ2301-8BA03 | 8PQ2301-8BA01 |
| 8PQ2420-2BA02 | 8PQ2420-2BA01 | 8PQ2520-4BA02 | 8PQ2520-4BA01 | 8PQ2302-4BA02 | - | 8PQ2302-4BA03 | 8PQ2302-4BA01 |
| 8PQ2420-2BA02 | 8PQ2420-2BA01 | 8PQ2520-6BA02 | 8PQ2520-6BA01 | 8PQ2302-6BA02 | - | 8PQ2302-6BA03 | 8PQ2302-6BA01 |
| 8PQ2420-2BA02 | 8PQ2420-2BA01 | 8PQ2520-8BA02 | 8PQ2520-8BA01 | 8PQ2302-8BA02 | - | 8PQ2302-8BA03 | 8PQ2302-8BA01 |

Enclosure

Paneling sections

Accessories

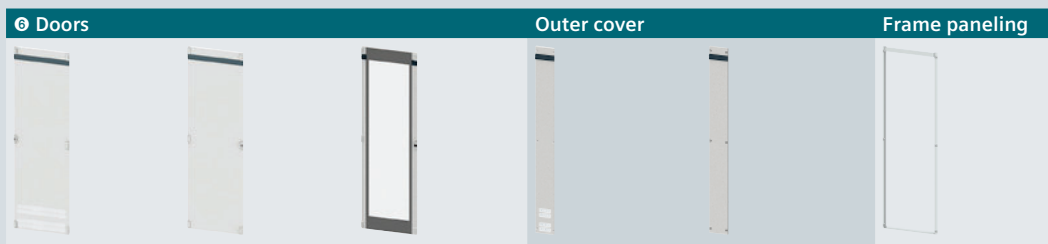
Reinforcements for transport



| Height | Width/depth | Article No. |
|--------|-------------|---------------|
| 100 mm | 400 mm | 8PQ1014-0BA02 |
| | 600 mm | 8PQ1016-0BA02 |
| | 800 mm | 8PQ1018-0BA02 |
| | 1000 mm | 8PQ1011-1BA01 |
| | 1200 mm | 8PQ1012-2BA01 |

Enclosure

Paneling sections



| | | 6 Doors | | | Outer cover | | Frame paneling |
|---------------------------------|---------|---------------|---------------|------------------|---------------|---------------|----------------|
| Hinge position | Width | IP40 | IP55 | IP55 glass doors | IP40 | IP55 | IP30 |
| With double-bit lock | | | | | | | |
| Left | 200 mm | – | – | – | 8PQ2197-2BA15 | 8PQ2197-2BA14 | – |
| | 400 mm | 8PQ2197-4BA08 | 8PQ2197-4BA05 | – | 8PQ2197-4BA02 | 8PQ2197-4BA01 | – |
| | 600 mm | 8PQ2197-6BA06 | 8PQ2197-6BA03 | 8PQ2197-6BA10 | – | – | 8PQ2197-6BA11 |
| | 800 mm | 8PQ2197-8BA06 | 8PQ2197-8BA03 | 8PQ2197-8BA10 | – | – | 8PQ2197-8BA11 |
| | 1000 mm | 8PQ2197-1BA06 | 8PQ2197-1BA03 | 8PQ2197-1BA10 | – | – | – |
| Right | 200 mm | – | – | – | 8PQ2197-2BA15 | 8PQ2197-2BA14 | – |
| | 400 mm | 8PQ2197-4BA11 | 8PQ2197-4BA10 | – | 8PQ2197-4BA02 | 8PQ2197-4BA01 | – |
| | 600 mm | 8PQ2197-6BA13 | 8PQ2197-6BA12 | 8PQ2197-6BA14 | – | – | 8PQ2197-6BA11 |
| | 800 mm | 8PQ2197-8BA13 | 8PQ2197-8BA12 | 8PQ2197-8BA14 | – | – | 8PQ2197-8BA11 |
| | 1000 mm | 8PQ2197-1BA18 | 8PQ2197-1BA17 | 8PQ2197-1BA20 | – | – | – |
| For profile semicylinder | | | | | | | |
| Left | 200 mm | – | – | – | 8PQ2197-2BA15 | 8PQ2197-2BA14 | – |
| | 400 mm | 8PQ2197-4BA06 | 8PQ2197-4BA03 | – | 8PQ2197-4BA02 | 8PQ2197-4BA01 | – |
| | 600 mm | 8PQ2197-6BA04 | 8PQ2197-6BA01 | 8PQ2197-6BA07 | – | – | 8PQ2197-6BA11 |
| | 800 mm | 8PQ2197-8BA04 | 8PQ2197-8BA01 | 8PQ2197-8BA07 | – | – | 8PQ2197-8BA11 |
| | 1000 mm | 8PQ2197-1BA07 | 8PQ2197-1BA04 | 8PQ2197-1BA11 | – | – | – |
| Right | 200 mm | – | – | – | 8PQ2197-2BA15 | 8PQ2197-2BA14 | – |
| | 400 mm | 8PQ2197-4BA07 | 8PQ2197-4BA04 | – | 8PQ2197-4BA02 | 8PQ2197-4BA01 | – |
| | 600 mm | 8PQ2197-6BA05 | 8PQ2197-6BA02 | 8PQ2197-6BA08 | – | – | 8PQ2197-6BA11 |
| | 800 mm | 8PQ2197-8BA05 | 8PQ2197-8BA02 | 8PQ2197-8BA08 | – | – | 8PQ2197-8BA11 |
| | 1000 mm | 8PQ2197-1BA08 | 8PQ2197-1BA05 | 8PQ2197-1BA12 | – | – | – |

15

Accessories

| Cubicle keys | | | |
|---|--|-----------------|---------------|
|  | Version | Scope of supply | Article No. |
| | 3 mm double bit | 10 units | 8PQ9400-0BA12 |
| Inner door struts | | | |
|  | Height | Article No. | |
| | 1975 mm | 8PQ2197-0BA10 | |
| Cubicle ID plate | | | |
|  | Version | Article No. | |
| | SIVACON designed by Siemens | 8PQ9400-0BA06 | |
| Flat cylinders/two-way interlocking mechanism | | | |
|  | Version | Article No. | |
| | Rotary handles with flat cylinder | 8PQ9400-0BA07 | |
| | <ul style="list-style-type: none"> • With key • Identical key type | | |
| | Rotary handles with two-way interlocking mechanism | 8PQ9400-0BA08 | |
| | Coupling bars | 8PQ9400-0BA27 | |
| | Locking rods | 8PQ9400-0BA37 | |
| Bar guides | 8PQ9400-0BA36 | | |
| Profile semicylinders | | | |
|  | Version | Article No. | |
| | Rotary handles for profile semicylinders | 8PQ9400-0BA41 | |
| | Coupling bars | 8PQ9400-0BA28 | |
| | Locking rods | 8PQ9400-0BA38 | |
| | Bar guides | 8PQ9400-0BA36 | |
| | Profile semicylinders Acc. to DIN 18252/18254, 8 × 45° adjustable, with identical keys (key number 333), including key | 8PQ9400-0BA26 | |
| Door hinges | | | |
|  | Version | Scope of supply | Article No. |
| | Suitable for modular or section doors | 2 units | 8PQ9400-0BA55 |

Enclosure

Internal covers



Main busbar at top

Frame without main busbar

Masking frames



| Width | Fixed | Swivel | Fixed | Swivel |
|--------|---------------|---------------|---------------|---------------|
| 600 mm | 8PQ2000-6BA03 | 8PQ2000-6BA02 | 8PQ2000-6BA04 | 8PQ2000-6BA01 |
| 800 mm | 8PQ2000-8BA03 | 8PQ2000-8BA02 | 8PQ2000-8BA04 | 8PQ2000-8BA01 |

Blanking covers



| Height | Width 600 mm | Width 800 mm |
|--------|---------------|---------------|
| 50 mm | 8PQ2005-6BA01 | 8PQ2005-8BA01 |
| 100 mm | 8PQ2010-6BA01 | 8PQ2010-8BA01 |
| 150 mm | 8PQ2015-6BA02 | 8PQ2015-8BA02 |
| 200 mm | 8PQ2020-6BA01 | 8PQ2020-8BA01 |
| 250 mm | 8PQ2025-6BA01 | 8PQ2025-8BA01 |
| 300 mm | 8PQ2030-6BA01 | 8PQ2030-8BA01 |
| 350 mm | 8PQ2035-6BA01 | 8PQ2035-8BA01 |
| 400 mm | 8PQ2040-6BA01 | 8PQ2040-8BA01 |
| 500 mm | 8PQ2050-6BA01 | 8PQ2050-8BA01 |
| 550 mm | 8PQ2055-6BA01 | 8PQ2055-8BA01 |
| 600 mm | 8PQ2060-6BA01 | 8PQ2060-8BA01 |
| 650 mm | 8PQ2065-6BA01 | 8PQ2065-8BA01 |
| 800 mm | 8PQ2080-6BA01 | 8PQ2080-8BA01 |

Accessories

| 4 Covers, ventilated | | | |
|---|----------------------------|-----------------|---------------|
| | Height | Width | Article No. |
|  | 100 mm | 600 mm | 8PQ2010-6BA02 |
| | | 800 mm | 8PQ2010-8BA02 |
| Quick-release lock | | | |
| | Version | Scope of supply | Article No. |
|  | SIVACON - Blue green basic | 20 units | 8PQ9400-0BA54 |
| Hinges for covers | | | |
| | Version | Scope of supply | Article No. |
|  | Set for one cover | 2 units | 8PQ2000-0BA08 |

Enclosure

Modular doors






Device compartments

| | | ② Modular doors | | Covers | |
|--------|--------|-----------------|---------------|---------------|---------------|
| Width | Height | IP4X | IP55 upgrade | IP4X | IP55 upgrade |
| 400 mm | 50 mm | – | – | 8PQ2005-4BA03 | 8PQ2005-4BA01 |
| | 100 mm | – | – | 8PQ2010-4BA02 | 8PQ2010-4BA01 |
| | 150 mm | 8PQ2015-4BA04 | 8PQ2015-4BA05 | – | – |
| | 200 mm | 8PQ2020-4BA01 | 8PQ2020-4BA03 | – | – |
| | 250 mm | 8PQ2025-4BA01 | 8PQ2025-4BA02 | – | – |
| | 300 mm | 8PQ2030-4BA01 | 8PQ2030-4BA02 | – | – |
| | 350 mm | 8PQ2035-4BA01 | 8PQ2035-4BA02 | – | – |
| | 400 mm | 8PQ2040-4BA01 | 8PQ2040-4BA03 | – | – |
| | 450 mm | 8PQ2045-4BA01 | 8PQ2045-4BA02 | – | – |
| | 500 mm | 8PQ2050-4BA01 | 8PQ2050-4BA02 | – | – |
| | 550 mm | 8PQ2055-4BA11 | 8PQ2055-4BA07 | – | – |
| | 600 mm | 8PQ2060-4BA01 | 8PQ2060-4BA03 | – | – |
| | 650 mm | 8PQ2065-4BA01 | 8PQ2065-4BA02 | – | – |
| | 700 mm | 8PQ2070-4BA07 | 8PQ2070-4BA08 | – | – |
| | 750 mm | 8PQ2072-4BA01 | 8PQ2075-4BA01 | – | – |
| | 800 mm | 8PQ2080-4BA01 | 8PQ2080-4BA04 | – | – |
| 600 mm | 50 mm | – | – | 8PQ2005-6BA04 | 8PQ2005-6BA03 |
| | 100 mm | – | – | 8PQ2010-6BA04 | 8PQ2010-6BA03 |
| | 150 mm | 8PQ2015-6BA10 | 8PQ2015-6BA12 | – | – |
| | 200 mm | 8PQ2020-6BA14 | 8PQ2020-6BA15 | – | – |
| | 250 mm | 8PQ2025-6BA07 | 8PQ2025-6BA08 | – | – |
| | 300 mm | 8PQ2030-6BA10 | 8PQ2030-6BA12 | – | – |
| | 350 mm | 8PQ2035-6BA12 | 8PQ2035-6BA13 | – | – |
| | 400 mm | 8PQ2040-6BA12 | 8PQ2040-6BA13 | – | – |
| | 450 mm | 8PQ2045-6BA05 | 8PQ2045-6BA06 | – | – |
| | 500 mm | 8PQ2050-6BA03 | 8PQ2050-6BA04 | – | – |
| | 550 mm | 8PQ2055-6BA04 | 8PQ2055-6BA06 | – | – |
| | 600 mm | 8PQ2060-6BA06 | 8PQ2060-6BA07 | – | – |
| | 650 mm | 8PQ2065-6BA03 | 8PQ2065-6BA04 | – | – |
| | 700 mm | 8PQ2070-6BA03 | 8PQ2070-6BA04 | – | – |
| | 750 mm | 8PQ2075-6BA01 | 8PQ2075-6BA02 | – | – |
| | 800 mm | 8PQ2080-6BA03 | 8PQ2080-6BA04 | – | – |
| 800 mm | 50 mm | – | – | 8PQ2005-8BA04 | 8PQ2005-8BA03 |
| | 100 mm | – | – | 8PQ2010-8BA04 | 8PQ2010-8BA03 |
| | 150 mm | 8PQ2015-8BA05 | 8PQ2015-8BA07 | – | – |
| | 200 mm | 8PQ2020-8BA07 | 8PQ2020-8BA08 | – | – |
| | 250 mm | 8PQ2025-8BA04 | 8PQ2025-8BA05 | – | – |
| | 300 mm | 8PQ2030-8BA05 | 8PQ2030-8BA06 | – | – |
| | 350 mm | 8PQ2035-8BA06 | 8PQ2035-8BA07 | – | – |
| | 400 mm | 8PQ2040-8BA12 | 8PQ2040-8BA13 | – | – |
| | 450 mm | 8PQ2045-8BA03 | 8PQ2045-8BA04 | – | – |
| | 500 mm | 8PQ2050-8BA03 | 8PQ2050-8BA04 | – | – |
| | 550 mm | 8PQ2055-8BA03 | 8PQ2055-8BA06 | – | – |
| | 600 mm | 8PQ2060-8BA04 | 8PQ2060-8BA05 | – | – |
| | 650 mm | 8PQ2065-8BA03 | 8PQ2065-8BA04 | – | – |
| | 700 mm | 8PQ2070-8BA01 | 8PQ2070-8BA02 | – | – |
| | 750 mm | 8PQ2075-8BA01 | 8PQ2075-8BA02 | – | – |
| | 800 mm | 8PQ2080-8BA03 | 8PQ2080-8BA04 | – | – |

Head compartments

| | | 1 Doors | | Covers |
|------------------------------|--------|---|--|---|
| | |  |  |  |
| Width | Height | IP4X | IP55 upgrade | IP4X |
| Main busbar at top | | | | |
| 400 mm | 225 mm | 8PQ2022-4BA04 | 8PQ2022-4BA03 | 8PQ2022-4BA01 |
| 600 mm | 225 mm | 8PQ2022-6BA04 | 8PQ2022-6BA02 | 8PQ2022-6BA01 |
| 800 mm | 225 mm | 8PQ2022-8BA03 | 8PQ2022-8BA02 | 8PQ2022-8BA01 |
| Main busbar at bottom | | | | |
| 400 mm | 175 mm | – | 8PQ2022-4BA03 | 8PQ2000-4BA02 |
| 600 mm | 175 mm | – | 8PQ2022-6BA02 | 8PQ2000-6BA08 |
| 800 mm | 175 mm | – | 8PQ2022-8BA02 | 8PQ2000-8BA08 |
| 400 mm | 725 mm | 8PQ2072-4BA02 | 8PQ2070-4BA06 | – |
| 600 mm | 725 mm | 8PQ2072-6BA01 | 8PQ2070-6BA11 | – |


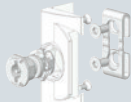




Base compartments

| | | 2 Doors | | Covers |
|--------|-------------|---|--|---|
| | |  |  |  |
| Width | Height | IP4X | IP55 upgrade | IP4X |
| 400 mm | 150 + 25 mm | – | 8PQ2015-4BA03 | 8PQ2015-4BA01 |
| 600 mm | 150 + 25 mm | – | 8PQ2015-6BA13 | 8PQ2000-6BA07 |
| 800 mm | 150 + 25 mm | – | 8PQ2015-8BA08 | 8PQ2000-8BA07 |
| 400 mm | 700 + 25 mm | 8PQ2070-4BA01 | – | – |
| 600 mm | 700 + 25 mm | 8PQ2070-6BA05 | – | – |

Enclosure

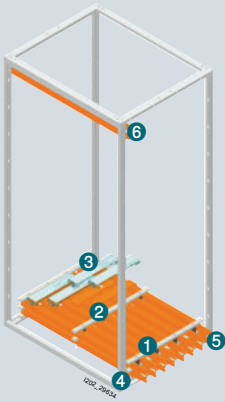
Modular doors

Accessories

| Door hinges | | | |
|---|--|-----------------|---------------|
| | Version | Scope of supply | Article No. |
|  | Suitable for modular or section doors | 2 units | 8PQ9400-0BA55 |
| Locks | | | |
| | Version | | Article No. |
|  | Two-way interlocking mechanisms | | 8PQ9400-0BA40 |
| Handles for modular door | | | |
| | Version | | Article No. |
|  | Without lock | | 8PQ9400-0BA73 |
| | With flat cylinder, identical key type | | 8PQ9400-0BA72 |
| ID strips | | | |
| | Width | Scope of supply | Article No. |
|  | 400 mm | 6 units | 8PQ5000-3BA42 |
| | 600 mm | 6 units | 8PQ5000-3BA43 |
| | 800 mm | 6 units | 8PQ5000-3BA46 |
| Inner door struts | | | |
| | Height | | Article No. |
|  | 400 mm | | 8PQ2040-0BA06 |
| | 550 mm | | 8PQ2055-0BA05 |
| | 600 mm | | 8PQ2060-0BA14 |
| | 625 mm | | 8PQ2060-0BA14 |
| | 700 mm | | 8PQ2070-0BA02 |
| | 725 mm | | 8PQ2070-0BA02 |
| | 800 mm | | 8PQ2080-0BA07 |
| Cubicle keys | | | |
| | Version | Scope of supply | Article No. |
|  | 3 mm double bit | 10 units | 8PQ9400-0BA12 |

Busbar systems

Main busbars

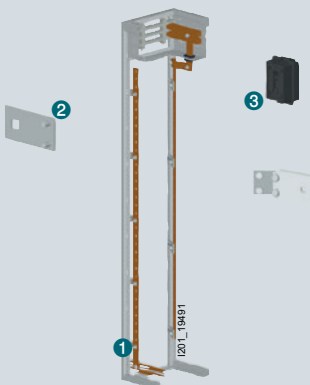


| | 1 Busbar supports | | 2 Reinforcement | | 3 Equipotential bonding | Covers | 4 PEN grounding | Arcing fault barriers |
|-----------------|-------------------------------------|---------------------|---------------------|---------------------|-------------------------|---------------|-----------------|-----------------------|
| | | | | | | | | |
| Position | Up to 3200 A | Up to 4000 A | Up to 3200 A | Up to 4000 A | | | | |
| Top | 8PQ4000-0BA04 | 8PQ4000-0BA60 | 8PQ4000-0BA37 | 2 × 8PQ4000-0BA37 | 8PQ4000-0BA62 | – | 8PQ4000-0BA12 | 8PQ9400-0BA21 |
| Bottom | 8PQ4000-0BA04 | 8PQ4000-0BA60 | 8PQ4000-0BA37 | 2 × 8PQ4000-0BA37 | 8PQ4000-0BA62 | 8PQ4000-1BA25 | 8PQ4000-0BA12 | 8PQ9400-0BA21 |
| Rear | 8PQ4000-0BA04 + 8PQ3000-0BA10 | – | 8PQ4000-0BA37 | – | – | – | 8PQ4000-2BA24 | 8PQ9400-0BA21 |

Accessories

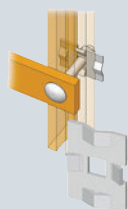
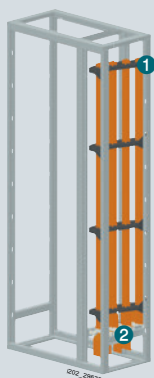
| 5 Connecting lugs | | | |
|------------------------------|---------------|---------------|--|
| Version | Cross-section | Article No. | |
| For L1, L2, L3, N or PEN | 20 × 10 mm | 8PQ4000-0BA53 | |
| | 30 × 10 mm | 8PQ4000-0BA54 | |
| | 40 × 10 mm | 8PQ4000-0BA56 | |
| | 50 × 10 mm | 8PQ4000-0BA57 | |
| 6 Connecting lugs | | | |
| For PE bar | 20 × 5 mm | 8PQ4000-0BA52 | |
| | 30 × 5 mm | | |
| | 30 × 10 mm | | |
| | 40 × 5 mm | 8PQ4000-0BA67 | |
| | 40 × 10 mm | | |
| | 50 × 10 mm | | |

N/PE bars



| | 1 Frame connection | 2 PE holders | 3 N holders |
|--------------------------------|--------------------|---------------|---------------|
| | | | |
| Position of main busbar | 6 units | | |
| Top, bottom, rear | 8PQ4000-0BA82 | 8PQ4000-2BA23 | 8PQ4000-2BA22 |

Vertical distribution busbars, cascaded, up to $I_{CW} = 65$ kA



| | 1 Busbar supports | 2 Supports | |
|--------------------------------|---------------------------------|----------------------------------|---------------|
| Position of main busbar | 30 × 10 mm, 910 – 1600 A | 40 × 10 mm, 1100 – 1640 A | |
| Top | 8PQ4000-0BA32 | 8PQ4000-0BA63 | – |
| Bottom | 8PQ4000-0BA32 | 8PQ4000-0BA63 | 8PQ4000-1BA23 |

Accessories

| Connection | | | | |
|------------|-------------------|-------------|-----------------|---------------|
| | Composants | Version | Scope of supply | Article No. |
| | Busbar clamps | – | 20 units | 8PQ9400-0BA02 |
| | Saucer-head bolts | M10 × 35 mm | 50 units | 8PQ9500-0BA14 |
| | | M10 × 45 mm | 50 units | 8PQ9500-0BA16 |
| | | M10 × 55 mm | 50 units | 8PQ9500-1BA36 |
| | | M10 × 65 mm | 50 units | 8PQ9500-1BA25 |
| | Spring washers | For M10 | 50 units | 8PQ9500-0BA60 |
| | Hexagonal nuts | M10 | 50 units | 8PQ9500-0BA05 |

| Connecting lugs | | | | |
|-----------------|--|-------------------------|----------------|---------------|
| | Position of vertical distribution busbar | Position of main busbar | Depth | Article No. |
| | Right | Front | 400 mm | 8PQ4000-0BA45 |
| | | | 600 mm, 800 mm | 8PQ4000-0BA46 |
| | | Rear | 800 mm | 8PQ4000-0BA50 |
| Left | Front | 400 mm | 8PQ4000-0BA73 | |
| | | 600 mm, 800 mm | 8PQ4000-0BA72 | |
| | Rear | 800 mm | 8PQ4000-0BA70 | |
| Right | Front | 400 mm | 8PQ4000-0BA47 | |
| | | 600 mm, 800 mm | 8PQ4000-0BA48 | |
| | Rear | 800 mm | 8PQ4000-0BA51 | |
| Left | Front | 400 mm | 8PQ4000-0BA75 | |
| | | 600 mm, 800 mm | 8PQ4000-0BA48 | |
| | Rear | 800 mm | 8PQ4000-0BA71 | |

Vertical distribution busbars, non-cascaded, up to $I_{CW} = 100$ kA



| | 1 Busbar supports | 2 Reinforcement | 3 Supports |
|--------------------------------|-------------------|-----------------|---------------|
| Position of main busbar | Width | | |
| Top | 200 mm | 8PQ4000-2BA25 | 8PQ4000-0BA37 |
| | 400 mm | 8PQ4000-2BA26 | 8PQ4000-0BA37 |
| Bottom | 200 mm | 8PQ4000-2BA25 | 8PQ4000-0BA37 |
| | 400 mm | 8PQ4000-2BA26 | 8PQ4000-0BA37 |

| | Position of main busbar | Width | Depth | Article No. |
|--------|-------------------------|--------|---------------|---------------|
| Top | Front | 200 mm | 8PQ4000-0BA37 | 8PQ4000-0BA78 |
| | | 400 mm | 8PQ4000-2BA26 | 8PQ4000-0BA61 |
| Bottom | Front | 200 mm | 8PQ4000-2BA25 | – |
| | | 400 mm | 8PQ4000-2BA26 | – |

Accessories

| Connecting lugs | | | | |
|-----------------|-------------------------|----------------|---------------|--|
| | Position of main busbar | Depth | Article No. | |
| | Front | 400 mm | 8PQ4000-0BA38 | |
| | | 600 mm, 800 mm | 8PQ4000-0BA40 | |
| | Rear | 800 mm | 8PQ4000-0BA43 | |
| | | 400 mm | 8PQ4000-0BA41 | |
| | Front | 600 mm, 800 mm | 8PQ4000-0BA42 | |
| | | 800 mm | 8PQ4000-0BA44 | |

Section expansion

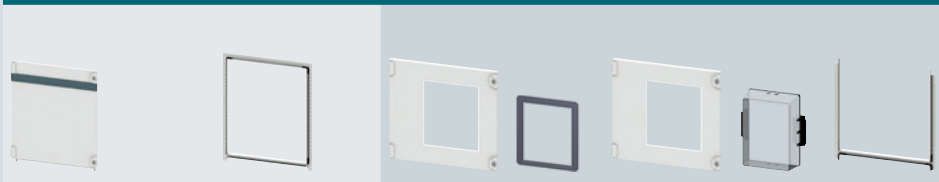
Air circuit breakers 3WL, infeed main busbar at top



3 and 4-pole

① Head compartment doors







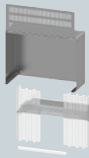





② Modular doors



| Installation type | Size | Width | Depth | ① Head compartment doors | | ② Modular doors | | | |
|-------------------|--------------|---------|--------|--------------------------|---------------|------------------------------------|------------------------------------|------------------------------------|---------------|
| | | | | IP40 | IP55 upgrade | IP40 | IP55 | IP55 upgrade | |
| Fixed-mounted | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 | |
| | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 | |
| | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 | |
| | II | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 | |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 | |
| | III | 1000 mm | 800 mm | 8PQ2067-1BA01 | 8PQ2067-1BA02 | 8PQ2055-1BA03 + 3WL9111-0AP01-0AA0 | 8PQ2055-1BA04 + 3WL9111-0AP02-0AA0 | 8PQ2055-1BA06 | |
| | Withdrawable | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| II | | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 | |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 | |
| III | | 1000 mm | 800 mm | 8PQ2067-1BA01 | 8PQ2067-1BA02 | 8PQ2055-1BA03 + 3WL9111-0AP01-0AA0 | 8PQ2055-1BA04 + 3WL9111-0AP02-0AA0 | 8PQ2055-1BA06 | |

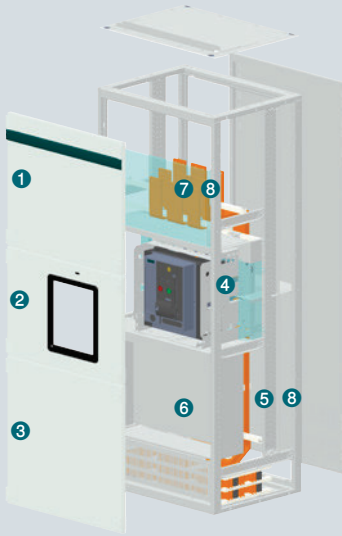
Technical specifications

| Size | I _n | Rated operational current I _{ec} | | | | | | | | Non-ventilated IP55 | | | | | |
|------|----------------|---|--------|--------|---------------|--------|--------|--------|--------|---------------------|--------|---------------|--------|--------|--------|
| | | Ventilated IP40 | | | | | | | | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C |
| I | 1600 A | 1600 A | 1600 A | 1590 A | 1550 A | 1510 A | 1460 A | 1420 A | 1370 A | 1340 A | 1310 A | 1270 A | 1240 A | 1200 A | 1170 A |
| | 2000 A | 2000 A | 2000 A | 1990 A | 1940 A | 1890 A | 1830 A | 1780 A | 1720 A | 1680 A | 1640 A | 1590 A | 1550 A | 1510 A | 1460 A |
| II | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 1960 A | 1920 A | 1870 A | 1820 A | 1780 A | 1730 A | 1670 A |
| | 3200 A | 2850 A | 2790 A | 2720 A | 2650 A | 2580 A | 2510 A | 2430 A | 2260 A | 2210 A | 2160 A | 2100 A | 2050 A | 1990 A | 1930 A |
| III | 4000 A | 4000 A | 4000 A | 4000 A | 4000 A | 3950 A | 3870 A | 3780 A | 3230 A | 3150 A | 3080 A | 3000 A | 2920 A | 2840 A | 2750 A |

| ① Base compartment doors | | ④ Mounting plates | | ⑤ Main busbar connection | | ⑥ Separation 4b | | ⑦ Cable connection | | ⑧ Insulation | |
|--|---|---|---|---|---|--|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |
| IP40 | IP55 upgrade | | | Front | Rear | | | | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | – | 8PQ5000-4BA28 | 8PQ6000-5BA81 | – | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | – | 8PQ5000-4BA30 | 8PQ6000-5BA81 | – | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | 8PQ6001-1BA00 new | 8PQ5000-4BA31 | 8PQ6000-5BA81 | – | | | |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | | 8PQ6000-6BA76 | – | 8PQ5000-4BA32 | 8PQ6000-5BA83 | – | | | |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | | 8PQ6000-6BA76 | 8PQ6001-1BA01 new | 8PQ5000-4BA33 | 8PQ6000-5BA83 | – | | | |
| 8PQ2075-1BA01 | 8PQ2075-1BA02 | 8PQ6000-5BA23 | | 8PQ6000-5BA33 | – | 8PQ5000-5BA11 | 8PQ6000-5BA84 | – | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | – | 8PQ5000-4BA28 | 8PQ6000-5BA82 | 8PQ6000-7BA28 | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | – | 8PQ5000-4BA30 | 8PQ6000-5BA82 | 8PQ6000-7BA28 | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | | 8PQ6000-6BA75 | 8PQ6001-1BA00 new | 8PQ5000-4BA31 | 8PQ6000-5BA82 | 8PQ6000-7BA28 | | | |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | | 8PQ6000-6BA76 | – | 8PQ5000-4BA32 | 8PQ6000-5BA83 | – | | | |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | | 8PQ6000-6BA76 | 8PQ6001-1BA01 new | 8PQ5000-4BA33 | 8PQ6000-5BA83 | – | | | |
| 8PQ2075-1BA01 | 8PQ2075-1BA02 | 8PQ6000-5BA23 | | 8PQ6000-5BA33 | – | 8PQ5000-5BA11 | 8PQ6000-5BA84 | – | | | |

Section expansion

3WL air circuit breakers, infeed main busbar at bottom



3 and 4-pole

1 Head compartment doors

2 Modular doors



| Installation type | Size | Width | Depth | 1 Head compartment doors | | 2 Modular doors | | |
|-------------------|------|--------|--------|--------------------------|---------------|------------------------------------|------------------------------------|---------------|
| | | | | IP40 | IP55 upgrade | IP40 | IP55 | IP55 upgrade |
| Fixed-mounted | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | II | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| Withdrawable | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | II | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |

Technical specifications

| Size | I _n | Rated operational current I _{ec} | | | | | | | | | | | | | |
|------|----------------|---|--------|--------|---------------|--------|--------|--------|---------------------|--------|--------|---------------|--------|--------|--------|
| | | Ventilated IP40 | | | | | | | Non-ventilated IP55 | | | | | | |
| | | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| I | 1600 A | 1540 A | 1500 A | 1470 A | 1430 A | 1390 A | 1350 A | 1310 A | 1390 A | 1350 A | 1320 A | 1290 A | 1240 A | 1190 A | 1140 A |
| | 2000 A | 1930 A | 1880 A | 1840 A | 1790 A | 1740 A | 1690 A | 1640 A | 1710 A | 1670 A | 1630 A | 1590 A | 1530 A | 1470 A | 1410 A |
| II | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 1990 A | 1920 A | 1830 A | 2000 A | 1950 A | 1880 A | 1820 A | 1750 A | 1680 A | 1610 A |
| | 3200 A | 2710 A | 2640 A | 2570 A | 2490 A | 2400 A | 2300 A | 2200 A | 2320 A | 2250 A | 2180 A | 2100 A | 2030 A | 1950 A | 1860 A |

③ Base compartment doors

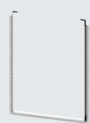
④ Mounting plates

⑤ Main busbar connection

⑥ Separation 4b

⑦ Cable connection

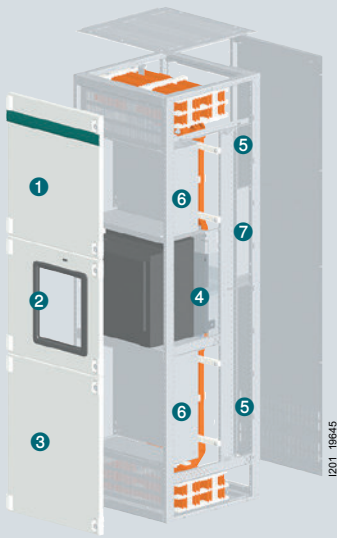
⑧ Insulation



| IP40 | IP55 upgrade | Main busbar connection | | Separation 4b | Cable connection | Insulation | |
|---------------|---------------|------------------------|---------------|--------------------------|------------------|---------------|---------------|
| | | Front | Rear | | | | |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | – | 8PQ5000-4BA34 | 8PQ6000-5BA81 | – |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | – | 8PQ5000-4BA35 | 8PQ6000-5BA81 | – |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | 8PQ6001-1BA00 new | 8PQ5000-4BA36 | 8PQ6000-5BA81 | – |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 8PQ6000-6BA76 | – | 8PQ5000-4BA37 | 8PQ6000-5BA83 | – |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 8PQ6000-6BA76 | 8PQ6001-1BA01 new | 8PQ5000-4BA38 | 8PQ6000-5BA83 | – |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | – | 8PQ5000-4BA34 | 8PQ6000-5BA82 | 8PQ6000-7BA28 |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | – | 8PQ5000-4BA35 | 8PQ6000-5BA82 | 8PQ6000-7BA28 |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 8PQ6000-6BA75 | 8PQ6001-1BA00 new | 8PQ5000-4BA36 | 8PQ6000-5BA82 | 8PQ6000-7BA28 |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 8PQ6000-6BA76 | – | 8PQ5000-4BA37 | 8PQ6000-5BA83 | – |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 8PQ6000-6BA76 | 8PQ6001-1BA01 new | 8PQ5000-4BA38 | 8PQ6000-5BA83 | – |

Section expansion

3WL air circuit breakers, coupling



3 and 4-pole

1 Head compartment doors

2 Modular doors



| Installation type | Size | Width | Depth | IP40 | IP55 upgrade | IP4X | IP55 | IP55 upgrade |
|-------------------|------|--------|--------|---------------|---------------|------------------------------------|------------------------------------|---------------|
| Fixed-mounted | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | II | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| Withdrawable | I | 600 mm | 400 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 600 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | | | 800 mm | 8PQ2067-6BA01 | 8PQ2067-6BA02 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ2055-6BA06 |
| | II | 800 mm | 600 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |
| | | | 800 mm | 8PQ2067-8BA01 | 8PQ2067-8BA02 | 8PQ2055-8BA08 + 3WL9111-0AP01-0AA0 | 8PQ2055-8BA10 + 3WL9111-0AP02-0AA0 | 8PQ2055-8BA06 |

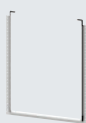
Technical specifications

| Size | I_n | Rated operational current I_{ec} | | | | | | | | | | | | | |
|------|--------|------------------------------------|--------|--------|---------------|--------|--------|--------|---------------------|--------|--------|---------------|--------|--------|--------|
| | | Ventilated IP40 | | | | | | | Non-ventilated IP55 | | | | | | |
| | | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| I | 1600 A | 1540 A | 1500 A | 1470 A | 1430 A | 1390 A | 1350 A | 1310 A | 1390 A | 1350 A | 1320 A | 1290 A | 1240 A | 1190 A | 1140 A |
| | 2000 A | 1930 A | 1880 A | 1840 A | 1790 A | 1740 A | 1690 A | 1640 A | 1710 A | 1670 A | 1630 A | 1590 A | 1530 A | 1470 A | 1410 A |
| II | 2000 A | 2000 A | 2000 A | 2000 A | 2000 A | 1990 A | 1920 A | 1830 A | 2000 A | 1950 A | 1880 A | 1820 A | 1750 A | 1680 A | 1610 A |
| | 3200 A | 2710 A | 2640 A | 2570 A | 2490 A | 2400 A | 2300 A | 2200 A | 2320 A | 2250 A | 2180 A | 2100 A | 2030 A | 1950 A | 1860 A |

④ Base compartment doors



IP40

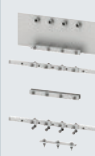


IP55 upgrade

④ Mounting plates



⑤ Main busbar connection



⑥ Separation 4b



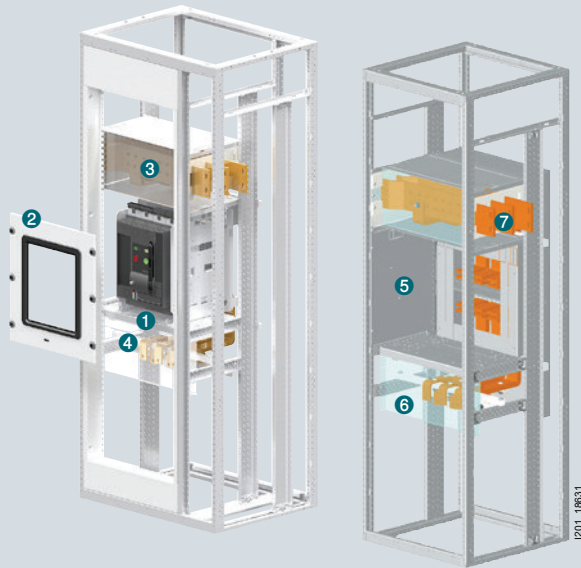
⑦ Uprights



| | | | | | |
|---------------|---------------|---------------|------------------|---------------|------------------|
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA12 | – |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA13 | 2× 8PQ3000-3BA50 |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA14 | 2× 8PQ3000-3BA51 |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 2× 8PQ6000-6BA76 | 8PQ5000-5BA15 | 2× 8PQ3000-3BA50 |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 2× 8PQ6000-6BA76 | 8PQ5000-5BA16 | 2× 8PQ3000-3BA51 |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA12 | – |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA13 | 2× 8PQ3000-3BA50 |
| 8PQ2075-6BA01 | 8PQ2075-6BA03 | 8PQ6000-5BA26 | 2× 8PQ6000-6BA75 | 8PQ5000-5BA14 | 2× 8PQ3000-3BA51 |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 2× 8PQ6000-6BA76 | 8PQ5000-5BA15 | 2× 8PQ3000-3BA50 |
| 8PQ2075-8BA01 | 8PQ2075-8BA03 | 8PQ6000-5BA24 | 2× 8PQ6000-6BA76 | 8PQ5000-5BA16 | 2× 8PQ3000-3BA51 |

Section expansion

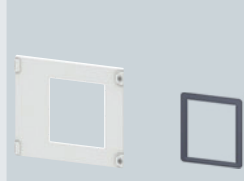
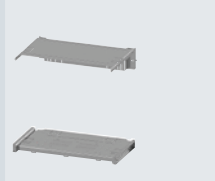
3WL air circuit breakers, connection of section busbar systems



Modular doors

1 Mounting plates

2 Modular doors

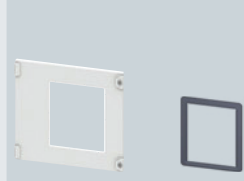
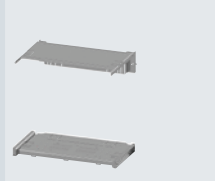


| Installation type | Size | Width | Number of poles | Rated current | | IP4X |
|-------------------|--------|--------|-----------------|---------------|------------------------------------|------------------------------------|
| Fixed-mounted | I | 400 mm | 3-pole | 1600 A | 8PQ6000-5BA25 | 8PQ2055-4BA12 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-5BA25 | 8PQ2055-4BA12 + 3WL9111-0AP01-0AA0 |
| | 600 mm | 4-pole | 1600 A | 8PQ6000-5BA26 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | |
| | | | 2000 A | 8PQ6000-5BA26 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | |
| Withdrawable | I | 400 mm | 3-pole | 1600 A | 8PQ6000-5BA25 | 8PQ2055-4BA12 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-5BA25 | 8PQ2055-4BA12 + 3WL9111-0AP01-0AA0 |
| | 600 mm | 4-pole | 1600 A | 8PQ6000-5BA26 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | |
| | | | 2000 A | 8PQ6000-5BA26 | 8PQ2055-6BA16 + 3WL9111-0AP01-0AA0 | |

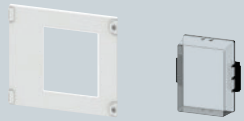
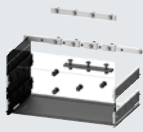
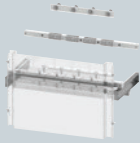
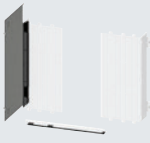
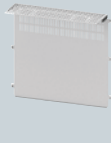
Covers

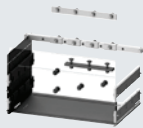
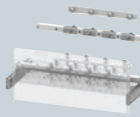

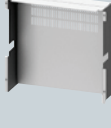

1 Mounting plates

2 Covers




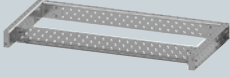
| Installation type | Size | Width | Number of poles | Rated current | | IP4X |
|-------------------|------|--------|-----------------|---------------|---------------|------------------------------------|
| Fixed-mounted | I | 600 mm | 3-pole | 1600 A | 8PQ6000-3BA31 | 8PQ2055-6BA05 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA31 | 8PQ2055-6BA05 + 3WL9111-0AP01-0AA0 |
| | | | 4-pole | 1600 A | 8PQ6000-3BA31 | 8PQ2055-6BA07 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA31 | 8PQ2055-6BA07 + 3WL9111-0AP01-0AA0 |
| | | 800 mm | 3/4-pole | 1600 A | 8PQ6000-3BA32 | 8PQ2055-8BA04 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA32 | 8PQ2055-8BA04 + 3WL9111-0AP01-0AA0 |
| Withdrawable | I | 600 mm | 3-pole | 1600 A | 8PQ6000-3BA31 | 8PQ2055-6BA05 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA31 | 8PQ2055-6BA05 + 3WL9111-0AP01-0AA0 |
| | | | 4-pole | 1600 A | 8PQ6000-3BA31 | 8PQ2055-6BA07 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA31 | 8PQ2055-6BA07 + 3WL9111-0AP01-0AA0 |
| | | 800 mm | 3/4-pole | 1600 A | 8PQ6000-3BA32 | 8PQ2055-8BA04 + 3WL9111-0AP01-0AA0 |
| | | | | 2000 A | 8PQ6000-3BA32 | 8PQ2055-8BA04 + 3WL9111-0AP01-0AA0 |

| | ③ Section busbars | ④ Cable connection | ⑤ Device compartment | ⑥ Cable connection | ⑦ Section busbars |
|------------------------------------|--|---|---|--|---|
| |  |  |  | Separation, form 3  | Separation, form 4  |
| IP55 | | | | | |
| – | 8PQ6000-5BA48 | 8PQ6000-5BA78 | 8PQ5000-3BA82 | 8PQ5000-3BA84 | 8PQ5000-3BA84 |
| – | 8PQ6000-7BA05 | 8PQ6000-5BA78 | 8PQ5000-3BA82 | 8PQ5000-4BA00 | 8PQ5000-3BA85 |
| 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ6000-5BA51 | 8PQ6000-5BA81 | 8PQ5000-3BA82 | 8PQ5000-3BA86 | 8PQ5000-3BA86 |
| 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ6000-7BA07 | 8PQ6000-5BA81 | 8PQ5000-3BA82 | 8PQ5000-4BA01 | 8PQ5000-3BA87 |
| – | 8PQ6000-5BA50 | 8PQ6000-5BA80 | 8PQ5000-3BA82 | 8PQ5000-3BA84 | 8PQ5000-3BA84 |
| – | 8PQ6000-7BA06 | 8PQ6000-5BA80 | 8PQ5000-3BA82 | 8PQ5000-4BA00 | 8PQ5000-3BA85 |
| 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ6000-5BA52 | 8PQ6000-5BA82 | 8PQ5000-3BA82 | 8PQ5000-3BA86 | 8PQ5000-3BA86 |
| 8PQ2055-6BA17 + 3WL9111-0AP02-0AA0 | 8PQ6000-7BA08 | 8PQ6000-5BA82 | 8PQ5000-3BA82 | 8PQ5000-4BA01 | 8PQ5000-3BA87 |

| | ③ Section busbars | ④ Cable connection | ⑤ Device compartment | ⑥ Cable connection | ⑦ Section busbars |
|--|---|---|--|---|---|
| |  |  | Separation, form 3  | Separation, form 4  | Separation, form 4  |
| | | | | | |
| | 8PQ6000-5BA45 | 8PQ6000-5BA75 | 8PQ5000-0BA08 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-7BA03 | 8PQ6000-5BA75 | 8PQ5000-0BA08 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-5BA45 | 8PQ6000-5BA75 | 8PQ5000-0BA08 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-7BA03 | 8PQ6000-5BA75 | 8PQ5000-0BA08 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-5BA46 | 8PQ6000-5BA76 | 8PQ5000-1BA65 | 8PQ5000-1BA68 | 8PQ5000-1BA67 |
| | 8PQ6000-7BA04 | 8PQ6000-5BA76 | 8PQ5000-1BA65 | 8PQ5000-1BA68 | 8PQ5000-1BA67 |
| | 8PQ6000-5BA45 | 8PQ6000-5BA75 | 8PQ5000-0BA07 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-7BA03 | 8PQ6000-5BA75 | 8PQ5000-0BA07 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-5BA45 | 8PQ6000-5BA75 | 8PQ5000-0BA07 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-7BA03 | 8PQ6000-5BA75 | 8PQ5000-0BA07 | 8PQ5000-0BA30 | 8PQ5000-0BA14 |
| | 8PQ6000-5BA46 | 8PQ6000-5BA76 | 8PQ5000-1BA66 | 8PQ5000-1BA68 | 8PQ5000-1BA67 |
| | 8PQ6000-7BA04 | 8PQ6000-5BA76 | 8PQ5000-1BA66 | 8PQ5000-1BA68 | 8PQ5000-1BA67 |

Section expansion

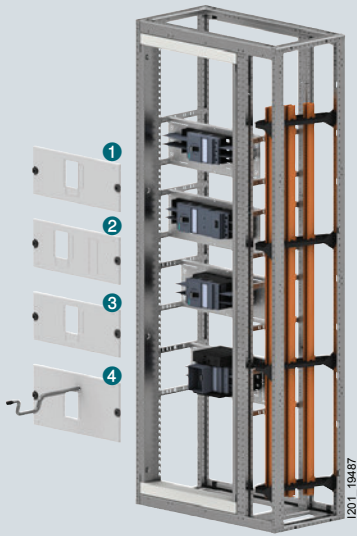
3WL air circuit breakers, accessories

| Busbar holders | Busbar connections |
|--|---|
| 1 set = 4 holders  | For use with SIVACON 8PS  |

| Size | Width | Number of poles | | |
|------|---------|-----------------|---------------|---------------|
| I | 600 mm | 3, 4 | 8PQ6000-4BA35 | 8PQ3000-1BA70 |
| | 800 mm | 3, 4 | 8PQ6000-4BA37 | 8PQ3000-1BA71 |
| II | 600 mm | 3 | 8PQ6000-4BA36 | 8PQ3000-1BA70 |
| | 800 mm | 3, 4 | 8PQ6000-4BA38 | 8PQ3000-1BA71 |
| III | 1000 mm | 3, 4 | 8PQ6000-4BA40 | 8PQ3000-1BA72 |

Section expansion

3VA molded case circuit breakers, internal cover, horizontal, 3-pole



1 Fixed-mounted version



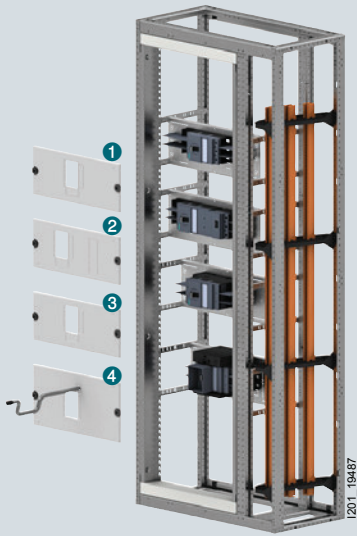
| Type | I _n | Width | Height | Operating mechanism | | | Device holders |
|------------------|----------------|--------|--------|---------------------|--------|-----------|----------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 600 mm | 150 mm | ■ | ■ | – | 8PQ6000-8BA01 |
| | | 800 mm | 150 mm | ■ | ■ | – | 8PQ6000-8BA02 |
| 3VA11 | 160 A | 600 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA01 |
| | | 800 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA02 |
| 3VA12 | 250 A | 600 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA03 |
| | | | – | – | – | – | |
| | | 800 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA07 |
| 3VA13 new | 400 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA23 |
| | | | 800 mm | 250 mm | ■ | ■ | ■ |
| | | – | – | – | – | | |
| | | 300 mm | – | – | – | | |
| 3VA14 new | 630 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA23 |
| | | | 800 mm | 250 mm | ■ | ■ | ■ |
| | | – | – | – | – | | |
| 3VA20 | 100 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | | – | – | – | – | |
| | | 800 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA21 | 160 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | | – | – | – | – | |
| | | 800 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA22 | 250 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | | – | – | – | – | |
| | | 800 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA23 | 400 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA23 |
| | | | 800 mm | 250 mm | ■ | – | – |
| | | – | – | – | – | | |
| 3VA24 | 630 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA23 |
| | | 800 mm | 250 mm | ■ | – | – | 8PQ6000-8BA27 |
| – | – | – | – | – | – | – | |

| ② Fixed-mounted version with RCD | | ③ Plug-in version | | | ④ Withdrawable version | |
|----------------------------------|-----------------------------|-------------------|----------------|---------------|------------------------|---------------|
| Covers | Device holders | Covers | Device holders | Covers | Device holders | Covers |
| 8PQ2015-6BA26 | – | – | – | – | – | – |
| 8PQ2015-8BA11 | – | – | – | – | – | – |
| 8PQ2015-6BA26 | 8PQ6000-8BA01 | 8PQ2015-6BA27 | 8PQ6000-8BA01 | 8PQ2015-6BA26 | – | – |
| 8PQ2015-8BA11 | 8PQ6000-8BA02 | 8PQ2015-8BA11 | 8PQ6000-8BA02 | 8PQ2015-8BA11 | – | – |
| 8PQ2015-6BA28 | 8PQ6000-8BA03 ¹⁾ | 8PQ2015-6BA30 | 8PQ6000-8BA04 | 8PQ2015-6BA28 | – | – |
| – | – | – | – | – | 8PQ6000-8BA04 | 8PQ2025-6BA21 |
| 8PQ2020-8BA20 | 8PQ6000-8BA07 | 8PQ2020-8BA20 | 8PQ6000-8BA07 | 8PQ2020-8BA20 | – | – |
| – | – | – | – | – | 8PQ6000-8BA07 | 8PQ2025-8BA12 |
| 8PQ2020-6BA41 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | – | – | – | – | – | – |
| – | – | – | 8PQ6001-1BA02 | 8PQ2025-8BA18 | – | – |
| – | – | – | – | – | 8PQ6001-1BA02 | 8PQ2030-8BA15 |
| 8PQ2020-6BA41 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | – | – | – | – | – | – |
| – | – | – | 8PQ6001-1BA02 | 8PQ2025-8BA14 | – | – |
| – | – | – | – | – | 8PQ6001-1BA02 | 8PQ2030-8BA15 |
| 8PQ2020-6BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2025-6BA22 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2025-8BA13 |
| 8PQ2020-6BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2025-6BA22 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2025-8BA13 |
| 8PQ2020-6BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2025-6BA22 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2025-8BA13 |
| 8PQ2020-6BA41 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | 8PQ6000-8BA27 | 8PQ2025-8BA14 | 8PQ6000-8BA28 | 8PQ2025-8BA14 | – | – |
| – | – | – | – | – | 8PQ6000-8BA28 | 8PQ2030-8BA14 |
| 8PQ2020-6BA41 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | 8PQ6000-8BA27 | 8PQ2025-8BA14 | 8PQ6000-8BA28 | 8PQ2025-8BA14 | – | – |
| – | – | – | – | – | 8PQ6000-8BA28 | 8PQ2030-8BA14 |

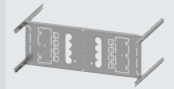
¹⁾ For applications >415 V, front mounted rotary operating mechanism or motorized operating mechanism required for compliance with safety clearances.

Section expansion

3VA molded case circuit breakers, internal cover, horizontal, 4-pole



1 Fixed-mounted version



| Type | I _n | Width | Height | Operating mechanism | | | Device holders |
|------------------|----------------|--------|--------|---------------------|--------|-----------|----------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 600 mm | 150 mm | ■ | ■ | – | 8PQ6000-8BA01 |
| | | 800 mm | 150 mm | ■ | ■ | – | 8PQ6000-8BA02 |
| 3VA11 | 160 A | 600 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA01 |
| | | 800 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA02 |
| 3VA12 | 250 A | 600 mm | 150 mm | ■ | ■ | ■ | 8PQ6000-8BA05 |
| | | 800 mm | 200 mm | ■ | – | – | – |
| | | | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA07 |
| 3VA13 new | 400 A | 600 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA25 |
| | | 800 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA27 |
| | | | – | – | – | – | |
| | | | 300 mm | ■ | – | – | – |
| 3VA14 new | 630 A | 600 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA25 |
| | | 800 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA27 |
| | | | – | – | – | – | |
| | | | 300 mm | ■ | – | – | – |
| 3VA20 | 100 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | 800 mm | 200 mm | ■ | – | – | – |
| | | | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA21 | 160 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | 800 mm | 200 mm | ■ | – | – | – |
| | | | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA22 | 250 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA08 |
| | | 800 mm | 200 mm | ■ | – | – | – |
| | | | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA10 |
| 3VA23 | 400 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA25 |
| | | 800 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA27 |
| | | | – | – | – | – | |
| 3VA24 | 630 A | 600 mm | 200 mm | ■ | ■ | ■ | 8PQ6000-8BA25 |
| | | 800 mm | 250 mm | ■ | ■ | ■ | 8PQ6000-8BA27 |
| | | | – | – | – | – | |

| ② Fixed-mounted version with RCD | | ③ Plug-in version | | | ④ Withdrawable version | |
|----------------------------------|-----------------------------|-------------------|----------------|---------------|------------------------|---------------|
| Covers | Device holders | Covers | Device holders | Covers | Device holders | Covers |
| 8PQ2015-6BA26 | – | – | – | – | – | – |
| 8PQ2015-8BA11 | – | – | – | – | – | – |
| 8PQ2015-6BA26 | 8PQ6000-8BA01 | 8PQ2015-6BA27 | 8PQ6000-8BA01 | 8PQ2015-6BA26 | – | – |
| 8PQ2015-8BA11 | 8PQ6000-8BA02 | 8PQ2015-8BA11 | 8PQ6000-8BA02 | 8PQ2015-8BA11 | – | – |
| 8PQ2020-6BA36 | 8PQ6000-8BA05 ¹⁾ | 8PQ2020-6BA37 | 8PQ6000-8BA06 | 8PQ2020-6BA36 | – | – |
| – | – | – | – | – | 8PQ6000-8BA06 | 8PQ2030-6BA25 |
| 8PQ2020-8BA20 | 8PQ6000-8BA07 | 8PQ2020-8BA20 | 8PQ6000-8BA07 | 8PQ2020-8BA20 | – | – |
| – | – | – | – | – | 8PQ6000-8BA07 | 8PQ2030-8BA12 |
| 8PQ2025-6BA23 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | – | – | – | – | – | – |
| – | – | – | 8PQ6001-1BA02 | 8PQ2025-8BA18 | – | – |
| – | – | – | – | – | 8PQ6001-1BA02 | 8PQ2030-8BA15 |
| 8PQ2025-6BA23 | – | – | – | – | – | – |
| 8PQ2025-8BA14 | – | – | – | – | – | – |
| – | – | – | 8PQ6001-1BA02 | 8PQ2025-8BA18 | – | – |
| – | – | – | – | – | 8PQ6001-1BA02 | 8PQ2030-8BA15 |
| 8PQ2020-6BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2030-6BA26 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2030-8BA13 |
| 8PQ2020-8BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2030-6BA26 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2030-8BA13 |
| 8PQ2020-8BA38 | 8PQ6000-8BA11 | 8PQ2020-6BA40 | 8PQ6000-8BA08 | 8PQ2020-6BA38 | – | – |
| – | – | – | – | – | 8PQ6000-8BA08 | 8PQ2030-6BA26 |
| 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | 8PQ6000-8BA10 | 8PQ2020-8BA21 | – | – |
| – | – | – | – | – | 8PQ6000-8BA10 | 8PQ2030-8BA13 |
| 8PQ2020-8BA23 | – | – | 8PQ6000-8BA26 | 8PQ2025-6BA23 | – | – |
| 8PQ2020-8BA14 | 8PQ6000-8BA27 | 8PQ2025-8BA14 | 8PQ6000-8BA28 | 8PQ2025-8BA14 | – | – |
| – | – | – | – | – | 8PQ6000-8BA28 | 8PQ2035-8BA15 |
| 8PQ2020-8BA23 | – | – | 8PQ6000-8BA26 | 8PQ2025-6BA23 | – | – |
| 8PQ2020-8BA14 | 8PQ6000-8BA27 | 8PQ2025-8BA14 | 8PQ6000-8BA28 | 8PQ2025-8BA14 | – | – |
| – | – | – | – | – | 8PQ6000-8BA28 | 8PQ2035-8BA15 |

¹⁾ For applications >415 V, front mounted rotary operating mechanism or motorized operating mechanism required for compliance with safety clearances.

Accessories

N-Link



Version

3VA10 (up to 100 A); 3VA11 (up to 160 A), 3VA12 (up to 250 A)

3VA23 (up to 400 A); 3VA24 (up to 630 A)

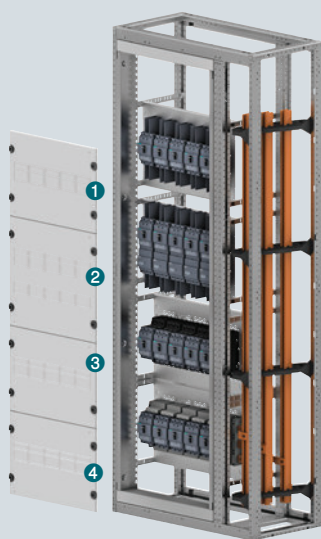
Article No.

8PQ6000-8BA31

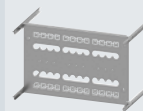
8PQ6000-8BA32

Section expansion

3VA molded case circuit breakers, internal cover, vertical, 3-pole



1 Fixed-mounted version

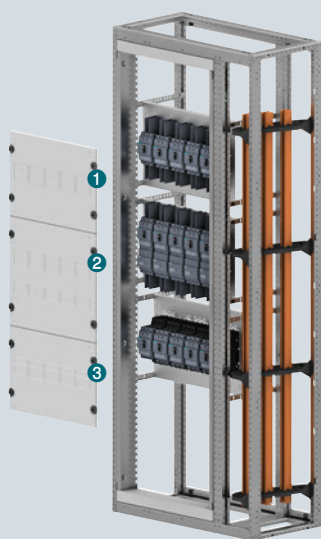


| Type | I_n | No. of switching devices | Width | Height | Operating mechanism | | | Device holders |
|------------------|-------|--------------------------|--------|--------|---------------------|--------|---------------|----------------|
| | | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 5 | 600 mm | 350 mm | ■ | ■ | – | 8PQ6000-8BA33 |
| | | 7 | 800 mm | 350 mm | ■ | ■ | – | 8PQ6000-8BA47 |
| 3VA11 | 160 A | 5 | 600 mm | 350 mm | ■ | ■ | ■ | 8PQ6000-8BA33 |
| | | 7 | 800 mm | 450 mm | ■ | ■ | ■ | – |
| | | | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA47 | |
| 3VA12 | 250 A | 3 | 600 mm | 400 mm | ■ | ■ | ■ | 8PQ6000-8BA35 |
| | | | 500 mm | ■ | ■ | ■ | – | |
| | | 5 | 800 mm | 400 mm | ■ | ■ | ■ | 8PQ6000-8BA43 |
| 3VA13 new | 400 A | 3 | 600 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA54 |
| | | | 550 mm | ■ | ■ | ■ | – | |
| | | 4 | 800 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA57 |
| 3VA14 new | 630 A | 3 | 600 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA54 |
| | | | 550 mm | ■ | ■ | ■ | – | |
| | | 4 | 800 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA57 |
| 3VA20 | 100 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | 5 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA50 |
| 3VA21 | 160 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | – |
| | | 5 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA50 |
| 3VA22 | 250 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | – |
| | | 5 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA50 |
| 3VA23 | 400 A | 3 | 600 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA54 |
| | | | | 600 mm | ■ | ■ | ■ | – |
| | | 4 | 800 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA57 |
| 3VA24 | 630 A | 3 | 600 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA54 |
| | | | | 600 mm | ■ | ■ | ■ | – |
| | | 4 | 800 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA57 |
| | | | | 600 mm | ■ | ■ | ■ | – |

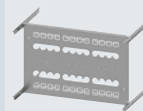
| ② Fixed-mounted version with RCD | | | ③ Plug-in version | | | ④ 8US design | |
|----------------------------------|----------------|---------------|-------------------|---------------|----------------|---------------|--|
| Covers | Device holders | Covers | Device holders | Covers | Device holders | Covers | |
| 8PQ2035-6BA26 | – | – | – | – | 8PQ6000-8BA33 | 8PQ2035-6BA26 | |
| 8PQ2035-8BA16 | – | – | – | – | 8PQ6000-8BA40 | 8PQ2035-8BA20 | |
| 8PQ2035-6BA26 | – | – | 8PQ6000-8BA33 | 8PQ2035-6BA26 | 8PQ6000-8BA33 | 8PQ2035-6BA26 | |
| – | 8PQ6000-8BA33 | 8PQ2045-6BA08 | – | – | – | – | |
| 8PQ2035-8BA16 | – | – | 8PQ6000-8BA47 | 8PQ2035-8BA16 | 8PQ6000-8BA40 | 8PQ2035-8BA20 | |
| – | 8PQ6000-8BA47 | 8PQ2045-8BA08 | – | – | – | – | |
| 8PQ2040-6BA26 | – | – | 8PQ6000-8BA36 | 8PQ2040-6BA26 | 8PQ6000-8BA36 | 8PQ2040-6BA26 | |
| – | 8PQ6000-8BA35 | 8PQ2050-6BA10 | – | – | – | – | |
| 8PQ2040-8BA23 | – | – | 8PQ6000-8BA44 | 8PQ2040-8BA23 | 8PQ6000-8BA41 | 8PQ2040-8BA23 | |
| – | 8PQ6000-8BA43 | 8PQ2050-8BA12 | – | – | – | – | |
| 8PQ2050-6BA11 | – | – | – | – | – | – | |
| – | – | – | 8PQ6000-8BA56 | 8PQ2055-6BA22 | – | – | |
| 8PQ2050-8BA14 | – | – | – | – | – | – | |
| – | – | – | 8PQ6000-8BA60 | 8PQ2055-6BA15 | – | – | |
| 8PQ2050-6BA11 | – | – | – | – | – | – | |
| – | – | – | 8PQ6000-8BA56 | 8PQ2055-6BA22 | – | – | |
| 8PQ2050-8BA14 | – | – | – | – | – | – | |
| – | – | – | 8PQ6000-8BA60 | 8PQ2055-6BA15 | – | – | |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 | 8PQ6000-8BA38 | 8PQ2045-6BA11 | |
| 8PQ2045-6BA13 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 | 8PQ6000-8BA38 | 8PQ2045-6BA13 | |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – | – | – | |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA21 | – | – | – | – | |
| 8PQ2045-8BA11 | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA11 | 8PQ6000-8BA42 | 8PQ2045-8BA11 | |
| 8PQ2045-8BA15 | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA15 | 8PQ6000-8BA42 | 8PQ2045-8BA15 | |
| – | 8PQ6000-8BA50 | 8PQ2055-8BA11 | – | – | – | – | |
| – | 8PQ6000-8BA50 | 8PQ2055-8BA13 | – | – | – | – | |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 | 8PQ6000-8BA38 | 8PQ2045-6BA11 | |
| – | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 | – | – | |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – | – | – | |
| – | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA11 | 8PQ6000-8BA42 | 8PQ2045-8BA11 | |
| 8PQ2045-8BA15 | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA15 | – | – | |
| – | 8PQ6000-8BA50 | 8PQ2055-8BA11 | – | – | – | – | |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 | 8PQ6000-8BA38 | 8PQ2045-6BA11 | |
| – | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 | – | – | |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – | – | – | |
| 8PQ2045-8BA11 | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA11 | 8PQ6000-8BA42 | 8PQ2045-8BA11 | |
| – | – | – | 8PQ6000-8BA51 | 8PQ2045-8BA15 | – | – | |
| – | 8PQ6000-8BA50 | 8PQ2055-8BA11 | – | – | – | – | |
| 8PQ2045-6BA12 | – | – | 8PQ6000-8BA56 | 8PQ2045-6BA12 | – | – | |
| – | 8PQ6000-8BA55 | 8PQ2060-6BA25 | – | – | – | – | |
| 8PQ2045-8BA13 | – | – | 8PQ6000-8BA60 | 8PQ2045-8BA13 | – | – | |
| – | 8PQ6000-8BA58 | 8PQ2060-8BA07 | – | – | – | – | |
| 8PQ2045-6BA12 | – | – | 8PQ6000-8BA56 | 8PQ2045-6BA12 | – | – | |
| – | 8PQ6000-8BA55 | 8PQ2060-6BA25 | – | – | – | – | |
| 8PQ2045-8BA13 | – | – | 8PQ6000-8BA60 | 8PQ2045-8BA13 | – | – | |
| – | 8PQ6000-8BA58 | 8PQ2060-8BA07 | – | – | – | – | |

Section expansion

3VA molded case circuit breakers, internal cover, vertical, 4-pole



1 Fixed-mounted version

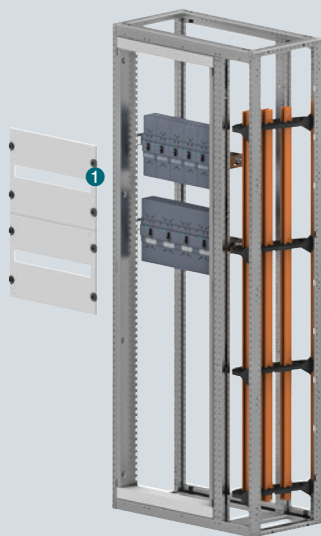


| Type | I_n | No. of switching devices | Width | Height | Operating mechanism | | | Device holders |
|------------------|-------|--------------------------|--------|--------|---------------------|--------|---------------|----------------|
| | | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 4 | 600 mm | 350 mm | ■ | ■ | – | 8PQ6000-8BA34 |
| | | 5 | 800 mm | 350 mm | ■ | ■ | – | 8PQ6000-8BA48 |
| 3VA11 | 160 A | 4 | 600 mm | 350 mm | ■ | ■ | ■ | 8PQ6000-8BA34 |
| | | | | 450 mm | ■ | ■ | ■ | – |
| | | 5 | 800 mm | 350 mm | ■ | ■ | ■ | 8PQ6000-8BA48 |
| | | | | 450 mm | ■ | ■ | ■ | – |
| 3VA12 | 250 A | 3 | 600 mm | 400 mm | ■ | ■ | ■ | 8PQ6000-8BA35 |
| | | | | 500 mm | ■ | ■ | ■ | – |
| | | 4 | 800 mm | 400 mm | ■ | ■ | ■ | 8PQ6000-8BA45 |
| | | | | 500 mm | ■ | ■ | ■ | – |
| 3VA13 new | 400 A | 2 | 600 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA64 |
| | | | | 550 mm | ■ | ■ | ■ | – |
| | | 800 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA61 | |
| | | | 550 mm | ■ | ■ | ■ | – | |
| 3VA14 new | 630 A | 2 | 600 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA64 |
| | | | | 550 mm | ■ | ■ | ■ | – |
| | | 800 mm | 500 mm | ■ | ■ | ■ | 8PQ6000-8BA61 | |
| | | | 550 mm | ■ | ■ | ■ | – | |
| 3VA20 | 100 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | | – | – | ■ | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | – |
| | | | – | – | ■ | – | | |
| | | 4 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA52 |
| | | | | | – | – | ■ | 8PQ6000-8BA52 |
| 550 mm | ■ | | | ■ | – | – | | |
| | | | | – | – | ■ | – | |
| 3VA21 | 160 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | | – | – | ■ | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | – |
| | | | – | – | ■ | – | | |
| | | 4 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA52 |
| | | | | | – | – | ■ | – |
| 550 mm | ■ | | | ■ | – | – | | |
| | | | | – | – | ■ | – | |
| 3VA22 | 250 A | 3 | 600 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA37 |
| | | | | | – | – | ■ | 8PQ6000-8BA37 |
| | | | | 550 mm | ■ | ■ | – | – |
| | | 4 | 800 mm | 450 mm | ■ | ■ | – | 8PQ6000-8BA52 |
| | | | | | – | – | ■ | 8PQ6000-8BA52 |
| | | | | 550 mm | ■ | ■ | – | – |
| 3VA23 | 400 A | 2 | 600 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA64 |
| | | | | 600 mm | ■ | ■ | ■ | – |
| | | 3 | 800 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA61 |
| | | | | 600 mm | ■ | ■ | ■ | – |
| 3VA24 | 630 A | 2 | 600 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA64 |
| | | | | 600 mm | ■ | ■ | ■ | – |
| | | 3 | 800 mm | 450 mm | ■ | ■ | ■ | 8PQ6000-8BA61 |
| | | | | 600 mm | ■ | ■ | ■ | – |

| ② Fixed-mounted version with RCD | | | ③ Plug-in version | |
|----------------------------------|----------------|---------------|-------------------|---------------|
| Covers | Device holders | Covers | Device holders | Covers |
| 8PQ2035-6BA27 | – | – | – | – |
| 8PQ2035-8BA17 | – | – | – | – |
| 8PQ2035-6BA27 | – | – | 8PQ6000-8BA34 | 8PQ2035-6BA27 |
| – | 8PQ6000-8BA34 | 8PQ2045-6BA10 | – | – |
| 8PQ2035-8BA17 | – | – | 8PQ6000-8BA48 | 8PQ2035-8BA17 |
| – | 8PQ6000-8BA48 | 8PQ2045-8BA10 | – | – |
| 8PQ2040-6BA26 | – | – | 8PQ6000-8BA36 | 8PQ2040-6BA26 |
| – | 8PQ6000-8BA35 | 8PQ2050-6BA10 | – | – |
| 8PQ2040-8BA24 | – | – | 8PQ6000-8BA46 | 8PQ2040-8BA24 |
| – | 8PQ6000-8BA45 | 8PQ2050-8BA13 | – | – |
| 8PQ2050-6BA12 | – | – | – | – |
| – | – | – | 8PQ6000-8BA66 | 8PQ2055-6BA23 |
| 8PQ2050-8BA15 | – | – | – | – |
| – | – | – | 8PQ6000-8BA63 | 8PQ2055-8BA16 |
| 8PQ2050-6BA12 | – | – | – | – |
| – | – | – | 8PQ6000-8BA66 | 8PQ2055-6BA23 |
| 8PQ2050-8BA15 | – | – | – | – |
| – | – | – | 8PQ6000-8BA63 | 8PQ2055-8BA15 |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 |
| 8PQ2045-6BA13 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA21 | – | – |
| 8PQ2045-8BA12 | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA12 |
| 8PQ2045-8BA16 | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA16 |
| – | 8PQ6000-8BA52 | 8PQ2055-8BA12 | – | – |
| – | 8PQ6000-8BA52 | 8PQ2055-8BA14 | – | – |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 |
| 8PQ2045-6BA13 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA21 | – | – |
| 8PQ2045-8BA12 | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA12 |
| – | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA16 |
| – | 8PQ6000-8BA52 | 8PQ2055-8BA12 | – | – |
| – | 8PQ6000-8BA52 | 8PQ2055-8BA14 | – | – |
| 8PQ2045-6BA11 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA11 |
| 8PQ2045-6BA13 | – | – | 8PQ6000-8BA38 | 8PQ2045-6BA13 |
| – | 8PQ6000-8BA37 | 8PQ2055-6BA20 | – | – |
| 8PQ2045-8BA12 | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA12 |
| 8PQ2045-8BA16 | – | – | 8PQ6000-8BA53 | 8PQ2045-8BA16 |
| – | 8PQ6000-8BA52 | 8PQ2055-8BA12 | – | – |
| 8PQ2045-6BA14 | – | – | 8PQ6000-8BA66 | 8PQ2045-6BA14 |
| – | 8PQ6000-8BA65 | 8PQ2060-6BA26 | – | – |
| 8PQ2045-8BA14 | – | – | 8PQ6000-8BA63 | 8PQ2045-8BA14 |
| – | 8PQ6000-8BA62 | 8PQ2060-8BA08 | – | – |
| 8PQ2045-6BA14 | – | – | 8PQ6000-8BA66 | 8PQ2045-6BA14 |
| – | 8PQ6000-8BA65 | 8PQ2060-6BA26 | – | – |
| 8PQ2045-8BA14 | – | – | 8PQ6000-8BA63 | 8PQ2045-8BA14 |
| – | 8PQ6000-8BA62 | 8PQ2060-8BA08 | – | – |

Section expansion

3VA molded case circuit breakers, internal cover, vertical



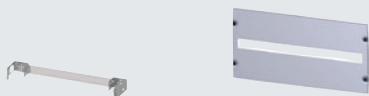
3-pole

| Type | I_n | No. of switching devices | Width | Height | Operating mechanism | | |
|-------|-------|--------------------------|--------|--------|---------------------|--------|-----------|
| | | | | | Direct | Rotary | Motorized |
| 3VA10 | 100 A | 5 | 600 mm | 350 mm | ■ | – | – |
| | | 8 | 800 mm | 350 mm | ■ | – | – |
| 3VA11 | 160 A | 4 | 600 mm | 350 mm | ■ | – | – |
| | | 5 | 800 mm | 350 mm | ■ | – | – |

4-pole

| Type | I_n | No. of switching devices | Width | Height | Operating mechanism | | |
|-------|-------|--------------------------|--------|--------|---------------------|--------|-----------|
| | | | | | Direct | Rotary | Motorized |
| 3VA10 | 100 A | 4 | 600 mm | 350 mm | ■ | – | – |
| | | 6 | 800 mm | 350 mm | ■ | – | – |
| 3VA11 | 160 A | 3 | 600 mm | 350 mm | ■ | – | – |
| | | 4 | 800 mm | 350 mm | ■ | – | – |

1 Standard rail mounting

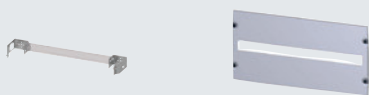


Device holders

Covers

| | |
|---------------|---------------|
| 8PQ6000-3BA36 | 8PQ2035-6BA28 |
| 8PQ6000-3BA37 | 8PQ2035-8BA18 |
| 8PQ6000-3BA36 | 8PQ2035-6BA28 |
| 8PQ6000-3BA37 | 8PQ2035-8BA18 |

1 Standard rail mounting



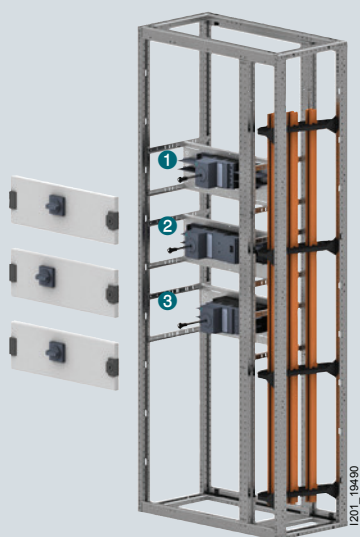
Device holders

Covers

| | |
|---------------|---------------|
| 8PQ6000-3BA36 | 8PQ2035-6BA28 |
| 8PQ6000-3BA37 | 8PQ2035-8BA18 |
| 8PQ6000-3BA36 | 8PQ2035-6BA28 |
| 8PQ6000-3BA37 | 8PQ2035-8BA18 |

Section expansion

3VA molded case circuit breakers, modular door, horizontal



3-pole

| Type | I_n | Width | Height | Device holders | Modular doors |
|------------------|-------|--------|--------|----------------|---------------|
| 3VA10 | 100 A | 600 mm | 150 mm | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| | | 800 mm | 150 mm | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 3VA11 | 160 A | 600 mm | 150 mm | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| | | 800 mm | 150 mm | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 3VA12 | 250 A | 600 mm | 150 mm | 8PQ6000-8BA03 | 8PQ2015-6BA34 |
| 3VA13 new | 400 A | 600 mm | 200 mm | 8PQ6000-8BA23 | 8PQ2020-6BA46 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |
| 3VA14 new | 630 A | 600 mm | 200 mm | 8PQ6000-8BA23 | 8PQ2020-6BA46 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |
| 3VA20 | 100 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA21 | 160 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA22 | 250 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA23 | 400 A | 600 mm | 200 mm | 8PQ6000-8BA23 | 8PQ2020-6BA46 |
| 3VA24 | 630 A | 600 mm | 200 mm | 8PQ6000-8BA23 | 8PQ2020-6BA46 |

Fixed-mounted version

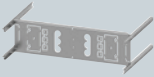





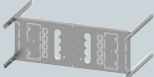



4-pole

| Type | I_n | Width | Height | Device holders | Modular doors |
|------------------|-------|--------|--------|----------------|---------------|
| 3VA10 | 100 A | 600 mm | 150 mm | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| | | 800 mm | 150 mm | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 3VA11 | 160 A | 600 mm | 150 mm | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| | | 800 mm | 150 mm | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 3VA12 | 250 A | 600 mm | 200 mm | 8PQ6000-8BA05 | 8PQ2020-6BA42 |
| | | 800 mm | 200 mm | 8PQ6000-8BA07 | 8PQ2020-8BA22 |
| 3VA13 new | 400 A | 600 mm | 250 mm | 8PQ6000-8BA25 | 8PQ2025-6BA24 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |
| 3VA14 new | 630 A | 600 mm | 250 mm | 8PQ6000-8BA25 | 8PQ2025-6BA24 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |
| 3VA20 | 100 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA21 | 160 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA22 | 250 A | 600 mm | 200 mm | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| | | 800 mm | 200 mm | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 3VA23 | 400 A | 600 mm | 250 mm | 8PQ6000-8BA25 | 8PQ2025-6BA24 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |
| 3VA24 | 630 A | 600 mm | 250 mm | 8PQ6000-8BA25 | 8PQ2025-6BA24 |
| | | 800 mm | 250 mm | 8PQ6000-8BA27 | 8PQ2025-8BA15 |

Fixed-mounted version

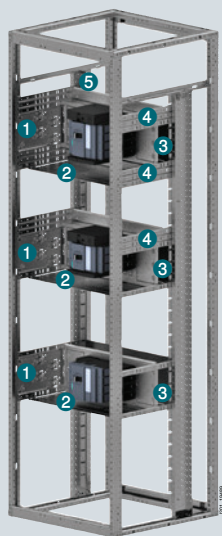


| Fixed-mounted version with RCD | | Plug-in version | |
|--|---|---|---|
|  |  |  |  |
| Device holders | Modular doors | Device holders | Modular doors |
| – | – | – | – |
| – | – | – | – |
| 8PQ6000-8BA01 | 8PQ2015-6BA33 | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| 8PQ6000-8BA02 | 8PQ2015-8BA12 | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 8PQ6000-8BA03 | 8PQ2015-6BA35 | 8PQ6000-8BA04 | 8PQ2015-6BA34 |
| – | – | – | – |
| – | – | 8PQ6001-1BA02 | 8PQ2025-8BA15 |
| – | – | – | – |
| – | – | 8PQ6001-1BA02 | 8PQ2025-8BA15 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| – | – | 8PQ6000-8BA24 | 8PQ2020-6BA46 |
| – | – | 8PQ6000-8BA24 | 8PQ2020-6BA46 |

| Fixed-mounted version with RCD | | Plug-in version | |
|--|---|---|---|
|  |  |  |  |
| Device holders | Modular doors | Device holders | Modular doors |
| – | – | – | – |
| – | – | – | – |
| 8PQ6000-8BA01 | 8PQ2015-6BA33 | 8PQ6000-8BA01 | 8PQ2015-6BA31 |
| 8PQ6000-8BA02 | 8PQ2015-8BA12 | 8PQ6000-8BA02 | 8PQ2015-8BA12 |
| 8PQ6000-8BA05 | 8PQ2020-6BA43 | 8PQ6000-8BA06 | 8PQ2020-6BA42 |
| 8PQ6000-8BA07 | 8PQ2020-8BA22 | 8PQ6000-8BA07 | 8PQ2020-8BA22 |
| – | – | – | – |
| – | – | 8PQ6001-1BA02 | 8PQ2025-8BA15 |
| – | – | – | – |
| – | – | 8PQ6001-1BA02 | 8PQ2025-8BA15 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| 8PQ6000-8BA11 | 8PQ2020-6BA45 | 8PQ6000-8BA08 | 8PQ2020-6BA44 |
| 8PQ6000-8BA10 | 8PQ2020-8BA23 | 8PQ6000-8BA10 | 8PQ2020-8BA23 |
| – | – | 8PQ6000-8BA26 | 8PQ2025-6BA24 |
| 8PQ6000-8BA27 | 8PQ2025-8BA15 | 8PQ6000-8BA28 | 8PQ2025-8BA15 |
| – | – | 8PQ6000-8BA26 | 8PQ2025-6BA24 |
| 8PQ6000-8BA27 | 8PQ2025-8BA15 | 8PQ6000-8BA28 | 8PQ2025-8BA15 |

Section expansion

3VA molded case circuit breakers, internal separation – front connection







3-pole, width 600 mm

1 Cable connection

4 units

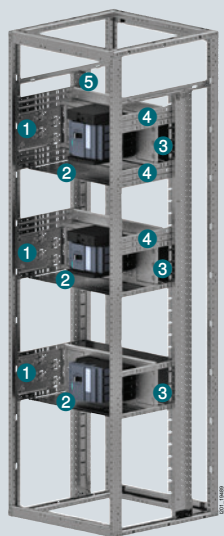


| Type | I _n | Height | | Operating mechanism | | | |
|------------------|----------------|------------------|---------------|---------------------|---------------|---------------|-------------------------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| 3VA12 | 250 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA12 |
| | | | – | – | ■ | 8PQ6000-8BA13 | |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA13 |
| | | – | – | ■ | 8PQ6000-8BA12 | | |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ6000-8BA12 |
| | | 3VA13 new | 400 A | 200 mm | Fixed-mounted | ■ | ■ |
| 3VA14 new | 630 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ6000-8BA20 |
| 3VA20 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 |
| 3VA21 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA16 |
| | | | – | – | ■ | 8PQ6000-8BA17 | |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA17 |
| | | – | – | ■ | 8PQ6000-8BA16 | | |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ6000-8BA16 |
| 3VA23 | 400 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA20 |
| | | | – | – | ■ | 8PQ6000-8BA18 | |
| 3VA24 | 630 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ6000-8BA20 |
| | | | – | – | – | 8PQ6000-8BA18 | |

| ⊖ Separation, horizontal | ⊖ Separation, rear | ⬇ Increase in module height | Horizontal separation with increase in module height |
|--|---|---|--|
|  |  |  |  |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA40 | 2× 8PQ5000-4BA60 | 2× 8PQ5000-4BA68 |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | 8PQ5000-4BA62 | 8PQ5000-4BA70 |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | 8PQ5000-4BA62 | 8PQ5000-4BA70 |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | 8PQ5000-4BA62 | 8PQ5000-4BA70 |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |
| 8PQ5000-2BA61 | 8PQ5000-4BA41 | – | – |

Section expansion

3VA molded case circuit breakers, internal separation – front connection






3-pole, width 800 mm

1 Cable connection

4 units

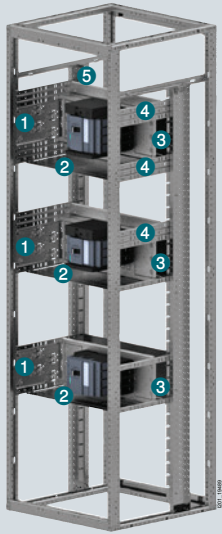


| Type | I _n | Height | Operating mechanism | Operating mechanism | | | |
|------------------|----------------|--------|---------------------|---------------------|---------------|-----------|-------------------------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ6000-8BA14 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ6000-8BA21 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |
| Plug-in | ■ | | ■ | ■ | 8PQ6000-8BA21 | | |
| 3VA20 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| 3VA21 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA16 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA17 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ6000-8BA16 |
| 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |

| ② Separation, horizontal | ③ Separation, rear | ④ Increase in module height |
|--|---|---|
|  |  |  |
| 8PQ5000-2BA62 | – | – |
| 8PQ5000-2BA62 | – | – |
| 8PQ5000-2BA62 | – | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | 8PQ5000-4BA61 + 8PQ5000-4BA71 |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA48 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |

Section expansion

3VA molded case circuit breakers, internal separation – front connection







4-pole, width 600 mm

1 Cable connection

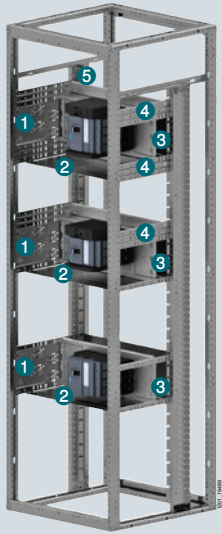


| Type | I _n | Height | | Operating mechanism | | | Terminals |
|------------------|----------------|--------|---------------|---------------------|--------|-----------|-------------------------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-0BA05 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA14 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA15 |
| | | 300 mm | Fixed-mounted | ■ | – | ■ | 8PQ6000-8BA14 |
| | | | Withdrawable | ■ | – | ■ | 8PQ6000-8BA14 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA21 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA21 |
| 3VA20 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | – | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| 3VA21 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | | Plug-in | ■ | ■ | – | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-0BA05 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA16 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA17 |
| | | 300 mm | Fixed-mounted | ■ | – | ■ | 8PQ6000-8BA17 |
| | | | Withdrawable | ■ | – | ■ | 8PQ6000-8BA17 |
| 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ6000-8BA21 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA21 |

| | ② Separation, horizontal | ③ Separation, rear | ④ Increase in module height |
|---|---|---|--|
|  |  |  |  |
| 4th pole | | | |
| | 8PQ5000-2BA61 | 8PQ5000-4BA40 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA40 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA40 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | 2x 8PQ5000-4BA60 + 2x 8PQ5000-4BA68 |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA41 | 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 |
| + 8PQ5000-4BA58 | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| + 8PQ5000-4BA58 | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| + 8PQ5000-4BA58 | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| + 8PQ5000-4BA58 | 8PQ5000-2BA61 | 8PQ5000-4BA41 | - |
| + 8PQ5000-4BA58 | 8PQ5000-2BA61 | 8PQ5000-4BA41 | 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |
| | 8PQ5000-2BA61 | 8PQ5000-4BA42 | - |

Section expansion

3VA molded case circuit breakers, internal separation – front connection



4-pole, width 800 mm

1 Cable connection



| Type | I _n | Height | Operating mechanism | Operating mechanism | | | Terminals |
|------------------|----------------|--------|---------------------|---------------------|--------|-----------|-------------------------------|
| | | | | Direct | Rotary | Motorized | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 + 8PQ5000-OBA05 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA14 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA15 |
| | | 300 mm | Fixed-mounted | – | – | ■ | 8PQ6000-8BA14 |
| | | | Plug-in | ■ | – | ■ | 8PQ6000-8BA14 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ6000-8BA21 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ6000-8BA22 |
| 3VA20 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| 3VA21 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 + 8PQ5000-OBA05 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA16 |
| | | | Plug-in | ■ | ■ | – | 8PQ6000-8BA17 |
| | | 300 mm | Fixed-mounted | – | – | ■ | 8PQ6000-8BA16 |
| | | | Plug-in | ■ | – | ■ | 8PQ6000-8BA16 |
| 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ6000-8BA21 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | – | 8PQ6000-8BA22 |
| | | | Plug-in | – | – | ■ | 8PQ6000-8BA21 |


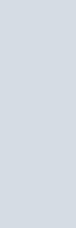
| | ② Separation, horizontal | ③ Separation, rear | ④ Increase in module height |
|---|---|---|--|
|  |  |  |  |
| 4th pole | | | |
| | 8PQ5000-2BA62 | – | – |
| | 8PQ5000-2BA62 | – | – |
| | 8PQ5000-2BA62 | – | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | 2x 8PQ5000-4BA61 + 2x 8PQ5000-4BA71 |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | 8PQ5000-4BA63 + 8PQ5000-4BA72 |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA48 | 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 |
| + 8PQ5000-4BA58 | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| + 8PQ5000-4BA58 | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| + 8PQ5000-4BA58 | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| + 8PQ5000-4BA58 | 8PQ5000-2BA62 | 8PQ5000-4BA48 | – |
| + 8PQ5000-4BA58 | 8PQ5000-2BA62 | 8PQ5000-4BA48 | 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |
| | 8PQ5000-2BA62 | 8PQ5000-4BA50 | – |

Section expansion

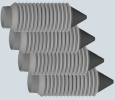
3VA molded case circuit breakers, internal separation – front connection

Accessories

⑥ Plug-in rails

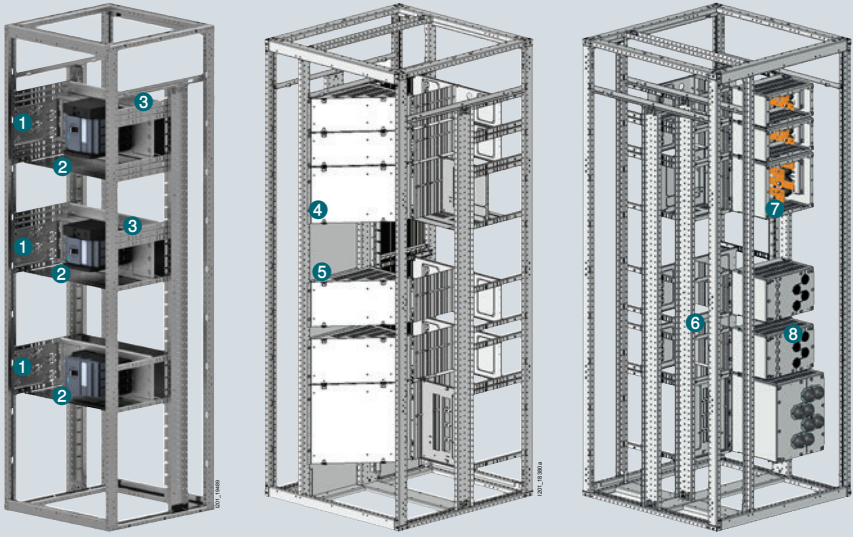
| | Equipment height | Busbar system | Article No. |
|---|------------------|-----------------|---------------|
|  | 1600 mm | Top | 8PQ3000-0BA82 |
|  | 1800 mm | Rear or without | 8PQ3000-0BA83 |

Protective bellows

| | Version | Scope of supply | Article No. |
|---|-------------------------|-----------------|---------------|
|  | For connecting terminal | 4 units | 8PQ9400-0BA71 |

Section expansion

3VA molded case circuit breakers, internal separation – rear connection



3-pole, width 600 mm

① Side ② Horizontal



| Type | I _n | Height | Operating mechanism | Operating mechanism | | | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
|------------------|----------------|--------|---------------------|---------------------|--------|-----------|---------------|---------------|
| | | | | Direct | Rotary | Motorized | | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| 3VA12 | 250 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| 3VA13 new | 400 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA31 | 8PQ5000-2BA61 |
| 3VA14 new | 630 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA31 | 8PQ5000-2BA61 |
| 3VA20 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA21 | 160 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 250 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA23 | 400 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA31 | 8PQ5000-2BA61 |
| 3VA24 | 630 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA31 | 8PQ5000-2BA61 |

③ Increase in module height

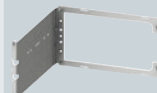
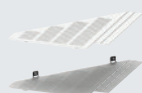
④ Vertical busbar connection

⑤ Segment covers

⑥ Support plates

⑦ Connection compartments

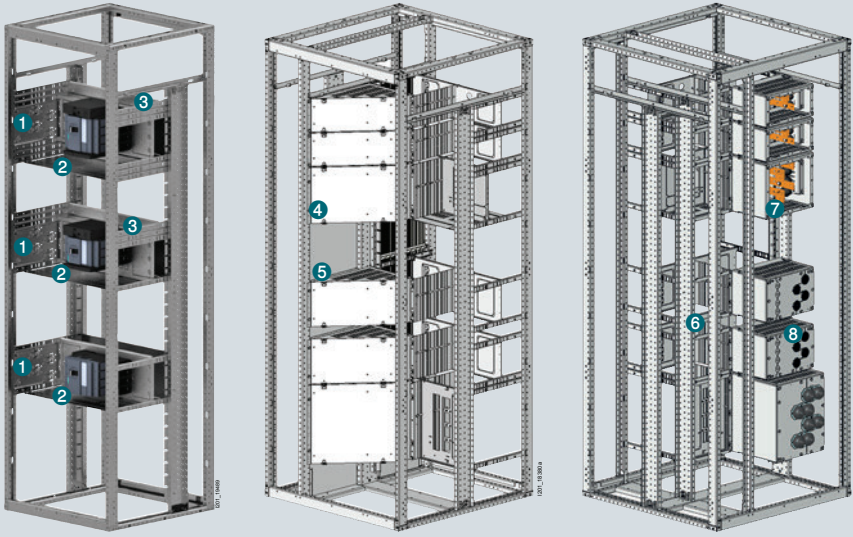
⑧ Cover plates



| | | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|
| – | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| – | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| – | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| – | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA15 | 8PQ5000-3BA71 |
| – | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA15 | 8PQ5000-3BA71 |
| 2x 8PQ5000-4BA60 + 2x 8PQ5000-4BA68 | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA15 | 8PQ5000-3BA71 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA18 | 8PQ5000-3BA73 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA18 | 8PQ5000-3BA73 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 8PQ5000-4BA62 + 8PQ5000-4BA70 | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 8PQ5000-4BA62 + 8PQ5000-4BA70 | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| 8PQ5000-4BA62 + 8PQ5000-4BA70 | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA18 | 8PQ5000-3BA73 |
| – | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA18 | 8PQ5000-3BA73 |

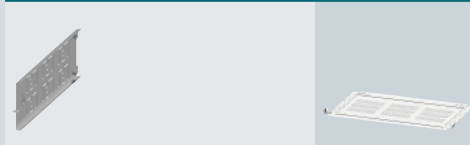
Section expansion

3VA molded case circuit breakers, internal separation – rear connection



4-pole, width 600 mm

① Side ② Horizontal



| Type | I _n | Height | Operating mechanism | Operating mechanism | | | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
|------------------|----------------|--------|---------------------|---------------------|--------|-----------|---------------|---------------|
| | | | | Direct | Rotary | Motorized | | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | – | 8PQ5000-2BA28 | 8PQ5000-2BA61 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA61 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA61 |
| 3VA20 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA21 | 160 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| | | 300 mm | Withdrawable | ■ | – | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA61 |
| 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA61 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA61 |

15

3 Increase in module height

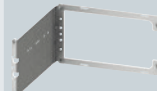
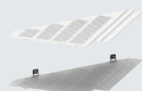
4 Vertical busbar connection

5 Segment covers

6 Support plates

7 Connection compartments

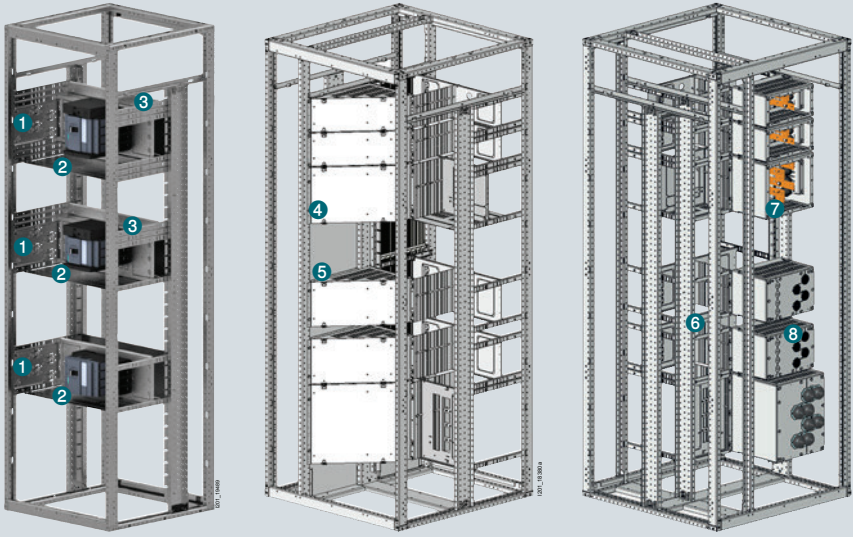
8 Cover plates



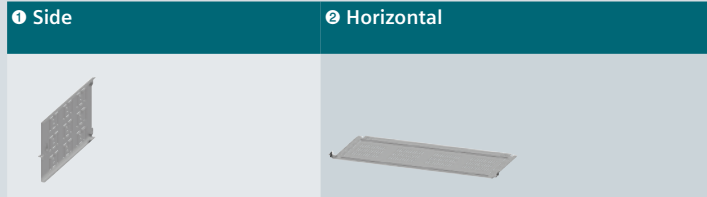
| | | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|
| - | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA52 | 8PQ5000-3BA63 | 8PQ5000-4BA73 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA60 + 2x 8PQ5000-4BA68 | 8PQ5000-3BA55 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA75 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA75 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 | 8PQ5000-3BA55 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 | 8PQ5000-3BA55 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA53 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA62 + 2x 8PQ5000-4BA70 | 8PQ5000-3BA55 | 8PQ5000-3BA63 | 8PQ5000-4BA74 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA75 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA54 | 8PQ5000-3BA63 | 8PQ5000-4BA75 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |

Section expansion

3VA molded case circuit breakers, internal separation – rear connection



3-pole, width 800 mm



| Type | I _n | Height | Operating mechanism | Operating mechanism | | | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
|------------------|----------------|--------|---------------------|---------------------|--------|-----------|---------------|---------------|
| | | | | Direct | Rotary | Motorized | | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | – | – | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | – | – | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 250 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA20 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 250 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA21 | 160 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 250 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 250 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |

③ Increase in module height

④ Vertical busbar connection

⑤ Segment covers

⑥ Support plates

⑦ Connection compartments

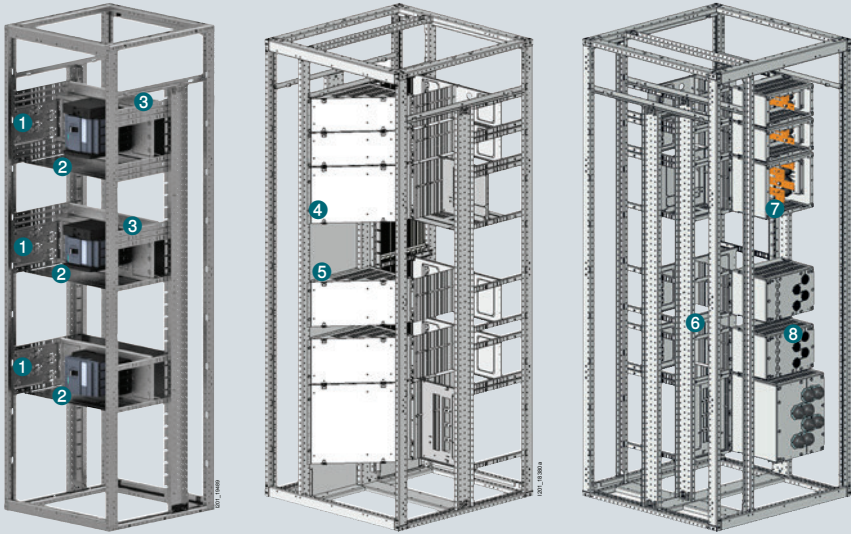
⑧ Cover plates



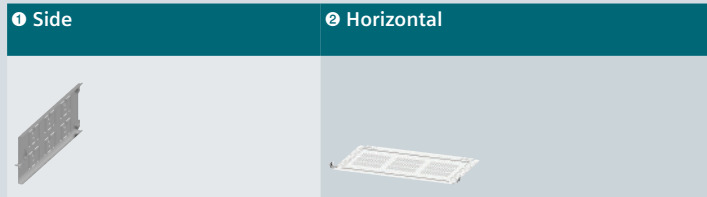
| | | | | | | |
|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| - | | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| 8PQ5000-4BA61 | + 8PQ5000-4BA71 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-8BA30 | 8PQ5000-3BA72 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 | + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |

Section expansion

3VA molded case circuit breakers, internal separation – rear connection



4-pole, width 800 mm



| Type | I _n | Height | Operating mechanism | Operating mechanism | | | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
|------------------|----------------|--------|---------------------|---------------------|---------------|-----------|---------------|---------------|
| | | | | Direct | Rotary | Motorized | | |
| 3VA10 | 100 A | 150 mm | Fixed-mounted | ■ | ■ | – | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| 3VA11 | 160 A | 150 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA28 | 8PQ5000-2BA62 |
| 3VA12 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA13 new | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA14 new | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA20 | 100 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA21 | 160 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA22 | 250 A | 200 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| 3VA22 | 250 A | 300 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA30 | 8PQ5000-2BA62 |
| | | 3VA23 | 400 A | 250 mm | Fixed-mounted | ■ | ■ | ■ |
| Plug-in | ■ | | | | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 350 mm | Withdrawable | | | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| 3VA24 | 630 A | 250 mm | Fixed-mounted | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | | Plug-in | ■ | ■ | ■ | 8PQ5000-2BA33 | 8PQ5000-2BA62 |
| | | 350 mm | Withdrawable | ■ | – | – | 8PQ5000-2BA33 | 8PQ5000-2BA62 |

③ Increase in module height

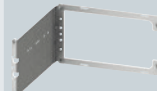
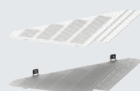
④ Vertical busbar connection

⑤ Segment covers

⑥ Support plates

⑦ Connection compartments

⑧ Cover plates



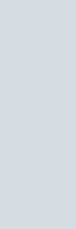
| | | | | | |
|-------------------------------------|---------------|---------------|---------------|---------------|---------------|
| - | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA57 | 8PQ5000-3BA64 | 8PQ5000-4BA76 | 8PQ6000-5BA13 | 8PQ5000-4BA80 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA61 + 2x 8PQ5000-4BA71 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 8PQ5000-4BA63 + 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA14 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 | 8PQ5000-3BA58 | 8PQ5000-3BA64 | 8PQ5000-4BA77 | 8PQ6000-5BA17 | 8PQ5000-3BA72 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| - | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |
| 2x 8PQ5000-4BA63 + 2x 8PQ5000-4BA72 | 8PQ5000-3BA60 | 8PQ5000-3BA64 | 8PQ5000-4BA78 | 8PQ6000-5BA20 | 8PQ5000-3BA74 |

Section expansion

3VA molded case circuit breakers, internal separation – rear connection

Accessories

6 Plug-in rails

| | Equipment height | Busbar system | Article No. |
|---|------------------|-----------------|---------------|
|  | 1600 mm | Top | 8PQ3000-0BA82 |
|  | 1800 mm | Rear or without | 8PQ3000-0BA83 |

Section expansion

3K switch disconnectors



Horizontal

3-pole



4-pole



| Switching devices | Width | Height | Device holders | Covers | Device holders | Covers |
|-----------------------------|--------|--------|----------------|---------------|----------------|---------------|
| 3KL50/3KL52 | 600 mm | 250 mm | – | – | – | – |
| | | 300 mm | 8PQ6000-2BA65 | 8PQ2030-6BA06 | 8PQ6000-2BA65 | 8PQ2030-6BA06 |
| 3KL55/3KL57 | 600 mm | 350 mm | 8PQ6000-2BA71 | 8PQ2035-6BA08 | 8PQ6000-2BA71 | 8PQ2035-6BA08 |
| 3KL61 | 600 mm | 450 mm | – | – | – | – |
| | | 550 mm | 8PQ6000-2BA50 | 8PQ2055-6BA02 | 8PQ6000-2BA50 | 8PQ2055-6BA02 |
| 3KL711/3KA711 | 600 mm | 200 mm | 8PQ6000-2BA52 | 8PQ2020-6BA10 | 8PQ6000-2BA52 | 8PQ2020-6BA10 |
| | 800 mm | 200 mm | – | – | – | – |
| 3KL712/3KA712 | 600 mm | 250 mm | 8PQ6000-2BA55 | 8PQ2025-6BA03 | 8PQ6000-2BA55 | 8PQ2025-6BA03 |
| | 800 mm | 250 mm | – | – | – | – |
| 3KL713/3KA713 | 600 mm | 300 mm | 8PQ6000-2BA58 | 8PQ2030-6BA04 | 8PQ6000-2BA58 | 8PQ2030-6BA04 |
| | 800 mm | 300 mm | – | – | – | – |
| 3KL714/3KA714 | 600 mm | 350 mm | 8PQ6000-2BA62 | 8PQ2035-6BA06 | 8PQ6000-2BA62 | 8PQ2035-6BA06 |
| | 800 mm | 350 mm | – | – | – | – |
| 3KL715/3KA715 ¹⁾ | 600 mm | 450 mm | 8PQ6000-2BA67 | 8PQ2045-6BA02 | 8PQ6000-2BA67 | 8PQ2045-6BA02 |
| | 800 mm | 450 mm | – | – | – | – |

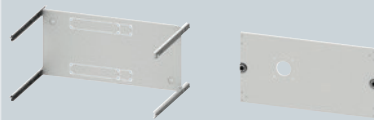
¹⁾ Due to the size of its handle, the 3KA715 disconnector can be used only up to 1250 A/35 kA when installed horizontally.
Due to the size of its handle, the 1250 A/50 kA 3KA715 disconnector requires an additional 200 mm cover.

⊖ Vertical

3-pole



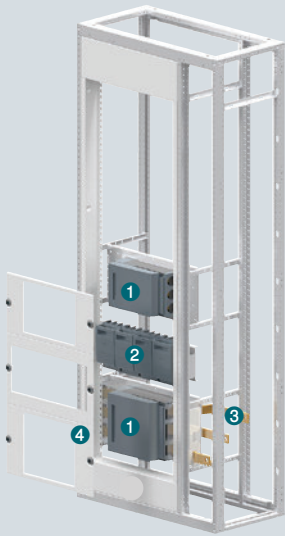
4-pole



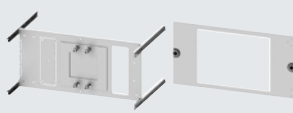
| 3-pole | | 4-pole | |
|----------------|---------------|----------------|---------------|
| Device holders | Covers | Device holders | Covers |
| 8PQ6000-2BA66 | 8PQ2025-6BA05 | 8PQ6000-2BA66 | 8PQ2025-6BA05 |
| – | – | – | – |
| 8PQ6000-2BA72 | 8PQ2035-6BA10 | 8PQ6000-2BA72 | 8PQ2035-6BA10 |
| 8PQ6000-2BA51 | 8PQ2045-6BA01 | – | – |
| – | – | – | – |
| 8PQ6000-2BA53 | 8PQ2020-6BA11 | 8PQ6000-2BA53 | 8PQ2020-6BA11 |
| 8PQ6000-2BA54 | 8PQ2020-8BA04 | 8PQ6000-2BA54 | 8PQ2020-8BA04 |
| 8PQ6000-2BA56 | 8PQ2025-6BA04 | 8PQ6000-2BA56 | 8PQ2025-6BA04 |
| 8PQ6000-2BA57 | 8PQ2025-8BA02 | 8PQ6000-2BA57 | 8PQ2025-8BA02 |
| 8PQ6000-2BA60 | 8PQ2030-6BA05 | 8PQ6000-2BA60 | 8PQ2030-6BA05 |
| 8PQ6000-2BA61 | 8PQ2030-8BA02 | 8PQ6000-2BA61 | 8PQ2030-8BA02 |
| 8PQ6000-2BA63 | 8PQ2035-6BA07 | 8PQ6000-2BA63 | 8PQ2035-6BA07 |
| 8PQ6000-2BA64 | 8PQ2035-8BA04 | 8PQ6000-2BA64 | 8PQ2035-8BA04 |
| 8PQ6000-2BA68 | 8PQ2045-6BA03 | 8PQ6000-2BA68 | 8PQ2045-6BA03 |
| 8PQ6000-2BA70 | 8PQ2045-8BA01 | 8PQ6000-2BA70 | 8PQ2045-8BA01 |

Section expansion

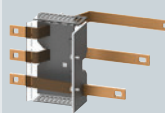
3NP1 fuse switch disconnectors, 3-pole



1 Horizontal



2 Section busbars



3 Cable connection



| Switching devices | Width | Device holders | Covers | Section busbars | Cable connection |
|-------------------|--------|----------------|---------------|-----------------|-------------------------|
| 3NP1143 | 600 mm | 8PQ6000-3BA75 | 8PQ2025-6BA16 | 8PQ6000-5BA68 | Form 3 8PQ6000-5BA72 |
| 3NP1153 | 600 mm | 8PQ6000-3BA75 | 8PQ2025-6BA17 | 8PQ6000-5BA70 | 8PQ6000-5BA73 |
| 3NP1163 | 600 mm | 8PQ6000-3BA77 | 8PQ2030-6BA22 | 8PQ6000-5BA71 | 8PQ6000-5BA74 |

2 Vertical






| Switching device | Width | No. of switching devices | Device holders | Covers |
|------------------|--------|--------------------------|----------------|---------------|
| 3NP1123 | 600 mm | 4 | 8PQ6000-3BA78 | 8PQ2025-6BA18 |
| | 800 mm | 6 | 8PQ6000-3BA82 | 8PQ2025-8BA10 |
| 3NP1133 | 600 mm | 4 | 8PQ6000-3BA78 | 8PQ2030-6BA23 |
| | 800 mm | 5 | 8PQ6000-3BA82 | 8PQ2030-8BA11 |

Section expansion

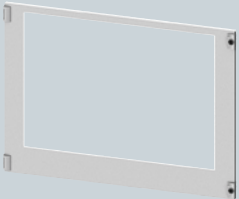


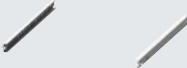
3NJ4 fuse switch disconnectors, 3-pole



| | Device holders | Busbar holders | Covers |
|---------------|---|---|---|
| |  |  |  |
| Size | Width | No. of switching devices | |
| Sizes 1, 2, 3 | 600 mm | 4 × 100 mm | 8PQ6000-2BA48 |
| | 800 mm | 6 × 100 mm | 8PQ6000-2BA48 |
| | | | 2 × 3NJ5974-0AB |
| | | | 2 × 3NJ5974-0AB |
| | | | 8PQ2000-6BA06 |
| | | | 8PQ2000-8BA06 |

Accessories

| Blanking covers | | | |
|---|---------------|--------|---------------|
| | Size | Width | Article No. |
|  | Size 00 | 50 mm | 3NJ4912-2AA00 |
| | Sizes 1, 2, 3 | 100 mm | 3NJ4912-2BA00 |

| Modular doors | Separation, form 3b | Separation, horizontal | Support rails |
|--|---|---|--|
|  |  |  |  |
| <p>8PQ2080-6BA10</p> <p>8PQ2080-8BA05</p> | <p>8PQ5000-1BA70</p> <p>8PQ5000-1BA71</p> | <p>8PQ5000-2BA61</p> <p>8PQ5000-2BA62</p> | <p>8PQ5000-2BA63</p> <p>8PQ5000-2BA63</p> |

Section expansion

3NJ6 switch disconnectors with fuses 3 and 4-pole



Technical specifications, distribution busbar

| Cross-section | Rated operational current $I_{n,r}$, ventilated | | | | | | |
|---------------|--|--------|--------|---------------|--------|--------|--------|
| | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| 60 × 10 mm | 1680 A | 1640 A | 1600 A | 1560 A | 1520 A | 1480 A | 1430 A |
| 80 × 10 mm | 2260 A | 2210 A | 2155 A | 2100 A | 2045 A | 1985 A | 1925 A |

Frame

Main busbar at top

| ① Frame | ② Exterior intermediate uprights | ③ Bottom plate partition crossbars | ④ Uprights |
|---------|----------------------------------|------------------------------------|------------|
| | | | |

| Width | Depth | ① Frame | ② Exterior intermediate uprights | ③ Bottom plate partition crossbars | ④ Uprights |
|--------------|--------|---------------|----------------------------------|------------------------------------|---------------|
| 600 + 400 mm | 400 mm | 8PQ1201-4BA02 | 8PQ3000-1BA43 | 1× 8PQ3000-1BA38 | 8PQ3000-0BA65 |
| | 600 mm | 8PQ1201-6BA02 | 8PQ3000-1BA43 | 1× 8PQ3000-1BA40 | 8PQ3000-0BA01 |
| | 800 mm | 8PQ1201-8BA03 | 8PQ3000-1BA43 | 2× 8PQ3000-1BA38 | 8PQ3000-0BA02 |
| 600 + 600 mm | 400 mm | 8PQ1202-4BA02 | 8PQ3000-1BA43 | 1× 8PQ3000-1BA38 | 8PQ3000-0BA65 |
| | 600 mm | 8PQ1202-6BA02 | 8PQ3000-1BA43 | 1× 8PQ3000-1BA40 | 8PQ3000-0BA01 |
| | 800 mm | 8PQ1202-8BA02 | 8PQ3000-1BA43 | 2× 8PQ3000-1BA38 | 8PQ3000-0BA02 |

15

Device compartment


⑤ Head compartment covers

| | | |
|--|--------|---------------|
| | Height | Article No. |
| | 225 mm | 8PQ2022-6BA01 |

⑥ 3NJ6 assembly kit

| | | | |
|--|---------|--------|---------------|
| | Height | Width | Article No. |
| | 1600 mm | 600 mm | 8PQ3000-1BA48 |

| Busbar cover | | |
|---|--------|------------------|
|  | Height | Article No. |
| | 200 mm | 8x 3NJ6916-4EA00 |

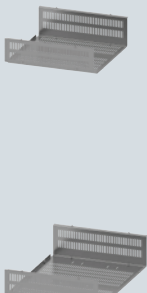
| 7 Device compartments | | |
|---|--------|---------------|
|  | Height | Article No. |
| | 200 mm | 8PQ3000-1BA50 |
| | 400 mm | 8PQ3000-1BA51 |

| 10 Blanking covers | | |
|---|--------|---------------|
|  | Height | Article No. |
| | 50 mm | 3NJ6900-4CB00 |

| Form 2b separation | | | | |
|---|-------------------------|--------|--------|---------------|
|  | Position of main busbar | Width | Depth | Article No. |
| | | | 400 mm | 8PQ3000-1BA44 |
| | Top, front | 600 mm | 600 mm | 8PQ3000-1BA45 |
| | | | 800 mm | 8PQ3000-1BA46 |
| | | | 800 mm | 8PQ3000-1BA47 |
| | Top, both sides | 600 mm | 800 mm | 8PQ3000-1BA47 |

| 6 Base compartment covers | | |
|--|--------|---------------|
|  | Height | Article No. |
| | 150 mm | 8PQ2000-6BA07 |

Cable compartment

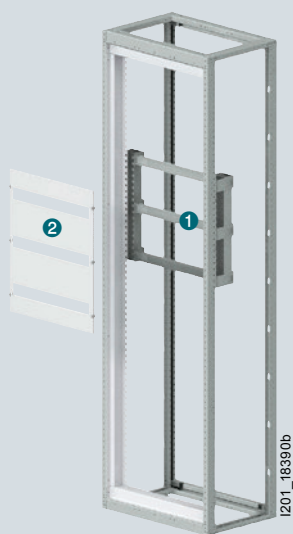
| Form 2b separation | | | | |
|---|-------------------------|--------|--------|---------------|
|  | Position of main busbar | Width | Depth | Article No. |
| | | | 400 mm | 8PQ3000-0BA67 |
| | Top, front | 400 mm | 600 mm | 8PQ3000-0BA52 |
| | | | 800 mm | 8PQ3000-0BA55 |
| | | | 800 mm | 8PQ3000-0BA58 |
| | Top, both sides | 600 mm | 400 mm | 8PQ3000-0BA68 |
| | | | 600 mm | 8PQ3000-0BA53 |
| | | | 800 mm | 8PQ3000-0BA56 |
| | Top, both sides | 400 mm | 800 mm | 8PQ3000-0BA58 |
| | | | 800 mm | 8PQ3000-0BA60 |
| | Front, rear | 600 mm | 800 mm | 8PQ3000-0BA60 |

| 8 Section doors | | | | |
|---|-----------------------|----------------|--------|---------------|
|  | Lock type | Hinge position | Width | Article No. |
| | | | 400 mm | 8PQ2197-4BA08 |
| | Double-bit | Left | 600 mm | 8PQ2197-6BA06 |
| | | | 400 mm | 8PQ2197-4BA11 |
| | | | 600 mm | 8PQ2197-6BA13 |
| | Profile semicylinders | Left | 400 mm | 8PQ2197-4BA06 |
| | | | 600 mm | 8PQ2197-6BA04 |
| | | Right | 400 mm | 8PQ2197-4BA07 |
| | | | 600 mm | 8PQ2197-6BA05 |

| Terminal covers, form 4b | | |
|---|------------------------|---------------|
|  | Version | Article No. |
| | Size 00 | 3NJ6923-1DA00 |
| | Size 1 | 3NJ6933-1DA01 |
| | Size 2 | 3NJ6943-1DA00 |
| | 4th pole for all sizes | 3NJ6904-1DA00 |

Section expansion

Modular installation devices



Internal covers

1 Device holders

2 Covers



| Width | MW | Tier spacing | Height | 1 Device holders | 2 Covers |
|--------|-------|--------------|--------|------------------|---------------|
| 600 mm | 1x 24 | 150 mm | 150 mm | 1x 8PQ6000-3BA36 | 8PQ2015-6BA07 |
| | | 200 mm | 200 mm | 1x 8PQ6000-3BA36 | 8PQ2020-6BA12 |
| 800 mm | 1x 35 | 150 mm | 150 mm | 1x 8PQ6000-3BA37 | 8PQ2015-8BA03 |
| | | 200 mm | 200 mm | 1x 8PQ6000-3BA37 | 8PQ2020-8BA05 |

1 Device holders

2 Covers



| Width | MW | Tier spacing | Height | 1 Device holders | 2 Covers |
|--------|-------|--------------|--------|------------------|---------------|
| 600 mm | 2x 24 | 150 mm | 300 mm | 2x 8PQ6000-3BA36 | 8PQ2030-6BA07 |
| | | 200 mm | 400 mm | 2x 8PQ6000-3BA36 | 8PQ2040-6BA10 |
| 800 mm | 2x 35 | 150 mm | 300 mm | 2x 8PQ6000-3BA37 | 8PQ2030-8BA03 |
| | | 200 mm | 400 mm | 2x 8PQ6000-3BA37 | 8PQ2040-8BA10 |

1 Device holders

2 Covers

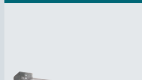


| Width | MW | Tier spacing | Height | 1 Device holders | 2 Covers |
|--------|-------|--------------|--------|------------------|---------------|
| 600 mm | 3x 24 | 150 mm | 450 mm | 3x 8PQ6000-3BA36 | 8PQ2045-6BA04 |
| | | 200 mm | 600 mm | 3x 8PQ6000-3BA36 | 8PQ2060-6BA04 |
| 800 mm | 3x 35 | 150 mm | 450 mm | 3x 8PQ6000-3BA37 | 8PQ2045-8BA02 |
| | | 200 mm | 600 mm | 3x 8PQ6000-3BA37 | 8PQ2060-8BA02 |

Modular doors

1 Device holders

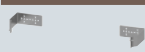
2 Covers



| Width | MW | Tier spacing | Height | 1 Device holders | 2 Covers |
|--------|-------|--------------|--------|------------------|---------------|
| 600 mm | 1x 24 | 200 mm | 200 mm | 1x 8PQ6000-6BA52 | 8PQ2020-6BA28 |
| 800 mm | 1x 35 | 200 mm | 200 mm | 1x 8PQ6000-6BA53 | 8PQ2020-8BA14 |

Accessories

Cable duct fastening



| Version | Article No. |
|-------------------|---------------|
| Mounting brackets | 8PQ6000-0BA16 |

Blanking strips



| Versions | Article No. |
|------------------------------|---------------|
| For 12 MW | 8GK9910-0KK00 |
| Length 1 m, to cut to length | 8GK9910-0KK01 |

Section expansion

Cable section



1 PE bars



| Version | Scope of supply | Article No. |
|-----------------|-----------------|---------------|
| Busbar supports | 5 units | 8PQ4000-2BA23 |

2 N/PEN connection



| Version | Article No. |
|--|---------------|
| Busbar supports and connection terminals | 8PQ4000-2BA22 |

3 Cable fixtures



| Version | Scope of supply | Article No. |
|---------|-----------------|---------------|
| Holders | 10 units | 8PQ3000-0BA73 |

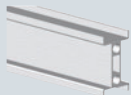


| Version | Width | Depth | Scope of supply | Article No. |
|----------------------|--------|---------|-----------------|---------------|
| C profile (30 mm) | 350 mm | – | 5 units | 8PQ3000-0BA38 |
| | 400 mm | – | 5 units | 8PQ3000-0BA41 |
| | 600 mm | – | 5 units | 8PQ3000-0BA42 |
| | 800 mm | – | 5 units | 8PQ3000-0BA43 |
| | – | 400 mm | 5 units | 8PQ3000-0BA38 |
| | – | 600 mm | 5 units | 8PQ3000-0BA38 |
| – | 800 mm | 5 units | 8PQ3000-0BA38 | |

4 DIN rail outgoing terminals



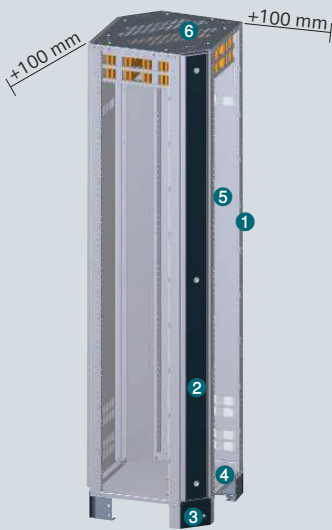
| Version | Scope of supply | Article No. |
|--------------------|-----------------|---------------|
| Universal brackets | 10 units | 8PQ9400-0BA01 |



| Length | DIN rail | Article No. |
|---------|----------|---------------|
| 1600 mm | 35 mm | 8PQ9600-0BA01 |

Section expansion

Corner sections



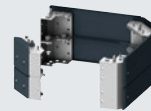
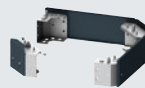
Main busbar at bottom

1 Frames

2 Conversion kits

3 Base corner pieces

4 Base plates



| Depth | | | Height | | IP20 |
|--------|---------------|---------------|---------------|---------------|---------------|
| | | | 100 mm | 200 mm | |
| 400 mm | 8PQ1204-4BA01 | 8PQ1200-0BA03 | 8PQ1010-0BA04 | 8PQ1024-4BA01 | 8PQ2300-4BA25 |
| 600 mm | 8PQ1206-6BA01 | 8PQ1200-0BA03 | 8PQ1010-0BA05 | 8PQ1026-6BA01 | 8PQ2300-6BA27 |
| 800 mm | 8PQ1208-8BA01 | 8PQ1200-0BA03 | 8PQ1018-8BA01 | 8PQ1028-8BA01 | 8PQ2300-8BA14 |

Main busbar at top

⊖ Rear panels

⊖ Top plates



| IP55 | IP40 | IP55 | IP40 | IP55 | IPX1 |
|---------------|------------------|------------------|---------------|---------------|---------------|
| 8PQ2304-4BA12 | 2× 8PQ2420-4BA02 | 2× 8PQ2420-4BA01 | 8PQ2304-4BA10 | 8PQ2304-4BA08 | 8PQ2304-4BA11 |
| 8PQ2306-6BA12 | 2× 8PQ2420-6BA02 | 2× 8PQ2420-6BA01 | 8PQ2306-6BA10 | 8PQ2306-6BA08 | 8PQ2306-6BA11 |
| 8PQ2308-8BA08 | 2× 8PQ2420-8BA02 | 2× 8PQ2420-8BA01 | 8PQ2308-8BA06 | 8PQ2308-8BA05 | 8PQ2308-8BA07 |

Section expansion

Mounting plates



| | ❶ Double section doors – with double-bit lock | | ❶ Double section doors – for profile semicylinders | | ❷ Inner doors | Inner door struts |
|---------------------------|---|---------------|--|---------------|---------------|-------------------|
| | | | | | | Height 700 mm |
| Width | IP40 | IP55 | IP40 | IP55 | | |
| 600 mm | – | – | – | – | 8PQ2000-6BA05 | 2x 8PQ2080-0BA07 |
| 800 mm | – | – | – | – | 8PQ2000-8BA05 | 2x 8PQ2080-0BA07 |
| 1000 mm (600 mm + 400 mm) | 8PQ2197-1BA14 | 8PQ2197-1BA13 | 8PQ2197-1BA16 | 8PQ2197-1BA15 | 8PQ2000-1BA01 | 2x 8PQ2080-0BA07 |
| 1200 mm (600 mm + 600 mm) | 8PQ2197-2BA11 | 8PQ2197-2BA10 | 8PQ2197-2BA13 | 8PQ2197-2BA12 | – | – |

Main busbar at top: Height 1650 mm

ohne Hauptsammelschiene: Height 1900 mm

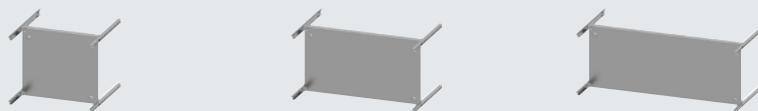
③ Mounting plates

④ Connecting panels



| Width | ③ Mounting plates | ④ Connecting panels | ③ Mounting plates | ④ Connecting panels |
|---------|-------------------|---------------------|-------------------|---------------------|
| 400 mm | 8PQ3000-0BA33 | 8PQ3000-1BA10 | 8PQ3000-0BA32 | 8PQ3000-1BA08 |
| 600 mm | 8PQ3000-0BA35 | 8PQ3000-1BA10 | 8PQ3000-0BA34 | 8PQ3000-1BA08 |
| 800 mm | 8PQ3000-0BA37 | 8PQ3000-1BA10 | 8PQ3000-0BA36 | 8PQ3000-1BA08 |
| 1000 mm | 8PQ3000-1BA06 | 8PQ3000-1BA10 | 8PQ3000-1BA04 | 8PQ3000-1BA08 |
| 1200 mm | 8PQ3000-1BA07 | 8PQ3000-1BA10 | 8PQ3000-1BA05 | 8PQ3000-1BA08 |

Modular mounting plates

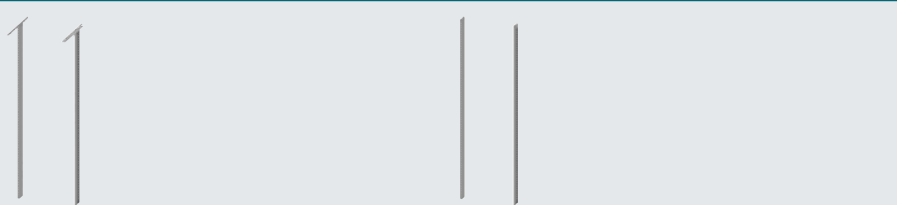


| Height | Width | | |
|--------|---------------|---------------|---------------|
| | 400 mm | 600 mm | 800 mm |
| 150 mm | 8PQ3000-2BA60 | 8PQ3000-2BA62 | 8PQ3000-2BA64 |
| 200 mm | 8PQ3000-2BA17 | 8PQ3000-1BA56 | 8PQ3000-1BA58 |
| 300 mm | 8PQ3000-2BA66 | 8PQ3000-2BA51 | 8PQ3000-2BA53 |
| 400 mm | 8PQ3000-2BA18 | 8PQ3000-1BA61 | 8PQ3000-1BA63 |
| 550 mm | – | 8PQ3000-3BA07 | 8PQ3000-3BA08 |
| 600 mm | 8PQ3000-2BA21 | 8PQ3000-1BA65 | 8PQ3000-1BA67 |
| 800 mm | 8PQ3000-2BA23 | 8PQ3000-1BA26 | 8PQ3000-1BA28 |

Main busbar at top: Height 1650 mm

ohne Hauptsammelschiene: Height 1900 mm

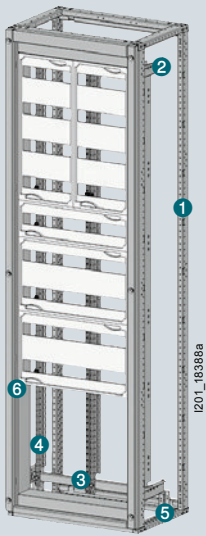
⑤ Uprights



| Depth | ⑤ Uprights | ⑤ Uprights |
|--------|---------------|---------------|
| 600 mm | 8PQ3000-0BA01 | 8PQ3000-0BA03 |
| 800 mm | 8PQ3000-0BA02 | 8PQ3000-0BA03 |

Section expansion

ALPHA 8GK DIN sections, frame



Main busbar at top: Equipment height 1650 mm

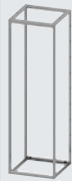
Main busbar at bottom: Equipment height 1800 mm

① Frames

② Adapters

③ Crossbars

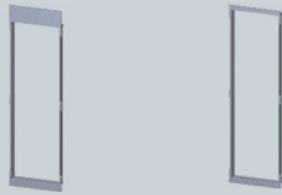
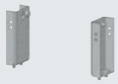
④ Longitudinal stays



| Width | Depth | ① Frames | ② Adapters | ③ Crossbars | ④ Longitudinal stays | ④ Longitudinal stays |
|--------|--------|---------------|---------------|---------------|----------------------|----------------------|
| 350 mm | 400 mm | 8PQ1200-4BA15 | 8PQ3000-1BA74 | 8PQ3000-1BA76 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 600 mm | 8PQ1200-6BA14 | 8PQ3000-1BA74 | 8PQ3000-1BA76 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 800 mm | 8PQ1200-8BA01 | 8PQ3000-1BA74 | 8PQ3000-1BA76 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| 600 mm | 400 mm | 8PQ1206-4BA01 | 8PQ3000-1BA74 | 8PQ3000-1BA78 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 600 mm | 8PQ1206-6BA01 | 8PQ3000-1BA74 | 8PQ3000-1BA78 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 800 mm | 8PQ1206-8BA01 | 8PQ3000-1BA74 | 8PQ3000-1BA78 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| 850 mm | 400 mm | 8PQ1200-4BA16 | 8PQ3000-1BA74 | 8PQ3000-1BA80 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 600 mm | 8PQ1200-6BA15 | 8PQ3000-1BA74 | 8PQ3000-1BA80 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |
| | 800 mm | 8PQ1200-8BA02 | 8PQ3000-1BA74 | 8PQ3000-1BA80 | 8PQ3000-2BA88 | 8PQ3000-1BA82 |

⑥ Supports

⑥ Touch protection covers



| | | |
|---------------|---------------|---------------|
| 8PQ3000-1BA75 | 8PQ3000-2BA85 | 8PQ3000-2BA45 |
| 8PQ3000-1BA75 | 8PQ3000-2BA85 | 8PQ3000-2BA45 |
| 8PQ3000-1BA75 | 8PQ3000-2BA85 | 8PQ3000-2BA45 |
| 8PQ3000-1BA75 | 8PQ3000-2BA86 | 8PQ3000-2BA46 |
| 8PQ3000-1BA75 | 8PQ3000-2BA86 | 8PQ3000-2BA46 |
| 8PQ3000-1BA75 | 8PQ3000-2BA86 | 8PQ3000-2BA46 |
| 8PQ3000-1BA75 | 8PQ3000-2BA87 | 8PQ3000-2BA47 |
| 8PQ3000-1BA75 | 8PQ3000-2BA87 | 8PQ3000-2BA47 |
| 8PQ3000-1BA75 | 8PQ3000-2BA87 | 8PQ3000-2BA47 |

Section expansion

ALPHA 8GK DIN sections, enclosure



Main busbar at top

1 Bases

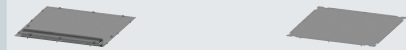
Corners with front cover



Side covers



2 Bottom plates



| Width | Depth | Height | | Height | IP40 | | IP55 |
|--------|--------|---------------|---------------|---------------|------------------|------------------|------|
| | | 100 mm | 200 mm | | 100 mm | cable entry | |
| 350 mm | 400 mm | 8PQ1010-0BA01 | 8PQ1020-0BA01 | 8PQ1010-4BA01 | 8PQ2300-4BA18 | 8PQ2300-4BA16 | |
| | 600 mm | 8PQ1010-0BA01 | 8PQ1020-0BA01 | 8PQ1010-6BA01 | 8PQ2300-6BA22 | 8PQ2300-6BA20 | |
| | 800 mm | 8PQ1010-0BA01 | 8PQ1020-0BA01 | 8PQ1010-8BA01 | 2x 8PQ2300-4BA18 | 2x 8PQ2300-4BA16 | |
| 600 mm | 400 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-4BA01 | 8PQ2306-4BA06 | 8PQ2306-4BA05 | |
| | 600 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-6BA01 | 8PQ2306-6BA06 | 8PQ2306-6BA05 | |
| | 800 mm | 8PQ1016-0BA01 | 8PQ1026-0BA01 | 8PQ1010-8BA01 | 2x 8PQ2306-4BA06 | 2x 8PQ2306-4BA05 | |
| 850 mm | 400 mm | 8PQ1010-0BA02 | 8PQ1020-0BA02 | 8PQ1010-4BA01 | 8PQ2300-4BA20 | 8PQ2300-4BA17 | |
| | 600 mm | 8PQ1010-0BA02 | 8PQ1020-0BA02 | 8PQ1010-6BA01 | 8PQ2300-6BA23 | 8PQ2300-6BA21 | |
| | 800 mm | 8PQ1010-0BA02 | 8PQ1020-0BA02 | 8PQ1010-8BA01 | 2x 8PQ2300-4BA20 | 2x 8PQ2300-4BA17 | |

Main busbar at bottom

③ Rear panels

④ Side panels



| IP20 | IP40 | IP55 | IP40 with design strip | IP55 |
|---------------|---------------|---------------|---------------------------|---------------|
| 8PQ2300-4BA23 | 8PQ2420-0BA01 | 8PQ2420-0BA03 | 8PQ2520-4BA01 | 8PQ2520-4BA02 |
| 8PQ2300-6BA25 | 8PQ2420-0BA01 | 8PQ2420-0BA03 | 8PQ2520-6BA01 | 8PQ2520-6BA02 |
| 8PQ2300-8BA10 | 8PQ2420-0BA01 | 8PQ2420-0BA03 | 8PQ2520-8BA01 | 8PQ2520-8BA02 |
| 8PQ2306-4BA10 | 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-4BA01 | 8PQ2520-4BA02 |
| 8PQ2306-6BA16 | 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-6BA01 | 8PQ2520-6BA02 |
| 8PQ2306-8BA05 | 8PQ2420-6BA02 | 8PQ2420-6BA01 | 8PQ2520-8BA01 | 8PQ2520-8BA02 |
| 8PQ2300-4BA24 | 8PQ2420-0BA02 | 8PQ2420-0BA04 | 8PQ2520-4BA01 | 8PQ2520-4BA02 |
| 8PQ2300-6BA26 | 8PQ2420-0BA02 | 8PQ2420-0BA04 | 8PQ2520-6BA01 | 8PQ2520-6BA02 |
| 8PQ2300-8BA11 | 8PQ2420-0BA02 | 8PQ2420-0BA04 | 8PQ2520-8BA01 | 8PQ2520-8BA02 |

Section expansion

ALPHA 8GK DIN sections, enclosure



⑤ Top plates



| Width | Depth | IP40 | IP40 cable entry | IPX1 upgrade | IP55 |
|--------|--------|---------------|------------------|---------------|---------------|
| 350 mm | 400 mm | 8PQ2300-4BA06 | 8PQ2300-4BA14 | 8PQ2300-4BA11 | 8PQ2300-4BA04 |
| | 600 mm | 8PQ2300-6BA13 | 8PQ2300-6BA17 | 8PQ2300-6BA15 | 8PQ2300-6BA11 |
| | 800 mm | 8PQ2300-8BA03 | 8PQ2300-8BA07 | 8PQ2300-8BA05 | 8PQ2300-8BA01 |
| 600 mm | 400 mm | 8PQ2306-4BA02 | 8PQ2306-4BA03 | 8PQ2306-4BA04 | 8PQ2306-4BA01 |
| | 600 mm | 8PQ2306-6BA02 | 8PQ2306-6BA03 | 8PQ2306-6BA04 | 8PQ2306-6BA01 |
| | 800 mm | 8PQ2306-8BA02 | 8PQ2306-8BA03 | 8PQ2306-8BA04 | 8PQ2306-8BA01 |
| 850 mm | 400 mm | 8PQ2300-4BA07 | 8PQ2300-4BA15 | 8PQ2300-4BA12 | 8PQ2300-4BA05 |
| | 600 mm | 8PQ2300-6BA14 | 8PQ2300-6BA18 | 8PQ2300-6BA16 | 8PQ2300-6BA12 |
| | 800 mm | 8PQ2300-8BA04 | 8PQ2300-8BA08 | 8PQ2300-8BA06 | 8PQ2300-8BA02 |

Section expansion

ALPHA 8GK DIN sections, doors



6 Doors



| Hinge position | Width | IP40 | IP55 | IP55 glass doors |
|----------------------------------|--------|---------------|---------------|------------------|
| With double-bit lock | | | | |
| Left | 350 mm | 8PQ2197-0BA03 | 8PQ2197-0BA06 | – |
| | 600 mm | 8PQ2197-6BA06 | 8PQ2197-6BA03 | 8PQ2197-6BA10 |
| | 850 mm | 8PQ2197-0BA04 | 8PQ2197-0BA07 | 8PQ2197-0BA01 |
| Right | 350 mm | 8PQ2197-0BA16 | 8PQ2197-0BA18 | – |
| | 600 mm | 8PQ2197-6BA13 | 8PQ2197-6BA12 | 8PQ2197-6BA14 |
| | 850 mm | 8PQ2197-0BA17 | 8PQ2197-0BA20 | 8PQ2197-0BA21 |
| For profile semicylinders | | | | |
| Left | 350 mm | 8PQ2197-0BA34 | 8PQ2197-0BA31 | – |
| | 600 mm | 8PQ2197-6BA04 | 8PQ2197-6BA01 | 8PQ2197-6BA07 |
| | 850 mm | 8PQ2197-0BA35 | 8PQ2197-0BA32 | 8PQ2197-0BA33 |
| Right | 350 mm | 8PQ2197-0BA40 | 8PQ2197-0BA36 | – |
| | 600 mm | 8PQ2197-6BA05 | 8PQ2197-6BA02 | 8PQ2197-6BA08 |
| | 850 mm | 8PQ2197-0BA41 | 8PQ2197-0BA37 | 8PQ2197-0BA38 |

Section expansion

ALPHA 8GK DIN sections, doors

Accessories

| Flat cylinders/two-way interlocking mechanism | | | |
|---|--|--|---------------|
| | Version | | Article No. |
|  | Rotary handles with flat cylinder | <ul style="list-style-type: none"> • With key • Identical key type | 8PQ9400-0BA07 |
| | Rotary handles with two-way interlocking mechanism | | 8PQ9400-0BA08 |
| | Coupling bars | | 8PQ9400-0BA27 |
| | Locking rods | | 8PQ9400-0BA37 |
| | Bar guides | | 8PQ9400-0BA36 |
| Profile semicylinders | | | |
|  | Rotary handles for profile semicylinders | | 8PQ9400-0BA41 |
| | Coupling bars | | 8PQ9400-0BA28 |
| | Locking rods | | 8PQ9400-0BA38 |
| | Bar guides | | 8PQ9400-0BA36 |
| | Profile semicylinders Acc. to DIN 18252/18254, 8 × 45° adjustable, with identical keys (key number 333), including key | | 8PQ9400-0BA26 |
| Door hinges | | | |
|  | Version | Scope of supply | Article No. |
| | Suitable for modular or section doors | 2 units | 8PQ9400-0BA55 |

Cubicle keys



| Version | Scope of supply | Article No. |
|-----------------|-----------------|---------------|
| 3 mm double bit | 10 units | 8PQ9400-0BA12 |

Inner door struts



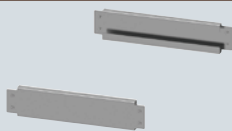
| Height | Article No. |
|---------|---------------|
| 1975 mm | 8PQ2197-0BA10 |

Cubicle ID plate



| Version | Article No. |
|-----------------------------|---------------|
| SIVACON designed by Siemens | 8PQ9400-0BA06 |

Reinforcements for transport



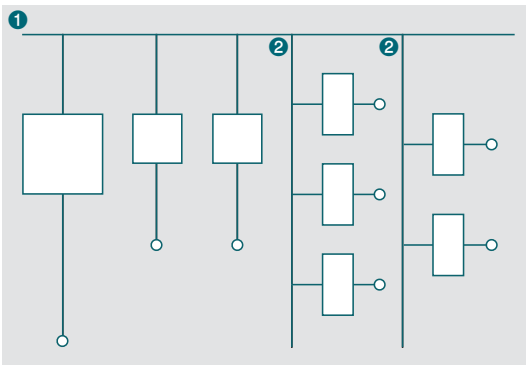
| Height | Width/depth | Article No. |
|--------|-------------|---------------|
| 100 mm | 350 mm | 8PQ1010-0BA06 |
| | 400 mm | 8PQ1014-0BA02 |
| | 600 mm | 8PQ1016-0BA02 |
| | 800 mm | 8PQ1018-0BA02 |
| | 850 mm | 8PQ1010-0BA07 |


Internal separation

Quick selection guide

Form 1

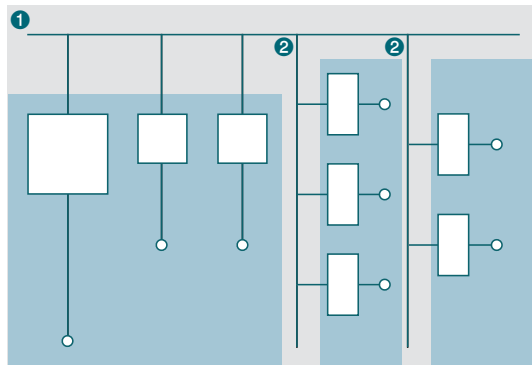
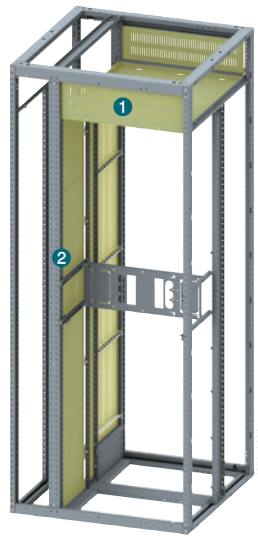
Outgoing feeder panel
No internal separation



 Functional unit
  Connection

Form 2b

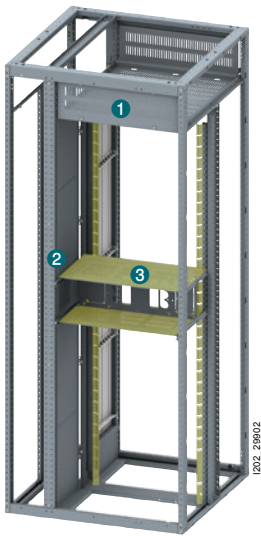
Outgoing feeder panel
 + separation of main busbar ①
 + separation of the vertical busbar ②



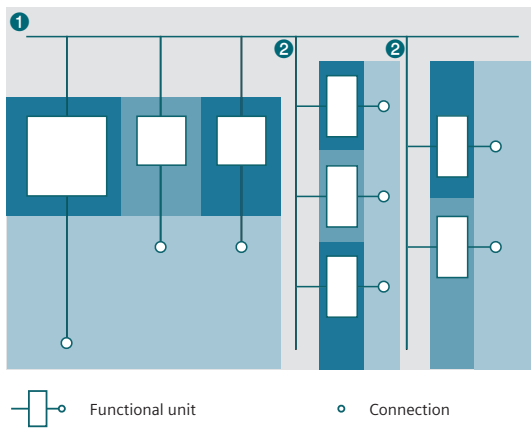
 Functional unit
  Connection

Form 3b

Outgoing feeder panel
 With separation of main busbar ❶
 With separation of the vertical busbar ❷
 + separation of device compartments (functional units) ❸

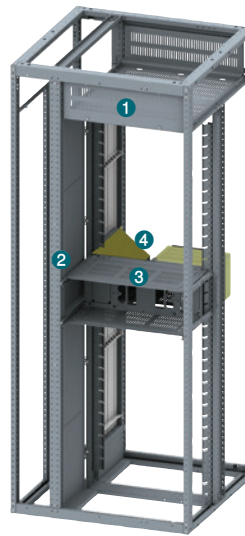


1202_29002

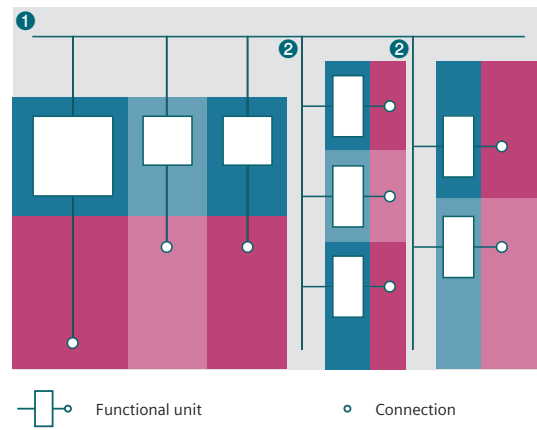


Form 4b

Outgoing feeder panel
 With separation of main busbar ❶
 With separation of the vertical busbar ❷
 With separation of device compartments (functional units) ❸
 + separation of connections ❹

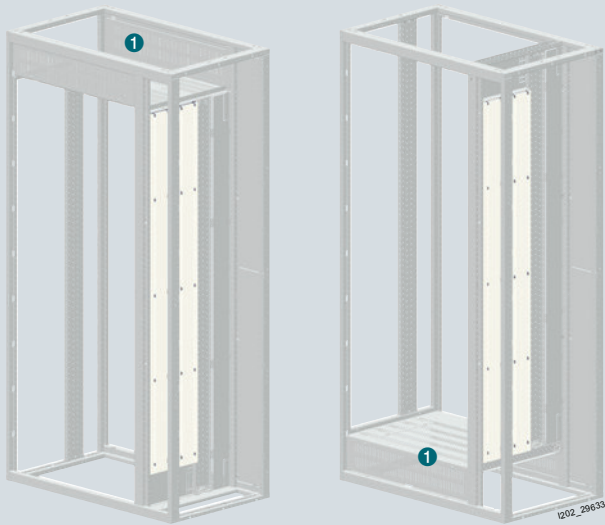


1202_29003



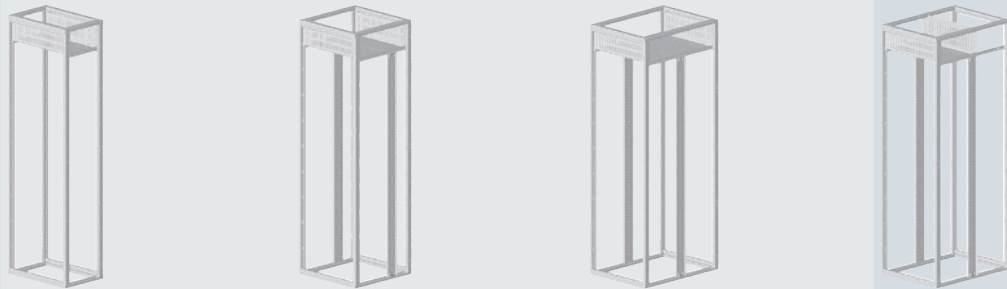
Internal separation

Main busbar, form 2b



Main busbar at top

1 Main busbars



| Width | Depth 400 mm | 600 mm | 800 mm | Depth 800 mm |
|---------|-----------------|---------------|---------------|-----------------|
| 200 mm | 8PQ3000-1BA52 | 8PQ3000-1BA53 | 8PQ3000-1BA55 | 8PQ3000-1BA54 |
| 350 mm | 8PQ3000-2BA68 | 8PQ3000-2BA71 | 8PQ3000-2BA75 | 8PQ3000-2BA73 |
| 400 mm | 8PQ3000-0BA67 | 8PQ3000-0BA52 | 8PQ3000-0BA58 | 8PQ3000-0BA55 |
| 600 mm | 8PQ3000-0BA68 | 8PQ3000-0BA53 | 8PQ3000-0BA60 | 8PQ3000-0BA56 |
| 800 mm | 8PQ3000-0BA70 | 8PQ3000-0BA54 | 8PQ3000-0BA61 | 8PQ3000-0BA57 |
| 850 mm | 8PQ3000-2BA70 | 8PQ3000-2BA72 | 8PQ3000-2BA76 | 8PQ3000-2BA74 |
| 1000 mm | 8PQ3000-1BA13 | 8PQ3000-1BA14 | 8PQ3000-1BA20 | 8PQ3000-1BA17 |
| 1200 mm | 8PQ3000-1BA15 | 8PQ3000-1BA16 | 8PQ3000-1BA21 | 8PQ3000-1BA18 |

Main busbar at bottom

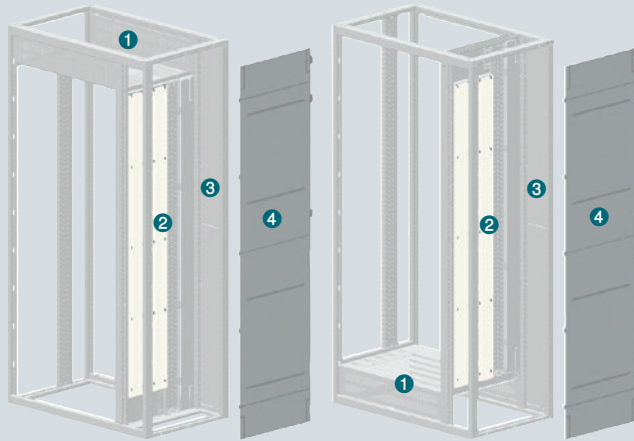
Main busbar at rear



| Main busbar at bottom | | | Main busbar at rear | |
|-----------------------|---------------|---------------|---------------------|---------------|
| Depth 400 mm | 600 mm | 800 mm | Depth 800 mm | 800 mm |
| – | – | – | – | – |
| 8PQ3000-3BA13 | 8PQ3000-3BA22 | 8PQ3000-3BA31 | 8PQ3000-2BA77 | – |
| 8PQ3000-3BA14 | 8PQ3000-3BA23 | 8PQ3000-3BA32 | 8PQ3000-0BA78 | 8PQ5000-4BA24 |
| 8PQ3000-3BA15 | 8PQ3000-3BA24 | 8PQ3000-3BA33 | 8PQ3000-0BA80 | 8PQ5000-4BA25 |
| 8PQ3000-3BA16 | 8PQ3000-3BA25 | 8PQ3000-3BA34 | 8PQ3000-0BA81 | 8PQ5000-4BA26 |
| 8PQ3000-3BA17 | 8PQ3000-3BA26 | 8PQ3000-3BA35 | 8PQ3000-2BA78 | – |
| 8PQ3000-3BA18 | 8PQ3000-3BA27 | 8PQ3000-3BA36 | 8PQ3000-1BA22 | 8PQ5000-4BA27 |
| 8PQ3000-3BA20 | 8PQ3000-3BA28 | 8PQ3000-3BA37 | 8PQ3000-1BA23 | – |

Internal separation

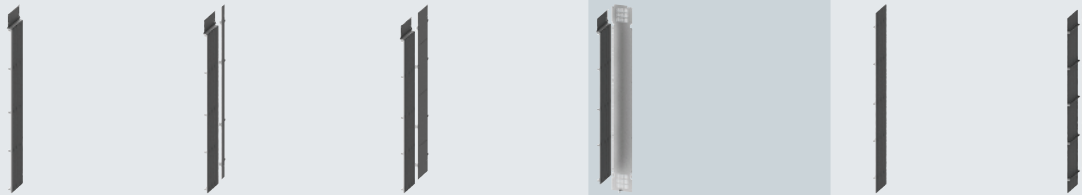
Vertical busbar, form 2b



Main busbar at top

Without main busbar

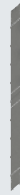
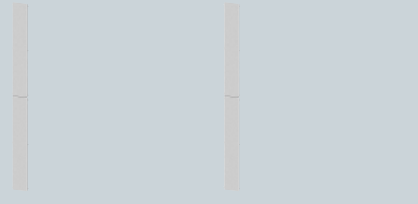
Vertical busbar



| Width | Main busbar at top | | | Without main busbar | | |
|--------|--------------------|---------------|---------------|---------------------|-----------------|---------------|
| | Depth 400 mm | 600 mm | 800 mm | Depth 800 mm | Depth 400 mm | 600 mm |
| 200 mm | 8PQ4000-OBA05 | 8PQ4000-OBA07 | 8PQ4000-OBA64 | 8PQ4000-OBA02 | 8PQ4000-OBA06 | 8PQ4000-OBA03 |
| 400 mm | 8PQ4000-OBA05 | 8PQ4000-OBA07 | 8PQ4000-OBA64 | 8PQ4000-OBA01 | 8PQ4000-OBA06 | 8PQ4000-OBA03 |

③ Touch protection covers

④ Vertical separation between sections



800 mm

Depth
600 mm

800 mm

Depth
400 mm

600 mm

800 mm

8PQ4000-0BA76

8PQ3000-2BA50

8PQ3000-2BA50

8PQ3000-0BA15

8PQ3000-0BA16

2× 8PQ3000-0BA15

8PQ4000-0BA76

8PQ3000-0BA51

8PQ3000-0BA51

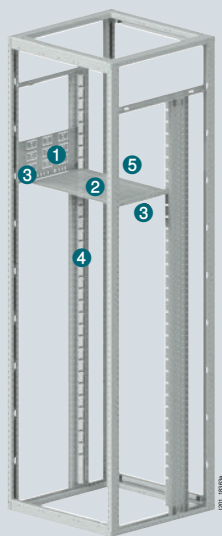
8PQ3000-0BA15

8PQ3000-0BA16

2× 8PQ3000-0BA15

Internal separation

Modular kits, form 3b



Main busbar at top

Main busbar at bottom

Main busbar at rear

Frame without main busbar

① Side


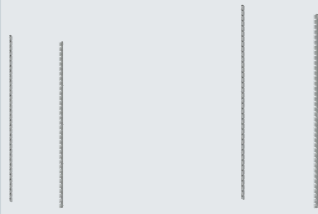

② Horizontal

Kit version support rail

Kit version crossbar






| Height | Branch current | Assembly kits | Branch current | Assembly kits | Width | |
|--------|----------------|---------------|----------------|---------------|---------------|---------------|
| | | | | | 400 mm | 600 mm |
| 50 mm | | – | | – | – | – |
| 100 mm | | 8PQ5000-2BA27 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 150 mm | | 8PQ5000-2BA28 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 200 mm | ≤250 A | 8PQ5000-2BA30 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| | ≥400 A | 8PQ5000-2BA31 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 250 mm | ≤250 A | 8PQ5000-2BA32 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| | ≥400 A | 8PQ5000-2BA33 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 300 mm | ≤250 A | 8PQ5000-2BA34 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| | ≥400 A | 8PQ5000-2BA35 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 350 mm | | 8PQ5000-2BA36 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 400 mm | | 8PQ5000-2BA37 | ≥800 A | 8PQ5000-3BA50 | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 450 mm | | 8PQ5000-2BA38 | ≥800 A | 8PQ5000-2BA65 | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 500 mm | | 8PQ5000-2BA40 | ≥800 A | 8PQ5000-2BA66 | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 550 mm | | 8PQ5000-2BA41 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 600 mm | | 8PQ5000-2BA42 | ≥800 A | 8PQ5000-2BA48 | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 650 mm | | 8PQ5000-2BA43 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 700 mm | | 8PQ5000-2BA44 | ≥800 A | 8PQ5000-2BA50 | 8PQ5000-3BA44 | 8PQ5000-2BA61 |
| 800 mm | | 8PQ5000-2BA45 | | – | 8PQ5000-3BA44 | 8PQ5000-2BA61 |

| ③ Support rails | | ④ Plug-in rails | | ⑤ Rear | |
|--|---------------|---|---------------|---|---------------|
|  | |  | |  | |
| Width 800 mm | | Height 1600 mm | | Width 600 mm | |
| | | 1800 mm | | 800 mm | |
| – | – | – | – | 8PQ5000-2BA51 | 8PQ5000-2BA67 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-2BA52 | 8PQ5000-2BA68 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA40 | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA41 | 8PQ5000-4BA48 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA41 | 8PQ5000-4BA48 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA42 | 8PQ5000-4BA50 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA42 | 8PQ5000-4BA50 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA43 | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA43 | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA44 | 8PQ5000-4BA51 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA45 | 8PQ5000-4BA52 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA46 | 8PQ5000-4BA53 |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | – | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | 8PQ5000-4BA47 | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | – | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | – | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | – | – |
| 8PQ5000-2BA62 | 8PQ5000-2BA63 | 8PQ3000-0BA82 | 8PQ3000-0BA83 | – | – |

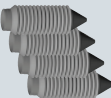
Internal separation

Accessories

Connecting terminals

| | Rated current | Busbar | Scope of supply | Article No. |
|---|---------------|---------------|-----------------|---------------|
|  | – | – | 4 units | 8PQ5000-0BA05 |
|  | 250 A | 2 × 25 × 5 mm | 2 units | 8PQ5000-0BA72 |
|  | 400 A | 30 × 10 mm | 4 units | 8PQ5000-0BA73 |
| | 630 A | 40 × 10 mm | 4 units | 8PQ5000-0BA74 |





Protective bellows

| | Version | Scope of supply | Article No. |
|---|-------------------------|-----------------|---------------|
|  | For connecting terminal | 4 units | 8PQ9400-0BA71 |

Self-tapping screws – frame

| | Version | Version | Scope of supply | Article No. |
|---|----------------------|--------------|-----------------|---------------|
|  | Cylinder-head screws | M6 × 10 mm | 100 units | 8PQ9500-0BA34 |
| | | M6 × 16 mm | 100 units | 8PQ9500-0BA32 |
| | | M6 × 20 mm | 100 units | 8PQ9500-0BA31 |
|  | Covering caps | M6, RAL 7035 | 100 units | 8PQ9400-0BA14 |
|  | Countersunk screws | M6 × 12 mm | 100 units | 8PQ9500-1BA07 |

Standardized parts - electrical connections

| | Version | Version | Scope of supply | Article No. |
|---|----------------|---------|-----------------|---------------|
|  | Hexagonal nuts | For M10 | 50 units | 8PQ9500-0BA05 |
|  | Spring washers | For M10 | 50 units | 8PQ9500-0BA60 |
|  | Plain washers | For M10 | 50 units | 8PQ9500-0BA67 |
|  | Lock washers | For M10 | 50 units | 8PQ9500-0BA50 |

| Universal mounting brackets | | | | |
|---|--------------------------------|--|------------------------|--------------------|
|  | | | Scope of supply | Article No. |
| | | | 10 units | 8PQ9400-0BA01 |
| Transport aids | | | | |
|  | Version | Width | Scope of supply | Article No. |
| | Lifting eyebolts | – | 4 units | 8PQ9400-0BA11 |
| | Lifting brackets | 800 mm | 2 units | 8PQ3000-1BA01 |
| | | 850 mm | 2 units | 8PQ3000-2BA38 |
| | | 1000 mm | 2 units | 8PQ3000-1BA02 |
| | 1200 mm | 2 units | 8PQ3000-1BA03 | |
| Cable entries | | | | |
|  | Version | | Scope of supply | Article No. |
| | Cables with diam. up to 20 mm | | 20 units | 8PQ9400-0BA16 |
| | Cables with diam. 14 ... 38 mm | | 6 units | 8PQ9400-0BA33 |
| Torx bits for screwdriver | | | | |
|  | Length | | Scope of supply | Article No. |
| | 200 mm | | 2 units | 8PQ9400-0BA10 |
| Extended delivery options | | | | |
|  | | | | |
| | | | | |
| | | | | |
| | Version | Description | | Article No. |
| | Pre-assembled solutions | Based on SIMARIS configuration <ul style="list-style-type: none"> In various expansion stages Mechanically with or without copper insert | | 8PQ9998-0BA20-Z |
| | Copper for system sections | Drawings from SIMARIS | | 8PQ9998-0BA30-Z |

ALPHA UNIVERSAL system overview

Distribution boards, assembly kits and accessories

ALPHA UNIVERSAL 800



ALPHA UNIVERSAL 630



Unequipped distribution boards



ALPHA 800



ALPHA 630

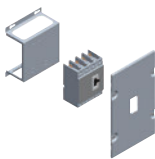


ALPHA 125

Assembly kits



For molded case circuit breakers



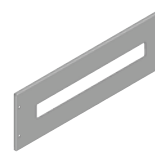
For switch disconnectors



For fuse switch disconnectors



For modular installation devices



For front cover with cutout

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

ALPHA UNIVERSAL 125



Busbars



Cu busbars



Busbar supports

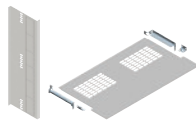
Accessories



Bases



Crossbars



Partitions



Front covers



Locking systems

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

ALPHA 800 UNIVERSAL floor-mounted distribution boards

Rated current 800 A

Unequipped distribution boards

Degree of protection IP30/IP55



| Height Outside | Inside | Depth Outside | Width Outside | Inside | Safety class I |
|----------------|---------|---------------|---------------|--------|----------------|
| 1850 mm | 1800 mm | 400 mm | 350 mm | 300 mm | 8GK2420-6KK14 |
| | | | 650 mm | 600 mm | 8GK2420-6KK24 |
| | | | 950 mm | 900 mm | 8GK2420-6KK34 |
| 2050 mm | 2000 mm | 400 mm | 350 mm | 300 mm | 8GK2420-7KK14 |
| | | | 650 mm | 600 mm | 8GK2420-7KK24 |
| | | | 950 mm | 900 mm | 8GK2420-7KK34 |

Accessories

Unequipped distribution boards

Sheet-steel doors

| Versions | Width | Cubicle height | Cubicle width | Article No. |
|-----------------------|--------|----------------|---------------|---------------|
| Standard | - | 1800 mm | 300 mm | 8GK9515-8KK11 |
| | | | 600 mm | 8GK9515-8KK21 |
| | | | 900 mm | 8GK9515-8KK31 |
| | | 2000 mm | 300 mm | 8GK9515-8KK12 |
| | | | 600 mm | 8GK9515-8KK22 |
| | | | 900 mm | 8GK9515-8KK32 |
| For cable compartment | 250 mm | 1800 mm | 900 mm | 8GK9515-8KK41 |
| | | 2000 mm | 900 mm | 8GK9515-8KK42 |

Transparent doors

| Versions | Cubicle height | Cubicle width | Article No. |
|-----------------|----------------|---------------|---------------|
| Standard | 1800 mm | 300 mm | 8GK9505-8KK12 |
| | | 600 mm | 8GK9505-8KK21 |
| | | 900 mm | 8GK9505-8KK31 |
| | 2000 mm | 300 mm | 8GK9505-8KK10 |
| | | 600 mm | 8GK9505-8KK22 |
| | | 900 mm | 8GK9505-8KK32 |
| Giugiaro design | 1800 mm | 600 mm | 8GK9507-8KK21 |
| | | 900 mm | 8GK9507-8KK31 |
| | | 900 mm | 8GK9507-8KK32 |
| | 2000 mm | 600 mm | 8GK9507-8KK22 |
| | | 900 mm | 8GK9507-8KK31 |
| | | 900 mm | 8GK9507-8KK32 |

Double doors

| Versions | Width | Cubicle height | Cubicle width | Article No. |
|--|--------------|----------------|---------------|-------------------------------|
| Made of sheet steel | 600 + 250 mm | 1800 mm | 900 mm | 8GK9515-8KK21 + 8GK9515-8KK41 |
| | | 2000 mm | 900 mm | 8GK9515-8KK22 + 8GK9515-8KK42 |
| Transparent door + sheet-steel door | 600 + 250 mm | 1800 mm | 900 mm | 8GK9505-8KK21 + 8GK9515-8KK41 |
| | | 2000 mm | 900 mm | 8GK9505-8KK22 + 8GK9515-8KK42 |
| Transparent door in Giugiaro design + sheet-steel door | 600 + 250 mm | 1800 mm | 900 mm | 8GK9507-8KK21 + 8GK9515-8KK41 |
| | | 2000 mm | 900 mm | 8GK9507-8KK22 + 8GK9515-8KK42 |

Accessories

Unequipped
distribution boards

Vertical profile bars for compartment/busbars



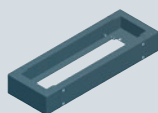
| Cubicle height | Cubicle width | Article No. |
|----------------|----------------|---------------|
| 1800 mm | 300/600/900 mm | 8GK9200-8KK00 |
| 2000 mm | 300/600/900 mm | 8GK9200-8KK01 |

Front covers for cabling compartment



| Height | Width | Cubicle height | Cubicle width | Article No. |
|----------------|------------|----------------|---------------|----------------------------------|
| 800 + 1000 mm | 250/300 mm | 1800 mm | 300 mm | 8GK9607-5KK10 + 8GK9607-7KK10 |
| | | | 900 mm | 8GK9606-5KK10 + 8GK9606-7KK10 |
| 1000 + 1000 mm | 250/300 mm | 2000 mm | 300 mm | 8GK9607-7KK10 + 8GK9607-7KK10 |
| | | | 900 mm | 8GK9606-7KK10 + 8GK9606-7KK10 |

Bases



| Color | Height | Cubicle height | Cubicle width | Article No. |
|------------|--------|----------------|---------------|---------------|
| Blue-green | 100 mm | 1800/2000 mm | 300 mm | 8GK9906-0KK15 |
| | | | 600 mm | 8GK9906-0KK25 |
| | | | 900 mm | 8GK9906-0KK35 |

Side panels



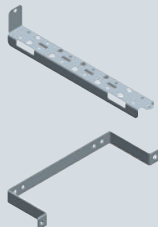
| Color | Cubicle height | Cubicle width | Article No. |
|-----------------|----------------|----------------|---------------|
| RAL 7035 (pair) | 1800 mm | 300/600/900 mm | 8GK9200-8KK04 |
| | 2000 mm | 300/600/900 mm | 8GK9200-8KK05 |
| Blue-green | 1800 mm | 300/600/900 mm | 8GK9200-8KK07 |
| | 2000 mm | 300/600/900 mm | 8GK9200-8KK08 |

Supports



| Versions | Height | Article No. |
|-------------------------|---------|---------------|
| Mounting stays (pair) | 1600 mm | 8GK6850-0KK02 |
| | 1800 mm | 8GK6850-0KK03 |
| | 2000 mm | 8GK6850-0KK04 |
| Rear universal supports | 1800 mm | 8GK6850-0KK05 |
| | 2000 mm | 8GK6850-0KK06 |

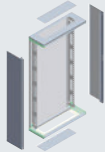
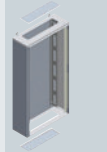

Crossbars



| Versions | Article No. |
|--|---------------|
| Upper crossbar | 8GK6850-0KK00 |
| Lateral crossbar | 8GK6850-0KK01 |
| Adapter for installation of assembly kits in the cabling compartment, width 250 mm (2 units) | 8GK9920-0KK01 |

ALPHA 630 UNIVERSAL wall-mounted distribution boards

Rated current 630 A

| | | | | | Flat pack | Unequipped distribution boards | Distribution boards with built-in distribution board panels |
|---------|---------|---------|---------|--------|---|---|---|
| | | | | | Degree of protection | | |
| | | | | | IP43 | IP30 / IP55 | IP55 |
| | | | | |  |  |  |
| Height | Depth | Width | | | Safety class I | Safety class I | Safety class I |
| Outside | Inside | Outside | Outside | Inside | | | |
| 450 mm | 400 mm | 250 mm | 650 mm | 600 mm | 8GK2100-0KS23 | – | – |
| 650 mm | 600 mm | 250 mm | 650 mm | 600 mm | 8GK2100-1KS23 | 8GK2124-1KK23 | – |
| 850 mm | 800 mm | 250 mm | 650 mm | 600 mm | 8GK2100-2KS23 | 8GK2124-2KK23 | 8GK9988-0KL00 |
| 1050 mm | 1000 mm | 250 mm | 650 mm | 600 mm | 8GK2100-3KS23 | 8GK2124-3KK23 | 8GK9988-0KL01 |
| | | | 950 mm | 900 mm | 8GK2100-4KS23 | 8GK2124-3KK33 | – |
| 1250 mm | 1200 mm | 250 mm | 650 mm | 600 mm | 8GK2100-3KL23 | 8GK2124-4KK23 | 8GK9988-0KL02 |
| | | | 950 mm | 900 mm | 8GK2100-4KL23 | 8GK2124-4KK33 | – |

Accessories

Sheet-steel doors

| | | | | Flat pack IP43 | Unequipped distribution boards IP55 |
|-----------------------|----------------|---------------|---------------|----------------|-------------------------------------|
| Versions | Cubicle height | Cubicle width | Article No. | Article No. | |
| Standard | 400 mm | 600 mm | 8GK9515-3KK20 | – | |
| | 600 mm | 600 mm | 8GK9515-4KK20 | 8GK9515-4KK20 | |
| | 800 mm | 600 mm | 8GK9515-5KK20 | 8GK9515-5KK23 | |
| | 1000 mm | 600 mm | 8GK9515-6KK20 | 8GK9515-6KK23 | |
| | | 900 mm | 8GK9515-6KK30 | 8GK9515-6KK33 | |
| | 1200 mm | 600 mm | 8GK9515-7KK20 | 8GK9515-7KK23 | |
| For cable compartment | 1000 mm | 900 mm | 8GK9515-7KK30 | 8GK9515-7KK33 | |
| | | 900 mm | 8GK9515-7KK40 | 8GK9515-6KK43 | |
| | 1200 mm | 900 mm | 8GK9515-6KK40 | 8GK9515-6KK43 | |
| | | 600 + 300 mm | – | 8GK9515-7KK43 | |

Transparent doors

| Versions | Cubicle height | Cubicle width | Article No. | Article No. |
|-----------------|----------------|---------------|---------------|---------------|
| Standard | 400 mm | 600 mm | 8GK9505-3KK20 | – |
| | 600 mm | 600 mm | 8GK9505-4KK20 | 8GK9505-4KK20 |
| | 800 mm | 600 mm | 8GK9505-5KK20 | 8GK9505-5KK23 |
| | 1000 mm | 600 mm | 8GK9505-6KK20 | 8GK9505-6KK23 |
| | | 900 mm | 8GK9505-6KK30 | 8GK9505-6KK33 |
| | 1200 mm | 600 mm | 8GK9505-7KK20 | 8GK9505-7KK23 |
| Giugiaro design | 400 mm | 600 mm | 8GK9507-2KK23 | – |
| | | 600 mm | 8GK9507-4KK23 | 8GK9507-4KK23 |
| | 800 mm | 600 mm | 8GK9507-5KK23 | 8GK9507-5KK23 |
| | 1000 mm | 600 mm | 8GK9507-7KK23 | 8GK9507-7KK23 |
| | | 900 mm | 8GK9507-7KK33 | 8GK9507-7KK33 |
| | 1200 mm | 600 mm | 8GK9507-8KK23 | 8GK9507-8KK23 |
| | 900 mm | 8GK9507-8KK33 | 8GK9507-8KK33 | |

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Accessories

| | | | | | Flat pack IP43 | Unequipped distribution boards IP55 | |
|---|--|----------------------------|-----------------------|-----------------------|-------------------------------|-------------------------------------|--------------------|
| Double doors | | | | | | | |
|  | Versions | Width | Cubicle height | Cubicle width | Article No. | Article No. | |
| | Made of sheet steel | 600 + 250 mm ¹⁾ | 1000 mm | 900 mm | 8GK9515-6KK20 + 8GK9515-6KK40 | 8GK9515-6KK23 + 8GK9515-6KK43 | |
| | | | 1200 mm | 900 mm | 8GK9515-7KK20 + 8GK9515-7KK40 | 8GK9515-7KK23 + 8GK9515-7KK43 | |
| | Transparent door + sheet-steel door | 600 + 250 mm | 1000 mm | 900 mm | 8GK9505-6KK20 + 8GK9515-6KK40 | 8GK9505-6KK23 + 8GK9515-6KK43 | |
| | | | 1200 mm | 900 mm | 8GK9505-7KK20 + 8GK9515-7KK40 | 8GK9505-7KK23 + 8GK9515-7KK43 | |
| | Transparent door in Giugiaro design + sheet-steel door | 600 + 250 mm ¹⁾ | 1600 mm | 900 mm | 8GK9507-7KK23 + 8GK9515-6KK40 | 8GK9507-7KK23 + 8GK9515-6KK43 | |
| | | | 1800 mm | 900 mm | 8GK9507-8KK23 + 8GK9515-7KK40 | 8GK9507-8KK23 + 8GK9515-7KK43 | |
| | Vertical profile bars for cabling compartment | | | | | | |
| |  | | | Cubicle height | Cubicle width | Article No. | Article No. |
| | | 1000 mm | 900 mm | 8GK9125-7KK01 | 8GK9125-7KK01 | | |
| | | 1200 mm | 900 mm | 8GK9127-8KK01 | 8GK9127-8KK01 | | |
| Front covers for cabling compartment | | | | | | | |
|  | Height | Width | Cubicle height | Cubicle width | Article No. | Article No. | |
| | 1000 mm | 250/300 mm | 1000 mm | 900 mm | 8GK9606-7KK10 | 8GK9606-7KK10 | |
| | 600 + 600 mm | 250/300 mm | 1200 mm | 900 mm | 8GK9606-4KK10 + 8GK9606-4KK10 | 8GK9606-4KK10 + 8GK9606-4KK10 | |
| Bases | | | | | | | |
|  | Color | Height | Cubicle height | Cubicle width | Article No. | Article No. | |
| | Blue-green | 100 mm | 600/1200 mm | 600 mm | 8GK9906-0KK23 | 8GK9906-0KK23 | |
| | | | 1000/1200 mm | 900 mm | 8GK9606-4KK10 | 8GK9906-0KK33 | |
| Covers for cable entry and cable duct | | | | | | | |
|  | | | Cubicle height | Cubicle width | Article No. | Article No. | |
| | | | 600/1200 mm | 600 mm | 8GK9920-0KK41 | 8GK9920-0KK41 | |
| | | | 1000/1200 mm | 900 mm | 8GK9920-0KK42 | 8GK9920-0KK42 | |
| Side panels | | | | | | | |
|  | Color | | | Cubicle height | Cubicle width | Article No. | |
| | Blue-green | | | 600 mm | 600 mm | – | 8GK9122-4KK01 |
| | | | | 800 mm | 600 mm | – | 8GK9122-5KK01 |
| | | | | 1000 mm | 600/900 mm | – | 8GK9122-6KK01 |
| | | | | 1200 mm | 600/900 mm | – | 8GK9122-7KK01 |
| | | | | | | | |

¹⁾ For distribution boards of width 900 with double door and vertical profile bar

ALPHA 630 UNIVERSAL floor-mounted distribution boards





Rated current 630 A

| | | | | | Flat pack | Unequipped distribution boards | Distribution boards with built-in distribution board panels | With assembly kit for 3VL molded case circuit breakers |
|---------|---------|---------|----------------|--------|---|---|---|---|
| | | | | | Degree of protection | | | |
| | | | | | IP43 | IP30 / IP55 | IP55 | IP55 |
| | | | | |  |  |  |  |
| Height | Depth | Width | Safety class I | | Safety class I | Safety class I | Safety class I | Safety class I |
| Outside | Outside | Outside | Outside | Inside | | | | |
| 1650 mm | 1600 mm | 250 mm | 350 mm | 300 mm | 8GK2300-5KL13 | 8GK2325-5KK13 | – | – |
| | | | 650 mm | 600 mm | 8GK2300-5KL23 | 8GK2325-5KK23 | – | – |
| | | | 950 mm | 900 mm | 8GK2300-5KL43 | 8GK2325-5KK43 | – | – |
| 1850 mm | 1800 mm | 250 mm | 350 mm | 300 mm | 8GK2300-6KL13 | 8GK2325-6KK13 | – | – |
| | | | 650 mm | 600 mm | 8GK2300-6KL23 | 8GK2325-6KK23 | 8GK2348-7KL00 | 8GK2348-7KL01 |
| | | | 950 mm | 900 mm | 8GK2300-6KL43 | 8GK2325-6KK43 | – | – |
| 2050 mm | 2000 mm | 250 mm | 350 mm | 300 mm | 8GK2300-7KL13 | 8GK2325-7KK13 | – | – |
| | | | 650 mm | 600 mm | 8GK2300-7KL23 | 8GK2325-7KK23 | – | – |
| | | | 950 mm | 900 mm | 8GK2300-7KL43 | 8GK2325-7KK43 | – | – |

ALPHA 630 UNIVERSAL floor-mounted distribution boards

Rated current 630 A

Accessories

| | | | | | Flat pack | Unequipped distribution boards | |
|---|--|--------------|----------------|-------------------------------|-------------------------------|--------------------------------|-------------|
| Sheet-steel doors | | | | | | | |
|  | Versions | Width | Cubicle height | Cubicle width | Article No. | Article No. | |
| | Standard | - | 1600 mm | 300 mm | 8GK9515-8KK10 | 8GK9515-8KK10 | |
| | | | | 600 mm | 8GK9515-8KK20 | 8GK9515-8KK20 | |
| | | | | 900 mm | 8GK9515-8KK30 | 8GK9515-8KK30 | |
| | | | 1800 mm | 300 mm | 8GK9515-8KK11 | 8GK9515-8KK11 | |
| | | | | 600 mm | 8GK9515-8KK21 | 8GK9515-8KK21 | |
| | | | | 900 mm | 8GK9515-8KK31 | 8GK9515-8KK31 | |
| | | | 2000 mm | 300 mm | 8GK9515-8KK12 | 8GK9515-8KK12 | |
| | | | | 600 mm | 8GK9515-8KK22 | 8GK9515-8KK22 | |
| | | | | 900 mm | 8GK9515-8KK32 | 8GK9515-8KK32 | |
| | For cable compartment | 250 mm | 1600 mm | 900 mm | 8GK9515-8KK40 | 8GK9515-8KK40 | |
| | | | 1800 mm | 900 mm | 8GK9515-8KK41 | 8GK9515-8KK41 | |
| | | | 2000 mm | 900 mm | 8GK9515-8KK42 | 8GK9515-8KK42 | |
| | Transparent doors | | | | | | |
| |  | Versions | | Cubicle height | Cubicle width | Article No. | Article No. |
| Standard | | | 1600 mm | 300 mm | 8GK9505-8KK11 | 8GK9505-8KK11 | |
| | | | | 600 mm | 8GK9505-8KK20 | 8GK9505-8KK20 | |
| | | | | 900 mm | 8GK9505-8KK30 | 8GK9505-8KK30 | |
| | | | 1800 mm | 300 mm | 8GK9505-8KK12 | 8GK9505-8KK12 | |
| | | | | 600 mm | 8GK9505-8KK21 | 8GK9505-8KK21 | |
| | | | | 900 mm | 8GK9505-8KK31 | 8GK9505-8KK31 | |
| | | | 2000 mm | 300 mm | 8GK9505-8KK10 | 8GK9505-8KK10 | |
| | | | | 600 mm | 8GK9505-8KK22 | 8GK9505-8KK22 | |
| | | | | 900 mm | 8GK9505-8KK32 | 8GK9505-8KK32 | |
| Giugiaro design | | | 1600 mm | 600 mm | 8GK9507-8KK20 | 8GK9507-8KK20 | |
| | | | | 900 mm | 8GK9507-8KK30 | 8GK9507-8KK30 | |
| | | | 1800 mm | 600 mm | 8GK9507-8KK21 | 8GK9507-8KK21 | |
| | | | | 900 mm | 8GK9507-8KK31 | 8GK9507-8KK31 | |
| | | | 2000 mm | 600 mm | 8GK9507-8KK22 | 8GK9507-8KK22 | |
| | 900 mm | | | 8GK9507-8KK32 | 8GK9507-8KK32 | | |
| Double doors | | | | | | | |
|  | Versions | Width | Cubicle height | Cubicle width | Article No. | Article No. | |
| | Made of sheet steel | 600 + 250 mm | 1600 mm | 900 mm | 8GK9515-8KK20 + 8GK9515-8KK40 | 8GK9515-8KK20 + 8GK9515-8KK40 | |
| | | | | 900 mm | 8GK9515-8KK21 + 8GK9515-8KK41 | 8GK9515-8KK21 + 8GK9515-8KK41 | |
| | | | 1800 mm | 900 mm | 8GK9515-8KK22 + 8GK9515-8KK42 | 8GK9515-8KK22 + 8GK9515-8KK42 | |
| | | | | 900 mm | 8GK9515-8KK20 + 8GK9515-8KK40 | 8GK9515-8KK20 + 8GK9515-8KK40 | |
| | | | 2000 mm | 900 mm | 8GK9515-8KK21 + 8GK9515-8KK41 | 8GK9515-8KK21 + 8GK9515-8KK41 | |
| | | | | 900 mm | 8GK9515-8KK22 + 8GK9515-8KK42 | 8GK9515-8KK22 + 8GK9515-8KK42 | |
| | Transparent door + sheet-steel door | 600 + 250 mm | 1600 mm | 900 mm | 8GK9505-8KK20 + 8GK9515-8KK40 | 8GK9505-8KK20 + 8GK9515-8KK40 | |
| | | | | 900 mm | 8GK9505-8KK21 + 8GK9515-8KK41 | 8GK9505-8KK21 + 8GK9515-8KK41 | |
| | | | 1800 mm | 900 mm | 8GK9505-8KK22 + 8GK9515-8KK42 | 8GK9505-8KK22 + 8GK9515-8KK42 | |
| | | | | 900 mm | 8GK9505-8KK20 + 8GK9515-8KK40 | 8GK9505-8KK20 + 8GK9515-8KK40 | |
| | | | 2000 mm | 900 mm | 8GK9505-8KK21 + 8GK9515-8KK41 | 8GK9505-8KK21 + 8GK9515-8KK41 | |
| 900 mm | | | | 8GK9505-8KK22 + 8GK9515-8KK42 | 8GK9505-8KK22 + 8GK9515-8KK42 | | |
| Transparent door in Giugiaro design + sheet-steel door | 600 + 250 mm | 1600 mm | 900 mm | 8GK9507-8KK20 + 8GK9515-8KK40 | 8GK9507-8KK20 + 8GK9515-8KK40 | | |
| | | | 900 mm | 8GK9507-8KK21 + 8GK9515-8KK41 | 8GK9507-8KK21 + 8GK9515-8KK41 | | |
| | | 1800 mm | 900 mm | 8GK9507-8KK22 + 8GK9515-8KK42 | 8GK9507-8KK22 + 8GK9515-8KK42 | | |
| | | | 900 mm | 8GK9507-8KK20 + 8GK9515-8KK40 | 8GK9507-8KK20 + 8GK9515-8KK40 | | |
| | | 2000 mm | 900 mm | 8GK9507-8KK21 + 8GK9515-8KK41 | 8GK9507-8KK21 + 8GK9515-8KK41 | | |
| | | | 900 mm | 8GK9507-8KK22 + 8GK9515-8KK42 | 8GK9507-8KK22 + 8GK9515-8KK42 | | |
| Vertical profile bars for cabling compartment | | | | | | | |
|  | | | Cubicle height | Cubicle width | Article No. | Article No. | |
| | | | 1600 mm | 900 mm | 8GK9125-8KK11 | 8GK9125-8KK11 | |
| | | | 1800 mm | 900 mm | 8GK9125-8KK12 | 8GK9125-8KK12 | |
| | | | 2000 mm | 900 mm | 8GK9125-8KK13 | 8GK9125-8KK13 | |

Accessories

Front covers for cabling compartment

| Height | Width | Cubicle height | Cubicle width | Flat pack | | Unequipped distribution boards | |
|----------------|------------|----------------|---------------|----------------------------------|----------------------------------|--------------------------------|-------------|
| | | | | Article No. | Article No. | Article No. | Article No. |
| 800 + 800 mm | 250/300 mm | 1600 mm | 300 mm | 8GK9607-5KK10 + 8GK9607-5KK10 | 8GK9607-5KK10 + 8GK9607-5KK10 | 800 + 1000 mm | 250/300 mm |
| | | | 900 mm | 8GK9606-5KK10 + 8GK9606-5KK10 | 8GK9606-5KK10 + 8GK9606-5KK10 | | |
| 800 + 1000 mm | 250/300 mm | 1800 mm | 300 mm | 8GK9607-5KK10 + 8GK9607-7KK10 | 8GK9607-5KK10 + 8GK9607-7KK10 | 1000 + 1000 mm | 250/300 mm |
| | | | 900 mm | 8GK9606-5KK10 + 8GK9606-7KK10 | 8GK9606-5KK10 + 8GK9606-7KK10 | | |
| 1000 + 1000 mm | 250/300 mm | 2000 mm | 300 mm | 8GK9607-7KK10 + 8GK9607-7KK10 | 8GK9607-7KK10 + 8GK9607-7KK10 | | |
| | | | 900 mm | 8GK9606-7KK10 + 8GK9606-7KK10 | 8GK9606-7KK10 + 8GK9606-7KK10 | | |

Bases

| Color | Height | Cubicle height | Cubicle width | Article No. | Article No. |
|------------|--------|----------------|---------------|---------------|---------------|
| Blue-green | 100 mm | 1600/2000 mm | 300 mm | 8GK9906-0KK13 | 8GK9906-0KK13 |
| | | 1600/2000 mm | 600 mm | 8GK9906-0KK23 | 8GK9906-0KK23 |
| | | 1600/2000 mm | 900 mm | 8GK9906-0KK33 | 8GK9906-0KK33 |

Covers for cable entry and cable duct





| Cubicle height | Cubicle width | Article No. | Article No. |
|----------------|---------------|---------------|---------------|
| 1600/2000 mm | 300 mm | 8GK9920-0KK40 | 8GK9920-0KK40 |
| 1600/2000 mm | 600 mm | 8GK9920-0KK41 | 8GK9920-0KK41 |
| 1600/2000 mm | 900 mm | 8GK9920-0KK42 | 8GK9920-0KK42 |

Side panels

| Color | Cubicle height | Cubicle width | Article No. | Article No. |
|-----------------|----------------|----------------|---------------|---------------|
| RAL 7035 (pair) | 1600 mm | 300/600/900 mm | 8GK9120-8KK00 | 8GK9122-8KK03 |
| | 1800 mm | 300/600/900 mm | 8GK9120-8KK01 | 8GK9122-8KK04 |
| | 2000 mm | 300/600/900 mm | 8GK9120-8KK02 | 8GK9122-8KK05 |

ALPHA UNIVERSAL 125 distribution boards

Rated current 125 A

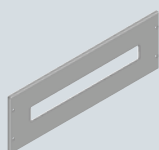
| | | | | | | Surface-mounting distribution boards | | Flush-mounting distribution boards | |
|----------------------|---------|---------|---------|--------|--------------|---|--|---|---|
| | | | | | | With sheet-steel door | With transparent door | With sheet-steel door | With transparent door |
| Degree of protection | | | | | | IP43 | IP43 | IP31D | IP31D |
| | | | | | |  |  |  |  |
| Height | Depth | Width | Tiers | | | Safety class I | Safety class I | Safety class I | Safety class I |
| Outside | Inside | Outside | Outside | Inside | (MW = 18 mm) | | | | |
| 450 mm | 400 mm | 140 mm | 660 mm | 600 mm | 48 (2 × 24) | 8GK2042-0KL21 | 8GK2042-0KM21 | – | – |
| 650 mm | 600 mm | 140 mm | 660 mm | 600 mm | 72 (3 × 24) | 8GK2042-1KL21 | 8GK2042-1KM21 | – | – |
| 800 mm | 850 mm | 140 mm | 660 mm | 600 mm | 96 (4 × 24) | 8GK2042-2KL21 | 8GK2042-2KM21 | – | – |
| 1050 mm | 1000 mm | 140 mm | 660 mm | 600 mm | 120 (5 × 24) | 8GK2042-3KL21 | 8GK2042-3KM21 | – | – |
| 1250 mm | 1200 mm | 140 mm | 660 mm | 600 mm | 144 (6 × 24) | 8GK2042-4KL21 | 8GK2042-4KM21 | – | – |
| 508 mm | 400 mm | 140 mm | 718 mm | 600 mm | 48 (2 × 24) | – | – | 8GK2043-0KL21 | 8GK2043-0KM21 |
| 708 mm | 600 mm | 140 mm | 718 mm | 600 mm | 72 (3 × 24) | – | – | 8GK2043-1KL21 | 8GK2043-1KM21 |
| 908 mm | 800 mm | 140 mm | 718 mm | 600 mm | 96 (4 × 24) | – | – | 8GK2043-2KL21 | 8GK2043-2KM21 |
| 1108 mm | 1000 mm | 140 mm | 718 mm | 600 mm | 120 (5 × 24) | – | – | 8GK2043-3KL21 | 8GK2043-3KM21 |
| 1308 mm | 1200 mm | 140 mm | 718 mm | 600 mm | 144 (6 × 24) | – | – | 8GK2043-4KL21 | 8GK2043-4KM21 |

Accessories

Front covers

- With quick-lock screws and integrated grounding connection

| Version | Height | Width | Article No. |
|----------------------------------|--------|--------|---------------|
| Closed | 50 mm | 600 mm | 8GK9620-1KK20 |
| | 100 mm | 600 mm | 8GK9621-1KK20 |
| | 150 mm | 600 mm | 8GK9622-1KK20 |
| | 200 mm | 600 mm | 8GK9623-1KK20 |
| | 400 mm | 600 mm | 8GK9622-2KK20 |
| | 600 mm | 600 mm | 8GK9622-4KK20 |
| | 800 mm | 600 mm | 8GK9622-5KK20 |
| For modular installation devices | 150 mm | 600 mm | 8GK9608-1KK22 |
| | 200 mm | 600 mm | 8GK9608-1KK20 |
| | 300 mm | 600 mm | 8GK9608-2KK22 |
| | 400 mm | 600 mm | 8GK9608-2KK20 |
| | 450 mm | 600 mm | 8GK9608-3KK22 |
| | 600 mm | 600 mm | 8GK9608-4KK20 |



Standard mounting rails for modular installation devices

| Width | Article No. |
|--------|---------------|
| 600 mm | 8GK9920-0KK11 |



Holders for cable duct

| Width | Article No. |
|--------|---------------|
| 600 mm | 8GK9920-0KK20 |



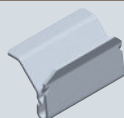
Grounding bars, PE

| Width | Article No. |
|----------------------------------|---------------|
| 600 mm (20 × 5 mm ²) | 8GK9920-0KK10 |



Hinges for covers

| Version | Article No. |
|-------------------|---------------|
| For hinged covers | 8GK9120-0KK11 |



Rotary handles

| Version | Color | Article No. |
|----------|-------|---------------|
| Plastic | Black | 8GK9560-0KK04 |
| Lockable | Black | 8GK9560-0KK13 |



Profile semicylinders E012

| Version | Article No. |
|------------------------|---------------|
| Insert and key 8GK9560 | 8GK9560-0KK07 |



Rotary handles for profile semicylinders

| Version | Article No. |
|---------------------------------|---------------|
| For 40 mm profile semicylinders | 8GK9560-0KK06 |



Assembly kits

For 3VA molded case circuit breakers



| Switches Type | Rated current | No. of | Rotary operating mechanism | Distribution board | | With RCD module Infeed side | Without RCD module |
|------------------------|---------------|--------|-------------------------------|--------------------|------------------|--------------------------------|--------------------|
| | | | | Height outside | Width outside | | |
| 3VA10.. and 3VA11.. | 100 A/160 A | 1 | – | 200 mm | 600 mm | 8GK6735-2KK23 | 8GK6730-2KK23 |
| | | | | | 900 mm | 8GK6735-2KK33 | 8GK6730-2KK33 |
| | | | ■ | 200 mm | 600 mm | – | 8GK6733-2KK23 |
| | | | | | 900 mm | – | 8GK6733-2KK33 |
| 3VA12.. | 250 A | 1 | – | 200 mm | 600 mm | 8GK6736-2KK23 | 8GK6721-2KK23 |
| | | | | | 900 mm | 8GK6736-2KK33 | 8GK6721-2KK33 |
| | | | ■ | 200 mm | 600 mm | – | 8GK6734-2KK23 |
| | | | | | 900 mm | – | 8GK6734-2KK33 |
| 3VA20.. and 3VA22.. | 100 A/250 A | 1 | – | 200 mm | 600 mm | 8GK6725-2KK23 | 8GK6720-2KK23 |
| | | | | | 900 mm | 8GK6725-2KK33 | 8GK6720-2KK33 |
| | | | ■ | 200 mm | 600 mm | – | 8GK6723-2KK23 |
| | | | | | 900 mm | – | 8GK6723-2KK33 |
| 3VA23.. and 3VA24.. | 400 A/630 A | 1 | – | 400 mm | 600 mm | – | 8GK6740-4KK23 |
| | | | | | 900 mm | 8GK6745-4KK23 | 8GK6740-4KK33 |

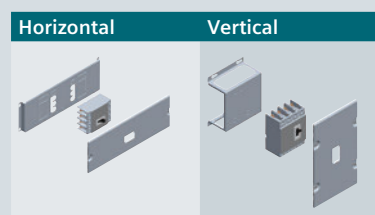
Vertical



| Switches Type | Rated current | No. of | Motorized operating mechanism | Distribution board | | Mit RCD-Modul | | Without RCD module | | |
|------------------------|------------------------|------------------|-------------------------------------|--------------------|------------------|---------------|---------------|--------------------|---------------|---------------|
| | | | | Height outside | Width outside | Infeed side | At side | | | |
| 3VA10.. and 3VA11.. | 100 A / 160 A | 1 | – | 200 mm | 300 mm | – | – | 8GK6731-2KK13 | | |
| | | | | 400 mm | 250 mm | – | – | 8GK6730-4KK43 | | |
| | | | | | 300 mm | – | 8GK6731-6KK13 | 8GK6730-4KK13 | | |
| | | | | | 600 mm | 250 mm | 8GK6735-4KK43 | – | – | |
| | | | | | 300 mm | – | 8GK6735-6KK13 | – | – | |
| | | | | ■ | 400 mm | 300 mm | – | 8GK6738-6KK13 | 8GK6734-4KK13 | |
| | | | | 600 mm | 300 mm | 8GK6736-6KK13 | – | – | | |
| | 3 | – | – | – | 200 mm | 600 mm | – | – | 8GK6731-2KK23 | |
| | | | | | 400 mm | 600 mm | – | 8GK6731-6KK23 | 8GK6730-4KK23 | |
| | | | | | | | 900 mm | – | – | 8GK6731-6KK33 |
| | | | | | | 600 mm | 600 mm | 8GK6735-6KK23 | – | – |
| | | | | | ■ | 200 mm | 600 mm | – | – | 8GK6734-4KK23 |
| | | | | | | 400 mm | 600 mm | – | 8GK6737-6KK23 | – |
| | | | | 900 mm | – | 8GK6737-6KK33 | – | – | | |
| | | | | 600 mm | 600 mm | 8GK6736-6KK23 | – | – | | |
| | 5 | – | – | – | 200 mm | 900 mm | – | – | 8GK6731-2KK33 | |
| | | | | | 400 mm | 900 mm | – | – | 8GK6730-4KK33 | |
| | | | | | | | 900 mm | – | – | 8GK6734-4KK33 |
| | | | | | 200 mm | 900 mm | – | – | – | |
| | | | | ■ | 400 mm | 900 mm | – | – | 8GK6734-4KK33 | |
| | | | | | 600 mm | 900 mm | 8GK6736-6KK33 | – | – | |
| 3VA12.. | 250 A | 1 | – | 400 mm | 300 mm | – | – | 8GK6721-4KK13 | | |
| | | | | 600 mm | 250 mm | 8GK6732-6KK13 | – | 8GK6730-6KK13 | | |
| | | | | | | 300 mm | – | 8GK6722-6KK13 | 8GK6721-6KK13 | |
| | | 3 | – | – | 400 mm | 600 mm | – | – | 8GK6721-4KK23 | |
| | | | | | 600 mm | 600 mm | – | 8GK6724-6KK23 | 8GK6721-6KK23 | |
| | | | | ■ | 400 mm | 600 mm | – | – | 8GK6722-6KK23 | |
| | | | | 600 mm | 600 mm | – | 8GK6723-6KK23 | – | | |
| | 5 | – | – | 400 mm | 900 mm | – | – | 8GK6721-4KK33 | | |
| | | | | 600 mm | 900 mm | – | 8GK6724-6KK33 | 8GK6721-6KK33 | | |
| | | | ■ | 400 mm | 900 mm | – | – | 8GK6722-6KK33 | | |
| | | | | 600 mm | 900 mm | – | 8GK6723-6KK33 | – | | |
| | 3VA20.. and 3VA22.. | 100 A / 250 A | 1 | – | 400 mm | 300 mm | – | – | 8GK6720-4KK13 | |
| 600 mm | | | | | 300 mm | 8GK6725-6KK13 | – | – | | |
| 3 | | | – | – | 400 mm | 600 mm | – | – | 8GK6720-4KK23 | |
| | | | | | 600 mm | 600 mm | 8GK6725-6KK23 | – | – | |
| | | | | ■ | 400 mm | 600 mm | – | – | 8GK6724-4KK23 | |
| | | | | | 400 mm | 900 mm | – | – | 8GK6720-4KK33 | |
| 5 | – | – | 400 mm | 900 mm | – | – | – | | | |
| | | | 600 mm | 900 mm | 8GK6725-6KK33 | – | – | | | |
| | | ■ | 400 mm | 900 mm | – | – | 8GK6724-4KK33 | | | |
| 3VA23.. and 3VA24.. | 400 A / 630 A | 1 | – | 600 mm | 300 mm | – | – | 8GK6740-6KK13 | | |
| | | 2 | – | 600 mm | 600 mm | 8GK6745-6KK23 | – | 8GK6740-6KK23 | | |
| | | 3 | – | 600 mm | 900 mm | 8GK6745-6KK33 | – | 8GK6740-6KK33 | | |

Assembly kits

For 3VL molded case circuit breakers



| Switches | | Distribution board | | | | | |
|------------------------|---|---|----------------------|----------------------|----------------------|---------------|---------------|
| Type | Version | No. of | Height outside | Width outside | | | |
| VL160X – VL160 – VL250 | Max. 250 A | 1 | 200 mm | 300 mm ²⁾ | 8GK6711-2KK13 | – | |
| | | | 400 mm | 250 mm ¹⁾ | – | 8GK6710-4KK13 | |
| | | 3 | 200 mm | 300 mm ²⁾ | – | 8GK6711-4KK13 | – |
| | | | 400 mm | 600 mm | 8GK6710-2KK23 | – | 8GK6710-4KK23 |
| | | 5 | 200 mm | 900 mm | 8GK6710-2KK33 | – | 8GK6710-4KK33 |
| | | | 400 mm | 900 mm | – | 8GK6710-4KK33 | – |
| | With rotary operating mechanism | 3 | 200 mm | 600 mm | 8GK6711-2KK23 | – | |
| | | 5 | 200 mm | 900 mm | 8GK6701-2KK33 | – | |
| | VL160X | With interconnected residual current operated circuit breaker | 1 | 300 mm | 600 mm | – | 8GK6710-3KK23 |
| | | | | 900 mm | 900 mm | – | 8GK6710-3KK33 |
| | | With residual current operated circuit breaker mounted underneath | 1 | 400 mm | 250 mm ¹⁾ | – | 8GK6725-4KK13 |
| | | | | 600 mm | 250 mm ¹⁾ | – | 8GK6713-4KK13 |
| 3 | | 200 mm | 600 mm | 8GK6712-2KK23 | – | 8GK6710-6KK23 | |
| | | 600 mm | 600 mm | – | 8GK6710-6KK23 | – | |
| 5 | 200 mm | 900 mm | 8GK6704-2KK33 | – | 8GK6710-6KK33 | | |
| | 600 mm | 900 mm | – | 8GK6710-6KK33 | – | | |
| VL160 – VL250 | With residual current operated circuit breaker mounted underneath | 1 | 400 mm | 250 mm ¹⁾ | – | 8GK6726-4KK13 | |
| | | | 600 mm | 250 mm ¹⁾ | – | 8GK6712-4KK13 | |
| | | 3 | 200 mm | 600 mm | 8GK6713-2KK23 | – | 8GK6711-6KK23 |
| | | | 600 mm | 600 mm | – | 8GK6711-6KK23 | – |
| | | 5 | 200 mm | 900 mm | 8GK6705-2KK33 | – | 8GK6711-6KK33 |
| | | | 600 mm | 900 mm | – | 8GK6711-6KK33 | – |
| VL400 | Max. 400 A | 1 | 200 mm | 600 mm | 8GK6714-2KK23 | – | |
| | | | 600 mm | 250 mm ¹⁾ | – | 8GK6710-6KK13 | |
| | | 2 | 200 mm | 300 mm ²⁾ | – | 8GK6723-6KK13 | – |
| | | | 600 mm | 600 mm | – | 8GK6712-6KK23 | – |
| | | 2 | 200 mm | 900 mm | 8GK6706-2KK33 | – | 8GK6712-6KK33 |
| | | | 600 mm | 900 mm | – | 8GK6712-6KK33 | – |
| | With residual current operated circuit breaker mounted underneath | 1 | 200 mm | 600 mm | 8GK6715-2KK23 | – | |
| | | | 600 mm | 250 mm ¹⁾ | – | 8GK6712-6KK13 | |
| | 2 | 200 mm | 300 mm ²⁾ | – | 8GK6727-6KK13 | – | |
| | | 600 mm | 600 mm | – | 8GK6713-6KK23 | – | |
| | 2 | 200 mm | 900 mm | 8GK6707-2KK33 | – | 8GK6713-6KK33 | |
| | | 600 mm | 900 mm | – | 8GK6713-6KK33 | – | |
| VL630 | Max. 630 A | 1 | 400 mm | 600 mm | 8GK6715-4KK23 | – | |
| | | | | 900 mm | 8GK6715-4KK33 | – | |
| | | 600 mm | 250 mm ¹⁾ | – | 8GK6711-6KK13 | | |
| | | | 300 mm ²⁾ | – | 8GK6724-6KK13 | | |
| | | 600 mm | 600 mm | – | 8GK6714-6KK23 | | |
| | | | 900 mm | – | 8GK6714-6KK33 | | |
| VL800 | Max. 800 A (for ALPHA 800 UNIVERSAL only) | 1 | 600 mm | 600 mm | – | 8GK6700-6KK24 | |
| | | | | 900 mm | – | 8GK6700-6KK34 | |

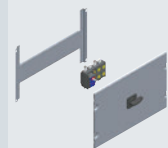
¹⁾ The assembly kits for 3VL molded case circuit breakers have a cover with a cutout and are designed to accommodate the installation of both 3 and 4-pole circuit breakers. If installing 3-pole circuit breakers, we recommend that you do not leave the cutout open but cover it with blanking strip 8GK9910-0KK00. For further details, please refer to the mounting instructions at: <http://support.automation.siemens.com/WW/view/en/53477794/130000>

²⁾ In order to install assembly kits in the cubicles width 300 mm of the ALPHA 630 UNIVERSAL, you must order the following inner supports: 8GK9126-8KK03 (height 1600 mm), 8GK9126-8KK04 (height 1800 mm) and 8GK9126-8KK05 (height 2000 mm). In order to use cubicle width 300 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order the following side supports: 8GK6850-0KK02 (height 1600 mm), 8GK6850-0KK03 (height 1800 mm) and 8GK6850-0KK04 (height 2000 mm).

Assembly kits

For 3KA7 switch disconnectors

Vertical



| Switches Type | Description | No. of | Distribution board | | | | |
|------------------|-------------------------------|-------------------------------|--------------------|----------------------|---------------|---------------|---------------|
| | | | Height outside | Width outside | Depth | | |
| 3KA7 | 3KA711 size 1 max. 125 A | 1 | 200 mm | 600 mm | – | 8GK6400-2KK20 | |
| | | | 400 mm | 250 mm ¹⁾ | – | 8GK6400-4KK10 | |
| | | | | 300 mm ²⁾ | – | 8GK6400-4KK11 | |
| | | 3 | 200 mm | 900 mm | – | 8GK6400-2KK30 | |
| | | | 400 mm | 250 mm ¹⁾ | – | 8GK6401-4KK10 | |
| | | | | 300 mm ²⁾ | – | 8GK6401-4KK12 | |
| | 3KA712 size 2 max. 250 A | 1 | 400 mm | 250 mm ¹⁾ | – | 8GK6401-4KK10 | |
| | | | | 300 mm ²⁾ | – | 8GK6401-4KK12 | |
| | | | 600 mm | – | 8GK6400-4KK20 | | |
| | | 3 | 400 mm | 900 mm | – | 8GK6400-4KK30 | |
| | | | 400 mm | 600 mm | – | 8GK6401-4KK20 | |
| | | | | 900 mm | – | 8GK6400-4KK31 | |
| 3KA7 / 3KL7 | 3KA7/3KL711 size 1 max. 125 A | 1 | 400 mm | 250 mm | 250 mm | 8GK6430-4KK03 | |
| | | | | 300 mm | 250 mm | 8GK6430-4KK14 | |
| | | | 2 | 200 mm | 600 mm | 250 mm | 8GK6430-4KK24 |
| | | 3KA7/3KL712 size 2 max. 250 A | 1 | 400 mm | 250 mm | 400 mm | 8GK6431-4KK04 |
| | | | | | 300 mm | 400 mm | 8GK6431-4KK14 |
| | | | | 2 | 400 mm | 600 mm | 250 mm |
| | 3KA7/3KL713 size 3 max. 400 A | 1 | 400 mm | 600 mm | 400 mm | 8GK6432-4KK24 | |
| | | | | 900 mm | 400 mm | 8GK6432-4KK34 | |
| | | | 2 | 400 mm | 600 mm | 400 mm | 8GK6433-4KK24 |
| | | 3KA7/3KL714 size 4 max. 630 A | 1 | 400 mm | 600 mm | 400 mm | 8GK6433-4KK34 |
| | | | | | 900 mm | 400 mm | 8GK6433-4KK34 |
| | | | | 400 mm | 900 mm | 400 mm | 8GK6433-4KK34 |

¹⁾ In order to use box width 250 mm in the ALPHA 630 UNIVERSAL as a switchgear compartment, the following mounting rails (pair) are required:

8GF9655 (height 1000 mm),
8GF9656 (height 1200 mm),
8GF9650 (height 1600 mm),
8GF9658 (height 1800 mm),
8GF9654 (height 2000 mm).

In order to use box width 250 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-OKK01.

²⁾ In order to use cubicle width 300 mm in the ALPHA 630 UNIVERSAL as a switchgear compartment, you require the following inner supports:

8GK9126-8KK03 (height 1600 mm),
8GK9126-8KK04 (height 1800 mm),
8GK9126-8KK05 (height 2000 mm).

In order to use cubicle width 300 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order the following side supports:

8GK6850-OKK02 (height 1600 mm),
8GK6850-OKK03 (height 1800 mm),
8GK6850-OKK04 (height 2000 mm).

For 3KF switch disconnectors with fuses



| Switches Type | Rated current | Operating mechanism in center | Door-coupling rotary operating mechanism | Distribution board | | | |
|-------------------------------------|---------------|-------------------------------|--|--------------------|--------|--------|---------------|
| | | | | Height | Width | Depth | |
| 2x 3KF1 | 80 A | ■ | – | 200 mm | 600 mm | 250 mm | 8GK6431-2KK23 |
| | | | | | 900 mm | 250 mm | 8GK6431-2KK33 |
| 2x 3KF2 | 160 A | ■ | – | 200 mm | 600 mm | 250 mm | 8GK6432-2KK23 |
| | | | | | 900 mm | 250 mm | 8GK6432-2KK33 |
| 2x 3KF1 / 3KF2 or 1x 3KF3 / 3KF4 | 400 A | – | ■ | 400 mm | 600 mm | 400 mm | 8GK6431-4KK33 |
| | | | | | 900 mm | 400 mm | 8GK6432-4KK33 |

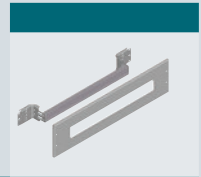
For 3KD switch disconnectors



| Switches Size | Rated current | No. of | Door-coupling rotary operating mechanism | Distribution board | | |
|---------------|---------------------------------|--------|--|--------------------|---------------|---------------|
| | | | | Height outside | Width outside | |
| 1 / 2 / 3 | 63 A / 250 A / 400 A | 1 / 1 | ■ | 400 mm | 250 mm | 8GK6430-4KK13 |
| 1 / 2 / 3 / 4 | 63 A / 250 A / 400 A / 630 A | 2 / 1 | ■ | 400 mm | 600 mm | 8GK6430-4KK23 |
| 1 / 2 / 3 / 4 | 63 A / 250 A / 400 A / 630 A | 2 | ■ | 400 mm | 900 mm | 8GK6430-4KK33 |

Assembly kits

For modular installation devices



| Switches No. of tiers | MW | Distribution board | | |
|--------------------------|----|--------------------|---------------|---------------|
| | | Height outside | Width outside | |
| 1 | 12 | 200 mm | 300 mm | 8GK6352-2KK13 |
| | 24 | 150 mm | 600 mm | 8GK6302-1KK23 |
| | | 200 mm | 600 mm | 8GK6352-2KK23 |
| | 36 | 150 mm | 900 mm | 8GK6302-1KK33 |
| | | 200 mm | 900 mm | 8GK6352-2KK33 |

Accessories

Standard mounting rails



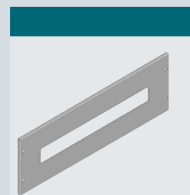
| Version | Width | No. of tiers | Article No. |
|--|--------|--------------|-------------|
| For mounting modular devices at various depths | 600 mm | 1 | 8GF9670 |
| | 900 mm | 1 | 8GF9671 |

Depth adapters 9 mm



| Version | Width | No. of tiers | MW | Article No. |
|--|--------|--------------|----|-------------|
| For linking 5SY and 5SJ on standard mounting rails, L 360 mm ²⁾ | 600 mm | 1 | 20 | 8GF9670-1 |

For front cover with cutout



| Switches No. of tiers | MW | Distribution board | | |
|--------------------------|-----|--------------------|---------------|---------------|
| | | Height outside | Width outside | |
| 1 | 24 | 150 mm | 600 mm | 8GK9608-1KK22 |
| | 24 | 200 mm | 600 mm | 8GK9608-1KK20 |
| | 36 | 150 mm | 900 mm | 8GK9608-1KK32 |
| | | 200 mm | 900 mm | 8GK9608-1KK30 |
| 2 | 48 | 300 mm | 600 mm | 8GK9608-2KK22 |
| | | 400 mm | 600 mm | 8GK9608-2KK20 |
| | 72 | 300 mm | 900 mm | 8GK9608-2KK32 |
| | | 400 mm | 900 mm | 8GK9608-2KK30 |
| | | 450 mm | 600 mm | 8GK9608-3KK22 |
| | 108 | 600 mm | 600 mm | 8GK9608-4KK20 |
| | | 600 mm | 900 mm | 8GK9608-4KK30 |

Accessories

Standard mounting rails

| | Version | Width | No. of tiers | Article No. |
|--|--|--------|--------------|-------------|
| | For mounting modular devices at various depths | 600 mm | 1 | 8GF9670 |
| | | 900 mm | 1 | 8GF9671 |

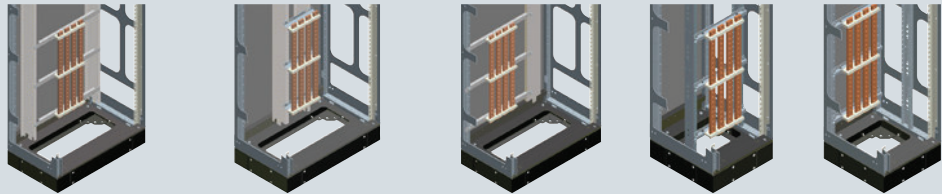
Depth adapters 9 mm

| | Version | Width | No. of tiers | MW | Article No. |
|--|--|--------|--------------|----|-------------|
| | For linking 5SY and 5SJ on standard mounting rails, L 360 mm ²⁾ | 600 mm | 1 | 20 | 8GF9670-1 |

Busbars

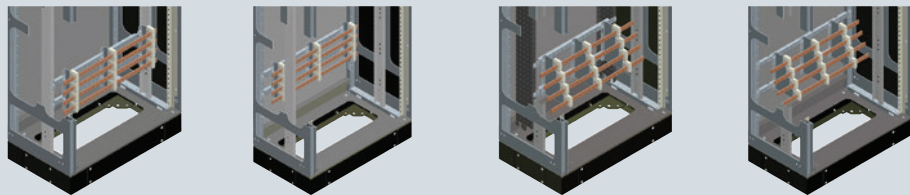
For ALPHA 800 / 630 UNIVERSAL distribution boards

Vertical installation of rear busbars (single bars only)



| Version | Width 600/900 mm | For a spacing of 150 mm, width 600/900 mm | Recessed, width 600/900 mm | Width 300 mm | Recessed, width 300 mm |
|------------------|--|---|--|-------------------------------|------------------------|
| Busbar supports: | 8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm) | 8GF5762/63 | 8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm) | 8GF5768/70 | 8GF5768/70 |
| Supplements: | Rear universal supports | 8GK6850-0KK05 /06 (2 units) | 8GK6850-0KK05 /06 (2 units) | 8GK6850-0KK05 /06 (1 unit) | – |

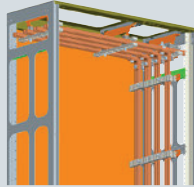
Horizontal busbars (single bars only)



| Version | Front | Recessed | At front, with steps | Recessed, with steps |
|------------------|-------------------------|--|--|--|
| Busbar supports: | 8GF5762/63 | 8GF5762/63 | 8GF5760/61 | 8GF5760/61 |
| Supplements: | Support plate | 8GF9652 (width 600 mm) 8GF9653 (width 900 mm) | 8GK9920-0KK35 (width 600 mm) 8GK9920-0KK36 (width 900 mm) | 8GF9652 (width 600 mm) 8GF9653 (width 900 mm) |
| | Rear universal supports | – | 8GK6850-0KK05 /06 (2 units) | – |

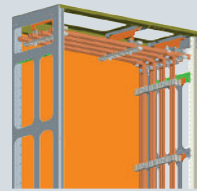
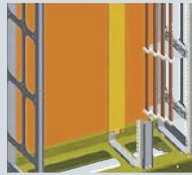
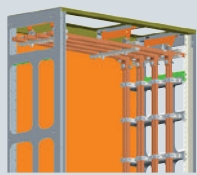
For ALPHA 800 UNIVERSAL distribution boards

Horizontal busbars at top (double bars only)




| Version | | |
|-----------------|--|---------------|
| Busbar supports | With support plate | 8GK9750-0KK02 |
| | Without support plate | 8PQ4000-1BA12 |
| Supplements | If there is no support 8GK9750-0KK02 mounted onto the side of the cabling compartment, you will need to order an upper crossbar 8GK6850-0KK00. | |


Vertical busbars, for sides




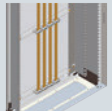
| Version | | Double busbar with steps | Single busbar with steps | Double busbar | Busbar |
|------------------|------------------|--------------------------|--------------------------|---------------|---------------|
| Busbar supports: | | 8GK9750-0KK01 | 8GF5760/61 | 8GK9750-0KK02 | 8GF5762/63 |
| Supplements | Lateral crossbar | 8GK6850-0KK01 | 8GK6850-0KK01 | 8GK6850-0KK01 | 8GK6850-0KK01 |


Busbars

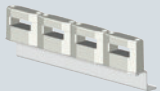
| | | ALPHA 630 | ALPHA 800 |
|---|-----------------------------|---------------|--------------------|
| Copper busbars | | | |
|  | Busbar cross-section | Length | Article No. |
| | 15 × 5 | 2000 mm | 8GF5751 |
| | | 1300 mm | 8GF5771 |
| | 20 × 5 | 2000 mm | 8GF5737 |
| | | 1300 mm | 8GF5772 |
| | 30 × 5 | 2000 mm | 8GF5742 |
| 1300 mm | | 8GF5773 | |
| 30 × 10 | 2000 mm | 8GF5752 | |
| | 1300 mm | 8GF5774 | |

| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|---------------|---------------|---------------|
| Copper grounding bars | | | | |
|  | Busbar cross-section | Length | Width | |
| | 20 × 5 | 1300/2000 mm | 600 mm | 8GK9920-0KK10 |
| | | | 900 mm | 8GK9920-0KK13 |
| | | | 8GK9920-0KK10 | |

| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|--------------|------------------------|-------|
| Busbar supports | | | | |
| Vertical at side / horizontal, at front, graded | | | | |
|  | Busbar cross-section | Width | Number of poles | |
| | 15/20/30 × 5 | 600/900 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| | 30 × 10 | 600/900 mm | 4-pole | 50 mm |
| | 15/20/30 × 10 | 600/900 mm | 4-pole | 50 mm |
| 20/30 × 10 | 600/900 mm | 4-pole | 50 mm | |

| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|--------------|------------------------|-------|
| Vertical | | | | |
|  | Busbar cross-section | Width | Number of poles | |
| | 15/20/30 × 5 | 300 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| 30 × 10 | 300 mm | 4-pole | 50 mm | |



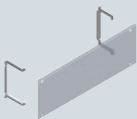


| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|--------------|------------------------|-------|
| Vertical at rear | | | | |
|  | Busbar cross-section | Width | Number of poles | |
| | 15/20/30 × 5 | 600 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| | 30 × 10 | 600 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| 4-pole | | | 50 mm | |

| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|----------------|------------------------|-------|
| Horizontal, at front¹⁾ | | | | |
|  | Busbar cross-section | Width | Number of poles | |
| | 15/20/30 × 5 | 300/600/900 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| | 30 × 10 | 300/600/900 mm | 4-pole | 50 mm |
| 4-pole | | | 50 mm | |

| | | ALPHA 630 | ALPHA 800 | |
|---|-----------------------------|--------------|------------------------|-------|
| Horizontal, at top | | | | |
|  | Busbar cross-section | Width | Number of poles | |
| | 20/30 × 10 | 600/900 mm | 4-pole | 50 mm |
| | | | 4-pole | 50 mm |
| | | | 8GK9750-0KK02 | |

¹⁾ Can be mounted directly on equipment racks with a clearance of 525 mm (width 600 mm) and 825 mm (width 900 mm).

Further accessories


| | | | | ALPHA 630 | ALPHA 800 |
|---|---|---------------------|--------------------------|--------------------|--------------------|
| Set of screws/bolts for slotted bars | | | | | |
|  | Cross-section | Outer thread | Tightening torque | Article No. | Article No. |
| | 15/20/30 × 5 | M6 | 8 Nm | 8GF5891 | 8GF5891 |
| | 30 × 10 | M8 | 20 Nm | 8GF5892 | 8GF5892 |
| Crossbars for installation of support | | | | | |
|  | Version | Width | | Article No. | Article No. |
| | For 8GF5762, 8GF5760, 8GF5763, 8GK9608-1KK22 | 600 mm | | 8GF9652 | 8GF9652 |
| | | 900 mm | | 8GF9653 | 8GF9653 |
| | For 8GF5760 | 600 mm | | 8GK9920-0KK35 | 8GK9920-0KK35 |
| | | 900 mm | | 8GK9920-0KK36 | 8GK9920-0KK36 |
| | For 8GK9750-0KK02 | 400 mm | | – | 8GK6850-0KK00 |
| | For 8GF5760, 8GF5768, 8GF5761, 8GF5770, 8GK9750- 0KK01, 8GK9750-0KK02 | 400 mm | | – | 8GK6850-0KK01 |
| Transparent cover | | | | | |
|  | Version | Width | | Article No. | Article No. |
| | For horizontal busbars, at front | 600 mm | | 8GK9920-0KK37 | 8GK9920-0KK37 |
| | | 900 mm | | 8GK9920-0KK38 | 8GK9920-0KK38 |
| Connecting kit for double bars | | | | | |
|  | Version | | Current | Article No. | Article No. |
| | Connecting kit for upper horizontal bars – vertical busbars | | 800 A | – | 8GK9790-0KK00 |
| | Connecting kit for upper horizontal busbars | | 800 A | – | 8GK9790-0KK01 |
| Holder for grounding bar | | | | | |
|  | | | | Article No. | Article No. |
| | | | | – | 8GK9750-0KK00 |

Accessories

Covers and holders

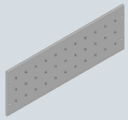
125 630 800

Covers for mounting measuring instruments




| Measuring devices | Type | Height | Width | Article No. | 125 | 630 | 800 |
|-------------------|--------------------------------|--------|--------|---------------|-----|-----|-----|
| 72 x 72 | 2 instruments + 2 selectors | 200 mm | 600 mm | 8GK9610-1KK20 | ■ | ■ | ■ |
| | | | 900 mm | 8GK9610-1KK30 | ■ | ■ | ■ |
| | 4 instruments + 1 selector | 200 mm | 600 mm | 8GK9611-1KK20 | ■ | ■ | ■ |
| | | | 900 mm | 8GK9611-1KK30 | ■ | ■ | ■ |
| 96 x 96 | 2 instruments + 2 selectors | 200 mm | 600 mm | 8GK9612-1KK20 | ■ | ■ | ■ |
| | | | 900 mm | 8GK9612-1KK30 | ■ | ■ | ■ |
| | 4 instruments + 1 selector | 200 mm | 600 mm | 8GK9613-1KK20 | ■ | ■ | ■ |
| | | | 900 mm | 8GK9613-1KK30 | ■ | ■ | ■ |

Covers for pushbuttons and indicator lights



| Height | Width | Article No. | 125 | 630 | 800 |
|--------|--------|---------------|-----|-----|-----|
| 200 mm | 600 mm | 8GK9630-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9631-1KK20 | ■ | ■ | ■ |

Non-transparent covers




| Height | Width | Article No. | 125 | 630 | 800 |
|---------|--------|---------------|-----|-----|-----|
| 50 mm | 600 mm | 8GK9620-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9620-1KK30 | ■ | ■ | ■ |
| 100 mm | 600 mm | 8GK9621-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9621-1KK30 | ■ | ■ | ■ |
| 150 mm | 600 mm | 8GK9622-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9622-1KK30 | ■ | ■ | ■ |
| 200 mm | 300 mm | 8GK9607-1KK10 | ■ | ■ | ■ |
| | 600 mm | 8GK9623-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9623-1KK30 | ■ | ■ | ■ |
| 400 mm | 250 mm | 8GK9606-2KK10 | ■ | ■ | ■ |
| | 300 mm | 8GK9607-2KK10 | ■ | ■ | ■ |
| | 600 mm | 8GK9622-2KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9622-2KK30 | ■ | ■ | ■ |
| 600 mm | 250 mm | 8GK9606-4KK10 | ■ | ■ | ■ |
| | 300 mm | 8GK9607-4KK10 | ■ | ■ | ■ |
| | 600 mm | 8GK9622-4KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9622-4KK30 | ■ | ■ | ■ |
| 800 mm | 250 mm | 8GK9606-5KK10 | ■ | ■ | ■ |
| | 300 mm | 8GK9607-5KK10 | ■ | ■ | ■ |
| | 600 mm | 8GK9622-5KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9622-5KK30 | ■ | ■ | ■ |
| 1000 mm | 250 mm | 8GK9606-7KK10 | ■ | ■ | ■ |
| | 300 mm | 8GK9607-7KK10 | ■ | ■ | ■ |

Deep-drawn covers 25 mm

| Height | Width | Article No. | 125 | 630 | 800 |
|---------|--------|---------------|-----|-----|-----|
| 800 mm | 600 mm | 8GK9635-5KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9635-5KK30 | ■ | ■ | ■ |
| 1000 mm | 600 mm | 8GK9636-7KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9636-7KK30 | ■ | ■ | ■ |

Deep-drawn front covers 35 mm

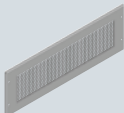


| Height | Width | Article No. | 125 | 630 | 800 |
|--------|--------|---------------|-----|-----|-----|
| 200 mm | 600 mm | 8GK9605-1KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9605-1KK30 | ■ | ■ | ■ |
| 400 mm | 600 mm | 8GK9605-2KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9605-2KK30 | ■ | ■ | ■ |
| 600 mm | 600 mm | 8GK9605-4KK20 | ■ | ■ | ■ |
| | 900 mm | 8GK9605-4KK30 | ■ | ■ | ■ |


Covers and holders

125 630 800


Covers with ventilation openings IP30

| | Height | Width | Article No. | 125 | 630 | 800 |
|---|--------|--------|---------------|-----|-----|-----|
|  | 200 mm | 600 mm | 8GK9632-1KK20 | ■ | ■ | ■ |
| | | 900 mm | 8GK9633-1KK20 | ■ | ■ | ■ |

Holders for horizontal cable ducts / horizontal busbars (pair)


| | Width | Article No. | 125 | 630 | 800 |
|---|--------|-------------|-----|-----|-----|
|  | 600 mm | 8GF9652 | ■ | ■ | ■ |
| | 900 mm | 8GF9653 | ■ | ■ | ■ |

Horizontal crossbars with steps (pair)

| | Width | Article No. | 125 | 630 | 800 |
|---|--------|---------------|-----|-----|-----|
|  | 600 mm | 8GK9920-0KK35 | ■ | ■ | ■ |
| | 900 mm | 8GK9920-0KK36 | ■ | ■ | ■ |

Support rails (pair)

- ALPHA 630 UNIVERSAL vertical/horizontal busbar support, with steps
- Vertical side terminal strip (not suitable for use in ALPHA 800 UNIVERSAL)

| | Height | Article No. | 125 | 630 | 800 |
|---|---------|-------------|-----|-----|-----|
|  | 1000 mm | 8GF9655 | ■ | ■ | ■ |
| | 1200 mm | 8GF9656 | ■ | ■ | ■ |
| | 1600 mm | 8GF9650 | ■ | ■ | ■ |
| | 1800 mm | 8GF9658 | ■ | ■ | ■ |
| | 2000 mm | 8GF9654 | ■ | ■ | ■ |

Inner supports

- For using cubicle B 300 as a switchgear compartment in ALPHA 630 UNIVERSAL (not suitable for use in ALPHA 800 UNIVERSAL)

| | Height | Article No. | 125 | 630 | 800 |
|---|---------|---------------|-----|-----|-----|
|  | 1600 mm | 8GK9126-8KK03 | ■ | ■ | ■ |
| | 1800 mm | 8GK9126-8KK04 | ■ | ■ | ■ |
| | 2000 mm | 8GK9126-8KK05 | ■ | ■ | ■ |

Accessories

Mounting plates and inner subdivisions

125 630 800

Modular mounting plates

- ALPHA 800 UNIVERSAL: for mounting on side supports or on the base of the cabinet



| Height | Width | Article No. | 125 | 630 | 800 |
|--------|--------|-------------|-----|-----|-----|
| 200 mm | 600 mm | 8GF7155 | ■ | ■ | ■ |
| | 900 mm | 8GF7158 | ■ | ■ | ■ |
| 400 mm | 600 mm | 8GF7156 | ■ | ■ | ■ |
| | 900 mm | 8GF7160 | ■ | ■ | ■ |
| 600 mm | 600 mm | 8GF7157 | ■ | ■ | ■ |
| | 900 mm | 8GF7161 | ■ | ■ | ■ |

Recessed modular mounting plates

- ALPHA 800 UNIVERSAL: for mounting on two rear supports or on the rear panel of the cabinet with one rear support



| Height | Width | Article No. | 125 | 630 | 800 |
|--------|--------|-------------|-----|-----|-----|
| 200 mm | 600 mm | 8GF9676 | ■ | ■ | ■ |
| | 900 mm | 8GF9680 | ■ | ■ | ■ |
| 400 mm | 600 mm | 8GF9677 | ■ | ■ | ■ |
| | 900 mm | 8GF9681 | ■ | ■ | ■ |
| 600 mm | 600 mm | 8GF9678 | ■ | ■ | ■ |
| | 900 mm | 8GF9682 | ■ | ■ | ■ |

2 mm mounting plates for electrotechnical use with height and width of the cabinet

- ALPHA 800 UNIVERSAL: Plates that are not as high as the cabinet can be mounted using side supports and holders 8GF9652/3



| Height | Width | Article No. | 125 | 630 | 800 |
|---------|--------|---------------|-----|-----|-----|
| 600 mm | 600 mm | 8GK9535-4KK21 | ■ | ■ | ■ |
| 800 mm | 600 mm | 8GK9535-5KK21 | ■ | ■ | ■ |
| 1000 mm | 600 mm | 8GK9536-7KK21 | ■ | ■ | ■ |
| | 900 mm | 8GK9536-7KK31 | ■ | ■ | ■ |
| 1200 mm | 600 mm | 8GK9537-8KK21 | ■ | ■ | ■ |
| | 900 mm | 8GK9537-8KK31 | ■ | ■ | ■ |
| 1600 mm | 600 mm | 8GK9535-8KK23 | ■ | ■ | ■ |
| | 900 mm | 8GK9535-8KK26 | ■ | ■ | ■ |
| 1800 mm | 600 mm | 8GK9535-8KK24 | ■ | ■ | ■ |
| | 900 mm | 8GK9535-8KK34 | ■ | ■ | ■ |
| 2000 mm | 600 mm | 8GK9535-8KK25 | ■ | ■ | ■ |
| | 900 mm | 8GK9535-8KK35 | ■ | ■ | ■ |

Adjustable depth brackets for mounting plates



| Distribution board depth | Article No. | 125 | 630 | 800 |
|--------------------------|---------------|-----|-----|-----|
| 250 mm | 8GK9930-0KK03 | | ■ | |

Partitions for ALPHA 630 UNIVERSAL



| Mounting | Height | Width | Article No. | 125 | 630 | 800 |
|------------|---------|--------|---------------|-----|-----|-----|
| Horizontal | – | 250 mm | 8GK9525-0KK03 | | ■ | |
| | – | 300 mm | 8GK9525-0KK13 | | ■ | |
| | – | 600 mm | 8GK9525-0KK23 | | ■ | |
| | – | 900 mm | 8GK9525-0KK33 | | ■ | |
| Vertical | 800 mm | – | 8GK9525-5KK03 | | ■ | |
| | 1000 mm | – | 8GK9525-6KK03 | | ■ | |
| | 1200 mm | – | 8GK9525-7KK03 | | ■ | |
| | 1600 mm | – | 8GK9525-8KK03 | | ■ | |
| | 1800 mm | – | 8GK9525-8KK13 | | ■ | |
| | 2000 mm | – | 8GK9525-8KK23 | | ■ | |

Mounting plates and inner subdivisions

125 630 800

Partitions for ALPHA 800 UNIVERSAL incabinets in form 2b

| Mounting | Height | Width | Article No. | 125 | 630 | 800 |
|---|---------|--------|---------------|-----|-----|-----|
|  Horizontal subdivisions between devices | – | 300 mm | 8GK9526-0KK06 | | | ■ |
| | – | 600 mm | 8GK9526-0KK07 | | | ■ |
| | – | 900 mm | 8GK9526-0KK08 | | | ■ |
|  Horizontal subdivisions between upper busbar compartment and devices | – | 250 mm | 8GK9527-0KK05 | | | ■ |
| | – | 300 mm | 8GK9526-0KK03 | | | ■ |
| | – | 600 mm | 8GK9526-0KK04 | | | ■ |
| | – | 900 mm | 8GK9526-0KK05 | | | ■ |
|  Vertical subdivisions between the switchgear compartment and busbar compartment | 1600 mm | 600 mm | 8GK9526-0KK00 | | | ■ |
| | 1800 mm | 600 mm | 8GK9526-0KK01 | | | ■ |
| | 2000 mm | 600 mm | 8GK9526-0KK02 | | | ■ |

Transparent covers

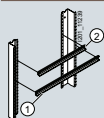
| Width | Article No. | 125 | 630 | 800 |
|--------|---------------|-----|-----|-----|
| 250 mm | 8GK9527-0KK03 | ■ | ■ | ■ |
| 300 mm | 8GK9527-0KK00 | ■ | ■ | ■ |
| 600 mm | 8GK9527-0KK01 | ■ | ■ | ■ |
| 900 mm | 8GK9527-0KK02 | ■ | ■ | ■ |

Accessories

Holders for terminal strips and locking systems

125 630 800

Standard mounting rails for terminal blocks



| Version | Height | Width | Article No. | 125 | 630 | 800 |
|--------------------------------|--------|--------|-------------|-----|-----|-----|
| Horizontal | – | 600 mm | 8GF9672 | ■ | ■ | ■ |
| | – | 900 mm | 8GF9674 | ■ | ■ | ■ |
| Horizontal, recessed | – | 600 mm | 8GF9673 | ■ | ■ | ■ |
| | – | 900 mm | 8GF9675 | ■ | ■ | ■ |
| Vertical with 3 mounting rails | 200 mm | 600 mm | 8GF7175 | ■ | ■ | ■ |
| | 400 mm | 600 mm | 8GF7176 | ■ | ■ | ■ |
| Vertical with 5 mounting rails | – | 900 mm | 8GF7178 | ■ | ■ | ■ |
| | 400 mm | 900 mm | 8GF7180 | ■ | ■ | ■ |

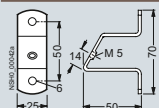
Holder for vertical terminal strips in side compartment L = 900 mm



- ALPHA 800 UNIVERSAL: Each holder must be mounted onto a lateral crossbar

| Width | Article No. | 125 | 630 | 800 |
|------------|-------------|-----|-----|-----|
| 600/900 mm | 8GF9683 | ■ | ■ | ■ |

Mounting brackets



| Version | Width | Article No. | 125 | 630 | 800 |
|---|------------|-------------|-----|-----|-----|
| For angular mounting of the terminal blocks | 600/900 mm | 8WA746 | ■ | ■ | ■ |

Holders for standard mounting rails

| Version | Scope of supply | Width | Article No. | 125 | 630 | 800 |
|---|-----------------|------------|---------------|-----|-----|-----|
| For mounting the terminal strip vertically in the cabling compartment | 4 units | 600/900 mm | 8GK9920-0KK28 | ■ | ■ | ■ |

Standard locking devices for wall-mounted distribution boards



| Material | Width | Article No. | 125 | 630 | 800 |
|-------------------------------------|------------|---------------|-----|-----|-----|
| Made of plastic, black (spare part) | 600/900 mm | 8GK9560-0KK04 | ■ | ■ | ■ |

Seals for standard locking devices



| Degree of protection | Width | Article No. | 125 | 630 | 800 |
|----------------------|------------|---------------|-----|-----|-----|
| IP55 | 600/900 mm | 8GK9560-0KK05 | ■ | ■ | ■ |

Rotary handle locking mechanism



- For wall-mounted distribution boards, IP43 and IP55, semicylinder insert possible for E012

| Width | Article No. | 125 | 630 | 800 |
|------------|---------------|-----|-----|-----|
| 600/900 mm | 8GK9560-0KK06 | ■ | ■ | ■ |

Profile semicylinders E012



- Insert and key

| Width | Article No. | 125 | 630 | 800 |
|------------|---------------|-----|-----|-----|
| 600/900 mm | 8GK9560-0KK07 | ■ | ■ | ■ |

Locking systems for floor-mounted distribution boards



| Version | Width | Article No. | 125 | 630 | 800 |
|--|------------|---------------|-----|-----|-----|
| Espagnolette lock with pushbutton (replacement part) | 600/900 mm | 8GK9561-0KK01 | ■ | ■ | ■ |
| Insert for profile semicylinder with key | 600/900 mm | 8GK9561-0KK02 | ■ | ■ | ■ |
| Profile semicylinder, 40 mm with lock E012 (for use only with espagnolette lock) | 600/900 mm | 8GK9561-0KK00 | ■ | ■ | ■ |

Further accessories

125 630 800

Assembly kit for mounting flat pack cabinets for self-assembly, IP43

| Height | Article No. | 125 | 630 | 800 |
|---------|---------------|-----|-----|-----|
| 400 mm | 8GK9126-3KK00 | ■ | ■ | ■ |
| 600 mm | 8GK9126-4KK00 | ■ | ■ | ■ |
| 800 mm | 8GK9126-5KK00 | ■ | ■ | ■ |
| 1000 mm | 8GK9126-6KK00 | ■ | ■ | ■ |
| 1200 mm | 8GK9126-7KK00 | ■ | ■ | ■ |
| 1600 mm | 8GK9126-8KK00 | ■ | ■ | ■ |
| 1800 mm | 8GK9126-8KK01 | ■ | ■ | ■ |
| 2000 mm | 8GK9126-8KK02 | ■ | ■ | ■ |

Z-shaped crossbar for lifting the flat pack for self-assembly

| Height | Article No. | 125 | 630 | 800 |
|---------|---------------|-----|-----|-----|
| 600 mm | 8GK9127-0KK01 | ■ | ■ | ■ |
| 900 mm | 8GK9127-0KK02 | ■ | ■ | ■ |
| 1200 mm | 8GK9127-0KK03 | ■ | ■ | ■ |
| 1500 mm | 8GK9127-0KK04 | ■ | ■ | ■ |
| 1800 mm | 8GK9127-0KK05 | ■ | ■ | ■ |

Z-shaped crossbar for mounting and vertical linking of wall-mounted distribution boards

| Height | Article No. | 125 | 630 | 800 |
|---------|---------------|-----|-----|-----|
| 1200 mm | 8GK9920-0KK43 | ■ | ■ | ■ |
| 1400 mm | 8GK9920-0KK44 | ■ | ■ | ■ |
| 1600 mm | 8GK9920-0KK45 | ■ | ■ | ■ |
| 1800 mm | 8GK9920-0KK46 | ■ | ■ | ■ |

Flange plates for flat pack delivery (optional)

| Height | Article No. | 125 | 630 | 800 |
|--------|---------------|-----|-----|-----|
| 300 mm | 8GK9120-0KK10 | ■ | ■ | ■ |
| 600 mm | 8GK9120-0KK20 | ■ | ■ | ■ |

Ventilation grilles – side panels

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|---------------|-----|-----|-----|
| 4 units | 8GK9120-0KK30 | ■ | ■ | ■ |

Replacement hinges for doors for wall/floor-mounted distribution boards

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|---------------|-----|-----|-----|
| 2 units | 8GK9920-0KK24 | ■ | ■ | ■ |

Hinges for front covers

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|---------------|-----|-----|-----|
| 10 units | 8GK9120-0KK11 | ■ | ■ | ■ |

Hinges for covers

| Article No. | 125 | 630 | 800 |
|---------------|-----|-----|-----|
| 8PQ2000-0BA08 | ■ | ■ | ■ |

Accessories

Further accessories

125 630 800

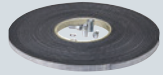
Quick-lock screws for ALPHA cabinets with ¼ turn

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|---------------|-----|-----|-----|
| 20 units | 8GK9562-0KK00 | ■ | ■ | ■ |



Mounting kit for modular distribution boards, IP55 (incl. seal)

| Article No. | 125 | 630 | 800 |
|---------------|-----|-----|-----|
| 8GK9920-0KK31 | ■ | ■ | ■ |



Self-tapping screws M6 × 10

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|-------------|-----|-----|-----|
| 10 units | 8GF9662 | ■ | ■ | ■ |



Captive nuts M6

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|-------------|-----|-----|-----|
| 100 units | 8GF9643 | ■ | ■ | ■ |

Transport eyebolts

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|-------------|-----|-----|-----|
| 4 units | 8GF9660 | ■ | ■ | ■ |



Key for double-bit interlocking mechanism

| Article No. | 125 | 630 | 800 |
|-------------|-----|-----|-----|
| 8GD9290 | ■ | ■ | ■ |



Siemens nameplate

| Material | Version | Color | Article No. | 125 | 630 | 800 |
|---------------|---------------|--------|-------------|-----|-----|-----|
| Aluminum | Self-adhesive | Petrol | 8GD9084 | ■ | ■ | ■ |
| Sticker, foil | Self-adhesive | Petrol | 8GF9661 | ■ | ■ | ■ |

Circuit diagram pockets

| Versions | Depth | Article No. | 125 | 630 | 800 |
|--|-------|---------------|-----|-----|-----|
| DIN A3, made of sheet steel | 10 mm | 8GK9910-0KK22 | ■ | ■ | ■ |
| DIN A4, transparent sleeve, adhered all-over | 10 mm | 8GK9910-0KK23 | ■ | ■ | ■ |
| DIN A4, made of plastic | 30 mm | 8GD9132 | ■ | ■ | ■ |
| DIN A4, large pack, made of plastic | 30 mm | 8GK9910-1KK24 | ■ | ■ | ■ |



Blanking cover for modular installation devices

| Version | Article No. | 125 | 630 | 800 |
|------------------------------------|---------------|-----|-----|-----|
| For 12 modular widths (1 MW=18 mm) | 8GK9910-0KK00 | ■ | ■ | ■ |



Cover strips

| Length | Article No. | 125 | 630 | 800 |
|--------|---------------|-----|-----|-----|
| 1 m | 8GK9910-0KK01 | ■ | ■ | ■ |



Spare brackets for flat pack assembly

| Scope of supply | Article No. | 125 | 630 | 800 |
|-----------------|---------------|-----|-----|-----|
| 2 units | 8GK9920-0KK26 | ■ | ■ | ■ |

Failsafe kit ALPHA

- Thread-forming tapping screws, captive nuts, hinges for covers, covers etc.

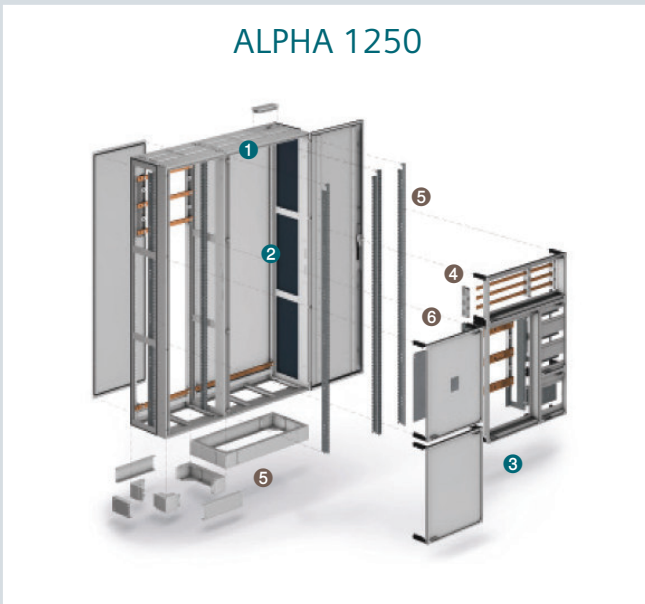
| Article No. | 125 | 630 | 800 |
|---------------|-----|-----|-----|
| 8GK9920-0KK32 | ■ | ■ | ■ |

Wall-mounting brackets

| Article No. | 125 | 630 | 800 |
|---------------|-----|-----|-----|
| 8GK9920-0KK33 | ■ | ■ | ■ |

ALPHA system overview

Distribution boards, assembly kits and accessories



1 Unequipped distribution boards



ALPHA 1250



ALPHA 630



ALPHA 630



ALPHA 400



ALPHA 160



ALPHA SIMBOX XL and WP

2 Quick-assembly kits



ALPHA 1250 / 630 / 400



ALPHA 160

3 Assembly kits



For modular installation devices



For terminal blocks



For fuse switch disconnectors



For switch disconnectors



For molded case circuit breakers



For busbar-adaptable units

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.



4 Busbars



Cu busbars

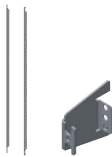


Busbar supports

5 Mechanical accessories



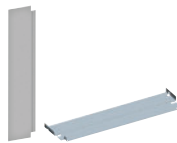
Bases



Stays



Crossbars



Partitions



Front covers



Locking system

6 Electrical accessories



N and PE terminals



Connection terminals



N/PE bars



Flanges



Cable entries



Cable holders

Note:
 You will find a detailed range of accessories with the basic units and in the Accessories section.

ALPHA 1250 floor-mounted distribution boards

Rated current 1250 A

Unequipped distribution boards
With open side panel

Unequipped distribution boards for isolating transformers
With open side panel

With closed side panel

Degree of protection IP55

IP30

IP30



| Height | | Depth | | Tiers (MW = 18 mm) | Width | | Safety class I | Safety class I | Safety class I |
|---------|---------|---------|--------|-----------------------|---------|---------|----------------|----------------|----------------|
| Outside | Inside | Outside | Inside | | Outside | Inside | | | |
| 1950 mm | 1800 mm | 400 mm | | max. 12 MW | 300 mm | 250 mm | 8GK1423-8KK15 | 8GK1483-8KP15 | 8GK1483-8KN15 |
| | | | | | 550 mm | 500 mm | 8GK1423-8KK25 | 8GK1483-8KP25 | 8GK1483-8KN25 |
| | | | | | 800 mm | 750 mm | 8GK1423-8KK35 | 8GK1483-8KP35 | 8GK1483-8KN35 |
| | | | | | 1050 mm | 1000 mm | 8GK1423-8KK45 | 8GK1483-8KP45 | 8GK1483-8KN45 |
| | | | | | 1300 mm | 1250 mm | 8GK1423-8KK55 | – | – |

Accessories

Replacement doors

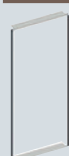


| Height | Cubicle width | Door version | Door width | Article No. | |
|---------|---------------|--------------|------------|---------------|---------------|
| 1950 mm | 300 mm | Complete | 300 mm | 8GK9513-8KK10 | |
| | 550 mm | Complete | 550 mm | 8GK9513-8KK20 | |
| | 800 mm | | Left | 525 mm | 8GK9513-8KK30 |
| | | | Right | 275 mm | 8GK9513-8KK40 |
| | 1050 mm | | Left | 525 mm | 8GK9513-8KK30 |
| | | | Right | 525 mm | 8GK9513-8KK50 |
| | 1300 mm | | Left | 775 mm | 8GK9513-8KK60 |
| | | | Right | 525 mm | 8GK9513-8KK50 |

Side panels, modular distribution board

| Depth | Article No. |
|--------|---------------|
| 400 mm | 8GK9520-0KK05 |

Assembly kits for masking frame for front cover



- For mounting the mounting stays at the rear of the modular distribution board



| Height | Width | Article No. |
|---------|---------|---------------|
| 1800 mm | 250 mm | 8GK9913-0KK10 |
| | 500 mm | 8GK9913-0KK20 |
| | 750 mm | 8GK9913-0KK30 |
| | 1000 mm | 8GK9913-0KK40 |
| | 1250 mm | 8GK9913-0KK50 |

Flange plates with rubber sleeve



- For lower flange opening (sheet steel closed)

| Number of rubber sleeves | Article No. |
|--------------------------|---------------|
| 1 | 8GK9100-0KK14 |
| 2 | 8GK9100-0KK15 |
| 3 | 8GK9100-0KK16 |
| 4 | 8GK9100-0KK17 |

| Busbar supports | | | |
|---|---|----------------|---------------|
|  | • Busbar spacing 100/185 mm | | |
| | Version | | Article No. |
| | With matching support plate for mounting on the rear panel | | 8GK9720-0KK00 |
| | Without support plate for mounting on the busbar (no fixing to the cabinet enclosure) | | 8GK9720-0KK01 |
| PEN bar holders and N/PE busbar supports | | | |
| | Version | | Article No. |
| | PEN bar holder | | 8GK9721-0KK00 |
| Pin insulator for N busbar | | | |
|  | Version | | Article No. |
| | 1P with M10 female thread and holder | | 8GK9110-0KK00 |
| Cross arm for N/PEN pin insulators and/or holders for PEN bars | | | |
|  | Width | | Article No. |
| | 250 mm | | 8GK4854-0KK10 |
| | 500 mm | | 8GK4854-0KK20 |
| | 750 mm | | 8GK4854-0KK30 |
| | 1000 mm | | 8GK4854-0KK40 |
| | 1250 mm | | 8GK4854-0KK50 |
| Longitudinal stays | | | |
|  | Height | Depth | Article No. |
| | 1800 mm | 250/320/400 mm | 8GK48538KK02 |

ALPHA 1250 marshaling boxes

Rated current 630 A

Marshaling boxes

Degree of protection IP43



| Height Outside | Depth Outside | Width | | Safety class I |
|-------------------|------------------|---------|---------|----------------|
| | | Outside | Inside | |
| 500 mm | 400 mm | 300 mm | 250 mm | 8GK1383-1KK15 |
| | | 550 mm | 500 mm | 8GK1383-1KK25 |
| | | 800 mm | 750 mm | 8GK1383-1KK35 |
| | | 1050 mm | 1000 mm | 8GK1383-1KK45 |
| | | 1300 mm | 1250 mm | 8GK1383-1KK55 |
| 650 mm | 400 mm | 300 mm | 250 mm | 8GK1383-2KK15 |
| | | 550 mm | 500 mm | 8GK1383-2KK25 |
| | | 800 mm | 750 mm | 8GK1383-2KK35 |
| | | 1050 mm | 1000 mm | 8GK1383-2KK45 |
| | | 1300 mm | 1250 mm | 8GK1383-2KK55 |

ALPHA 630 floor-mounted distribution boards

Rated current 630 A

Unequipped distribution boards
Welded and riveted

Degree of protection IP43



| Height Outside | Inside | Depth Outside | Tiers/MW | Width Outside | Inside | Safety class I | Safety class II |
|-------------------|---------|------------------|----------|------------------|---------|----------------|-----------------|
| 1950 mm | 1800 mm | 210 mm | 12/144 | 300 mm | 250 mm | 8GK1322-8KA12 | 8GK1332-8KA12 |
| | | | 24/288 | 550 mm | 500 mm | 8GK1322-8KA22 | 8GK1332-8KA22 |
| | | | 36/432 | 800 mm | 750 mm | 8GK1322-8KA32 | 8GK1332-8KA32 |
| | | | 48/576 | 1050 mm | 1000 mm | 8GK1322-8KA42 | 8GK1332-8KA42 |
| | | | 60/720 | 1300 mm | 1250 mm | 8GK1322-8KA52 | 8GK1332-8KA52 |
| | | 250 mm | 12/144 | 300 mm | 250 mm | – | – |
| | | | 24/288 | 550 mm | 500 mm | – | – |
| | | | 36/432 | 800 mm | 750 mm | – | – |
| | | | 48/576 | 1050 mm | 1000 mm | – | – |
| | | | 60/720 | 1300 mm | 1250 mm | – | – |
| | | 320 mm | 12/144 | 300 mm | 250 mm | – | – |
| | | | 24/288 | 550 mm | 500 mm | – | – |
| | | | 36/432 | 800 mm | 750 mm | – | – |
| | | | 48/576 | 1050 mm | 1000 mm | – | – |
| | | | 60/720 | 1300 mm | 1250 mm | – | – |

Accessories

Replacement doors

| Height | Cubicle width | Door version | Door width | Article No. |
|---------|---------------|--------------|------------|---------------|
| 1950 mm | 300 mm | Complete | 300 mm | 8GK9513-8KK10 |
| | | Complete | 550 mm | 8GK9513-8KK20 |
| | 800 mm | Left | 525 mm | 8GK9513-8KK30 |
| | | Right | 275 mm | 8GK9513-8KK40 |
| | 1050 mm | Left | 525 mm | 8GK9513-8KK30 |
| | | Right | 525 mm | 8GK9513-8KK50 |
| | 1300 mm | Left | 775 mm | 8GK9513-8KK60 |
| | | Right | 525 mm | 8GK9513-8KK50 |

Side panels, modular distribution board

| Depth | Article No. |
|------------|---------------|
| 250/320 mm | 8GK9520-0KK03 |



Assembly kits for masking frame for front cover

| Height | Width | Article No. |
|---------|---------|---------------|
| 1800 mm | 250 mm | 8GK9913-0KK10 |
| | 500 mm | 8GK9913-0KK20 |
| | 750 mm | 8GK9913-0KK30 |
| | 1000 mm | 8GK9913-0KK40 |
| | 1250 mm | 8GK9913-0KK50 |

| With closed side panel | | With open side panel | | Flat pack |
|------------------------|-----------------|----------------------|----------------|-----------------|
| IP55 | | IP55 | | IP43 |
| Safety class I | Safety class II | Safety class I | Safety class I | Safety class II |
| – | – | – | 8GK1302-8KK12 | 8GK1312-8KK12 |
| – | – | – | 8GK1302-8KK22 | 8GK1312-8KK22 |
| – | – | – | 8GK1302-8KK32 | 8GK1312-8KK32 |
| – | – | – | 8GK1302-8KK42 | 8GK1312-8KK42 |
| – | – | – | 8GK1302-8KK52 | 8GK1312-8KK52 |
| 8GK1323-8KN13 | 8GK1333-8KN13 | 8GK1323-8KP13 | – | – |
| 8GK1323-8KN23 | 8GK1333-8KN23 | 8GK1323-8KP23 | – | – |
| 8GK1323-8KN33 | 8GK1333-8KN33 | 8GK1323-8KP33 | – | – |
| 8GK1323-8KN43 | 8GK1333-8KN43 | 8GK1323-8KP43 | – | – |
| 8GK1323-8KN53 | 8GK1333-8KN53 | 8GK1323-8KP53 | – | – |
| 8GK1323-8KN14 | 8GK1333-8KN14 | 8GK1323-8KP14 | – | – |
| 8GK1323-8KN24 | 8GK1333-8KN24 | 8GK1323-8KP24 | – | – |
| 8GK1323-8KN34 | 8GK1333-8KN34 | 8GK1323-8KP34 | – | – |
| 8GK1323-8KN44 | 8GK1333-8KN44 | 8GK1323-8KP44 | – | – |
| 8GK1323-8KN54 | 8GK1333-8KN54 | 8GK1323-8KP54 | – | – |

ALPHA 630 marshaling boxes

Rated current 630 A

| | | | | Marshaling boxes | | |
|----------------------|----------------------|---------------|---------|--|---|---------------|
| Degree of protection | | | | IP43 | IP55 | |
| | | | |  |  | |
| Height Outside | Depth Outside | Width Outside | Inside | Safety class I | Safety class I | |
| 350 mm | 210 mm ¹⁾ | 300 mm | 250 mm | 8GK1382-0KK12 | – | |
| | | 550 mm | 500 mm | 8GK1382-0KK22 | – | |
| | | 800 mm | 750 mm | 8GK1382-0KK32 | – | |
| | | 1050 mm | 1000 mm | 8GK1382-0KK42 | – | |
| | | 1300 mm | 1250 mm | 8GK1382-0KK52 | – | |
| | 250 mm | 300 mm | 250 mm | – | 8GK1383-0KK13 | |
| | | 550 mm | 500 mm | – | 8GK1383-0KK23 | |
| | | 800 mm | 750 mm | – | 8GK1383-0KK33 | |
| | | 1050 mm | 1000 mm | – | 8GK1383-0KK43 | |
| | | 1300 mm | 1250 mm | – | 8GK1383-0KK53 | |
| | 320 mm | 300 mm | 250 mm | – | 8GK1383-0KK14 | |
| | | 550 mm | 500 mm | – | 8GK1383-0KK24 | |
| | | 800 mm | 750 mm | – | 8GK1383-0KK34 | |
| | | 1050 mm | 1000 mm | – | 8GK1383-0KK44 | |
| | | 1300 mm | 1250 mm | – | 8GK1383-0KK54 | |
| 400 mm | 250 mm | 300 mm | 250 mm | – | 8GK1383-1KK13 | |
| | | 550 mm | 500 mm | – | 8GK1383-1KK23 | |
| | | 800 mm | 750 mm | – | 8GK1383-1KK33 | |
| | | 1050 mm | 1000 mm | – | 8GK1383-1KK43 | |
| | | 1300 mm | 1250 mm | – | 8GK1383-1KK53 | |
| | 320 mm | 300 mm | 250 mm | – | 8GK1383-1KK14 | |
| | | 550 mm | 500 mm | – | 8GK1383-1KK24 | |
| | | 800 mm | 750 mm | – | 8GK1383-1KK34 | |
| | | 1050 mm | 1000 mm | – | 8GK1383-1KK44 | |
| | | 1300 mm | 1250 mm | – | 8GK1383-1KK54 | |
| | 600 mm | 250 mm | 300 mm | 250 mm | – | 8GK1383-2KK13 |
| | | | 550 mm | 500 mm | – | 8GK1383-2KK23 |
| | | | 800 mm | 750 mm | – | 8GK1383-2KK33 |
| | | | 1050 mm | 1000 mm | – | 8GK1383-2KK43 |
| | | | 1300 mm | 1250 mm | – | 8GK1383-2KK53 |
| 320 mm | | 300 mm | 250 mm | – | 8GK1383-2KK14 | |
| | | 550 mm | 500 mm | – | 8GK1383-2KK24 | |
| | | 800 mm | 750 mm | – | 8GK1383-2KK34 | |
| | | 1050 mm | 1000 mm | – | 8GK1383-2KK44 | |
| | | 1300 mm | 1250 mm | – | 8GK1383-2KK54 | |

¹⁾ For flat pack floor-mounted distribution boards only

ALPHA 400 distribution boards

Rated current 400 A

Surface-mounting distribution boards

Flat pack

Degree of protection IP43



| Height Outside | Inside | Depth Outside | Tiers (MW = 18 mm) | Width | | Safety class I | Safety class II |
|-------------------|---------|------------------|------------------------|---------|---------|----------------|-----------------|
| | | | | Outside | Inside | | |
| 500 mm | 450 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | – | – |
| | | | | 550 mm | 500 mm | – | – |
| 650 mm | 600 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-2KK12 | 8GK1112-2KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-2KK22 | 8GK1112-2KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-2KK32 | 8GK1112-2KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-2KK42 | 8GK1112-2KK42 |
| 800 mm | 750 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-3KK12 | 8GK1112-3KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-3KK22 | 8GK1112-3KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-3KK32 | 8GK1112-3KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-3KK42 | 8GK1112-3KK42 |
| 950 mm | 900 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-4KK12 | 8GK1112-4KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-4KK22 | 8GK1112-4KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-4KK32 | 8GK1112-4KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-4KK42 | 8GK1112-4KK42 |
| | | | | 1300 mm | 1250 mm | 8GK1102-4KK52 | 8GK1112-4KK52 |
| 1100 mm | 1050 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-5KK12 | 8GK1112-5KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-5KK22 | 8GK1112-5KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-5KK32 | 8GK1112-5KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-5KK42 | 8GK1112-5KK42 |
| | | | | 1300 mm | 1250 mm | 8GK1102-5KK52 | 8GK1112-5KK52 |
| 1250 mm | 1200 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-6KK12 | 8GK1112-6KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-6KK22 | 8GK1112-6KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-6KK32 | 8GK1112-6KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-6KK42 | 8GK1112-6KK42 |
| | | | | 1300 mm | 1250 mm | 8GK1102-6KK52 | 8GK1112-6KK52 |
| 1400 mm | 1350 mm | 210 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1102-7KK12 | 8GK1112-7KK12 |
| | | | | 550 mm | 500 mm | 8GK1102-7KK22 | 8GK1112-7KK22 |
| | | | | 800 mm | 750 mm | 8GK1102-7KK32 | 8GK1112-7KK32 |
| | | | | 1050 mm | 1000 mm | 8GK1102-7KK42 | 8GK1112-7KK42 |
| | | | | 1300 mm | 1250 mm | 8GK1102-7KK52 | 8GK1112-7KK52 |

| Unequipped distribution boards | | Flush-mounting distribution boards | | Unequipped distribution boards |
|--------------------------------|-----------------|------------------------------------|-----------------|--------------------------------|
| IP43 | | IP55 | | IP31 |
| Safety class I | Safety class II | Safety class I | Safety class II | Safety class I |
| 8GK1122-1KA12 | – | – | – | – |
| 8GK1122-1KA22 | – | – | – | – |
| 8GK1122-2KA12 | 8GK1132-2KA12 | – | – | – |
| 8GK1122-2KA22 | 8GK1132-2KA22 | – | – | – |
| 8GK1122-2KA32 | 8GK1132-2KA32 | – | – | – |
| 8GK1122-2KA42 | 8GK1132-2KA42 | – | – | – |
| 8GK1122-3KA12 | 8GK1132-3KA12 | – | – | – |
| 8GK1122-3KA22 | 8GK1132-3KA22 | – | – | 8GK1121-3KK22 |
| 8GK1122-3KA32 | 8GK1132-3KA32 | – | – | 8GK1121-3KK32 |
| 8GK1122-3KA42 | 8GK1132-3KA42 | – | – | – |
| 8GK1122-4KA12 | 8GK1132-4KA12 | 8GK1123-4KA12 | 8GK1133-4KA12 | – |
| 8GK1122-4KA22 | 8GK1132-4KA22 | 8GK1123-4KA22 | 8GK1133-4KA22 | 8GK1121-4KK22 |
| 8GK1122-4KA32 | 8GK1132-4KA32 | 8GK1123-4KA32 | 8GK1133-4KA32 | 8GK1121-4KK32 |
| 8GK1122-4KA42 | 8GK1132-4KA42 | 8GK1123-4KA42 | 8GK1133-4KA42 | – |
| 8GK1122-4KA52 | 8GK1132-4KA52 | 8GK1123-4KA52 | 8GK1133-4KA52 | – |
| 8GK1122-5KA12 | 8GK1132-5KA12 | 8GK1123-5KA12 | 8GK1133-5KA12 | – |
| 8GK1122-5KA22 | 8GK1132-5KA22 | 8GK1123-5KA22 | 8GK1133-5KA22 | – |
| 8GK1122-5KA32 | 8GK1132-5KA32 | 8GK1123-5KA32 | 8GK1133-5KA32 | – |
| 8GK1122-5KA42 | 8GK1132-5KA42 | 8GK1123-5KA42 | 8GK1133-5KA42 | – |
| 8GK1122-5KA52 | 8GK1132-5KA52 | 8GK1123-5KA52 | 8GK1133-5KA52 | – |
| 8GK1122-6KA12 | 8GK1132-6KA12 | 8GK1123-6KA12 | 8GK1133-6KA12 | – |
| 8GK1122-6KA22 | 8GK1132-6KA22 | 8GK1123-6KA22 | 8GK1133-6KA22 | 8GK1121-6KK22 |
| 8GK1122-6KA32 | 8GK1132-6KA32 | 8GK1123-6KA32 | 8GK1133-6KA32 | 8GK1121-6KK32 |
| 8GK1122-6KA42 | 8GK1132-6KA42 | 8GK1123-6KA42 | 8GK1133-6KA42 | – |
| 8GK1122-6KA52 | 8GK1132-6KA52 | 8GK1123-6KA52 | 8GK1133-6KA52 | – |
| 8GK1122-7KA12 | 8GK1132-7KA12 | 8GK1123-7KA12 | 8GK1133-7KA12 | – |
| 8GK1122-7KA22 | 8GK1132-7KA22 | 8GK1123-7KA22 | 8GK1133-7KA22 | 8GK1121-7KK22 |
| 8GK1122-7KA32 | 8GK1132-7KA32 | 8GK1123-7KA32 | 8GK1133-7KA32 | 8GK1121-7KK32 |
| 8GK1122-7KA42 | 8GK1132-7KA42 | 8GK1123-7KA42 | 8GK1133-7KA42 | – |
| 8GK1122-7KA52 | 8GK1132-7KA52 | 8GK1123-7KA52 | 8GK1133-7KA52 | – |

ALPHA 400 distribution boards

Rated current 400 A

Accessories




Replacement doors



| Height | Cubicle width | Door version | Door width | Article No. |
|---------|---------------|--------------|------------|---------------|
| 950 mm | 300 mm | Complete | 300 mm | 8GK9510-6KK10 |
| | | Complete | 550 mm | 8GK9510-6KK20 |
| | 550 mm | Left | 525 mm | 8GK9510-6KK31 |
| | | Right | 275 mm | 8GK9510-6KK42 |
| | 800 mm | Left | 525 mm | 8GK9510-6KK31 |
| | | Right | 525 mm | 8GK9510-6KK52 |
| | 1050 mm | Left | 775 mm | 8GK9510-6KK51 |
| | | Right | 525 mm | 8GK9510-6KK52 |
| 1100 mm | 300 mm | Complete | 300 mm | 8GK9510-7KK10 |
| | | Complete | 550 mm | 8GK9510-7KK20 |
| | 550 mm | Left | 525 mm | 8GK9510-7KK31 |
| | | Right | 275 mm | 8GK9510-7KK32 |
| | 800 mm | Left | 525 mm | 8GK9510-7KK31 |
| | | Right | 525 mm | 8GK9510-7KK42 |
| | 1050 mm | Left | 775 mm | 8GK9510-7KK41 |
| | | Right | 525 mm | 8GK9510-7KK42 |
| 1250 mm | 300 mm | Complete | 300 mm | 8GK9510-8KK10 |
| | | Complete | 550 mm | 8GK9510-8KK20 |
| | 550 mm | Left | 525 mm | 8GK9510-8KK31 |
| | | Right | 275 mm | 8GK9510-8KK32 |
| | 800 mm | Left | 525 mm | 8GK9510-8KK31 |
| | | Right | 525 mm | 8GK9510-8KK52 |
| | 1050 mm | Left | 775 mm | 8GK9510-8KK41 |
| | | Right | 525 mm | 8GK9510-8KK52 |
| 1400 mm | 300 mm | Complete | 300 mm | 8GK9510-8KK16 |
| | | Complete | 550 mm | 8GK9510-8KK26 |
| | 550 mm | Left | 525 mm | 8GK9510-8KK37 |
| | | Right | 275 mm | 8GK9510-8KK38 |
| | 800 mm | Left | 525 mm | 8GK9510-8KK37 |
| | | Right | 525 mm | 8GK9510-8KK58 |
| | 1050 mm | Left | 775 mm | 8GK9510-8KK47 |
| | | Right | 525 mm | 8GK9510-8KK58 |

ALPHA 160 distribution boards

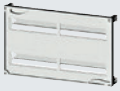



Rated current 160 A

| Degree of protection | Surface-mounting distribution boards | | Flush-mounting distribution boards |
|----------------------|---|--|---|
| | Unequipped distribution boards | Distribution boards with built-in distribution board panels | Unequipped distribution boards |
| IP43 |  |  |  |




| Height | Outside | Inside | Depth | Outside | Tiers (MW = 18 mm) | Width | | Safety class II | | Safety class II | |
|---------|---------|--------|---------------------|---------|-----------------------|---------------|---------------|-----------------|---------------|-----------------|---|
| | | | | | | Outside | Inside | | | | |
| 500 mm | 450 mm | 140 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1032-1KK11 | 8GK1052-1KK11 | 8GK1031-1KK11 | 8GK1031-1KK21 | - | - |
| | | | | 550 mm | 500 mm | 8GK1032-1KK21 | 8GK1052-1KK21 | | | | |
| | | | | 800 mm | 750 mm | 8GK1032-1KK31 | 8GK1052-1KK31 | | | | |
| 650 mm | 600 mm | 140 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1032-2KK11 | 8GK1052-2KK11 | 8GK1031-2KK11 | 8GK1031-2KK21 | - | - |
| | | | | 550 mm | 500 mm | 8GK1032-2KK21 | 8GK1052-2KK21 | | | | |
| | | | | 800 mm | 750 mm | 8GK1032-2KK31 | 8GK1052-2KK31 | | | | |
| | | | | 1050 mm | 1000 mm | 8GK1032-2KK41 | 8GK1052-2KK41 | | | | |
| 800 mm | 750 mm | 140 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1032-3KK11 | 8GK1052-3KK11 | 8GK1031-3KK11 | 8GK1031-3KK21 | - | - |
| | | | | 550 mm | 500 mm | 8GK1032-3KK21 | 8GK1052-3KK21 | | | | |
| | | | | 800 mm | 750 mm | 8GK1032-3KK31 | 8GK1052-3KK31 | | | | |
| | | | | 1050 mm | 1000 mm | 8GK1032-3KK41 | 8GK1052-3KK41 | | | | |
| 950 mm | 900 mm | 140 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1032-4KK11 | 8GK1052-4KK11 | 8GK1031-4KK11 | 8GK1031-4KK21 | - | - |
| | | | | 550 mm | 500 mm | 8GK1032-4KK21 | 8GK1052-4KK21 | | | | |
| | | | | 800 mm | 750 mm | 8GK1032-4KK31 | 8GK1052-4KK31 | | | | |
| | | | | 1050 mm | 1000 mm | 8GK1032-4KK41 | 8GK1052-4KK41 | | | | |
| 1100 mm | 1050 mm | 140 mm | 12 + 1 MW mountable | 300 mm | 250 mm | 8GK1032-5KK11 | 8GK1052-5KK11 | 8GK1031-5KK11 | 8GK1031-5KK21 | - | - |
| | | | | 550 mm | 500 mm | 8GK1032-5KK21 | 8GK1052-5KK21 | | | | |
| | | | | 800 mm | 750 mm | 8GK1032-5KK31 | 8GK1052-5KK31 | | | | |
| | | | | 1050 mm | 1000 mm | 8GK1032-5KK41 | 8GK1052-5KK41 | | | | |

Assembly kits

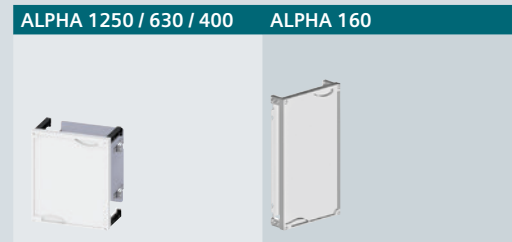
For modular installation devices

| | Tier spacing | ALPHA 1250 / 630 / 400 | | ALPHA 160 | | | |
|--------------|--------------|---|---|---|---|---------------|---------------|
| | | 125 mm | 150 mm | 125 mm | 150 mm | | |
| | |  |  |  |  | | |
| No. of tiers | MW | Height outside | Width outside | | | | |
| 1 | 12 | 150 mm | 250 mm | – | 8GK4351-1KK12 | – | 8GK4351-1KK11 |
| | 24 | 150 mm | 500 mm | – | 8GK4351-1KK22 | – | 8GK4351-1KK21 |
| | 36 | 150 mm | 750 mm | – | 8GK4351-1KK32 | – | – |
| 2 | 24 | 300 mm | 250 mm | 8GK4301-2KK12 | 8GK4351-2KK12 | 8GK4301-2KK11 | 8GK4351-2KK11 |
| | 48 | 300 mm | 500 mm | 8GK4301-2KK22 | 8GK4351-2KK22 | 8GK4301-2KK21 | 8GK4351-2KK21 |
| | 72 | 300 mm | 750 mm | – | 8GK4351-2KK32 | – | – |
| 3 | 36 | 450 mm | 250 mm | 8GK4301-3KK12 | 8GK4351-3KK12 | 8GK4301-3KK11 | 8GK4351-3KK11 |
| | 72 | 450 mm | 500 mm | 8GK4301-3KK22 | 8GK4351-3KK22 | 8GK4301-3KK21 | 8GK4351-3KK21 |
| | 108 | 450 mm | 750 mm | – | 8GK4351-3KK32 | – | – |
| 4 | 48 | 600 mm | 250 mm | 8GK4301-4KK12 | 8GK4351-4KK12 | 8GK4301-4KK11 | 8GK4351-4KK11 |
| | 96 | 600 mm | 500 mm | 8GK4301-4KK22 | 8GK4351-4KK22 | 8GK4301-4KK21 | 8GK4351-4KK21 |
| | 144 | 600 mm | 750 mm | – | 8GK4351-4KK32 | – | – |

For terminal blocks

| | ALPHA 1250 / 630 / 400 | | ALPHA 160 | |
|----------------|---|--|---|---------------|
| | Horizontal | Vertical | Horizontal | |
| |  |  |  | |
| Height outside | Width outside | Horizontal | Vertical | Horizontal |
| 150 mm | 250 mm | 8GK4401-1KK12 | – | 8GK4401-1KK11 |
| | 500 mm | – | – | 8GK4401-1KK21 |
| 300 mm | 250 mm | 8GK4401-2KK12 | 8GK4402-2KK12 | 8GK4401-2KK11 |
| | 500 mm | 8GK4401-2KK22 | 8GK4402-2KK22 | 8GK4401-2KK21 |
| | 750 mm | 8GK4401-2KK32 | 8GK4402-2KK32 | – |
| 450 mm | 250 mm | 8GK4401-3KK12 | 8GK4402-3KK12 | – |
| | 500 mm | 8GK4401-3KK22 | 8GK4402-3KK22 | – |
| | 750 mm | 8GK4401-3KK32 | 8GK4402-3KK32 | – |
| 600 mm | 250 mm | – | 8GK4402-4KK12 | – |
| | 500 mm | – | 8GK4402-4KK22 | – |
| | 750 mm | – | 8GK4402-4KK32 | – |

With mounting plates



| Mounting plates | | | Distribution board | | ALPHA 1250 / 630 / 400 | ALPHA 160 |
|-----------------|----------|---------|--------------------|---------------|------------------------|---------------|
| Height | Width | Version | Height outside | Width outside | | |
| 245 mm | 207.5 mm | Closed | 300 mm | 250 mm | 8GK4451-2KK12 | 8GK4451-2KK11 |
| | 457.5 mm | Closed | 300 mm | 500 mm | 8GK4451-2KK22 | – |
| | 707.5 mm | Closed | 300 mm | 750 mm | 8GK4451-2KK32 | – |
| 395 mm | 207.5 mm | Closed | 450 mm | 250 mm | 8GK4451-3KK12 | 8GK4451-3KK11 |
| | 457.5 mm | Closed | 450 mm | 500 mm | 8GK4451-3KK22 | – |
| | 707.5 mm | Closed | 450 mm | 750 mm | 8GK4451-3KK32 | – |
| 545 mm | 207.5 mm | Closed | 600 mm | 250 mm | 8GK4451-4KK12 | 8GK4451-4KK11 |
| | 457.5 mm | Closed | 600 mm | 500 mm | 8GK4451-4KK22 | – |
| | 707.5 mm | Closed | 600 mm | 750 mm | 8GK4451-4KK32 | – |

For unequipped panels



| Height outside | Width outside | ALPHA 1250 / 630 / 400 | | | ALPHA 160 |
|----------------|---------------|------------------------|------------------------|-----------------------------|---------------|
| | | Standard | With inspection window | With deep-drawn cover 40 mm | Standard |
| 75 mm | 250 mm | 8GK4501-0KK12 | – | – | – |
| | 500 mm | 8GK4501-0KK22 | – | – | – |
| 150 mm | 250 mm | 8GK4501-1KK12 | – | – | 8GK4501-1KK11 |
| | 500 mm | 8GK4501-1KK22 | – | – | 8GK4501-1KK21 |
| | 750 mm | 8GK4501-1KK32 | – | – | – |
| 300 mm | 250 mm | 8GK4501-2KK12 | 8GK4500-2KK12 | 8GK4501-2KK13 | 8GK4501-2KK11 |
| | 500 mm | 8GK4501-2KK22 | 8GK4500-2KK22 | 8GK4501-2KK23 | 8GK4501-2KK21 |
| | 750 mm | 8GK4501-2KK32 | – | 8GK4501-2KK33 | – |
| 450 mm | 250 mm | 8GK4501-3KK12 | 8GK4500-3KK12 | 8GK4501-3KK13 | 8GK4501-3KK11 |
| | 500 mm | 8GK4501-3KK22 | 8GK4500-3KK22 | 8GK4501-3KK23 | 8GK4501-3KK21 |
| | 750 mm | 8GK4501-3KK32 | – | 8GK4501-3KK33 | – |
| 600 mm | 250 mm | 8GK4501-4KK12 | 8GK4500-4KK12 | – | 8GK4501-4KK11 |
| | 500 mm | 8GK4501-4KK22 | 8GK4500-4KK22 | – | 8GK4501-4KK21 |
| | 750 mm | 8GK4501-4KK32 | – | – | – |
| 750 mm | 250 mm | 8GK4501-5KK12 | – | – | – |
| | 500 mm | 8GK4501-5KK22 | – | – | – |
| | 750 mm | 8GK4501-5KK32 | – | – | – |

Assembly kits

For 3NP1 fuse switch disconnectors

ALPHA 1250 / 630 / 400



| LV HRC fuse Size | Switches No. of | Distribution board | | Mounting | |
|---------------------|--------------------|--------------------|---------------|------------------|--------------------------|
| | | Height outside | Width outside | on support plate | on busbars ¹⁾ |
| 00/000 | 2 | 300 mm | 250 mm | 8GK4550-2KK12 | 8GK4650-2KK12 |
| | | 450 mm | 250 mm | – | 8GK4650-3KK12 |
| | 4 | 300 mm | 500 mm | 8GK4550-2KK22 | 8GK4650-2KK22 |
| | | 450 mm | 500 mm | – | 8GK4650-3KK22 |
| 1 | 1 | 450 mm | 250 mm | 8GK4550-3KK12 | 8GK4651-3KK12 |
| | 2 | 450 mm | 500 mm | 8GK4550-3KK22 | 8GK4651-3KK22 |
| 2 | 1 | 450 mm | 250 mm | 8GK4551-3KK12 | 8GK4652-3KK12 |
| 3 | 1 | 450 mm | 500 mm | 8GK4551-3KK22 | – |

¹⁾ For busbar support 8GK9711-0KK03

Accessories

Cover 3NP1123 ... size 000



- Required for size 000 fuse switch disconnectors

Article No.

8GK9912-0KK00

Busbar supports



Busbar center-to-center spacing

60 mm

Number of poles

1-pole

2-pole

3-pole

4-pole

5-pole

Article No.

8GK9710-0KK00

8GK9710-0KK01

8GK9711-0KK03

8GK9670-0KK00

8GK9650-0KK00




40 mm

For 3NJ4 fuse switch disconnectors in in-line design



| Switches Size | Number of 3NJ4 disconnectors | | Distribution board | | Distribution board depth min. 320 mm | |
|---|------------------------------|-------------------|--------------------|---------------|--------------------------------------|---------------|
| | With screw fixing | With fixing claws | Height outside | Width outside | | |
| Assembly kits for 3NJ4 fuse switch disconnectors | | | | | | |
| NH00 | 4 | 3 | 600 mm | 250 mm | 8GK4751-4KK13 | – |
| | 9 | 8 | 600 mm | 500 mm | 8GK4751-4KK23 | – |
| | 14 | 13 | 600 mm | 750 mm | 8GK4751-4KK33 | – |
| NH1 ... NH3 | 2 | – | 750 mm | 250 mm | – | 8GK4752-5KK15 |
| | 4 | 3 | 750 mm | 500 mm | – | 8GK4752-5KK25 |
| | 7 | 6 | 750 mm | 750 mm | – | 8GK4752-5KK35 |

Accessories

| Blanking covers | | | | | | |
|---|-----------------------|---------------------------------|--------|--------|---------------|--|
|  | Switching device size | Busbar center-to-center spacing | Height | Width | Article No. | |
| | NH00 | 100 mm | 299 mm | 50 mm | 3NJ4912-2CA00 | |
| | NH1 ... NH3 | 185 mm | 699 mm | 50 mm | 3NJ4912-2AA00 | |
| | | | | 100 mm | 3NJ4912-2BA00 | |

| Ready-to-install copper bars | | | |
|---|-----------------------|----------------------------------|---------------|
|  | Switching device size | Distribution board width outside | Article No. |
| | NH00 | 250 mm | 8GK9735-1KK10 |
| | | 500 mm | 8GK9735-1KK20 |
| | | 750 mm | 8GK9735-1KK30 |
| | NH1 ... NH3 | 250 mm | 8GK9735-2KK10 |
| | | 500 mm | 8GK9735-2KK20 |
| 750 mm | | 8GK9735-2KK30 | |

Assembly kits

For SR60 busbar-adaptable units

Busbar center-to-center spacing

| |
|------------------------|
| ALPHA 1250 / 630 / 400 |
| 60 mm |



| Height outside | Width outside | |
|----------------|---------------|---------------|
| 300 mm | 250 mm | 8GK4801-2KK13 |
| | 500 mm | 8GK4801-2KK23 |
| | 750 mm | 8GK4801-2KK33 |
| 450 mm | 250 mm | 8GK4801-3KK13 |
| | 500 mm | 8GK4801-3KK23 |
| | 750 mm | 8GK4801-3KK33 |

Accessories

| Supports for blanking covers | |
|---|------------------------------|
|  | Article No. 8US1922-2EA00 |
| Blanking covers | |
|  | Article No. 8US1922-2EB00 |

For bus-mounting fuse bases, for mounting on busbar systems

| | | | | ALPHA 1250 / 630 / 400 | | |
|-----------------|----|----------------|---------------|------------------------|---------------|------------|
| | | | | Busbar system | SR60, 60 mm | 8US, 60 mm |
| Number of poles | | Height outside | Width outside | | | |
| 3P | 4P | | | | | |
| ■ | – | 300 mm | 250 mm | 8GK4801-2KK12 | – | |
| | | 450 mm | 250 mm | 8GK4801-3KK12 | – | |
| | ■ | 300 mm | 250 mm | – | 8GK4800-2KK12 | |
| | | | 500 mm | – | 8GK4800-2KK22 | |
| | | | 750 mm | – | 8GK4800-2KK32 | |

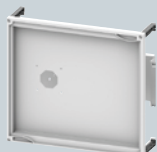
Assembly kits

For 3KF switch disconnectors with fuses

| Operating mechanism | ALPHA 1250 / 630 / 400 | |
|---------------------|---|---|
| | Front operating mechanism, center | Door-coupling rotary operating mechanism (mounted in the front cover) |
| |  |  |



| Switches | | | | Distribution board | | | | |
|---------------|---------------|----|----|--------------------|---------------|---------------|---------------|---------------|
| Size | Rated current | 3P | 4P | Height outside | Width outside | Depth outside | | |
| 3KF1 | 80 A | ■ | ■ | 300 mm | 250 mm | ≥210 mm | 8GK4722-2KK10 | – |
| 3KF2 | 160 A | ■ | ■ | 300 mm | 500 mm | ≥210 mm | 8GK4723-2KK10 | – |
| 3KF3 ... 3KF4 | 400 A | ■ | ■ | 300 mm | 500 mm | ≥320 mm | – | 8GK4722-2KK20 |

For 3KD switch disconnectors

| Operating mechanism | ALPHA 1250 / 630 / 400 | |
|---------------------|---|---|
| | Direct operating mechanism | Door-coupling rotary operating mechanism (mounted in the front cover) |
| |  |  |

| Switches | | | | Distribution board | | | | | |
|----------|-----------------|--------|----|--------------------|----------------|---------------|---------------|---------------|---------------|
| Size | Rated current | No. of | 3P | 4P | Height outside | Width outside | Depth outside | | |
| 1 | 16 A ... 63 A | 2 | ■ | – | 300 mm | 250 mm | 210 mm | 8GK4720-2KK10 | – |
| 2 | 80 A ... 200 A | 1 | ■ | ■ | 300 mm | 250 mm | 210 mm | 8GK4720-2KK10 | – |
| 3 | 200 A ... 400 A | 1 | ■ | ■ | 300 mm | 250 mm | 210 mm | 8GK4721-2KK10 | – |
| 3 ... 4 | 200 A ... 800 A | 1 | ■ | ■ | 450 mm | 500 mm | ≥250 mm | – | 8GK4720-3KK20 |

For 3KA switch disconnectors on support plate

| | | | | | | | ALPHA 1250 / 630 / 400 | |
|-----------------|--------------------------------|--------|----|----|--------------------|---------------|---|---|
| | | | | | | | Direct operating mechanism | Direct operating mechanism |
| | | | | | | |  |  |
| Switches | | | | | | | | |
| Size | Rated current | No. of | 3P | 4P | Distribution board | | | |
| | | | | | Height outside | Width outside | | |
| 3KA 50/51/52/53 | 63 A / 80 A / 125 A / 160 A | 1 | ■ | – | 300 mm | 250 mm | 8GK4707-3KK17 | – |
| 3KA 55/57/58 | 250 A / 400 A / 630 A | 1 | ■ | ■ | 300 mm | 500 mm | – | 8GK4707-4KK27 |

Assembly kits

For 3VL molded case circuit breakers

ALPHA 1250 / 630 / 400



| Switches | | | | Distribution board | | | | Standard |
|----------|---------|------------------|--------|--------------------|----|----------------|---------------|---------------|
| Size | Type | Rated current | No. of | 3P | 4P | Height outside | Width outside | |
| 3VL1 | 3VL160X | 16 A ... 160 A | 1 | ■ | ■ | 300 mm | 250 mm | 8GK4701-2KK12 |
| | | | | | | 450 mm | 250 mm | 8GK4701-3KK12 |
| 3VL2 | 3VL160 | 50 A ... 160 A | 1 | ■ | ■ | 300 mm | 250 mm | 8GK4701-2KK12 |
| | | | | | | 450 mm | 250 mm | 8GK4701-3KK12 |
| 3VL3 | 3VL250 | 200 A ... 250 A | 1 | ■ | ■ | 450 mm | 250 mm | 8GK4701-3KK12 |
| 3VL4 | 3VL400 | 200 A... 400 A | 1 | ■ | ■ | 600 mm | 250 mm | 8GK4702-4KK12 |
| | | | | | | 750 mm | 250 mm | – |
| 3VL5 | 3VL630 | 315 A... 630 A | 1 | ■ | – | 600 mm | 250 mm | 8GK4703-4KK13 |
| | | | 1 | ■ | ■ | 600 mm | 500 mm | 8GK4704-4KK13 |
| | | | 1 | ■ | – | 600 mm | 500 mm | – |
| | | | 1 | – | ■ | 600 mm | 500 mm | – |
| 3VL6 | 3VL800 | 800 A | 1 | ■ | – | 600 mm | 250 mm | 8GK4704-4KK15 |
| | | | 1 | ■ | ■ | 600 mm | 500 mm | 8GK4704-4KK25 |
| 3VL7 | 3VL1250 | 1000 A... 1250 A | 1 | ■ | ■ | 600 mm | 500 mm | 8GK4705-4KK25 |
| 3VL8 | 3VL1600 | 1600 A | 1 | ■ | ■ | 600 mm | 500 mm | 8GK4705-4KK25 |



With RCD module mounted

For installation with front-operated rotary operating mechanism

| | |
|---------------|---------------|
| – | – |
| 8GK4720-3KK10 | 8GK4722-3KK10 |
| – | – |
| 8GK4721-3KK10 | 8GK4722-3KK10 |
| 8GK4721-3KK10 | 8GK4722-3KK10 |
| – | 8GK4722-4KK10 |
| 8GK4720-5KK10 | – |
| – | – |
| – | – |
| – | 8GK4723-4KK10 |
| – | 8GK4721-4KK20 |
| – | – |
| – | – |
| – | – |
| – | – |

Assembly kits

For 3VA molded case circuit breakers, 3-pole and 4-pole

ALPHA 1250 / 630 / 400



| Switches Size | Rated current | No. of | Direct operating mechanism | Rotary operating mechanism | Motorized opera- ting mechanism | Distribution board | | |
|---------------------|-----------------|--------|-------------------------------|-------------------------------|------------------------------------|----------------------|------------------|---------------|
| | | | | | | Height outside | Width outside | |
| 3VA10... 3VA11.. | 100 A ... 160 A | 1 | ■ | – | – | 300 mm ¹⁾ | 250 mm | 8GK4731-2KK12 |
| | | | – | ■ | – | 450 mm | 250 mm | 8GK4730-2KK12 |
| | | | – | – | ■ | 300 mm ¹⁾ | 250 mm | 8GK4733-2KK12 |
| | | | – | – | – | 300 mm ¹⁾ | 250 mm | – |
| | | 3 | ■ | – | – | 300 mm ¹⁾ | 500 mm | 8GK4731-2KK22 |
| | | | – | ■ | – | 450 mm | 500 mm | 8GK4730-2KK22 |
| | | | – | – | ■ | 300 mm ¹⁾ | 500 mm | 8GK4733-2KK22 |
| | | | – | – | – | 300 mm ¹⁾ | 500 mm | – |
| 3VA12 | 250 A | 1 | ■ | – | – | 300 mm | 250 mm | 8GK4732-2KK12 |
| | | | – | ■ | – | 450 mm | 250 mm | 8GK4733-3KK10 |
| | | | – | – | ■ | 300 mm | 250 mm | 8GK4735-2KK12 |
| | | | – | – | – | 300 mm | 250 mm | – |
| | | | – | – | – | 450 mm | 250 mm | – |
| | | 3 | ■ | – | – | 300 mm | 500 mm | 8GK4732-2KK22 |
| | | | – | ■ | – | 450 mm | 500 mm | 8GK4731-3KK20 |
| | | | – | – | ■ | 300 mm | 500 mm | 8GK4735-2KK22 |
| | | | – | – | – | 300 mm | 500 mm | – |
| | | | – | – | – | 600 mm | 250 mm | – |
| 3VA20... 3VA22.. | 100 A ... 250 A | 1 | ■ | – | – | 300 mm | 250 mm | 8GK4730-3KK10 |
| | | | – | ■ | – | 300 mm | 250 mm | 8GK4736-2KK12 |
| | | | – | – | ■ | 600 mm | 250 mm | – |
| | | 3 | ■ | – | – | 300 mm | 500 mm | 8GK4730-3KK20 |
| | | | – | ■ | – | 300 mm | 500 mm | 8GK4736-2KK22 |
| | | | – | – | ■ | 600 mm | 500 mm | – |
| 3VA23... 3VA24.. | 400 A ... 630 A | 1 | ■ | – | – | 450 mm | 250 mm | 8GK4730-4KK12 |
| | | | – | ■ | – | 500 mm | 500 mm | 8GK4730-4KK22 |
| | | | – | – | ■ | 450 mm | 500 mm | 8GK4733-4KK22 |
| | | – | – | – | – | 450 mm | 250 mm | – |
| | | | – | – | – | 500 mm | – | – |
| | | | – | – | – | 600 mm | 250 mm | – |
| – | – | – | 500 mm | – | – | | | |

¹⁾ For insulated connection only


²⁾ Distribution board depth at least 250 mm

³⁾ Distribution board depth at least 320 mm


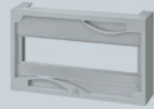
| | With RCD module | | With RCD module | |
|-----------------------------|-----------------|---------------|-----------------------------|-----------------------------|
| | Infeed side | At side | Infeed side | At side |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8GK4734-2KK12 ²⁾ | – | – | – | – |
| – | 8GK4731-3KK12 | 8GK4731-3KK10 | 8GK4734-3KK12 ²⁾ | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8GK4734-2KK22 ²⁾ | – | – | – | – |
| – | 8GK4731-3KK22 | – | 8GK4734-3KK22 ²⁾ | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8GK4735-3KK10 ²⁾ | – | – | – | – |
| – | – | – | – | 8GK4733-4KK10 ²⁾ |
| – | 8GK4732-4KK10 | – | 8GK4736-4KK12 | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8GK4732-3KK20 ²⁾ | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | 8GK4735-4KK12 | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | 8GK4735-4KK22 | – | 8GK4736-4KK22 ³⁾ | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 8GK4734-4KK12 ³⁾ | – | – | – | – |
| 8GK4734-4KK22 ³⁾ | – | – | – | – |
| – | 8GK4731-4KK12 | – | – | – |
| – | 8GK4731-4KK22 | – | – | – |

Assembly kits

For meter mounting without top and bottom termination area

| | | ALPHA 630 |
|-----------------------|----------------------|---|
| Height outside | Width outside |  |
| 450 mm | 250 mm | 8GE3713-4 |

For meter mounting with top and bottom termination area

| | | ALPHA ZS | |
|---------------|--------------|--|--|
| | | Meter support plate | Covers |
| Height | Width |  |  |
| 150 mm | 250 mm | – | Top/bottom termination area 8GS4006-0 |
| 300 mm | 250 mm | – | 8GS4006-5 |
| 450 mm | 250 mm | 8GS4007-4 | – |

Accessories

| Supports for front cover | | Article No. |
|---|--|-------------|
|  | | 8GS4018-8 |
| Standard mounting rails | | Article No. |
|  | | 8GS4010-6 |

Front covers for measuring devices

ALPHA 1250 / 630 / 400



| Use | Height outside | Width outside | Cutout dimensions | |
|------------------------------------|----------------|---------------|-------------------|---------------|
| 1 x measuring device 96 mm x 96 mm | 300 mm | 500 mm | 92 x 92 mm | 8GK4500-2KK20 |

For cable connections to the door

ALPHA 1250 / 630 / 400



| Height | Width | Diameter | |
|--------|--------|----------|---------------|
| 150 mm | 250 mm | M20 | 8GK4500-1KK12 |
| | 500 mm | M20 | 8GK4500-1KK22 |

Quick-assembly kits

For modular installation devices and terminal blocks

Tier spacing ALPHA 1250 / 630 / 400
125 mm




| Height outside | Width outside | No. of tiers | Terminals | MW | With N/PE bar | With 2 N/PE bars |
|---|---------------|--------------|-----------|-----|---------------|------------------|
| For modular installation devices | | | | | | |
| 450 mm | 250 mm | 3 | – | 36 | – | – |
| 600 mm | 250 mm | 4 | – | 48 | 8GK4001-4KK11 | – |
| | 500 mm | 8 | – | 96 | 8GK4001-4KK22 | – |
| 750 mm | 250 mm | 5 | – | 60 | 8GK4001-5KK11 | – |
| | 500 mm | 10 | – | 120 | 8GK4001-5KK22 | – |
| 900 mm | 250 mm | 6 | – | 72 | 8GK4001-6KK11 | 8GK4003-6KK11 |
| | 500 mm | 12 | – | 144 | 8GK4001-6KK22 | – |
| 1050 mm | 250 mm | 7 | – | 84 | 8GK4001-7KK11 | 8GK4003-7KK11 |
| | 500 mm | 14 | – | 168 | 8GK4001-7KK22 | – |
| 1200 mm | 250 mm | 8 | – | 96 | 8GK4001-8KK12 | 8GK4003-8KK12 |
| | 500 mm | 16 | – | 192 | 8GK4001-8KK22 | – |
| 1350 mm | 250 mm | 9 | – | 108 | 8GK4002-8KK12 | 8GK4003-8KK13 |
| | 500 mm | 18 | – | 216 | 8GK4002-8KK22 | – |
| For modular installation devices and terminal blocks | | | | | | |
| 900 mm | 250 mm | 2 | 4 | 48 | – | – |
| | 500 mm | 4 | 8 | 96 | – | – |
| | 750 mm | 6 | 12 | 144 | – | – |
| 1050 mm | 250 mm | 2 | 5 | 60 | – | – |
| | 500 mm | 4 | 10 | 120 | – | – |
| | 750 mm | 6 | 15 | 180 | – | – |
| 1200 mm | 250 mm | 2 | 6 | 72 | – | – |
| | 500 mm | 4 | 12 | 144 | – | – |
| | 750 mm | 6 | 18 | 216 | – | – |
| 1350 mm | 250 mm | 3 | 6 | 72 | – | – |
| | 500 mm | 6 | 12 | 144 | – | – |
| | 750 mm | 9 | 18 | 216 | – | – |

| ALPHA 160 | | |
|------------------|---------------|------------------|
| 150 mm | 125 mm | 150 mm |
| Without N/PE bar | With N/PE bar | Without N/PE bar |
| – | 8GK4001-3KK11 | 8GK4051-3KK11 |
| – | 8GK4001-4KK11 | 8GK4051-4KK11 |
| – | – | – |
| – | 8GK4001-5KK11 | 8GK4051-5KK11 |
| – | – | – |
| 8GK4051-6KK11 | 8GK4001-6KK11 | 8GK4051-6KK11 |
| 8GK4101-6KK22 | – | – |
| 8GK4051-7KK11 | 8GK4001-7KK11 | 8GK4051-7KK11 |
| 8GK4101-7KK22 | – | – |
| 8GK4101-8KK12 | – | – |
| 8GK4101-8KK22 | – | – |
| 8GK4102-8KK12 | – | – |
| 8GK4102-8KK22 | – | – |
| 8GK4100-6KK12 | – | – |
| 8GK4100-6KK22 | – | – |
| 8GK4100-6KK32 | – | – |
| 8GK4100-7KK12 | – | – |
| 8GK4100-7KK22 | – | – |
| 8GK4100-7KK32 | – | – |
| 8GK4100-8KK12 | – | – |
| 8GK4100-8KK22 | – | – |
| 8GK4100-8KK32 | – | – |
| 8GK4110-8KK12 | – | – |
| 8GK4110-8KK22 | – | – |
| 8GK4110-8KK32 | – | – |

Busbars



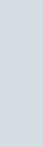


For ALPHA 1250 / 630 / 400 distribution boards

Cu busbars



| Cross-section | Current | Length | Article No. |
|---------------|---------|---------|---------------|
| 12 × 5 mm | 250 A | 250 mm | 8GK9731-0KK10 |
| | | 500 mm | 8GK9731-0KK20 |
| | | 750 mm | 8GK9731-0KK30 |
| | | 1000 mm | 8GK9731-0KK40 |
| | | 1250 mm | 8GK9731-0KK50 |
| 20 × 5 mm | 320 A | 250 mm | 8GK9733-0KK10 |
| | | 500 mm | 8GK9733-0KK20 |
| | | 750 mm | 8GK9733-0KK30 |
| | | 1000 mm | 8GK9733-0KK40 |
| | | 1250 mm | 8GK9733-0KK50 |
| 30 × 5 mm | 450 A | 250 mm | 8GK9735-0KK10 |
| | | 500 mm | 8GK9735-0KK20 |
| | | 750 mm | 8GK9735-0KK30 |
| | | 1000 mm | 8GK9735-0KK40 |
| | | 1250 mm | 8GK9735-0KK50 |
| 30 × 10 mm | 630 A | 250 mm | 8GK9736-0KK10 |
| | | 500 mm | 8GK9736-0KK20 |
| | | 750 mm | 8GK9736-0KK30 |
| | | 1000 mm | 8GK9736-0KK40 |
| | | 1250 mm | 8GK9736-0KK50 |

Busbar supports

| Version | Use | Busbar center-to-center spacing | Article No. |
|---------|--|---------------------------------|---------------|
| 1-pole | For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm | – | 8GK9710-0KK00 |
| 2-pole | For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm | 60 mm | 8GK9710-0KK01 |
| 3-pole | For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm, Bus-mounting fuse bases and 3NP4076 switch disconnectors in conjunction with assembly kits | 60 mm | 8GK9711-0KK03 |
| 4-pole | For Cu busbars 12 × 5 (10) mm, 30 × 5 (10) mm | 60 mm | 8GK9670-0KK00 |
| 5-pole | For Cu busbars 12 × 5 (10) mm 3NP fuse switch disconnectors | 40 mm | 8GK9650-0KK00 |


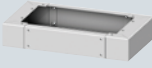
Accessories

For ALPHA 1250 / 630 / 400 / 160 distribution boards

| | | | | 1250 | 630 | 400 | 160 |
|---|--|--------------------|--------------|--------------------|-----|--------------------|---------|
| Wall-mounting rails | | | | | | | |
|  | • For all wall-mounted distribution boards | | | | | | |
| | Length | Article No. | | | | | |
| | 250 mm | 8GK9912-0KK10 | | | ■ | ■ | |
| | 500 mm | 8GK9912-0KK20 | | | ■ | ■ | |
| | 750 mm | 8GK9912-0KK30 | | | ■ | ■ | |
| | 1000 mm | 8GK9912-0KK40 | | | ■ | ■ | |
| 1250 mm | 8GK9912-0KK50 | | | ■ | ■ | | |
| Cabinet mounting lugs, flat | | | | | | | |
|  | Use | Article No. | | | | | |
| | For mounting and fixing a distribution board directly against the wall without a clearance (1 set = 4 units) | 8GK9910-0KK36 | | ■ | ■ | ■ | |
| | For connecting 2 distribution boards and for mounting and fixing a distribution board directly against the wall without a clearance (8GK9910-0KK36 additionally required for the ends) 1 set = 2 units | 8GK9910-0KK37 | | ■ | ■ | ■ | |
| Wall mounting lug, standard | | | | | | | |
| • 1 set = 4 units | | | | | | | |
| | | | | | | Article No. | |
| | | | | | | 8GK9920-0KK33 | ■ ■ ■ ■ |
| Hollow wall set | | | | | | | |
| Use | | | | | | Article No. | |
| For mounting flush-mounting distribution boards in hollow walls | | | | | | 8GK9910-0KK28 | ■ ■ |
| M12 transport eyebolts | | | | | | | |
|  | Article No. | | | | | | |
| | 8GK9918-0KK00 | | | | | | ■ ■ ■ ■ |
| Ventilation grilles for side panel | | | | | | | |
|  | Article No. | | | | | | |
| | 8GK9120-0KK30 | | | | | | ■ ■ ■ |
| Bases for flat pack floor-mounted distribution boards | | | | | | | |
|  | Height outside | Depth | Width | Article No. | | | |
| | 100 mm | 210 mm | 300 mm | 8GK9901-0KK12 | | ■ | |
| | | | 550 mm | 8GK9901-0KK22 | | ■ | |
| | | | 800 mm | 8GK9901-0KK32 | | ■ | |
| | | | 1050 mm | 8GK9901-0KK42 | | ■ | |
| | | | 1300 mm | 8GK9901-0KK52 | | ■ | |

Accessories

For ALPHA 1250 / 630 / 400 / 160 distribution boards

| | | | | | 1250 | 630 | 400 | 160 |
|---|---|---------------|--------------------|--------------------|------|-----|-----|-----|
| Bases for pre-assembled (welded) floor-mounted distribution boards | | | | | | | | |
| | Height outside | Depth | Width | Article No. | | | | |
|  | 100 mm | 210 mm | 300 mm | 8GK9901-0KA12 | ■ | ■ | | |
| | | | 550 mm | 8GK9901-0KA22 | ■ | ■ | | |
| | | | 800 mm | 8GK9901-0KA32 | ■ | ■ | | |
| | | | 1050 mm | 8GK9901-0KA42 | ■ | ■ | | |
| | | | 1300 mm | 8GK9901-0KA52 | ■ | ■ | | |
|  | 250 mm | 210 mm | 300 mm | 8GK9900-0KK13 | ■ | ■ | | |
| | | | 550 mm | 8GK9900-0KK23 | ■ | ■ | | |
| | | | 800 mm | 8GK9900-0KK33 | ■ | ■ | | |
| | | | 1050 mm | 8GK9900-0KK43 | ■ | ■ | | |
| | | | 1300 mm | 8GK9900-0KK53 | ■ | ■ | | |
|  | 320 mm | 210 mm | 300 mm | 8GK9900-0KK14 | ■ | ■ | | |
| | | | 550 mm | 8GK9900-0KK24 | ■ | ■ | | |
| | | | 800 mm | 8GK9900-0KK34 | ■ | ■ | | |
| | | | 1050 mm | 8GK9900-0KK44 | ■ | ■ | | |
| | | | 1300 mm | 8GK9900-0KK54 | ■ | ■ | | |
|  | 400 mm | 210 mm | 300 mm | 8GK9902-0KK13 | ■ | ■ | | |
| | | | 550 mm | 8GK9902-0KK23 | ■ | ■ | | |
| | | | 800 mm | 8GK9902-0KK33 | ■ | ■ | | |
| | | | 1050 mm | 8GK9902-0KK43 | ■ | ■ | | |
| | | | 1300 mm | 8GK9902-0KK53 | ■ | ■ | | |
| Partitions, vertical | | | | | | | | |
| | • For the visual and spatial separation of different potentials | | | | | | | |
| | Cubicle depth | Height | Article No. | | | | | |
|  | 140 mm | 450 mm | 8GK9001-3KK01 | | | | | ■ |
| | | 600 mm | 8GK9001-4KK01 | | | | | ■ |
| | | 750 mm | 8GK9001-5KK01 | | | | | ■ |
| | | 900 mm | 8GK9001-6KK01 | | | | | ■ |
| | | 1050 mm | 8GK9001-7KK01 | | | | | ■ |
|  | 210 mm | 300 mm | 8GK9301-2KK01 | | ■ | ■ | | |
| | | 450 mm | 8GK9301-3KK01 | | ■ | ■ | | |
| | | 600 mm | 8GK9101-4KK01 | | ■ | ■ | | |
| | | 750 mm | 8GK9101-5KK01 | | ■ | ■ | | |
| | | 900 mm | 8GK9101-6KK01 | | ■ | ■ | | |
| | | 1050 mm | 8GK9101-7KK01 | | ■ | ■ | | |
| | | 1200 mm | 8GK9101-8KK01 | | ■ | ■ | | |
| | | 1350 mm | 8GK9102-8KK01 | | ■ | ■ | | |
| 250/320 mm | 1800 mm | 8GK9520-8KK00 | | ■ | | | | |
| 400 mm | 1800 mm | 8GK9521-8KK00 | ■ | | | | | |

1250 630 400 160

Partitions, horizontal

- For the visual and spatial separation of different potentials



| Cubicle depth | Width | Article No. | 1250 | 630 | 400 | 160 |
|---------------|--------|---------------|------|-----|-----|-----|
| 140 mm | 250 mm | 8GK9002-0KK10 | | | | ■ |
| 210 mm | 250 mm | 8GK9103-0KK10 | | ■ | ■ | |
| | 500 mm | 8GK9103-0KK20 | | ■ | ■ | |
| | 750 mm | 8GK9103-0KK30 | | ■ | ■ | |
| 250 /320 mm | 250 mm | 8GK9520-0KK10 | | ■ | | |
| | 500 mm | 8GK9520-0KK20 | | ■ | | |
| 400 mm | 250 mm | 8GK9520-0KK30 | ■ | | | |

Mounting plates



| Cubicle Height | Width | Mounting plates | | Article No. | 1250 | 630 | 400 | 160 |
|----------------|---------|-----------------|---------|---------------|------|-----|-----|-----|
| | | Height | Width | | | | | |
| 600 mm | 250 mm | 596 mm | 243 mm | 8GK9531-4KK10 | | | ■ | |
| | 500 mm | 596 mm | 493 mm | 8GK9531-4KK20 | | | ■ | |
| 750 mm | 250 mm | 685 mm | 243 mm | 8GK9531-5KK10 | | | ■ | |
| | 500 mm | 685 mm | 493 mm | 8GK9531-5KK20 | | | ■ | |
| 900 mm | 250 mm | 835 mm | 243 mm | 8GK9531-6KK10 | | | ■ | |
| | 500 mm | 835 mm | 493 mm | 8GK9531-6KK20 | | | ■ | |
| 1050 mm | 250 mm | 985 mm | 243 mm | 8GK9531-7KK10 | | | ■ | |
| | 500 mm | 985 mm | 493 mm | 8GK9531-7KK20 | | | ■ | |
| 1200 mm | 250 mm | 1135 mm | 243 mm | 8GK9531-8KK10 | | | ■ | |
| | 500 mm | 1135 mm | 493 mm | 8GK9531-8KK20 | | | ■ | |
| 1350 mm | 250 mm | 1285 mm | 243 mm | 8GK9532-8KK10 | | | ■ | |
| | 500 mm | 1285 mm | 493 mm | 8GK9532-8KK20 | | | ■ | |
| 1800 mm | 250 mm | 1680 mm | 242 mm | 8GK9533-0KK10 | ■ | ■ | | |
| | 500 mm | 1680 mm | 492 mm | 8GK9533-0KK20 | ■ | ■ | | |
| | 750 mm | 1680 mm | 742 mm | 8GK9533-0KK30 | ■ | ■ | | |
| | 1000 mm | 1680 mm | 992 mm | 8GK9533-0KK40 | ■ | ■ | | |
| | 1250 mm | 1680 mm | 1242 mm | 8GK9533-0KK50 | ■ | ■ | | |

Mounting plates for telecommunication units

- Made of perforated steel plate
- With insert nuts and quick-locking technology

| Cubicle Height | Width | Mounting plates | | Article No. | 1250 | 630 | 400 | 160 |
|----------------|--------|-----------------|--------|-------------|------|-----|-----|-----|
| | | Height | Width | | | | | |
| 900 mm | 250 mm | 835 mm | 243 mm | 8GS4016-1 | | | ■ | |
| 1050 mm | 250 mm | 985 mm | 243 mm | 8GS4016-2 | | | ■ | |
| 1200 mm | 250 mm | 1135 mm | 243 mm | 8GS4016-3 | | | ■ | |
| 1350 mm | 250 mm | 1285 mm | 243 mm | 8GS4016-4 | | | ■ | |

Longitudinal stays









- In order to mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width
- 1 set = 2 stays

| Cubicle depth | Length | Article No. | 1250 | 630 | 400 | 160 |
|------------------------|---------|---------------|------|-----|-----|-----|
| | | | | | | |
| 210 mm | 450 mm | 8GK4851-3KK00 | | | | ■ |
| | 600 mm | 8GK4851-4KK00 | | | ■ | ■ |
| | 750 mm | 8GK4851-5KK00 | | | ■ | ■ |
| | 900 mm | 8GK4851-6KK00 | | | ■ | ■ |
| | 1050 mm | 8GK4851-7KK00 | | | ■ | ■ |
| | 1200 mm | 8GK4851-8KK00 | | | ■ | |
| | 1350 mm | 8GK4852-8KK00 | | | ■ | |
| 250 mm, 320 mm, 400 mm | 1800 mm | 8GK4853-8KK00 | | ■ | | |
| | 1800 mm | 8GK4853-8KK02 | ■ | ■ | | |

Accessories

For ALPHA 1250 / 630 / 400 / 160 distribution boards

| | | | | | 1250 | 630 | 400 | 160 | |
|---|--|---------------|---------------|---------------|--------------------|-----|-----|-----|---|
| Stay supports | | | | | | | | | |
|  | <ul style="list-style-type: none"> For depth of 210 mm when mounting stays are to be shifted forward by 55 mm Necessary whenever standard mounting rails are mounted directly on the stays | | | | | | | | |
| | Article No. | | | | 8GK9910-0KK38 | | | ■ | |
| Universal brackets | | | | | | | | | |
|  | | | | | | | | | |
| | Article No. | | | | 8GK9910-0KK05 | ■ | ■ | | |
| Connecting kits for longitudinal stays | | | | | | | | | |
|  | Depth | | | | Article No. | | | | |
| | 250/320 mm | | | | 8GK9910-0KK32 | ■ | ■ | ■ | |
| Crossbars | | | | | | | | | |
|  | Width | | | | Article No. | | | | |
| | 500 mm | | | | 8GK4853-0KK20 | ■ | ■ | ■ | |
| | 750 mm | | | | 8GK4853-0KK30 | ■ | ■ | ■ | |
| Front cover, closed | | | | | | | | | |
|  | Tier spacing | Height | Width | | Article No. | | | | |
| | 150 mm | 75 mm | 250 mm | | 8GK9601-0KK10 | ■ | ■ | ■ | ■ |
| | | 150 mm | 250 mm | | 8GK9601-1KK10 | ■ | ■ | ■ | ■ |
| | | | 500 mm | | 8GK9601-1KK20 | ■ | ■ | ■ | ■ |
| | | | 750 mm | | 8GK9601-1KK30 | ■ | ■ | ■ | ■ |
| | 300 mm | 250 mm | | 8GK9601-2KK10 | ■ | ■ | ■ | ■ | |
| | | 500 mm | | 8GK9601-2KK20 | ■ | ■ | ■ | ■ | |
| | | 750 mm | | 8GK9601-2KK30 | ■ | ■ | ■ | ■ | |
| | 450 mm | 250 mm | | 8GK9601-3KK10 | ■ | ■ | ■ | ■ | |
| | | 500 mm | | 8GK9601-3KK20 | ■ | ■ | ■ | ■ | |
| | | 750 mm | | 8GK9601-3KK30 | ■ | ■ | ■ | ■ | |
| | 600 mm | 250 mm | | 8GK9601-4KK10 | ■ | ■ | ■ | ■ | |
| | | 500 mm | | 8GK9601-4KK20 | ■ | ■ | ■ | ■ | |
| 750 mm | | | 8GK9601-4KK30 | ■ | ■ | ■ | ■ | | |
| Front cover with cutout | | | | | | | | | |
|  | Height | Width | Tiers | MW | Article No. | | | | |
| | 150 mm | 250 mm | 1 | 12 | 8GK9601-1KK11 | ■ | ■ | ■ | ■ |
| | | 500 mm | 1 | 24 | 8GK9601-1KK21 | ■ | ■ | ■ | ■ |
| | | 750 mm | 1 | 36 | 8GK9601-1KK31 | ■ | ■ | ■ | ■ |
| | 300 mm | 250 mm | 2 | 24 | 8GK9601-2KK11 | ■ | ■ | ■ | ■ |
| | | 500 mm | 2 | 48 | 8GK9601-2KK21 | ■ | ■ | ■ | ■ |
| | | 750 mm | 2 | 72 | 8GK9601-2KK31 | ■ | ■ | ■ | ■ |
| | 450 mm | 250 mm | 3 | 36 | 8GK9601-3KK11 | ■ | ■ | ■ | ■ |
| | | 500 mm | 3 | 72 | 8GK9601-3KK21 | ■ | ■ | ■ | ■ |
| | | 750 mm | 3 | 108 | 8GK9601-3KK31 | ■ | ■ | ■ | ■ |
| | 600 mm | 250 mm | 4 | 48 | 8GK9601-4KK11 | ■ | ■ | ■ | ■ |
| | | 500 mm | 4 | 96 | 8GK9601-4KK21 | ■ | ■ | ■ | ■ |
| | | 750 mm | 4 | 144 | 8GK9601-4KK31 | ■ | ■ | ■ | ■ |

1250 630 400 160

Supports for front cover



- Plastic

| Version | Length | Mounting | Article No. | 1250 | 630 | 400 | 160 |
|------------|---------|--|---------------|------|-----|-----|-----|
| Spare part | 117 mm | Standard | 8GK9910-0KK30 | ■ | ■ | ■ | |
| | 54 mm | Standard | 8GK9910-0KK20 | | | | ■ |
| Large pack | 117 mm | For 15 mm standard mounting rail directly onto the standard mounting rail holder | 8GK9910-0KK31 | ■ | ■ | ■ | |
| | 61.5 mm | For 15 mm standard mounting rail directly onto the stays | 8GK9910-0KK24 | ■ | ■ | ■ | |

Assembly tool for supports



- For short and long version
- With ergonomic handle

| Article No. | 1250 | 630 | 400 | 160 |
|---------------|------|-----|-----|-----|
| 8GK9910-0KK27 | ■ | ■ | ■ | ■ |

Support extensions



| Length | Article No. | 1250 | 630 | 400 | 160 |
|--------|---------------|------|-----|-----|-----|
| 7.5 mm | 8GK9911-0KK03 | ■ | ■ | ■ | ■ |

Quick-lock screws for front cover



| Material | Color | Article No. | 1250 | 630 | 400 | 160 |
|----------|-----------------------|---------------|------|-----|-----|-----|
| Plastic | RAL 7035 (light gray) | 8GK9910-0KK26 | ■ | ■ | ■ | ■ |

Replacement door hinges



- For wall/floor-mounted distribution boards
- 1 set = 2 units

| Article No. | 1250 | 630 | 400 | 160 |
|---------------|------|-----|-----|-----|
| 8GK9920-0KK24 | ■ | ■ | ■ | ■ |

Circuit diagram pockets



| Version | Format | Depth | Article No. | 1250 | 630 | 400 | 160 |
|-------------|--------|-------|---------------|------|-----|-----|-----|
| Sheet steel | DIN A3 | 10 mm | 8GK9910-0KK22 | ■ | ■ | ■ | ■ |



| | | | | | | | |
|--------------------------------------|--------|--|---------------|---|---|---|---|
| Transparent sleeve, adhered all-over | DIN A4 | | 8GK9910-0KK23 | ■ | ■ | ■ | ■ |
|--------------------------------------|--------|--|---------------|---|---|---|---|



| | | | | | | | |
|---------------------|--------|-------|---------------|---|---|---|---|
| Plastic | DIN A4 | 30 mm | 8GD9132 | ■ | ■ | ■ | ■ |
| Plastic, large pack | DIN A4 | 30 mm | 8GK9910-1KK24 | ■ | ■ | ■ | ■ |


Siemens nameplate



| Material | Version | Color | Article No. | 1250 | 630 | 400 | 160 |
|----------|---------------|--------|-------------|------|-----|-----|-----|
| Aluminum | Self-adhesive | Petrol | 8GD9084 | ■ | ■ | ■ | ■ |
| Sticker | Self-adhesive | Petrol | 8GF9661 | ■ | ■ | ■ | ■ |

Accessories

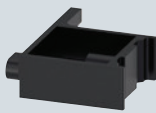





For ALPHA 1250 / 630 / 400 / 160 distribution boards









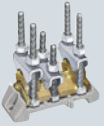
| | | | 1250 | 630 | 400 | 160 |
|---|--|----------------------------------|--------------------|-----|-----|-----|
| IP43/IP55 locking systems for wall-mounted distribution boards | | | | | | |
| | Version | Article No. | | | | |
|  | Standard locking device with rotary handle | 8GK9560-0KK04 | | | ■ | ■ |
|  | Retrofit kit for standard locking device with degree of protection IP44 | 8GK9560-0KK05 | | | ■ | ■ |
|  | Rotary handle locking device for profile cylinders (E012 or Senat tumbler) | 8GK9560-0KK06 | | | ■ | ■ |
|  | Rotary handle, lockable, incl. E012 lock and two keys | 8GK9560-0KK13 | | | ■ | ■ |
| Locking systems for floor-mounted distribution boards | | | | | | |
| | Version | Article No. | | | | |
|  | Rotary handle, recessable, with pushbutton technique | 8GK9561-0KK01 | ■ | ■ | | |
|  | Lock insert for installation of profile semicylinder | 8GK9561-0KK02 | ■ | ■ | | |
| Profile semicylinder for locks | | | | | | |
| | Use | Version | Article No. | | | |
|  | Wall-mounted distribution boards | With E012 lock and two keys | 8GK9560-0KK07 | | ■ | ■ |
|  | | With Senat tumbler and two keys | 8GK9560-0KK08 | | ■ | ■ |
|  | | With 3-mm pin as double-bit lock | 8GK9560-0KK10 | | ■ | ■ |
|  | Floor-mounted distribution boards | With E012 lock and two keys | 8GK9561-0KK00 | ■ | ■ | |
|  | | With Senat tumbler and two keys | 8GK9560-0KK03 | ■ | ■ | |

| | | | 1250 | 630 | 400 | 160 |
|--|---|-------------------------------|--------------------|-----|-----|-----|
| Spare keys | | | | | | |
|  | Version | Article No. | | | | |
| | For double-bit interlocking mechanism | 8GD9290 | ■ | ■ | | |
| | For E012 lock | 8GF9390-2 | ■ | ■ | ■ | ■ |
| Connecting kit, IP43/IP55 | | | | | | |
|  | <ul style="list-style-type: none"> For side-by-side mounting of enclosures Comprising: screws, washers, nuts and 10 m roll of sealing strip | | | | | |
| | Article No. | 8GK9920-0KK31 | ■ | ■ | ■ | |
| | | | | | | |
| Extra-deep brackets | | | | | | |
|  | <ul style="list-style-type: none"> For recessed installation of standard mounting rails | | | | | |
| | Article No. | 8GK9910-0KK34 | ■ | ■ | ■ | |
| | | | | | | |
| Extra-deep brackets, depth-adjustable | | | | | | |
|  | | | | | | |
| | Article No. | 8GK9911-0KK01 | ■ | ■ | ■ | |
| | | | | | | |
| Drop-down brackets, universal | | | | | | |
|  | | | | | | |
| | Article No. | 8GK9911-0KK02 | ■ | ■ | ■ | |
| | | | | | | |
| Standard mounting rails, lowered | | | | | | |
|  | Width | Article No. | | | | |
| | 250 mm | 8GK9910-0KK35 | ■ | ■ | ■ | |
| | 500 mm | 8GK9910-0KK40 | ■ | ■ | ■ | |
| | 750 mm | 8GK9910-0KK41 | ■ | ■ | ■ | |
| 15 mm standard mounting rails | | | | | | |
|  | Width | Article No. | | | | |
| | 250 mm | 8GK9910-1KK10 | ■ | ■ | | |
| | 500 mm | 8GK9910-1KK20 | ■ | ■ | | |
| | 750 mm | 8GK9910-1KK30 | ■ | ■ | | |
| | 1000 mm | 8GK9910-1KK40 | ■ | ■ | | |
| | 1250 mm | 8GK9910-1KK50 | ■ | ■ | | |
| Standard mounting rail holders for 15 mm standard mounting rail | | | | | | |
| <ul style="list-style-type: none"> Comprising a left and a right holder | | | | | | |
|  | Version | Version | Article No. | | | |
| | Long | For 1 standard mounting rail | 8GK9910-1KK81 | ■ | ■ | ■ |
| | | For 2 standard mounting rails | 8GK9910-1KK83 | ■ | ■ | ■ |
| | | For 3 standard mounting rails | 8GK9910-1KK84 | ■ | ■ | ■ |
| | | For 4 standard mounting rails | 8GK9910-1KK85 | ■ | ■ | ■ |

Accessories

For ALPHA 1250 / 630 / 400 / 160 distribution boards

| | | | 1250 | 630 | 400 | 160 |
|---|--|-----------------------|--------------------|-----|-----|-----|
| Iso supports | | | | | | |
|  | • For insulated standard mounting rail assembly | | | | | |
| | Version | Article No. | | | | |
| | 12 mm | 8GK9911-0KK04 | ■ | ■ | ■ | ■ |
| | 31.5 mm | 8GK9911-0KK05 | ■ | ■ | ■ | |
| | 55.5 mm | 8GK9911-0KK06 | ■ | ■ | ■ | |
| Screws M5 × 10, self-tapping | | | | | | |
|  | • Large pack: 500 units | | | | | |
| | | Article No. | | | | |
| | | 8GK9911-0KK00 | ■ | ■ | ■ | ■ |
| Crossbars for mounting vertical busbar systems | | | | | | |
|  | Width | Article No. | | | | |
| | 250 mm | 8GK9911-1KK00 | ■ | ■ | ■ | |
| | 500 mm | 8GK9911-1KK01 | ■ | ■ | ■ | |
| | 750 mm | 8GK9911-1KK02 | ■ | ■ | ■ | |
| Blanking strips | | | | | | |
|  | Version | Color | Article No. | | | |
| | For 12 MW (1 MW = 18 mm) | RAL 7035 (light gray) | 8GK9910-0KK00 | ■ | ■ | ■ |
| | Length 1 m w/o pressure-relief joint, to cut to length | RAL 7035 (light gray) | 8GK9910-0KK01 | ■ | ■ | ■ |
| Blanking plugs | | | | | | |
| | Diameter | Article No. | | | | |
| | 6 mm | 8GK9910-0KK06 | ■ | ■ | ■ | ■ |
| | 11 mm | 8GK9910-0KK07 | ■ | ■ | ■ | ■ |
| N terminals | | | | | | |
|  | • For snap-on mounting onto the standard mounting rail | | | | | |
| | • For distributing the neutral conductor when using several RCCBs | | | | | |
| | • 2× screw terminal, conductor cross-section max. 16 mm ² | | | | | |
| | • 14× plug-in terminal, conductor cross-section max. 4 mm ² | | | | | |
| | | Article No. | | | | |
| | | 8GS4034-1 | ■ | ■ | ■ | ■ |
| PE terminals | | | | | | |
|  | • For snap-on mounting onto the standard mounting rail | | | | | |
| | • 2× screw terminal, conductor cross-section max. 16 mm ² | | | | | |
| | • 14× plug-in terminal, conductor cross-section max. 4 mm ² | | | | | |
| | | Article No. | | | | |
| | | 8GS4034-2 | ■ | ■ | ■ | ■ |
| N/PE terminals | | | | | | |
|  | • For snap-on mounting onto the standard mounting rail | | | | | |
| | • For distributing the neutral conductor when using several RCCBs | | | | | |
| | • 1× screw terminal, conductor cross-section max. 16 mm ² , per PE and N potential | | | | | |
| | • 7× plug-in terminal, conductor cross-section max. 4 mm ² , per PE and N potential | | | | | |
| | | Article No. | | | | |
| | | 8GS4034-3 | ■ | ■ | ■ | ■ |
| N/N terminals | | | | | | |
|  | • For snap-on mounting onto the standard mounting rail | | | | | |
| | • For distributing the neutral conductor when using several RCCBs | | | | | |
| | • 1× screw terminal, conductor cross-section max. 16 mm ² , per PE and N potential | | | | | |
| | • 7× plug-in terminal, conductor cross-section max. 4 mm ² , per PE and N potential | | | | | |
| | | Article No. | | | | |
| | | 8GS4034-4 | ■ | ■ | ■ | ■ |

| | | | | 1250 | 630 | 400 | 160 | |
|--|----------------------------|--------------------------------|----------------------------|----------------------------|--------------------|-----|-----|---|
| Terminals for circular conductors | | | | | | | | |
|     | Busbar thickness | Conductor cross-section | Article No. | | | | | |
| | 5 mm | 1.5 ... 16 mm ² | 8US1921-2AA00 | ■ | ■ | ■ | | |
| | | 1.5 ... 35 mm ² | 8US1921-2AB00 | ■ | ■ | ■ | | |
| | | 16 ... 70 mm ² | 8US1921-2AC00 | ■ | ■ | ■ | | |
| | 16 ... 120 mm ² | 8US1921-2AD00 | ■ | ■ | ■ | | | |
| Terminals for circular conductors | | | | | | | | |
|     | Busbar thickness | Conductor cross-section | Article No. | | | | | |
| | 10 mm | 1.5 ... 16 mm ² | 8US1921-2BA00 | ■ | ■ | ■ | | |
| | | 1.5 ... 35 mm ² | 8US1921-2BB00 | ■ | ■ | ■ | | |
| | | 16 ... 70 mm ² | 8US1921-2BC00 | ■ | ■ | ■ | | |
| | 16 ... 120 mm ² | 8US1921-2BD00 | ■ | ■ | ■ | | | |
| Terminals with bases made of glass-fiber reinforced polyester resin | | | | | | | | |
|     | Incoming cables | | Outgoing cables | | Article No. | | | |
| | No. of | Cross-section | No. of | Cross-section | | | | |
| | 1 | 6 ... 70 mm ² | 1 | 6 ... 70 mm ² | 8JK401 | ■ | ■ | ■ |
| | | 4 ... 35 mm ² | 3 | 4 ... 35 mm ² | 8JH4044 | ■ | ■ | ■ |
| | | 50 ... 240 mm ² | 1 | 50 ... 240 mm ² | 8JK4061 | ■ | ■ | ■ |
| 2 | 50 ... 240 mm ² | 2 | 50 ... 185 mm ² | 8JK406 | ■ | ■ | ■ | |

Accessories

For ALPHA 1250 / 630 / 400 / 160 distribution boards

1250 630 400 160

Incoming and outgoing terminal for busbars

| Busbar Dimensions | No. of | Conductor cross-section | Description | Article No. | | | | |
|----------------------|--------|----------------------------|---|-------------|------|-----|-----|-----|
| | | | | | 1250 | 630 | 400 | 160 |
| 16 × 3 mm | 1 | 1.5 ... 16 mm ² | | 8JH4122 | ■ | ■ | ■ | |
| | | 10 ... 35 mm ² | | 8JH4124 | ■ | ■ | ■ | |
| 6 × 6 mm | 1 | 16 ... 35 mm ² | Can be retrofitted without dismantling the busbar | 8JH4114 | ■ | ■ | ■ | |
| 20 × 8 mm | 1 or 2 | 50 ... 240 mm ² | 1 conductor per clamping point | 8JK3171 | ■ | ■ | ■ | |

Incoming and outgoing terminal for busbars

| Busbar Dimensions | No. of | Conductor cross-section | Description | Article No. | | | | |
|----------------------|--------|----------------------------|---------------------------------|-------------|------|-----|-----|-----|
| | | | | | 1250 | 630 | 400 | 160 |
| – | – | – | 2 conductors per clamping point | 8JK3172 | ■ | ■ | ■ | |
| 12 × 5 mm | 1 | 10 ... 35 mm ² | | 8JH4104 | ■ | ■ | ■ | |
| | | 16 ... 70 mm ² | | 8JH4105 | ■ | ■ | ■ | |
| | 2 | 16 ... 35 mm ² | | 8JH4105 | ■ | ■ | ■ | |

N/PE bars as plug-in terminals

| Version | Connections | Article No. | | | | |
|------------|---|---------------|------|-----|-----|-----|
| | | | 1250 | 630 | 400 | 160 |
| PE bar | 6 screw connections 2.5 ... 16 mm ² and 21 screw connections 1.5 ... 4 mm ² | 8GK9910-OKK11 | | | | ■ |
| PE + N bar | PE bar: 6 screw connections 2.5 ... 16 mm ² and 21 screw connections 1.5 ... 4 mm ² N bar: 2 screw connections 2.5 ... 16 mm ² and 10 screw connections 1.5 ... 4 mm ² | 8GK9910-OKK12 | | | | ■ |

Terminal with ceramic base

| No. of | Incoming cables | | Outgoing cables | | Article No. | | | | |
|--------|--------------------------|--------|--------------------------|--------|-------------|------|-----|-----|-----|
| | Cross-section | No. of | Cross-section | No. of | | 1250 | 630 | 400 | 160 |
| 1 | 4 ... 35 mm ² | 1 | 4 ... 35 mm ² | 1 | 8JH404 | ■ | ■ | ■ | ■ |

Cable clamping rail

| Width | Article No. | | | | |
|---------|---------------|------|-----|-----|-----|
| | | 1250 | 630 | 400 | 160 |
| 250 mm | 8GK9911-OKK10 | ■ | ■ | ■ | |
| 500 mm | 8GK9911-OKK20 | ■ | ■ | ■ | |
| 750 mm | 8GK9911-OKK30 | ■ | ■ | ■ | |
| 1000 mm | 8GK9911-OKK40 | ■ | ■ | ■ | |
| 1250 mm | 8GK9911-OKK50 | ■ | ■ | ■ | |

1250 630 400 160

Cable holders



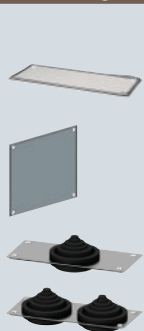
| Use | Version | Article No. | 1250 | 630 | 400 | 160 |
|----------------------------|---------------------------|---------------|------|-----|-----|-----|
| For standard mounting rail | Height 45 mm, width 40 mm | 8GK9910-0KK80 | ■ | ■ | ■ | |
| For mounting in 5-mm hole | Clip with cable tie | 8GK9910-0KK81 | ■ | ■ | ■ | |

Cable flange for cable entry



| Version | Degree of protection | Cable routing | Article No. | 1250 | 630 | 400 | 160 |
|--------------------|----------------------|---------------|---------------|------|-----|-----|-----|
| 1-component flange | IP43 | Bottom | 8GK9100-0KK00 | ■ | ■ | ■ | |
| 2-component flange | | Top/bottom | 8GK9000-0KK02 | | | | ■ |
| 2-component flange | IP55 | Top/bottom | 8GK9100-0KK01 | ■ | ■ | ■ | |
| Bushing flange | | Busbar system | 8GK9100-0KK10 | ■ | ■ | ■ | |

Cable flange for cable entry (only safety class I)



| Version | Degree of protection | Cable diameter | Article No. | 1250 | 630 | 400 | 160 |
|---------------------------------------|----------------------|----------------|---------------|------|-----|-----|-----|
| Blank flange | IP43 | | 8GK9100-0KK02 | ■ | ■ | ■ | |
| | IP55 | | 8GK9100-0KK03 | ■ | ■ | ■ | |
| Sheet steel, without knockouts | IP55 | | 8GK9100-0KK04 | ■ | | | |
| Flange, incl. 1 cable support sleeve | IP55 | 14–65 mm | 8GK9100-0KK05 | ■ | ■ | ■ | |
| Flange, incl. 2 cable support sleeves | IP55 | 14–65 mm | 8GK9100-0KK06 | ■ | ■ | ■ | |

Rubber cable entries



- For inserting in 38 mm diameter knockouts (= Pg29)
- Degree of protection IP65

| No. of | Cable diameter | Article No. | 1250 | 630 | 400 | 160 |
|--------|----------------|-------------|------|-----|-----|-----|
| 1 | 12...29 mm | 8HP1805 | ■ | ■ | ■ | ■ |
| 2 | 6...15 mm | 8HP1806 | ■ | ■ | ■ | ■ |
| 3 | 4...12.5 mm | 8HP1807 | ■ | ■ | ■ | ■ |
| 4 | 4...12 mm | 8HP1808 | ■ | ■ | ■ | ■ |

Cable entries for cable entry plate



- For 8HP1520 cable entry plates

| Cable diameter | Article No. | 1250 | 630 | 400 | 160 |
|----------------|-------------|------|-----|-----|-----|
| 14...65 mm | 8HC6900 | ■ | ■ | ■ | ■ |

Breathers, PG 16



- For distribution boards in an outdoor climate to avoid condensate
- Degree of protection IP54

| Article No. | 1250 | 630 | 400 | 160 |
|-------------|------|-----|-----|-----|
| 8HE8541 | ■ | ■ | ■ | ■ |

System overview

Small distribution boards ALPHA

SIMBOX XL



SIMBOX WP



ALPHA SIMBOX XL



Flush-mounting and hollow-wall distribution boards



Surface-mounting distribution boards



Multimedia distribution boards

Accessories



Terminal strips



RCCB terminals



Door locking kit



Mounting aid for flush mounting

ALPHA SIMBOX WP



Surface-mounting distribution boards

Accessories



Covers



N/PE terminal strips



Inner partitions



Safety cylinder locks

Note:

You will find a detailed range of accessories with the basic units.

ALPHA SIMBOX XL small distribution boards

Flush-mounting and hollow-wall distribution boards, rated current up to 63 A

| | | | Complete supply | | Project supply | |
|---|-------|--------|---|-----------------|--|-------------------|
| | | | Degree of protection IP30 | | IP30 | |
| | | |  | |  | |
| Recess dimensions | | | Type | Safety class II | Safety class II | Expansion package |
| Width | Depth | Length | | | Wall-recessed box | |
| Flush-mounting distribution boards | | | | | | |
| 359 mm | 88 mm | 393 mm | 1-tier | 8GB5012-1KM | 8GB5212-1KM01 | 8GB5212-3KM01 |
| | | 518 mm | 2-tier | 8GB5024-1KM | 8GB5224-1KM01 | 8GB5224-3KM01 |
| | | 643 mm | 3-tier | 8GB5036-1KM | 8GB5236-1KM01 | 8GB5236-3KM01 |
| | | 768 mm | 4-tier | 8GB5048-1KM | 8GB5248-1KM01 | 8GB5248-3KM01 |
| Hollow-wall distribution boards | | | | | | |
| 323 mm | 88 mm | 355 mm | 1-tier | 8GB5012-4KM | 8GB5212-2KM01 | 8GB5212-4KM01 |
| | | 480 mm | 2-tier | 8GB5024-4KM | 8GB5224-2KM01 | 8GB5224-4KM01 |
| | | 605 mm | 3-tier | 8GB5036-4KM | 8GB5236-2KM01 | 8GB5236-4KM01 |
| | | 730 mm | 4-tier | 8GB5048-4KM | 8GB5248-2KM01 | 8GB5248-4KM01 |

Accessories

Terminal strips with plug-in terminals

| Type | Potential 1 | Potential 2 | Article No. |
|------|---|--|-------------|
| N/PE | $N = 3 \times 25 + 14 \times 4 \text{ mm}^2$ | $PE = 3 \times 25 + 14 \times 14 \text{ mm}^2$ | 8GB5016-5KM |
| N/N | $N1 = 3 \times 25 + 14 \times 4 \text{ mm}^2$ | $N2 = 3 \times 25 + 14 \times 14 \text{ mm}^2$ | 8GB5017-5KM |
| N | $N = 6 \times 25 + 28 \times 4 \text{ mm}^2$ | | 8GB5020-5KM |
| PE | $PE = 6 \times 16 + 28 \times 5 \text{ mm}^2$ | | 8GB5021-5KM |

Terminal strips with screw terminals



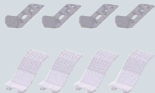
| Type | Potential 1 | Potential 2 | Article No. |
|------|--|--|-------------|
| N/PE | $N = 3 \times 16 + 14 \times 10 \text{ mm}^2$ | $PE = 3 \times 16 + 14 \times 10 \text{ mm}^2$ | 8GB5008-5KM |
| N/N | $N1 = 3 \times 16 + 14 \times 10 \text{ mm}^2$ | $N2 = 3 \times 16 + 14 \times 10 \text{ mm}^2$ | 8GB5015-5KM |
| N | $N = 6 \times 16 + 28 \times 10 \text{ mm}^2$ | | 8GB5010-5KM |
| PE | $PE = 6 \times 16 + 28 \times 10 \text{ mm}^2$ | | 8GB5011-5KM |

RCCB terminals

| Use | Potential | Article No. |
|---|--|-------------|
| For distributing the neutral conductor to two RCCBs | $N = 3 \times 16 + 2 \times 10 \text{ mm}^2$ | 8GB5005-5KM |

Surface-mounting distribution boards, rated current up to 63 A

| | | | | Distribution boards without door | Metal doors, white | Plastic doors, white |
|---|-------|--------|--------|----------------------------------|--------------------|----------------------|
| Degree of protection | | | | IP30 | IP30 | IP30 |
| External dimensions | | | | Safety class II | Safety class II | Safety class II |
| Width | Depth | Length | Type | | | |
| Surface-mounting distribution boards | | | | | | |
| 305 mm | 99 mm | 250 mm | 1-tier | 8GB5012-0KM | 8GB5001-5KM | 8GB5001-5KM01 |
| | | 375 mm | 2-tier | 8GB5024-0KM | 8GB5002-5KM | 8GB5002-5KM01 |
| | | 515 mm | 3-tier | 8GB5036-0KM | 8GB5003-5KM | 8GB5003-5KM01 |
| | | 640 mm | 4-tier | 8GB5048-0KM | 8GB5004-5KM | 8GB5004-5KM01 |

| Door locking kit | | | | |
|---|--|---|-------------|-------------|
| | Use | Feature | Article No. | |
|  | For snapping into door handle | With two keys | 8GB5006-5KM | |
| Blanking strips | | | | |
| | Width | Feature | Color | Article No. |
|  | 12 MW | Increased flame protection up to 850 °C | White | 8GB4683 |
| Mounting aid for flush mounting | | | | |
| | Use | Article No. | | |
|  | For flush-mounting and hollow-wall distribution boards | 8GB5013-5KM | | |

ALPHA SIMBOX XL small distribution boards

Multimedia distribution boards, rated current up to 63 A

Surface-mounting distribution boards

Degree of protection IP30



| Cutout width | Cutout depth | Cutout length | Type | Safety class II |
|---|--------------|---------------|--------|-----------------|
| Hollow-wall/flush-mounting distribution boards | | | | |
| 323 mm | 88 mm | 605 mm | 3-tier | 8GB5036-3KM01 |
| | | 730 mm | 4-tier | 8GB5048-3KM01 |
| Surface-mounting distribution boards | | | | |
| 323 mm | 88 mm | 605 mm | 3-tier | 8GB5036-3KM00 |
| | | 730 mm | 4-tier | 8GB5048-3KM00 |

Accessories

Connecting lugs

Use

For installing several distribution boards in a row, vertically or horizontally

Article No.

8GB5025-5KM

ALPHA SIMBOX WP small distribution boards

Surface-mounting distribution boards, rated current up to 63 A

Unequipped surface-mounting distribution boards

Degree of protection IP65



| Type | Height outside | Width outside | Depth outside | Safety class II |
|---|----------------|---------------|---------------|-----------------|
| Surface-mounting distribution boards | | | | |
| 1-tier | 210 mm | 143 mm | 100 mm | 8GB1371-0 |
| | | 215 mm | 100 mm | 8GB1371-1 |
| | 260 mm | 298 mm | 140 mm | 8GB1371-2 |
| | | 410 mm | 140 mm | 8GB1371-3 |
| 2-tier | 420 mm | 298 mm | 140 mm | 8GB1372-2 |
| | 463 mm | 410 mm | 140 mm | 8GB1372-3 |
| 3-tier | 655 mm | 410 mm | 140 mm | 8GB1373-3 |
| 4-tier | 878 mm | 410 mm | 160 mm | 8GB1374-3 |

Accessories

Covers



- For connection of conduit and cable duct entries
- Snap-on mounting

| MW | Article No. |
|----|-------------|
| 12 | 8GB2051-0 |
| 18 | 8GB2051-1 |

N/PE terminal strips



- For snapping onto device holder

| MW | Potential 1 | Potential 2 | Article No. |
|----|--------------------------------------|---------------------------------------|-------------|
| 8 | N = 1 × 25 + 7 × 10 mm ² | PE = 1 × 25 + 7 × 10 mm ² | 8GB2052-0 |
| 12 | N = 3 × 25 + 10 × 10 mm ² | PE = 3 × 25 + 10 × 10 mm ² | 8GB2052-1 |
| 18 | N = 5 × 25 + 14 × 10 mm ² | PE = 5 × 25 + 14 × 10 mm ² | 8GB2052-2 |

Inner partitions, horizontal



| MW | Article No. |
|----|-------------|
| 12 | 8GB2053-0 |
| 18 | 8GB2053-1 |

Front covers

| MW | Article No. |
|----|-------------|
| 12 | 8GB2054-0 |
| 18 | 8GB2054-1 |

Safety cylinder locks

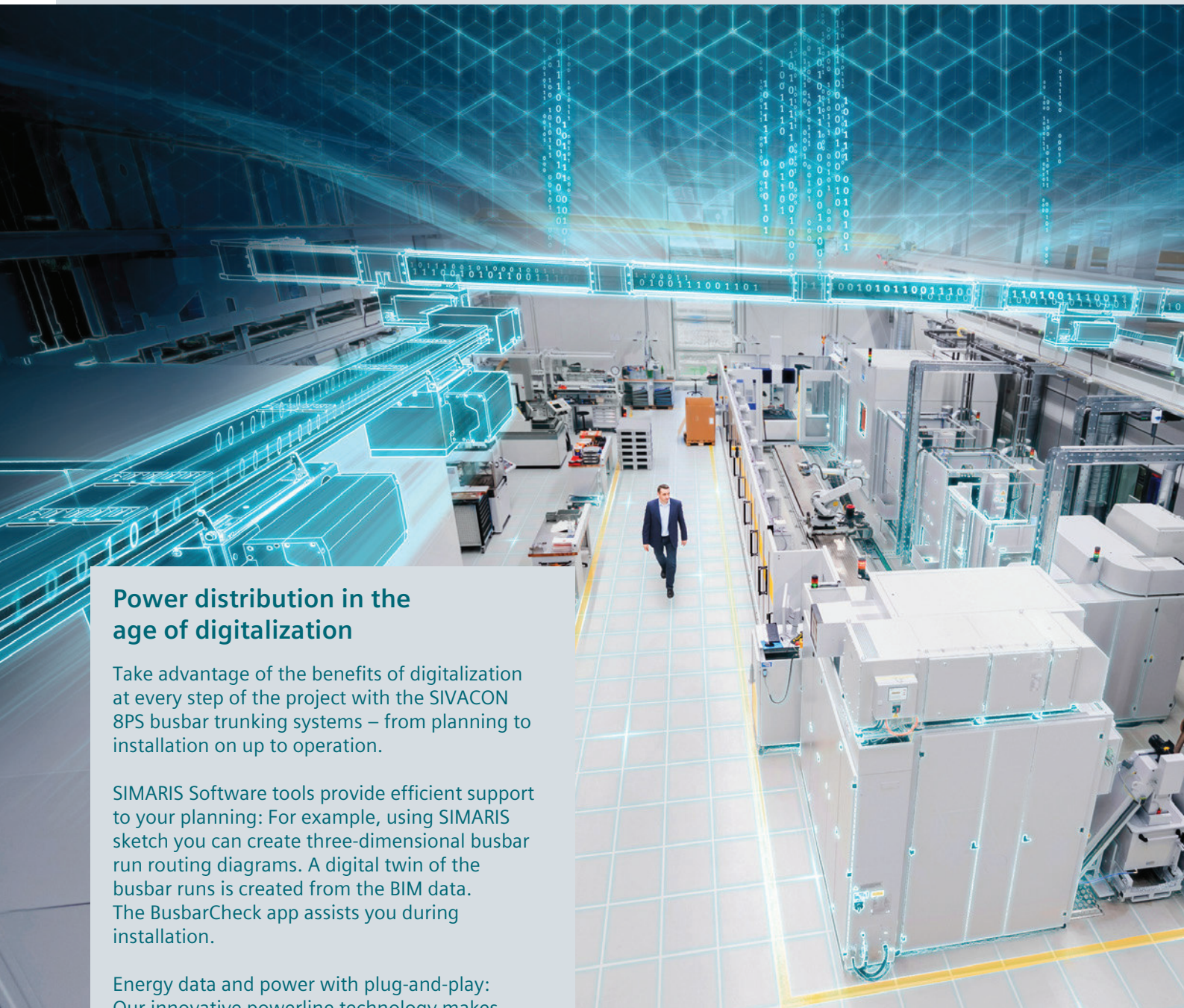


| Material | Scope of supply | Article No. |
|----------|-----------------|-------------|
| Metal | With key | 8GB2055-0 |

Blanking strips



| Version | Color | Article No. |
|-----------------------------|-----------------------|---------------|
| For 12 MW (1 MW = 18 mm) | RAL 7035 (light gray) | 8GK9910-0KK00 |



Power distribution in the age of digitalization

Take advantage of the benefits of digitalization at every step of the project with the SIVACON 8PS busbar trunking systems – from planning to installation on up to operation.

SIMARIS Software tools provide efficient support to your planning: For example, using SIMARIS sketch you can create three-dimensional busbar run routing diagrams. A digital twin of the busbar runs is created from the BIM data. The BusbarCheck app assists you during installation.

Energy data and power with plug-and-play: Our innovative powerline technology makes this possible for SIVACON 8PS busbar trunking systems – efficient and reliable. Energy data is simply transferred to the automation and energy management systems, as well as to cloud-based systems (IoT). Data and electricity travel the same path via the conductor circuits and phases of the BD2, LD and LI busbar trunking systems.

Busbar Trunking Systems



| | |
|-------------------------------------|------|
| All the information you need | 16/2 |
| Quick selection guide | 16/4 |
| SIVACON 8PS busbar trunking systems | 16/4 |
| Planning and installation tools | 16/6 |

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about busbar trunking systems, please visit our website
www.siemens.com/sivacon-8PS

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Brochure – Energy and data successfully put on track ([109747761](#))
- Catalog LV 70 – 2015 – SIVACON 8PS busbar trunking systems – BD01, BD2 up to 1250 A ([109744546](#))

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

- SIVACON power distribution (general)
bit.ly/2m4oSLI

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- SIVACON 8PS sie.ag/2IXpCT1
- SIMARIS planning tools sie.ag/2m3oFbS

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

Order support for SIVACON 8PS – BD01 and BD2
www.siemens.com/LV70

Configurators

Configure your SIVACON 8PS BD01 or BD2 busbar trunking system in the [Industry Mall](#)

... can be found in our online services

Commissioning + operation

Planning tools

BIM-compliant SIMARIS planning tools

The SIMARIS planning tools effectively assist you in your planning process. Project-specific BIM (Building Information Modeling) data for cross-package planning is also possible.

www.siemens.com/simaris

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Planning manual – Planning with SIVACON 8PS (109478425)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Training and tutorials

Our training courses can be found at

www.power-academy.siemens.com

Technical overview – Busbar trunking systems

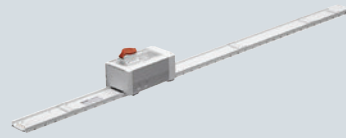


The fast way to get you to our online services

This page provides you with comprehensive information and links on busbar trunking systems

www.siemens.com/lowvoltage/product-support (109769090)

SIVACON 8PS busbar trunking systems

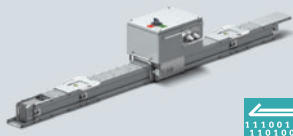


| Busbar trunking systems | BD01 | BD2 |
|---|--|---|
| Basic data | | |
| System description | Flexible power supply in workshops and production plants for skilled trades and businesses and commercial enterprises | The universal solution for high power levels in a small space, especially in offices and in industrial transfer lines |
| Typical applications | <ul style="list-style-type: none"> • Workshops and production plants • Supermarkets • Data centers • High-rise buildings • Trade fair buildings • Automotive industry • Marine applications | <ul style="list-style-type: none"> • Workshops and production plants • Production industry • Do-it-yourself centers • Data centers • High-rise buildings • Foodstuffs industry • Trade fair buildings • Hospitals • Automotive industry • Marine applications |
| Basic data | | |
| Rated insulation voltage U_i | 400 V AC | 690 V AC |
| Rated operational voltage U_e | 400 V AC | 690 V AC |
| Degree of protection | IP54, IP55 | IP52, IP55 |
| Rated current I_{nA} | 40 ... 160 A | 160 ... 1250 A |
| Rated peak withstand current I_{pk} | Up to 15.3 kA | Up to 90 kA |
| Rated short-time withstand current I_{cw} (1 s) | Up to 2.5 kA | Up to 34 kA |
| Number of conductors | 4 (PE = enclosure) | 5 |
| Connection technology | Connecting flange with built-in expansion compensation | With built-in expansion compensation, bolt-type terminal |
| Outgoing feeders and junctions | | |
| Tap-off point | On one side every 0.5 or 1 m | On one side every 0.5 m, On two sides offset every 0.25 m |
| Tap-off unit | Up to 63 A | Up to 530 A |
| Material | | |
| Conductors | Aluminum / Copper | Aluminum or copper |
| Enclosures (trunking unit, feeder unit) | Sheet steel zinc-plated and painted | Sheet steel zinc-plated and painted |
| Communication | | |
| Data transmission | Data line | powerline, data line |
| Approvals / Certificates | | |
| Approvals | EAC | EAC |
| Certificates | <ul style="list-style-type: none"> • DNV GL • Environmental Product Declaration (EPD) | <ul style="list-style-type: none"> • DNV GL • Environmental Product Declaration (EPD) |

¹⁾ IP66 for pure energy transfer runs without outgoing feeders.



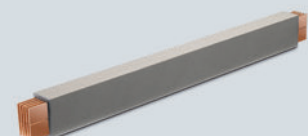
Data transfer with powerline technology



LD

LData **new**

LI



LR

The proven high-current busbar for industry and special applications

- Automotive industry
- Production industry
- Foodstuffs industry
- Trade fair buildings
- Wind power plants
- Semiconductor production
- Marine applications

1000 V AC

1000 V AC

IP34, IP54

1100 ... 5000 A

Up to 286 kA

Up to 116 kA

4, 5

Bolt-type terminal connection with hook and bolt connection

On one side every 1 m

Up to 1250 A

Aluminum or copper

Sheet steel zinc-plated and painted

powerline, data line

EAC

- DNV GL
- Environmental Product Declaration (EPD)

Efficient and reliable power supply for data centers.

The ideal solution for current and future challenges facing data centers

- Data centers

600 V AC

600 V AC

Trunking units: IP21
Tap-off units: IP21, IP41

630 ... 2500 A

Min. 84 kA

Min. 40 kA

5

Direct hook and bolt connection (LD technology)

Can be plugged in anywhere along the system

Up to 250 A

Aluminum, nickel and tin-coated

Sheet steel, tin-coated and powder-coated, black (RAL9017), insulating material on the underside

powerline, data line

–

–

An integrated solution for safe and efficient infrastructure power supply – for example in multi-story buildings and industrial applications

- Data centers
- High-rise buildings
- Production industry
- Chemicals industry
- Airports
- Trade fair buildings
- Hospitals
- Do-it-yourself centers
- Shopping malls
- Supermarkets

1000 V AC

1000 V AC

IP55, IP66¹⁾

800 ... 6300 A

Up to 330 kA

Up to 150 kA

4 ... 6 conductors (incl. 200% N or add. clean earth)

Hook and bolt connection with shear nut

Up to 3 for every 3 m (per side)

Up to 1250 A

Aluminum or copper

Aluminum painted

powerline, data line

EAC

- Environmental Product Declaration (EPD)

The reliable busbar for a high degree of protection in harsh environments, for example for networking of building sections outdoors or for power supply in tunnels

- Chemicals industry
- Oil and Gas
- Tunnels and subways
- Outdoor applications

1000 V AC

1000 V AC

IP68

400 ... 6300 A

Up to 275 kA

Up to 125 kA

3 and PEN or 3, N and PE

Bolt terminal block

On one side every 1 m

On request

Aluminum or copper

Epoxy resin

–

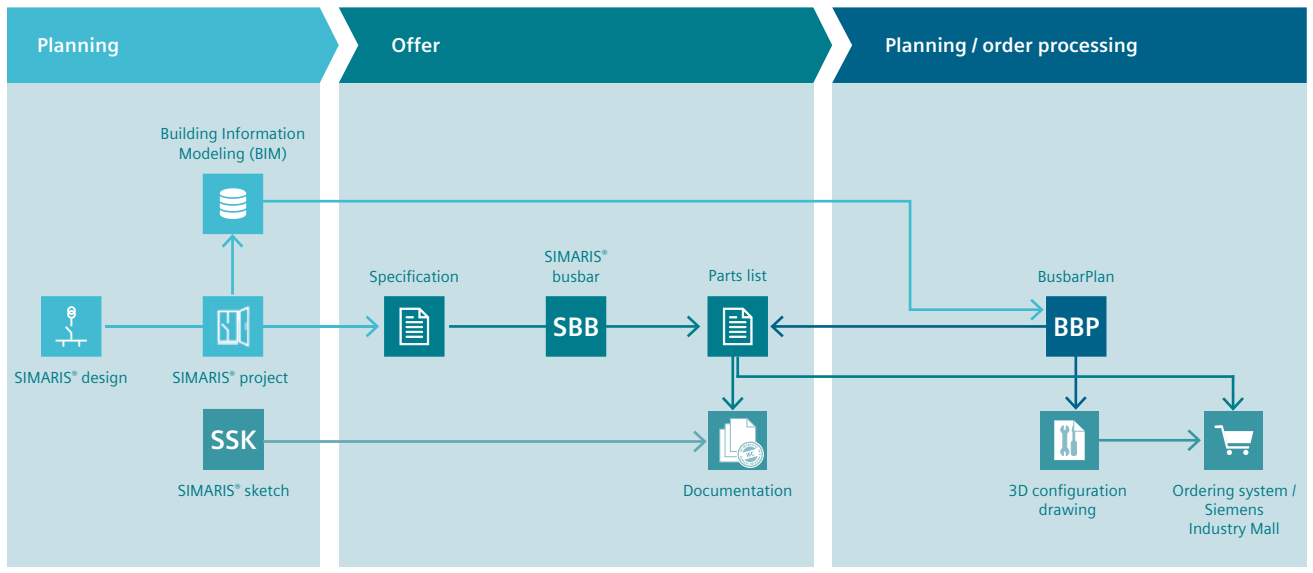
EAC

- DNV GL
- SEISMIC Qualification Certificate (earthquake test)
- ATEX
- Product Environmental Profile (PEP)

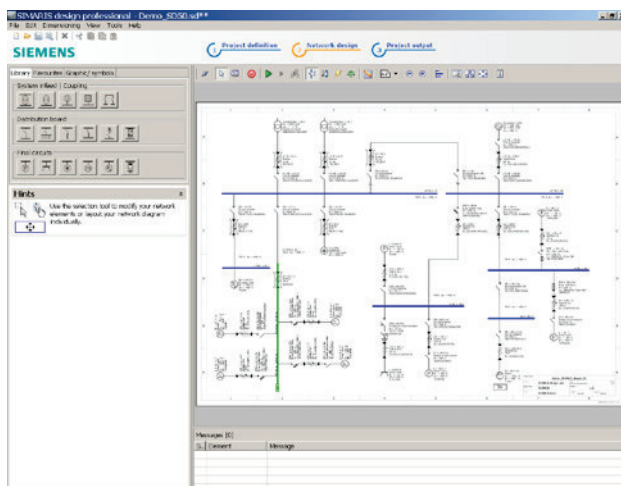
Planning and installation tools

For planning, visualization and installation of busbar trunking systems

From planning to commissioning



SIMARIS® design

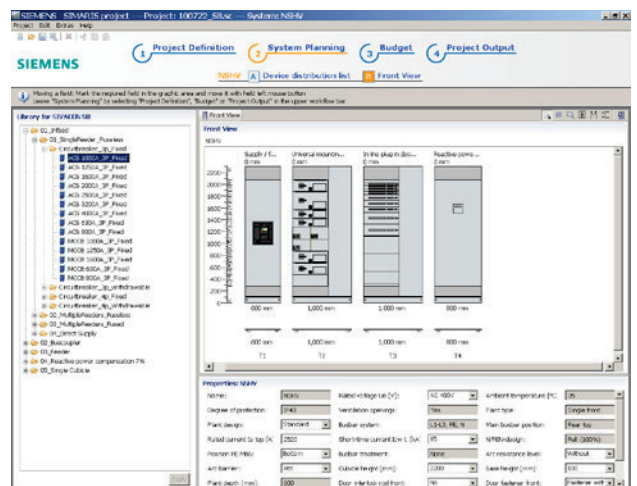


SIMARIS® design is a planning tool for fast and efficient grid calculation and dimensioning of electrical power distribution for special-purpose and industrial buildings.

- Dimensioning of electrical networks on the basis of real products according to acknowledged rules of technology and the applicable standards (VDE, IEC)
- Automatic selection of the appropriate components from the stored product database

Free download of the basic version and further information available at: www.siemens.com/simarisdg

SIMARIS® project

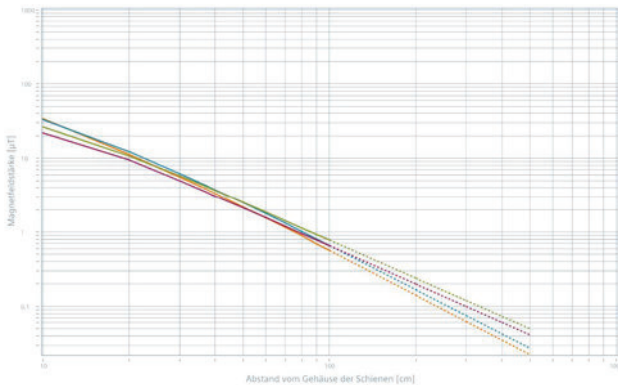


SIMARIS® project is a planning tool used to quickly determine the necessary space requirements and the budget for electrical energy distribution for special-purpose and industrial buildings and for automatic generation of specifications.

- Import into projects created with SIMARIS® design
- Export of 3D data in IFC 4.x format for BIM (Building Information Modeling)

Free download and further information available at: www.siemens.com/simariproject

SIMARIS® Toolbox (online)



The SIMARIS® Toolbox is a platform for provision of online tools for assisting electrical installation planners. It includes, for example:

- EMC Busbar (tool for calculating magnetic field strength in the vicinity of SIVACON 8PS busbar trunking systems)

Free access and further information at:
www.siemens.com/simaristoolbox

BIM data



BIM simplifies the planning process. While the simple exchange of relevant building data between the planners and the facility manager ensures high quality and reduces costs, the digital twin for power distribution fits in seamlessly with the overall structure – for efficient planning, performance and maintenance.

www.siemens.com/bim-eplanning

SIMARIS® sketch



SIMARIS® sketch is a software tool for quick and easy planning and visualization of busbar trunking systems.

- Representation of complex building structures
- Presentation of complete projects directly in 3D
- Export of parts lists as Excel files and graphics for preparation of orders

Free download and further information available at:
www.siemens.com/simarissketch

BusbarCheck app



BusbarCheck is an installation app to use for easy and high-quality installation and documentation.

- Detailed explanation of all steps
- Written record and proper documentation for better and easier evaluation of the installation
- Can be used by all installation companies and SIVACON 8PS busbar trunking installations in Germany and in other selected countries

Free download from:
[App Store](#) and [Play Store](#)

Equipped for all applications

Maximum flexibility and minimum space requirement – these are the key prerequisites for high-performance switchgear and control cabinets in industrial environments. Switchgear cabinet manufacturers have to respond increasingly rapidly to their efficiency-conscious customers' requirements. Simplified configuration, planning and implementation bring you additional competitive advantages. The SIVACON 8MF1 system cubicles were rigorously designed to meet the increased demands placed on control cabinet construction.

The SIVACON 8MF1 modular system enables custom-tailored solutions to be configured for virtually all industrial sectors and applications. Whether fully assembled, adapted according to your specifications, or developed individually, the system cubicles support the individual creation of added value in control cabinet construction. With SIVACON 8MF1, you can also be sure of absolute compliance with relevant standards: The switchgear enclosures meet all currently applicable standards and regulations. Special versions, and control cabinets with various special certifications and specific approvals, as well as variants adapted to specific sectors, can be individually developed.



System Cubicles, System Lighting and System Air-Conditioning



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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about system cubicles, system lighting and system air-conditioning, please visit our website www.siemens.com/sivacon-8mf

Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information www.siemens.com/lowvoltage/product-support

- Technical basic information – SIVACON 8MF1 system cubicle ([109767386](#))
- Brochure – SIVACON 8MF1 system cubicles – As versatile as your requirements ([109744677](#))

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- System cubicles, system lighting and system air-conditioning sie.ag/339cQB9

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

Configurators

Exactly the right cubicle for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SIVACON 8MF1 system cubicle at

www.siemens.com/lowvoltage/8mf1-configurator

The following are additionally available for your configured SIVACON 8MF1 system cubicle:

- Parts lists
- 2D data
- 3D data

... can be found in our online services

Commissioning + operation

Calculation tool

SIMARIS therm

SIMARIS therm helps you correctly dimension the heat dissipation of control cubicles.

www.siemens.com/simaristherm

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Operating Manual – Software SIMARIS therm planning tool (109744553)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

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We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Technical overview – System cubicles, system lighting and system air-conditioning



The fast way to get you to our online services

This page provides you with comprehensive information and links on system cubicles, system lighting and system air-conditioning

www.siemens.com/lowvoltage/product-support (109769091)

System overview

Complete and configurable cabinets, system lighting and system air conditioning

For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

SIVACON 8MF1 complete cubicles



Basic cubicles, IP40



Basic cubicles, IP55



Ventilated cubicles, IP20



Data cubicles, IP40



Earthquake-reinforced cubicles, IP40

Frames



Standard frames



Corner frames

Frame accessories



Bases



Separators



Trim strips



Transport eyebolts



Transport brackets



Cubicle suites

Enclosures



Section doors



Ventilated doors



Glass doors



Door halves



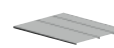
Modular doors



Side walls/rear walls



Rooves



Floors

Enclosure accessories



Roof trays



Covers



Grilles



Strips



Hinges



Rotary handles



Door position switches

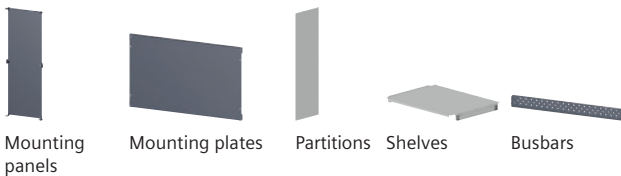


Door stays

Note:

You will find a detailed range of accessories with the basic units and in the Accessories section.

Interior installation



Interior installation accessories



19-inch expansion



SIVACON 8MR system lighting



SIVACON 8MR system air-conditioning



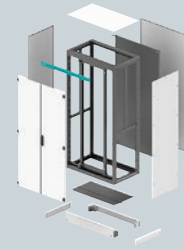
Note:
You will find a detailed range of accessories with the basic units and in the Accessories section.

System overview

SIVACON 8MF1 system cubicles



Complete cubicles



Individual modification

| Available dimensions | | | | |
|---|----|--|--|------------|
| Height | mm | 1800 2000 2200 | Special dimensions available on request (max. 2400 mm) | |
| Width | mm | 400 600 800 900 1000 1200 | Special dimensions available on request (max. 1600 mm) | |
| Depth | mm | 400 500 600 800 1000 | Special dimensions available on request (max. 1200 mm) | |
| Approvals | | | | |
| Standards | | IEC 62208 | IEC 62208 | |
| Protection | | | | |
| Degree of protection | | IP20 IP40 IP55 Shock resistance IK09 Glass doors IK08 | IP20 IP21 IP40 IP41 IP42 IP55 Shock resistance IK09 Glass doors IK08 | |
| Safety class | | I | I | |
| Enclosure | | | | |
| Material | | Sheet steel | Sheet steel | |
| Surface | | Zinc-plated Powder-coated | Zinc-plated Powder-coated | |
| Color | | RAL 7035 (light gray) | All RAL colors available, other color palettes available on request | |
| Corrosivity category in acc. to EN ISO 12944-2 | | C3 medium, paint thickness 100 µm (+/-25 µm) | C5-M very high (marine), paint thickness 150 µm (+/-25 µm) | |
| Material thickness | | | | |
| Frame | | 2.5 mm | 2.5 mm | |
| Enclosure (without doors) | | 1.5 mm | 2.5 mm | |
| Mounting panels | | 2.5 mm | 3.0 mm | |
| Mounting plates | | 2.0 mm | 3.0 mm | |
| Doors | | 1.5 mm | 2.0 mm | |
| EMC attenuation | | | | |
| EMC attenuation | | www.siemens.com/sios | www.siemens.com/sios | |
| Installable module heights (HU = 1 3/4" = 44.45 mm) | | | | |
| | | 19" fixed-mounted | 19" swing frame | |
| Height 1800 mm | | 36 HU | 34 HU | On request |
| Height 2000 mm | | 41 HU | 38 HU | On request |
| Height 2200 mm | | 45 HU | 43 HU | On request |

Quick selection guide

Two installation variants



Stand-alone installation

- With side panels
(lockable in the case of data cubicles)



Suite installation

- Without side panels

Four versions



Basic version

- IP40 or IP55



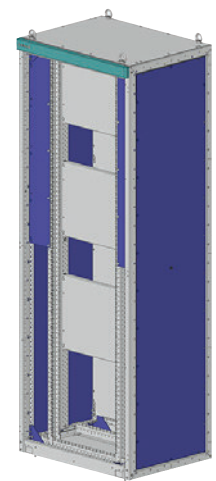
Ventilated cubicles

- IP20
- Door and roof with ventilation fins



Data cubicles

- IP40
- Glass door at front
- Section door at rear
- Roof with cable entry
- 19" fixed mounting



Earthquake-resistant version

- IP40
- Increased stability

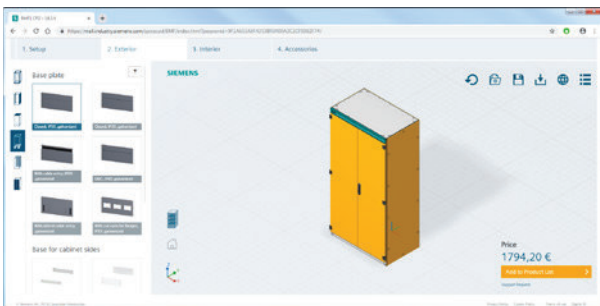
Online configurator highlights

www.siemens.com/lowvoltage/8mf1-configurator

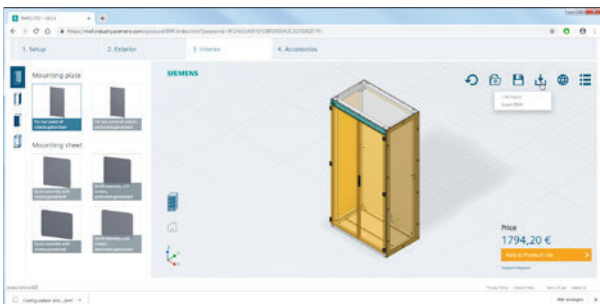
Graphical configuration directly on the 3D model (WYSIWYG)



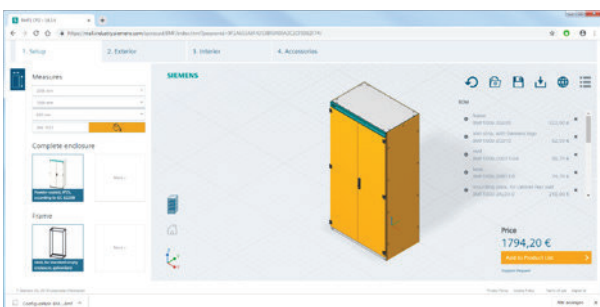
Customization of the control cabinet with cutouts and color



Exporting of parts lists and 3D and 2D data



Dynamic and interactive parts lists



Structure of the article numbers

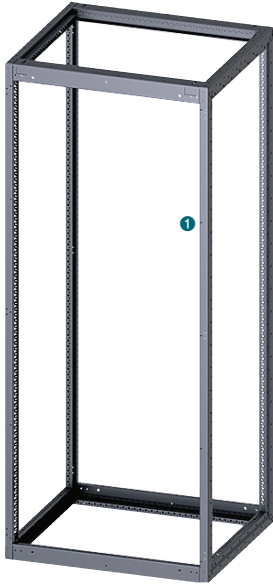
The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-----------------------------|--------------------------------|------|---|---|---|---|----|----|
| 8MF1 | | | | | | | | |
| Height | 1800 mm | 8 | | | | | | |
| | 2000 mm | 0 | | | | | | |
| | 2200 mm | 2 | | | | | | |
| Width | 400 mm | | 4 | | | | | |
| | 600 mm | | 6 | | | | | |
| | 800 mm | | 8 | | | | | |
| | 900 mm | | 9 | | | | | |
| | 1000 mm | | 0 | | | | | |
| | 1200 mm | | 2 | | | | | |
| Depth | 400 mm | | | 4 | | | | |
| | 500 mm | | | 5 | | | | |
| | 600 mm | | | 6 | | | | |
| | 800 mm | | | 8 | | | | |
| | 1000 mm | | | 0 | | | | |
| Version | Basic | | | | | B | | |
| | Ventilated | | | | | V | | |
| | Data | | | | | D | | |
| | Earthquake-resistant | | | | | E | | |
| Installation | Singly | | | | | | S | |
| | Side by side | | | | | | R | |
| Degree of protection | Basic cubicles, data cubicles | IP40 | | | | | | 4 |
| | | IP55 | | | | | | 5 |
| | Ventilated cubicles | IP20 | | | | | | 4 |
| | Earthquake-reinforced cubicles | IP40 | | | | | | 5 |

Quick selection guide

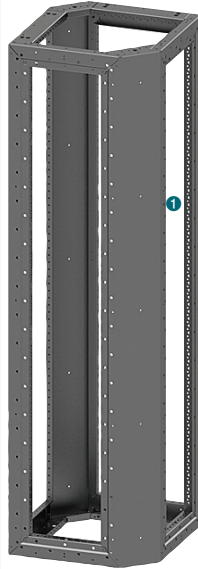
Frame

For standard enclosure

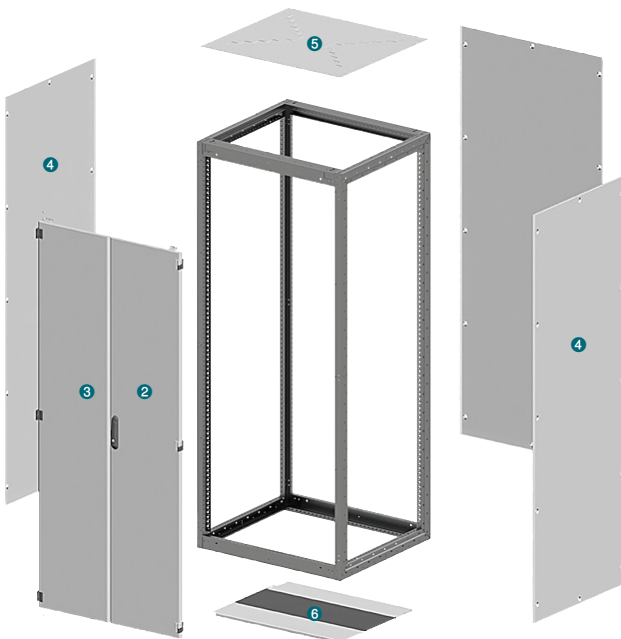


1 Frame

For corner enclosure



Enclosure



2 Door, door half
3 Modular door

4 Side panels, rear panel
5 Roof

6 Floor

1 Frame



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

For standard enclosure

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------|-------------------------|------|---|---|---|---|---|----|----|----|
| Height | 1800 mm | | 8 | | | | | | | |
| | 2000 mm | | 0 | | | | | | | |
| | 2200 mm | | 2 | | | | | | | |
| Width | 400 mm | | | 4 | | | | | | |
| | 600 mm | | | 6 | | | | | | |
| | 800 mm | | | 8 | | | | | | |
| | 900 mm | | | 9 | | | | | | |
| | 1000 mm | | | 0 | | | | | | |
| | 1200 mm | | | 2 | | | | | | |
| Depth | 400 mm | | | | 4 | | | | | |
| | 500 mm | | | | 5 | | | | | |
| | 600 mm | | | | 6 | | | | | |
| | 800 mm | | | | 8 | | | | | |
| | 1000 mm | | | | 0 | | | | | |
| Material, surface | Zinc-plated | | | | | | | | 3 | |
| | Powder-coated, RAL 7035 | | | | | | | | 4 | |

For corner enclosure

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------|-------------|------|---|---|---|---|---|----|----|----|
| Height | 1800 mm | | 8 | | | | | | | |
| | 2000 mm | | 0 | | | | | | | |
| | 2200 mm | | 2 | | | | | | | |
| Width | 400 mm | | | 4 | | | | | | |
| | 600 mm | | | 6 | | | | | | |
| | 800 mm | | | 8 | | | | | | |
| | 1000 mm | | | 0 | | | | | | |
| Depth | 400 mm | | | | 5 | | | | | |
| | 600 mm | | | | 7 | | | | | |
| | 800 mm | | | | 0 | | | | | |
| | 1000 mm | | | | 1 | | | | | |
| Material, surface | Zinc-plated | | | | | | | | 3 | |

1 Frame

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

Accessories

Base

| | | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|------|---|---|---|---|----|
| | | 8MF1 | | | | | |
| Height | 100 mm | 0 | | | | | |
| | 200 mm | 2 | | | | | |
| Width | 400 mm | | 4 | | | | |
| | 600 mm | | 6 | | | | |
| | 800 mm | | 8 | | | | |
| | 900 mm | | 9 | | | | |
| | 1000 mm | | 0 | | | | |
| | 1200 mm | | 2 | | | | |
| Version | Base for cubicles with door at the front and the rear | | | | | C | R |
| | Base and feet for cubicles with door at the front | | | | | C | S |
| | Base for corner cubicle | | | | | E | S |

Base cover

| | | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|-------------------------------|------|---|---|---|---|----|
| | | 8MF1 | | | | | |
| Height | 100 mm | 0 | | | | | |
| | 200 mm | 2 | | | | | |
| Depth | 400 mm | | | 4 | | | |
| | 500 mm | | | 5 | | | |
| | 600 mm | | | 6 | | | |
| | 800 mm | | | 8 | | | |
| | 1000 mm | | | 0 | | | |
| Version | Base covers for cubicle sides | | | | | | T |

Trim strip

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------|---------------------|------|---|---|---|---|----|----|----|
| | | 8MF1 | | | | | | | |
| Width | 400 mm | | 4 | | | | | | |
| | 600 mm | | 6 | | | | | | |
| | 800 mm | | 8 | | | | | | |
| | 900 mm | | 9 | | | | | | |
| | 1000 mm | | 0 | | | | | | |
| | 1200 mm | | 2 | | | | | | |
| Version | Trim strip petrol | | | | | | | | |
| | | | | | | | | 0 | 0 |
| | | | | | | | | 1 | 0 |
| | | | | | | | | 1 | 6 |
| | | | | | | | | 1 | 7 |
| | Trim strip RAL 7035 | | | | | | | 0 | 8 |

Separator

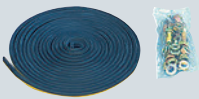
Separator for vertical division of the enclosure



| Height | Article No. |
|---------|---------------|
| 1800 mm | 8MF1165-2AT30 |
| 2000 mm | 8MF1185-2AT30 |
| 2200 mm | 8MF1205-2AT30 |

Mounting accessories

Accessories for cubicle suites



| Version | Degree of protection | Article No. |
|-------------------------------|-------------------------------|-------------|
| Screw set | IP40 | 8MF1000-2CA |
| Sealing tape | IP40 to IP55 | 8MF1000-2CB |
| Side-by-side installation kit | IP40 EMC (IP55 not available) | 8MF1000-2CE |

Kit for stabilization of corner connections



| Article No. |
|-------------|
| 8MF1000-2HF |

Transport accessories

Transport eyebolts



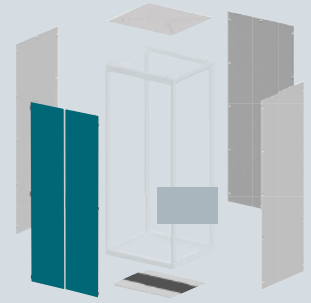
| Load bearing capacity | Article No. |
|-----------------------|-------------|
| Up to 500 kg | 8MF1000-2CK |

Transport brackets



| Width | Article No. |
|---------|-------------|
| 400 mm | 8MF1040-2CW |
| 600 mm | 8MF1060-2CW |
| 800 mm | 8MF1080-2CW |
| 900 mm | 8MF1090-2CW |
| 1000 mm | 8MF1000-2CW |
| 1200 mm | 8MF1020-2CW |


2 Door



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------------|---|--|---|---|---|---|----|----|----|----|----|----|----|
| | | 8MF1 | | 0 | 2 | U | T | | | | | | |
| Height | 1800 mm | 8 | | | | | | | | | | | |
| | 2000 mm | 0 | | | | | | | | | | | |
| | 2200 mm | 2 | | | | | | | | | | | |
| Width | 300 mm | | 3 | | | | | | | | | | |
| | 400 mm | | 4 | | | | | | | | | | |
| | 450 mm | | 7 | | | | | | | | | | |
| | 500 mm | | 5 | | | | | | | | | | |
| | 600 mm | | 6 | | | | | | | | | | |
| | 800 mm | | 8 | | | | | | | | | | |
| | 900 mm | | 9 | | | | | | | | | | |
| | 1000 mm | | 0 | | | | | | | | | | |
| 1200 mm | | 2 | | | | | | | | | | | |
| Door type | Section door / inner door | | | | | | | 1 | | | | | |
| | Door halves (only available with hinging on the left) | | | | | | | 2 | | | | | |
| Hinge position | Left | | | | | | | 5 | | | | | |
| | Right | | | | | | | 4 | | | | | |
| Door version | IP20 | With ventilation openings | | | | | | | | 1 | B | A | 2 |
| | IP40 | Closed | | | | | | | 0 | | C | A | 1 |
| | | With ventilation slits | | | | | | | 2 | | B | A | 2 |
| | IP55 | Closed | | | | | | | 0 | | B | A | 2 |
| | | With inspection window | | | | | | | 0 | | B | E | 2 |
| | IPxx | With cutout 292 × 292 mm (up to IP55) for filter fan | | | | | | | 3 | | B | A | 2 |
| | – | Inner door, closed (up to 800 mm wide) | | | | | | | 4 | | B | A | 2 |

Accessories

| Pockets in the doors | | |
|---|--|--------------------|
|  | <ul style="list-style-type: none"> Surface: zinc-plated Storage: RAL 7035 | |
| | For door width | Article No. |
| | 600 mm | 8MF1060-2VP |
| | 800 mm | 8MF1080-2VP |
| Grilles | | |
|  | <ul style="list-style-type: none"> To upgrade degree of protection from IP2x to IP4x Surface: zinc-plated | |
| | Width | Article No. |
| | 300 mm | 8MF1030-2HM |
| | 400 mm | 8MF1040-2HM |
| | 500 mm | 8MF1050-2HM |
| | 600 mm | 8MF1060-2HM |
| | 700 mm | 8MF1070-2HM |
| | 800 mm | 8MF1080-2HM |
| 900 mm | 8MF1090-2HM | |
| Strips | | |
|  | <ul style="list-style-type: none"> For door reinforcement Surface: zinc-plated Cannot be used for glass doors | |
| | Height | Article No. |
| | 1800 mm | 8MF1008-2VM |
| | 2000 mm | 8MF1000-2VM |
| | 2200 mm | 8MF1002-2VM |
| Position switches | | |
|  | Version | Article No. |
| | 1 NO + 1 NC | 8MF1000-2VL |
| | 1 NO + 2 NC | 8MF1000-2VR |
| Circuit diagram pockets | | |
|  | <ul style="list-style-type: none"> Cannot be used for glass doors | |
| | Version | Article No. |
| | Plastic | 8MF1000-2VK |
| Steel, zinc-plated | 8MF1000-2VU | |
| Rotary handles | | |
|  | Version | Article No. |
| | With padlock | 8MF1000-2VN |

2 Door

Accessories

Rotary handle inserts



- Not suitable for door halves

| Version | Article No. |
|----------------|-------------|
| Double-bit key | 8MF1000-2VA |
| Square key | 8MF1000-2VC |
| Triangular key | 8MF1000-2VD |
| Daimler | 8MF1000-2VE |
| Cylinder lock | 8MF1000-2VF |

Door stays



- With variable opening angle
- Surface: zinc-plated

| Article No. |
|-------------|
| 8MF1000-2VG |

Spare part door

Hinge sets



| Version | Article No. |
|----------------------|-------------|
| For left-hand hinge | 8MF1000-2VT |
| For right-hand hinge | 8MF1000-2VW |

Rotary handles



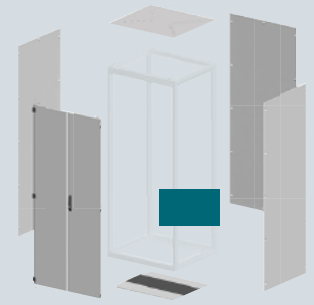
| Version | Article No. |
|----------------|-------------|
| Without insert | 8MF1000-2VP |

Grounding cables for doors



| Cable cross-section | Article No. |
|---------------------|--------------|
| 6 mm ² | 8MF1010-2HD3 |

3 Modular door



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------|---------|---|---|---|---|---|----|----|----|----|----|----|----|
| 8MF1 | | | | 0 | 2 | U | T | 3 | 4 | 0 | B | A | 2 |
| Compartment height | 300 mm | 3 | | | | | | | | | | | |
| | 400 mm | 4 | | | | | | | | | | | |
| | 500 mm | 5 | | | | | | | | | | | |
| | 600 mm | 6 | | | | | | | | | | | |
| | 700 mm | 7 | | | | | | | | | | | |
| | 800 mm | 8 | | | | | | | | | | | |
| | 900 mm | 9 | | | | | | | | | | | |
| | 1000 mm | 0 | | | | | | | | | | | |
| | 1100 mm | 1 | | | | | | | | | | | |
| 1200 mm | 2 | | | | | | | | | | | | |
| Width | 600 mm | | 6 | | | | | | | | | | |
| | 800 mm | | 8 | | | | | | | | | | |

Accessories

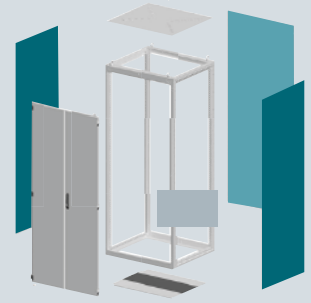
Limit plates



For a number n of modular doors, n-1 limit plates are additionally required. Please order separately

| Width | Article No. |
|--------|-----------------|
| 600 mm | 8MF1060-2AK14-0 |
| 800 mm | 8MF1080-2AK14-0 |

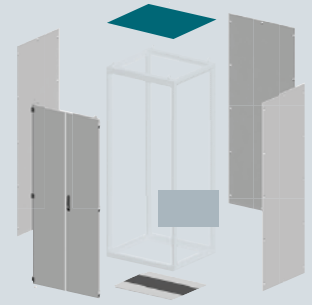
4 Side/rear panel



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| 8MF1 | | | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---------------------------------|--|--------|--------------|---|---|---|---|---|----|----|----|----|----|
| Height | | | | | | | | | | | | | |
| | 1800 mm | | | 8 | | | | | | | | | |
| | 2000 mm | | | 0 | | | | | | | | | |
| | 2200 mm | | | 2 | | | | | | | | | |
| Width | | | | | | | | | | | | | |
| | 300 mm | | | | 3 | | | | | | | | |
| | 400 mm | | | | 4 | | | | | | | | |
| | 450 mm | | | | 7 | | | | | | | | |
| | 500 mm | | | | 5 | | | | | | | | |
| | 600 mm | | | | 6 | | | | | | | | |
| | 800 mm | | | | 8 | | | | | | | | |
| | 900 mm | | | | 9 | | | | | | | | |
| | 1000 mm / No selection available for partitions | | | | 0 | | | | | | | | |
| | 1200 mm | | | | 2 | | | | | | | | |
| Depth | | | | | | | | | | | | | |
| | No value | | | | | 0 | | | | | | | |
| | 400 mm | | | | | 4 | | | | | | | |
| | 500 mm | | | | | 5 | | | | | | | |
| | 600 mm | | | | | 6 | | | | | | | |
| | 800 mm | | | | | 8 | | | | | | | |
| | 1000 mm / No selection available for side panels | | | | | 0 | | | | | | | |
| Side wall/ rear wall | IP40 | Closed | Without seal | | | | | | | 6 | 0 | 1 | C |
| | | | EMC seal | | | | | | | 6 | 2 | 1 | B |
| | | | Flat | | | | | | | 6 | 3 | 1 | C |
| | IP55 | Closed | Foamed seal | | | | | | | 6 | 1 | 1 | C |
| Partition | | Closed | Without seal | | | | | | | 7 | 0 | 3 | C |

5 Roof



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

For standard systems

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---------|---------|------------|--------------|---|---|---|---|----|----|----|----|----|---|
| | | | 0 | | | 2 | U | D | | | | | |
| Width | 400 mm | | | 4 | | | | | | | | | |
| | 600 mm | | | 6 | | | | | | | | | |
| | 800 mm | | | 8 | | | | | | | | | |
| | 900 mm | | | 9 | | | | | | | | | |
| | 1000 mm | | | 0 | | | | | | | | | |
| | 1200 mm | | | 2 | | | | | | | | | |
| Depth | 400 mm | | | | 4 | | | | | | | | |
| | 500 mm | | | | 5 | | | | | | | | |
| | 600 mm | | | | 6 | | | | | | | | |
| | 800 mm | | | | 8 | | | | | | | | |
| | 1000 mm | | | | 0 | | | | | | | | |
| Version | IP20 | Perforated | Without seal | | | | | | 2 | 0 | 0 | A | |
| | | | Without seal | | | | | | 1 | 0 | 0 | A | |
| | IP40 | Closed | EMC seal | | | | | | 1 | 2 | 0 | A | |
| | | | Without seal | | | | | | 3 | 0 | 0 | A | |
| | IP55 | Closed | Foamed seal | | | | | | | 1 | 1 | 0 | A |

For corner enclosure

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|-------------|--------------------|------|---------------------------|---|---|---|---|----|----|----|----|----|---|
| | | | 0 | 0 | | 2 | U | E | | | | | |
| Width/depth | 400/400 mm | | | | 4 | | | | | | | | |
| | 600/600 mm | | | | 6 | | | | | | | | |
| | 800/800 mm | | | | 8 | | | | | | | | |
| | 1000/1000 mm | | | | 0 | | | | | | | | |
| Version | For corner cubicle | IP20 | With ventilation openings | | | | | | 2 | 0 | 0 | A | |
| | | | Closed | | | | | | 1 | 0 | 0 | A | |
| | | IP40 | With ventilation openings | | | | | | | 3 | 0 | 0 | A |
| | | | Closed | | | | | | | 1 | 1 | 0 | A |

Accessories

Roof trays

Roof trays for increasing the degree of protection, IPX1



| Width | Depth | Article No. |
|---------|---------|-------------|
| 400 mm | 400 mm | 8MF1044-2VH |
| | 500 mm | 8MF1045-2VH |
| | 600 mm | 8MF1046-2VH |
| | 800 mm | 8MF1048-2VH |
| | 1000 mm | 8MF1040-2VH |
| 600 mm | 400 mm | 8MF1064-2VH |
| | 500 mm | 8MF1065-2VH |
| | 600 mm | 8MF1066-2VH |
| | 800 mm | 8MF1068-2VH |
| | 1000 mm | 8MF1060-2VH |
| 800 mm | 400 mm | 8MF1084-2VH |
| | 500 mm | 8MF1085-2VH |
| | 600 mm | 8MF1086-2VH |
| | 800 mm | 8MF1088-2VH |
| | 1000 mm | 8MF1080-2VH |
| 900 mm | 400 mm | 8MF1094-2VH |
| | 500 mm | 8MF1095-2VH |
| | 600 mm | 8MF1096-2VH |
| | 800 mm | 8MF1098-2VH |
| | 1000 mm | 8MF1090-2VH |
| 1000 mm | 400 mm | 8MF1004-2VH |
| | 500 mm | 8MF1005-2VH |
| | 600 mm | 8MF1006-2VH |
| | 800 mm | 8MF1008-2VH |
| | 1000 mm | 8MF1000-2VH |
| 1200 mm | 400 mm | 8MF1024-2VH |
| | 500 mm | 8MF1025-2VH |
| | 600 mm | 8MF1026-2VH |
| | 800 mm | 8MF1028-2VH |
| | 1000 mm | 8MF1020-2VH |

Roof tray rims

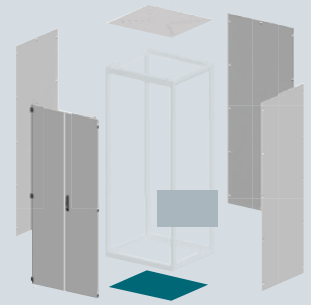
Roof tray rims for cubicle side, IPX1



Each cubicle or cubicle group with a roof tray requires two roof tray rims.
(1 set = 2 units)

| Depth | Article No. |
|---------|-------------|
| 400 mm | 8MF1004-2VB |
| 500 mm | 8MF1005-2VB |
| 600 mm | 8MF1006-2VB |
| 800 mm | 8MF1008-2VB |
| 1000 mm | 8MF1000-2VB |

6 Floor



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

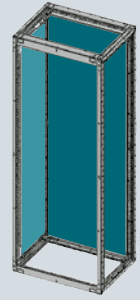
For standard enclosure

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---------------------------|---------------------------|------|---|---|---|---|---|----|----|----|----|
| | | | 0 | | | 2 | U | B | | | |
| Width | 400 mm | | | 4 | | | | | | | |
| | 600 mm | | | 6 | | | | | | | |
| | 800 mm | | | 8 | | | | | | | |
| | 900 mm | | | 9 | | | | | | | |
| | 1000 mm | | | 0 | | | | | | | |
| | 1200 mm | | | 2 | | | | | | | |
| Depth | 400 mm | | | | 4 | | | | | | |
| | 500 mm | | | | 5 | | | | | | |
| | 600 mm | | | | 6 | | | | | | |
| | 800 mm | | | | 8 | | | | | | |
| | 1000 mm | | | | 0 | | | | | | |
| Version | IP30 Closed, divided | | | | | | | | 2 | 2 | 0 |
| | IP40 Closed EMC seal | | | | | | | | 4 | 2 | 0 |
| | IP55 Closed Foamed seal | | | | | | | | 1 | 2 | 0 |
| | IPxx With cable entry | | | | | | | | 3 | 2 | 0 |
| | With cable entry, lateral | | | | | | | | 5 | 1 | 2 |
| With cut-outs for flanges | | | | | | | | 5 | 2 | 0 | |

For corner enclosure

| | | 8MF1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|----------------------|---------|------|---|---|---|---|---|----|----|----|----|
| | | | 0 | 0 | | 2 | U | E | | 1 | 0 |
| Depth | 400 mm | | | | 4 | | | | | | |
| | 600 mm | | | | 6 | | | | | | |
| | 800 mm | | | | 8 | | | | | | |
| | 1000 mm | | | | 0 | | | | | | |
| Degree of protection | IP40 | | | | | | | | 2 | | |
| | IP55 | | | | | | | | 1 | | |

Mounting panels



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|------------------------------|--|------|---|---|---|---|----|----|----|----|
| | | 8MF1 | | | | | | | | |
| Cubicle height | 1800 mm | 8 | | | | | | | | |
| | 2000 mm | 0 | | | | | | | | |
| | 2200 mm | 2 | | | | | | | | |
| Cubicle width | 400 mm | | 4 | | | | | | | |
| | 600 mm | | 6 | | | | | | | |
| | 800 mm | | 8 | | | | | | | |
| | 900 mm | | 9 | | | | | | | |
| | 1000 mm / No selection available for installation on side of cubicle | | 0 | | | | | | | |
| | 1200 mm | | 2 | | | | | | | |
| Depth | 400 mm | | | 4 | | | | | | |
| | 500 mm | | | 5 | | | | | | |
| | 600 mm | | | 6 | | | | | | |
| | 800 mm | | | 8 | | | | | | |
| | 1000 mm / No selection available for installation on cubicle width | | | 0 | | | | | | |
| Installation location | Cubicle width | | | | | | L | | | |
| | Cubicle side | | | | | | K | | | |
| Version | Smooth | | | | | | | 0 | | |
| | Perforated | | | | | | | 1 | | |
| Material | 2.5 mm sheet steel | | | | | | | | | 3 |

Accessories

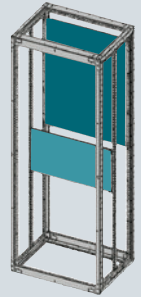
Mounting panel adapters



- For connecting side-by-side mounting panels
- Surface: zinc-plated

| Height | Article No. |
|---------|-------------|
| 1800 mm | 8MF1800-2CH |
| 2000 mm | 8MF1000-2CH |
| 2200 mm | 8MF1200-2CH |

Mounting plates



The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your complete cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

| | | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|-----------------------|--|------|---|---|---|---|----|----|----|----|
| | | 8MF1 | | | | | | | | |
| Height | 100 mm | 1 | | | | | | | | |
| | 200 mm | 2 | | | | | | | | |
| | 300 mm | 3 | | | | | | | | |
| | 400 mm | 4 | | | | | | | | |
| | 600 mm | 6 | | | | | | | | |
| | 800 mm | 8 | | | | | | | | |
| Width | 400 mm | | 4 | | | | | | | |
| | 600 mm | | 6 | | | | | | | |
| | 800 mm | | 8 | | | | | | | |
| | 900 mm | | 9 | | | | | | | |
| | 1000 mm | | 0 | | | | | | | |
| | 1200 mm | | 2 | | | | | | | |
| Installation location | Fixed with zinc die-cast parts between the bars of the frame | | | | | | M | | | |
| | Fixed directly to the frame | | | | | | A | | | |
| Version | Smooth | | | | | | | 0 | | |
| | Perforated | | | | | | | 1 | | |
| Material | 2.0 mm sheet steel | | | | | | | | 2 | |

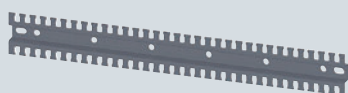
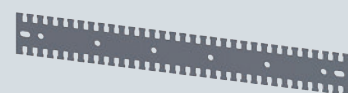
Mounting rails

Mounting rails (50)



| Version | | Length | Article No. |
|-----------------------------|----------------------------|---------|---------------|
| Suitable for cubicle width | 400 mm | 325 mm | 8MF1032-2AS30 |
| | 600 mm | 525 mm | 8MF1052-2AS30 |
| | | 550 mm | 8MF1055-2AS30 |
| | | 625 mm | 8MF1062-2AS30 |
| | 800 mm | 725 mm | 8MF1072-2AS30 |
| | | 750 mm | 8MF1075-2AS30 |
| | 900 mm | 825 mm | 8MF1082-2AS30 |
| | 1000 mm | 925 mm | 8MF1092-2AS30 |
| | | 1050 mm | 8MF1105-2AS30 |
| | 1200 mm | 1125 mm | 8MF1112-2AS30 |
| | | 1250 mm | 8MF1125-2AS30 |
| | | 1350 mm | 8MF1135-2AS30 |
| | | 1450 mm | 8MF1145-2AS30 |
| | | 1550 mm | 8MF1155-2AS30 |
| Suitable for cubicle height | 1800 mm | 1650 mm | 8MF1165-2AS30 |
| | | 1750 mm | 8MF1175-2AS30 |
| | 2000 mm | 1850 mm | 8MF1185-2AS30 |
| | | 1950 mm | 8MF1195-2AS30 |
| | 2200 mm | 2050 mm | 8MF1205-2AS30 |
| | | 2150 mm | 8MF1215-2AS30 |
| | | 2250 mm | 8MF1225-2AS30 |
| | Suitable for cubicle depth | 400 mm | 250 mm |
| 500 mm | | 350 mm | 8MF1035-2AS30 |
| | | 425 mm | 8MF1042-2AS30 |
| 600 mm | | 450 mm | 8MF1045-2AS30 |
| 800 mm | | 650 mm | 8MF1062-2AS30 |
| 1000 mm | | 850 mm | 8MF1085-2AS30 |

Mounting rails, serrated



| Version | | Length | Article No. |
|---------|---------|--------|-----------------|
| Flat | 600 mm | | 8MF1060-2HC13-0 |
| | 800 mm | | 8MF1080-2HC13-0 |
| | 900 mm | | 8MF1090-2HC13-0 |
| | 1000 mm | | 8MF1000-2HC13-0 |
| | 1200 mm | | 8MF1020-2HC13-0 |
| | U-shape | 600 mm | |
| 800 mm | | | 8MF1080-2HC03-0 |
| 900 mm | | | 8MF1090-2HC03-0 |
| 1000 mm | | | 8MF1000-2HC03-0 |
| 1200 mm | | | 8MF1020-2HC03-0 |

Mounting rails, compact



| Version | | Length | Article No. |
|----------------------------|---------|---------|---------------|
| Suitable for cubicle width | 600 mm | 566 mm | 8MF1056-2AS30 |
| | 1000 mm | 966 mm | 8MF1096-2AS30 |
| | 1200 mm | 1166 mm | 8MF1006-2AS30 |
| Suitable for door width | 300 mm | 166 mm | 8MF1016-2AS30 |
| | 400 mm | 266 mm | 8MF1026-2AS30 |
| | 450 mm | 316 mm | 8MF1031-2AS30 |
| | 500 mm | 366 mm | 8MF1036-2AS30 |
| | 600 mm | 466 mm | 8MF1046-2AS30 |
| | 800 mm | 666 mm | 8MF1066-2AS30 |
| | 900 mm | 766 mm | 8MF1076-2AS30 |
| | 1000 mm | 866 mm | 8MF1086-2AS30 |

Mounting rails, heavy duty

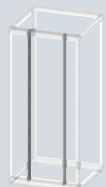


- Can be installed in the cubicle depth and width (the length corresponds to the appropriate cubicle dimension)

| Length | Article No. |
|---------|---------------|
| 600 mm | 8MF1060-2AH60 |
| 800 mm | 8MF1080-2AH60 |
| 900 mm | 8MF1090-2AH60 |
| 1000 mm | 8MF1000-2AH60 |
| 1200 mm | 8MF1020-2AH60 |

19-inch expansion

Cubicle frames



- For the installation of 19" devices, screwed
- In combination with 2 mounting rails heavy duty in cabinet width (order separately, [see page 17/26](#))
- For cabinet width ≥ 600 mm

| Surface | Height | Article No. |
|-------------|---------|---------------|
| Zinc-plated | 400 mm | 8MF1100-2AN30 |
| | 600 mm | 8MF1200-2AN30 |
| | 800 mm | 8MF1300-2AN30 |
| | 1000 mm | 8MF1400-2AN30 |
| | 1200 mm | 8MF1500-2AN30 |
| | 1400 mm | 8MF1600-2AN30 |
| | 1800 mm | 8MF1700-2AN30 |
| | 2000 mm | 8MF1800-2AN30 |
| | 2200 mm | 8MF1900-2AN30 |

Swing frames



- For the installation of 19" devices, screwed
- Endstop left / right
- In combination with 2 mounting rails heavy duty in cabinet width (order mounting rail separately)
- For cubicle width ≥ 800 mm

| Version | Surface | Height | Article No. |
|---------|---------------|---------|-----------------|
| Screwed | Zinc-plated | 1800 mm | 8MF1800-2AR02-4 |
| | | 2000 mm | 8MF1000-2AR02-4 |
| | | 2200 mm | 8MF1200-2AR02-4 |
| | Powder-coated | 1800 mm | 8MF1800-2AR02-3 |
| | | 2000 mm | 8MF1000-2AR02-3 |
| | | 2200 mm | 8MF1200-2AR02-3 |
| Welded | Powder-coated | 1800 mm | 8MF1800-2AR02-2 |
| | | 2000 mm | 8MF1000-2AR02-2 |
| | | 2200 mm | 8MF1200-2AR02-2 |

Accessories

Universal supports



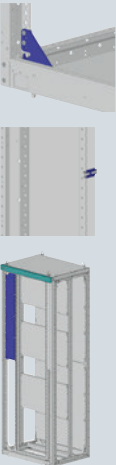






| Version | For mounting height | Article No. |
|---|---------------------|--------------|
| For cable channel, DIN rail and C-bar | 1 HU | 8MF1000-2HH2 |
| | 2 HU | 8MF1000-2HH3 |
| For cable channel, DIN rail, C-bar and lamp | | 8MF1000-2HH4 |

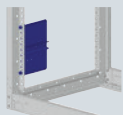
| Covers | | | | |
|---|---|-------------|---------------------|---------------|
| | Version | Surface | For mounting height | Article No. |
|  | Closed | RAL 7035 | 1 HU | 8MF1000-2AB01 |
| | | | 2 HU | 8MF1000-2AB02 |
| | | | 3 HU | 8MF1000-2AB03 |
| | | | 4 HU | 8MF1000-2AB04 |
| | | | 5 HU | 8MF1000-2AB05 |
| | | | 6 HU | 8MF1000-2AB06 |
| | | | 7 HU | 8MF1000-2AB07 |
| | With ventilation openings | RAL 7035 | 2 HU | 8MF1000-2AB32 |
| | | | 3 HU | 8MF1000-2AB33 |
| | For modular installation devices | RAL 7035 | 3 HU | 8MF1000-2AB31 |
| Frames | | | | |
| | Version | Surface | | Article No. |
|  | For mounting test switches, 19" | RAL 7035 | | 8MF1000-2AB30 |
| Covers for frames | | | | |
| | Version | Surface | | Article No. |
|  | For mounting 7XP 1/6 standard devices | RAL 7035 | | 8MF1000-2AB34 |
| | For mounting 7XP 2/6 standard devices | RAL 7035 | | 8MF1000-2AB35 |
| | For mounting 7XP 3/6 standard devices | RAL 7035 | | 8MF1000-2AB36 |
| Shelves | | | | |
|  | • For 19" frame | | | |
| | Version | Surface | Depth | Article No. |
| | Non-adjustable | Zinc-plated | 230 mm | 8MF1000-2AB12 |
| | | | 400 mm | 8MF1000-2AB14 |
| Withdrawable | RAL 7035 | | 8MF1000-2HF12 | |
| Slide rails | | | | |
|  | Version | Depth | | Article No. |
| | For 19" fixed mounting (double mounting at front and rear) | 400 mm | | 8MF1004-2HG12 |
| | | 600 mm | | 8MF1006-2HG12 |
| | | 800 mm | | 8MF1008-2HG12 |
| | | 1000 mm | | 8MF1000-2HG12 |
| | For 19" fixed mounting and For 19" swing frame | | | 8MF1000-2HS12 |
| | | | | |
| Device panels | | | | |
|  | Surface | Height | Width | Article No. |
| | Zinc-plated | 1800 mm | 100 mm | 8MF1810-2AB00 |
| | | | 150 mm | 8MF1850-2AB00 |
| | | | 200 mm | 8MF1820-2AB00 |
| | | 2000 mm | 100 mm | 8MF1010-2AB00 |
| | | | 150 mm | 8MF1050-2AB00 |
| | | | 200 mm | 8MF1020-2AB00 |
| | 2200 mm | 100 mm | 8MF1210-2AB00 | |
| | | 150 mm | 8MF1250-2AB00 | |
| | | 200 mm | 8MF1220-2AB00 | |

Interior installation

General accessories

| Telescopic rails | | | | |
|---|--|------------------|--------------|--|
|  | • For withdrawable shelves | | | |
| | For cubicle depth | Article No. | | |
| | 400 mm and 600 mm | 8MF1003-2HF | | |
| | 800 mm and 1000 mm | 8MF1006-2HF | | |
| Mounting brackets | | | | |
|  | • For mounting expansion elements | | | |
| | | | Article No. | |
| | | | 8MF1000-2CP | |
| Earthquake assembly kits | | | | |
|  | For stabilization of | Article No. | | |
| | Corner connections | 8MF1000-2HA | | |
| | Intermediate panel | 8MF1000-2HW | | |
| | 19" fixed-mounteds | 8MF1000-2HE | | |
| Grounding plates | | | | |
|  | • For fixing to the frame (although fixing points for ground connection are already provided on the frame) | | | |
| | | | Article No. | |
| | | | 8MF1000-2HK | |
| Grounding bars | | | | |
|  | Version | Width | Article No. | |
| | 30 × 10 mm ² | 600 mm | 8MF1060-2HD2 | |
| | | 800 mm | 8MF1080-2HD2 | |
| | | 900 mm | 8MF1090-2HD2 | |
| | | 1000 mm | 8MF1000-2HD2 | |
| | | 1200 mm | 8MF1020-2HD2 | |
| | 30 × 5 mm ² | 600 mm | 8MF1060-2HD1 | |
| | | 800 mm | 8MF1080-2HD1 | |
| | | 900 mm | 8MF1090-2HD1 | |
| | | 1000 mm | 8MF1000-2HD1 | |
| | | 1200 mm | 8MF1020-2HD1 | |
| | | Grounding screws | | |
|  | | Thread | Article No. | |
| | M12 | 8MF1000-2HB | | |
| Grounding straps | | | | |
|  | Cross-section | Article No. | | |
| | 16 mm ² | 8MF1000-2HK1 | | |
| | 31 mm ² | 8MF1000-2HK2 | | |

Universal sheets



- Incl. standard mounting rail; e.g. for mounting a heater unit

Article No.

8MF1000-2HG

DIN rails



- For mounting modular installation devices

Height

7.5 mm

15 mm

Article No.

8MF1500-2HS

8MF1100-2HS

Insulated supports



Thread

M8

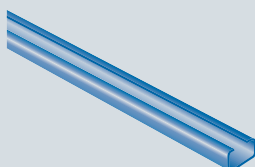
Dimensions

D 40 x 50 mm

Article No.

8MF1000-2VY

Cable clamping rails



Height

30 mm

Width

600 mm

800 mm

900 mm

1000 mm

1200 mm

-

Depth

-

400 mm

600 mm

800 mm

1000 mm

Article No.

8MF1360-2HH

8MF1380-2HH

8MF1390-2HH

8MF1310-2HH

8MF1320-2HH

8MF1304-2HH

8MF1306-2HH

8MF1308-2HH

8MF1301-2HH

40 mm

600 mm

800 mm

900 mm

1000 mm

1200 mm

-

400 mm

600 mm

800 mm

1000 mm

8MF1460-2HH

8MF1480-2HH

8MF1490-2HH

8MF1410-2HH

8MF1420-2HH

8MF1404-2HH

8MF1406-2HH

8MF1408-2HH

8MF1401-2HH

50 mm

600 mm

800 mm

900 mm

1000 mm

1200 mm

-

400 mm

600 mm

800 mm

1000 mm

8MF1560-2HH

8MF1580-2HH

8MF1590-2HH

8MF1510-2HH

8MF1520-2HH

8MF1504-2HH

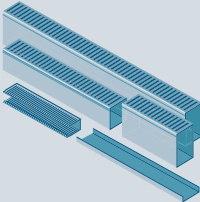


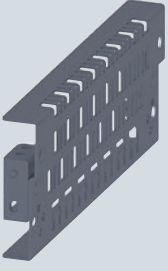
8MF1506-2HH




8MF1508-2HH

8MF1501-2HH

Interior installation

General accessories

| Cable ducts | | | | | |
|---|-----------------|--------------|---------------|--------------|--------------|
| | Version | Color | Height | Width | Article No. |
|  | Halogen-free | RAL 7035 | 37.5 mm | 25 mm | 8MF1120-2HL7 |
| | | | 50 mm | 25 mm | 8MF1220-2HL7 |
| | | | | 37.5 mm | 8MF1240-2HL7 |
| | | | | 50 mm | 8MF1250-2HL7 |
| | | | | 75 mm | 8MF1260-2HL7 |
| | | | 75 mm | 50 mm | 8MF1350-2HL7 |
| | | | | 75 mm | 8MF1360-2HL7 |
| | | | | 100 mm | 8MF1370-2HL7 |
| | | | | 125 mm | 8MF1380-2HL7 |
| | 100 mm | 75 mm | 8MF1460-2HL7 | | |
| | Standard | RAL 7030 | 37.5 mm | 25 mm | 8MF1120-2HL6 |
| | | | 50 mm | 25 mm | 8MF1220-2HL6 |
| | | | | 37.5 mm | 8MF1240-2HL6 |
| | | | | 50 mm | 8MF1250-2HL6 |
| | | | | 75 mm | 8MF1260-2HL6 |
| | | | 75 mm | 50 mm | 8MF1350-2HL6 |
| | | | | 75 mm | 8MF1360-2HL6 |
| | | | | 100 mm | 8MF1370-2HL6 |
| | | | 125 mm | 8MF1380-2HL6 | |
| 100 mm | 75 mm | 8MF1460-2HL6 | | | |
| Edge protection | | | | | |
|  | Dimensions | | | | Article No. |
| | 9.5 mm × 6.5 mm | | | | 8MF1000-2CD |
| Mounting plates | | | | | |
|  | Dimensions | | Version | Article No. | |
| | 122 mm × 91 mm | | Standard | 8MF1000-2HH | |
| | 122 mm × 92 mm | | With DIN rail | 8MF1000-2HH1 | |
| Buses for improving EMC | | | | | |
|  | Installation in | | Width | Depth | Article No. |
| | Cubicle width | | 400 mm | – | 8MF1040-2HN |
| | | | 600 mm | – | 8MF1060-2HN |
| | | | 800 mm | – | 8MF1080-2HN |
| | | | 900 mm | – | 8MF1090-2HN |
| | | | 1000 mm | – | 8MF1000-2HN |
| | | | 1200 mm | – | 8MF1020-2HN |
| | Cubicle depth | | – | 400 mm | 8MF1004-2HN |
| | | | | 600 mm | 8MF1006-2HN |
| | | | | 800 mm | 8MF1008-2HN |
| | | | | 1000 mm | 8MF1001-2HN |
| | | | | | |

| Brackets | | |
|--|---|--------------------|
|  | <ul style="list-style-type: none"> For variable mounting of cable clamping rails | Article No. |
| | | 8MF1000-2HH5 |
| Toothed bars | | |
|  | <ul style="list-style-type: none"> For installation on mounting rail | Article No. |
| | Length 100 mm | 8MF1000-2HC |
| Contact washers | | |
| | <ul style="list-style-type: none"> Size 6 | Article No. |
| | Scope of supply 100 units | 8MF1000-2VJ |
| Screws | | |
| | <ul style="list-style-type: none"> M6 × 12 | Article No. |
| | Scope of supply 100 units | 8MF1000-2VS |
| Adapters for wiring systems | | |
|  | Version | |
| | For Lütze wiring system | 8MF1000-2HL |
| | For Promet wiring system | 8MF1000-2HP |

Quick selection guide

SIVACON 8MR system lighting ensures optimum lighting conditions during installation and maintenance. The LED technology is energy-efficient and maintenance-free.

Magnetic fixing

Easy installation at any point on the steel cubicle

Screw fixing

Fixed installation in the case of impact loads or high vibration levels

Clip fixing

The lamp is snapped into the clip bracket and can be turned in both directions

With motion detector

The lights switch on when the door is opened, enabling work in the cubicle to be started immediately



With On/Off switch

Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components



8MR system lighting



| | Magnetic fixing | Screw fixing | Clip fixing |
|--|-----------------|--------------|-------------|
| LED lights with motion detector | | | |
| 100 ... 240 V AC, 50/60 Hz | 8MR2200-0A | 8MR2200-0B | 8MR2200-0C |
| 24 ... 48 V DC | 8MR2201-0A | 8MR2201-0B | 8MR2201-0C |
| LED lights with On/Off switch | | | |
| 100 ... 240 V AC, 50/60 Hz | 8MR2200-1A | 8MR2200-1B | 8MR2200-1C |
| 24 ... 48 V DC | 8MR2201-1A | 8MR2201-1B | 8MR2201-1C |

Accessories

Cables

Connecting cables with socket and open end



- For connection of an LED light (switch side)
- Length 2 m

| Version | Cross-section | Standard | Article No. |
|---------------------|-------------------------|----------|-------------|
| AC connecting cable | 2 × 1.5 mm ² | VDE | 8MR2210-1B |
| | AWG 16 | UL | 8MR2210-2B |
| DC connecting cable | 2 × 1.5 mm ² | VDE | 8MR2210-3B |
| | AWG 16 | UL | 8MR2210-4B |

Extension cables with socket and plug



- For looping through to another LED light
- Length 1 m

| Version | Cross-section | Standard | Article No. |
|---------------------------|-------------------------|----------|-------------|
| AC plastic-sheathed cable | 2 × 1.5 mm ² | VDE | 8MR2210-1C |
| | AWG 16 | UL | 8MR2210-2C |
| DC plastic-sheathed cable | 2 × 1.5 mm ² | VDE | 8MR2210-3C |
| | AWG 16 | UL | 8MR2210-4C |

Individual plugs or sockets for self-assembly of cables

For connection of an LED light (switch side)



| Version | Application | Color | Article No. |
|-----------|----------------|-------|-------------|
| AC socket | For input side | White | 8MR2210-1A |
| DC socket | For input side | Blue | 8MR2210-3A |

For looping through to another LED light



| Version | Application | Color | Article No. |
|--------------|-----------------|-------|-------------|
| AC connector | For output side | White | 8MR2210-2A |
| DC connector | For output side | Blue | 8MR2210-4A |

Quick selection guide

Solutions to provide protection against heat

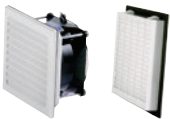
Cooling devices



Heat exchangers



Filter fans / outlet fans



Thermostats



Solutions to provide protection against cold

Heater units



Fan heaters



Thermostats



Solutions to provide protection against corrosion and condensation

Heater units / fan heaters



Filter fans / outlet filters



Thermostats



Hygrostats / hygrotherms



SIMARIS[®] therm

| Nominal current | Order number | Description | Quantity | Number | Connected poles | Rated current [A] | RDF (rated dissipation factor) | Power loss, pole-d |
|-----------------|---------------------|--------------------|----------|--------|-----------------|-------------------|--------------------------------|--------------------|
| 0.00 | 69.3210-34E11-BA... | DINAMICS G120L... | 1 | 0 | 0 | 0.00 | | - |
| 0.00 | 69.3210-34E11-BA... | DINAMICS G120L... | 1 | 0 | 0 | 0.00 | | - |
| 800.00 | 3WEL208... | AIR CIRCULAT BR... | 1 | 3 | 3 | 500.00 | | 2 |
| 500.00 | 3VA6100-34E10-BA... | MICRO-LOG E150... | 1 | 3 | 3 | 500.00 | | 1 |
| 63.00 | 3H2706-83... | MOLDED CASED... | 1 | 3 | 3 | 63.00 | | - |

Power loss, devices [W] 145.4 with RDF 80 % (Einsätze Geräte können einen abweichenden Antriebsfaktor haben)
Power loss, wiring [W] 43.6
Power loss, busbars [W] 0.0
Disippatable power loss for cooling [W] selection of devices : 6MR423-3E008
Total power loss [W] -451.0
Disippatable power loss [W] at the maximum 236.8 corresponds to 20 K at 75% height of the enclosure
 The effective power losses of all circuits can be dissipated by the enclosure.

SIMARIS[®] therm is a software tool that lets you easily and precisely dimension the heat dissipation of your control cubicles, simply by entering the ambient air temperature and selecting the relevant devices in the cubicle.

For a free download, and further information, visit: www.siemens.com/simaristherm

Filter fans and outlet filters

Filter fans

| Size | Cutout | Voltage | Input rating at 50 Hz | Color | Degree of protection IP54 | | Degree of protection IP55 | | | |
|---|--------------|--------------------|-----------------------|----------|------------------------------------|---------------|------------------------------------|---------------|---------------|---------------|
| | | | | | Air current, free-blowing at 50 Hz | Article No. | Air current, free-blowing at 50 Hz | Article No. | | |
| Filter fans with EC technology | | | | | | | | | | |
|  | 2 | 125 x 125 mm | 115 V AC, 50/60 Hz | 4.4 W | RAL 7035 | 62 m³/h | 8MR6411-5LE25 | – | – | |
| | | | 230 V AC, 50/60 Hz | 4.4 W | RAL 7035 | 62 m³/h | 8MR6423-5LE25 | – | – | |
| | 3 | 177 x 177 mm | 115 V AC, 50/60 Hz | 4.4 W | RAL 7035 | 120 m³/h | 8MR6411-5LE30 | – | – | |
| | | | 230 V AC, 50/60 Hz | 4.4 W | RAL 7035 | 120 m³/h | 8MR6423-5LE30 | – | – | |
| Standard filter fans | | | | | | | | | | |
|  | 1 | 92 x 92 mm | 115 V AC, 50/60 Hz | 12 W | RAL 7035 | 25 m³/h | 8MR6411-5LV10 | – | – | |
| | | | 230 V AC, 50/60 Hz | 12 W | RAL 7032 | 25 m³/h | 8MR6423-2LV10 | – | – | |
| | | | | | RAL 7035 | 25 m³/h | 8MR6423-5LV10 | – | – | |
| 2 | 125 x 125 mm | 115 V AC, 50/60 Hz | 20 W | RAL 7035 | 63 m³/h | 8MR6411-5LV25 | 58 m³/h | 8MR6511-5LV25 | | |
| | | | 230 V AC, 50/60 Hz | 20 W | RAL 7032 | 63 m³/h | 8MR6423-2LV25 | – | – | |
| | | | | | RAL 7035 | 63 m³/h | 8MR6423-5LV25 | 58 m³/h | 8MR6523-5LV25 | |
| 3 | 177 x 177 mm | 115 V AC, 50/60 Hz | 20 W | RAL 7035 | 115 m³/h | 8MR6411-5LV30 | 105 m³/h | 8MR6511-5LV30 | | |
| | | | 230 V AC, 50/60 Hz | 20 W | RAL 7035 | 115 m³/h | 8MR6423-5LV30 | 105 m³/h | 8MR6523-5LV30 | |
| 4 | 223 x 223 mm | 115 V AC, 50/60 Hz | 18 W | RAL 7035 | 160 m³/h | 8MR6411-5LV45 | 147 m³/h | 8MR6511-5LV45 | | |
| | | | 43 W | RAL 7035 | 250 m³/h | 8MR6411-5LV41 | 230 m³/h | 8MR6511-5LV41 | | |
| | | | 230 V AC, 50/60 Hz | 18 W | RAL 7032 | 160 m³/h | 8MR6423-2LV45 | – | – | |
| | | | | | RAL 7035 | 160 m³/h | 8MR6423-5LV45 | 147 m³/h | 8MR6523-5LV45 | |
| | | | | | 45 W | RAL 7032 | 250 m³/h | 8MR6423-2LV41 | – | – |
| | | | | | RAL 7035 | 250 m³/h | 8MR6423-5LV41 | 230 m³/h | 8MR6423-5LV41 | |
| 6 | 292 x 292 mm | 115 V AC, 50/60 Hz | 64 W | RAL 7035 | 580 m³/h | 8MR6411-5LV60 | 531 m³/h | 8MR6511-5LV60 | | |
| | | | 115 W | RAL 7035 | 930 m³/h | 8MR6411-5LV80 | 850 m³/h | 8MR6511-5LV80 | | |
| | | | 230 V AC, 50/60 Hz | 64 W | RAL 7032 | 580 m³/h | 8MR6423-2LV60 | – | – | |
| | | | | | RAL 7035 | 580 m³/h | 8MR6423-5LV60 | 531 m³/h | 8MR6523-5LV60 | |
| | | | | | RAL 7035 | 930 m³/h | 8MR6423-5LV80 | 850 m³/h | 8MR6523-5LV80 | |
| EMC filter fans | | | | | | | | | | |
|  | 3 | 177 x 177 mm | 115 V AC, 50/60 Hz | 20 W | RAL 7035 | 115 m³/h | 8MR6411-6LV30 | 105 m³/h | 8MR6511-6LV30 | |
| | | | 230 V AC, 50/60 Hz | 20 W | RAL 7035 | 115 m³/h | 8MR6423-6LV30 | 105 m³/h | 8MR6523-6LV30 | |
| 4 | 223 x 223 mm | 115 V AC, 50/60 Hz | 18 W | RAL 7035 | 160 m³/h | 8MR6411-6LV45 | 147 m³/h | 8MR6511-6LV45 | | |
| | | | 43 W | RAL 7035 | 250 m³/h | 8MR6411-6LV41 | 230 m³/h | 8MR6511-6LV41 | | |
| | | | 230 V AC, 50/60 Hz | 18 W | RAL 7035 | 160 m³/h | 8MR6423-6LV45 | 147 m³/h | 8MR6523-6LV45 | |
| | | | | | 45 W | RAL 7035 | 250 m³/h | 8MR6423-6LV41 | 230 m³/h | 8MR6523-6LV41 |

Filter fans and outlet filters

Outlet filters without fan

| Size | Cutout | External dimensions W x H | Mounting depth | Cover grille height | Color | Degree of protection | |
|--------------------------------|--------------|------------------------------|----------------|---------------------|----------|----------------------|---------------------|
| | | | | | | IP54 Article No. | IP55 Article No. |
| Standard outlet filters | | | | | | | |
| 1 | 92 × 92 mm | 105 × 105 mm | 12 mm | 4.5 mm | RAL 7032 | 8MR6400-2GV10 | – |
| | | | | | RAL 7035 | 8MR6400-5GV10 | – |
| 2 | 125 × 125 mm | 148 × 148 mm | 23 mm | 5.5 mm | RAL 7032 | 8MR6400-2GV25 | – |
| | | | | | RAL 7035 | 8MR6400-5GV25 | 8MR6500-5GV25 |
| 3 | 177 × 177 mm | 204 × 204 mm | 26 mm | 6 mm | RAL 7035 | 8MR6400-5GV30 | 8MR6500-5GV30 |
| 4 | 223 × 223 mm | 250 × 250 mm | 32 mm | 6 mm | RAL 7032 | 8MR6400-2GV45 | – |
| | | | | | RAL 7035 | 8MR6400-5GV45 | 8MR6500-5GV45 |
| 6 | 292 × 292 mm | 323 × 323 mm | 33 mm | 6.5 mm | RAL 7032 | 8MR6400-2GV67 | – |
| | | | | | RAL 7035 | 8MR6400-5GV67 | 8MR6500-5GV67 |
| EMC outlet filters | | | | | | | |
| 3 | 177 × 177 mm | 204 × 204 mm | 26 mm | 6 mm | RAL 7035 | 8MR6400-6GV30 | 8MR6500-6GV30 |
| 4 | 223 × 223 mm | 250 × 250 mm | 32 mm | 6 mm | RAL 7035 | 8MR6400-6GV45 | 8MR6500-6GV45 |






Filter mats for filter fans and outlet filters

| Size | Degree of protection IP54 | | Degree of protection IP55 | |
|-----------------------------|---------------------------|---------------|---------------------------|---------------|
| | Dimensions W x H | Article No. | Dimensions W x H | Article No. |
| Standard filter mats | | | | |
| 1 | 92 × 92 mm | 8MR6000-OAM10 | – | – |
| 2 | 125 × 125 mm | 8MR6000-OAM25 | 116 × 116 mm | 8MR6000-OCF25 |
| 3 | 177 × 177 mm | 8MR6000-OAM30 | 169 × 169 mm | 8MR6000-OCF30 |
| 4 | 223 × 223 mm | 8MR6000-OAM45 | 215 × 215 mm | 8MR6000-OCF45 |
| 6 | 292 × 292 mm | 8MR6000-OAM67 | 281 × 281 mm | 8MR6000-OCF67 |






Roof filter fans and roof outlet filters

Roof filter fans



| | Air current, free-blowing at 50 Hz | External dimensions W x H x D | Voltage | Input rating | Degree of protection IP44 Article No. | Degree of protection IP54 Article No. | |
|---|---|---|--------------------|--------------------|--|--|---|
|  | For cutout 223 x 223 mm, color RAL 7035 | | | | | | |
| | 71 m³/h | 287 x 287 x 104 mm | 230 V AC, 50/60 Hz | 40 W | – | 8MR6423-5VL44 | |
| | | | 115 V AC, 50/60 Hz | 48 W | – | 8MR6411-5VL44 | |
| | | | 24 V DC | 8.8 W | – | 8MR6402-5VL44 | |
| | 240 m³/h | 287 x 287 x 174 mm | 230 V AC, 50/60 Hz | 45 W | – | 8MR6423-5VL41 | |
| | | | 115 V AC, 50/60 Hz | 43 W | – | 8MR6411-5VL41 | |
| | | | 24 V DC | 16 W | – | 8MR6402-5VL41 | |
| | 300 m³/h | 287 x 287 x 174 mm | 230 V AC, 50/60 Hz | 45 W | – | 8MR6423-5VL55 | |
| |  | For cutout 292 x 292 mm, color RAL 7035 | | | | | |
| 232 m³/h | | 361 x 361 x 114 mm | 230 V AC, 50/60 Hz | 68 W | – | 8MR6423-5VL64 | |
| | | | 115 V AC, 50/60 Hz | 68 W | – | 8MR6411-5VL64 | |
| | | | 24 V DC | 14 W | – | 8MR6402-5VL64 | |
| 550 m³/h | | 361 x 361 x 211 mm | 230 V AC, 50/60 Hz | 64 W | – | 8MR6423-5VL60 | |
| | | | 115 V AC, 50/60 Hz | 64 W | – | 8MR6411-5VL60 | |
| | | | 24 V DC | 55 W | – | 8MR6402-5VL60 | |
| 840 m³/h | | 361 x 361 x 203 mm | 230 V AC, 50/60 Hz | 135 W | – | 8MR6423-5VL80 | |
| | | | 115 V AC, 50/60 Hz | 115 W | – | 8MR6411-5VL80 | |
| | | | 24 V DC | 105 W | – | 8MR6402-5VL80 | |
|  | | For cutout 345 x 265 mm, color RAL 7035, metal | | | | | |
| | | 405 m³/h | 420 x 340 x 108 mm | 115 V AC, 50/60 Hz | 40/45 W | 8MR6311-5DL40 | – |
| | 230 V AC, 50/60 Hz | | | 40/45 W | 8MR6323-5DL40 | – | |
| | 690 m³/h | 420 x 340 x 108 mm | 115 V AC, 50/60 Hz | 100/130 W | 8MR6311-5DL42 | – | |
| 230 V AC, 50/60 Hz | | | 100/130 W | 8MR6323-5DL42 | – | | |

Roof outlet filters without fan


| | External dimensions W x H x D | Degree of protection IP44 Article No. | Degree of protection IP54 Article No. |
|---|---|--|--|
|  | For cutout 223 x 223 mm, color RAL 7035 | | |
| | 287 x 287 x 85 mm | – | 8MR6400-5VE45 |
|  | For cutout 292 x 292 mm, color RAL 7035 | | |
| | 361 x 361 x 96 mm | – | 8MR6400-5VE67 |
|  | For cutout 345 x 265 mm, color RAL 7035, metal | | |
| | 420 x 340 x 83 mm | 8MR6000-5DE40 | – |

Air conditioners/cooling devices

For door or side mounting, degree of protection inside IP54/ outside IP34, color RAL 7035


| | Cooling capacity | Rated power | Dimensions W × H × D | Air capacity | | Design | Mounting | | Article No. |
|---|------------------------|---------------------|-------------------------|--------------|-----------|--------|-----------|---------------|---------------|
| | | | | Inside | Outside | | Undrilled | Part | |
|  | 230 V, 50/60 Hz | | | | | | | | |
| | 380 W | 280 W | 285 × 460 × 180 mm | 280 m³/h | 280 m³/h | ■ | ■ | – | 8MR6423-5EG04 |
| | 640 W | 400 W | 360 × 606 × 212 mm | 330 m³/h | 570 m³/h | ■ | ■ | – | 8MR6423-5EG06 |
| | 820 W | 440 W | 348 × 783 × 215 mm | 330 m³/h | 570 m³/h | ■ | ■ | – | 8MR6423-5EG08 |
| | 1050 W | 570 W | 348 × 783 × 215 mm | 570 m³/h | 860 m³/h | ■ | ■ | ■ | 8MR6423-5SK10 |
| | 1550 W | 880 W | 400 × 950 × 233 mm | 570 m³/h | 1050 m³/h | ■ | ■ | ■ | 8MR6423-5SK15 |
|  | 2050 W | | | | | | | | |
| | 1080 W | 400 × 1265 × 236 mm | 860 m³/h | 1050 m³/h | ■ | ■ | ■ | 8MR6423-5SK20 | |
| | 400 V, 50/60 Hz | | | | | | | | |
| | 2900 W | 1220 W | 500 × 1270 × 336 mm | 860 m³/h | 1450 m³/h | ■ | ■ | – | 8MR6440-5EG30 |
| | 3850 W | 1780 W | 500 × 1270 × 336 mm | 1450 m³/h | 1450 m³/h | ■ | ■ | – | 8MR6440-5EG40 |
| 5800 W | 2340 W | 600 × 2000 × 380 mm | 1450 m³/h | 2900 m³/h | ■ | ■ | – | 8MR6440-5EG60 | |

For roof mounting, degree of protection inside IP54/ outside IP34, color RAL 7035





| | Cooling capacity | Rated power | Dimensions W × H × D | Air capacity | | Design | Mounting | | Article No. |
|---|------------------------|-------------|-------------------------|--------------|-----------|--------|-----------|------|---------------|
| | | | | Inside | Outside | | Undrilled | Part | |
|  | 230 V, 50/60 Hz | | | | | | | | |
| | 410 W | 270 W | 259 × 264 × 486 mm | 235 m³/h | 330 m³/h | ■ | ■ | – | 8MR6423-5DE04 |
| | 820 W | 510 W | 340 × 340 × 600 mm | 330 m³/h | 570 m³/h | ■ | ■ | – | 8MR6423-5DE08 |
| | 1150 W | 550 W | 401 × 415 × 567 mm | 570 m³/h | 1010 m³/h | ■ | ■ | – | 8MR6423-5DE12 |
| | 1550 W | 810 W | 401 × 415 × 567 mm | 860 m³/h | 1820 m³/h | ■ | ■ | – | 8MR6423-5DE15 |
| | 2050 W | 1190 W | 401 × 415 × 567 mm | 1050 m³/h | 1820 m³/h | ■ | ■ | – | 8MR6423-5DE20 |
| | 400 V, 50/60 Hz | | | | | | | | |
| | 2900 W | 1210 W | 492 × 496 × 797 mm | 860 m³/h | 3410 m³/h | ■ | ■ | – | 8MR6440-5DE30 |
| | 3850 W | 1630 W | 492 × 496 × 797 mm | 1450 m³/h | 3410 m³/h | ■ | ■ | – | 8MR6440-5DE40 |

Heat exchangers

Air/air heat exchangers, degree of protection IP54, color RAL 7035




| | Thermal power | Rated power | Dimensions W × H × D | Air capacity | | Design | Mounting | | Article No. |
|---|------------------------|-------------|-------------------------|--------------|-----------|--------|-----------|------|---------------|
| | | | | Inside | Outside | | Undrilled | Part | |
|  | 230 V, 50/60 Hz | | | | | | | | |
| | 36 W/K | 140 W | 316 × 771 × 103 mm | 570 m³/h | 570 m³/h | ■ | ■ | – | 8MR6423-5ML36 |
| | 80 W/K | 240 W | 317 × 1260 × 148 mm | 1050 m³/h | 1050 m³/h | ■ | ■ | – | 8MR6423-5ML80 |

Heater units




| | Rated value | Rated power | Shutdown temperature | Article No. |
|---|---|-------------|----------------------|-------------|
|  | Heater units with PTC thermistor, UL-approved | | | |
| | 120 ... 240 V AC/DC | 15 W | – | 8MR2130-1A |
| | | 30 W | – | 8MR2130-3A |
| | | 45 W | – | 8MR2130-4A |
| | | 60 W | – | 8MR2130-6A |
| | | 75 W | – | 8MR2130-7A |
| | | 100 W | – | 8MR2130-0A |
| 150 W | | – | 8MR2130-5A | |
|  | Semiconductor heater units without thermostat, compact design, UL-approved | | | |
| | 120 ... 240 V AC/DC | 50 W | – | 8MR2131-4A |
| | | 100 W | – | 8MR2131-0A |
| 150 W | | – | 8MR2131-5A | |
|  | Semiconductor heater units with thermostat, compact design | | | |
| | 120 ... 240 V AC/DC | 50 W | 15 °C | 8MR2132-1A |
| | | | 25 °C | 8MR2132-1AB |
| | | 100 W | 15 °C | 8MR2132-0A |
| | | | 25 °C | 8MR2132-0AB |
| | | 150 W | 15 °C | 8MR2132-5A |
| 25 °C | | | 8MR2132-5AB | |
|  | Semiconductor heater units | | | |
| | 12 ... 30 V AC/DC | 15 W | – | 8MR2130-1BA |
| | | 30 W | – | 8MR2130-3BA |
| | | 45 W | – | 8MR2130-4BA |
| | | 60 W | – | 8MR2130-4BA |
| – | | | 8MR2130-6BA | |

Fan heaters

Fan heaters





| | Version | Voltage | Continuous heat output | Parameter | Article No. |
|--|-----------------------------------|----------|------------------------|--------------|-------------|
|  | Standard version | | | | |
| | Without fan | 230 V AC | 100 W | – | 8MR2140-0A |
| | | | 150 W | – | 8MR2140-1A |
| | | | 200 W | – | 8MR2140-2A |
| | | | 300 W | – | 8MR2140-3A |
| | | | 400 W | – | 8MR2140-4A |
| | With fan | 230 V AC | 100 W | – | 8MR2140-0B |
| | | | 150 W | – | 8MR2140-1B |
| | | | 200 W | – | 8MR2140-2B |
| | | | 300 W | – | 8MR2140-3B |
| 400 W | | | – | 8MR2140-4B | |
|  | Compact fan heater | | | | |
| | Without fan | 230 V AC | 250 W | – | 8MR2122-4A |
| | | | 400 W | – | 8MR2122-8A |
| | | 120 V AC | 250 W | – | 8MR2122-4B |
| | | | 400 W | – | 8MR2122-8B |
| | With fan | 24 V DC | 250 W | – | 8MR2122-4AB |
| | | | 48 V DC | 250 W | – |
| | | 400 W | 250 W | – | 8MR2122-8AA |
| 400 W | | | – | 8MR2122-8AA | |
|  | With integrated thermostat | | | | |
| | For floor mounting | 230 V AC | 950 W | 0 ... +60 °C | 8MR2150-0A |
| | With integrated hygrostat | | | | |
| | For floor mounting | 230 V AC | 950 W | 65% R.H. | 8MR2150-0BA |
| | For wall mounting | 230 V AC | 950 W | 65% R.H. | 8MR2150-0CA |

Semiconductor fan heaters

| | Fixing | Voltage | Continuous heat output | Version | Article No. |
|---|---|---|------------------------|---------------------------------|-------------|
|  | Fan heaters | | | | |
| | Clip fixing | 230 V AC | 150 W | – | 8MR2150-2C |
| | | | 250 W | – | 8MR2150-5A |
| | | | 400 W | – | 8MR2150-4A |
| | | 120 V AC | 250 W | – | 8MR2150-5AA |
| | | | 400 W | – | 8MR2150-4AA |
| | | | 400 W | – | 8MR2150-4AA |
| | Screw fixing | 230 V AC | 150 W | – | 8MR2150-2D |
| | | | 250 W | – | 8MR2150-5B |
| | | 120 V AC | 400 W | – | 8MR2150-4B |
| 250 W | | | – | 8MR2150-5AB | |
| | 400 W | – | 8MR2150-4AB | | |
|  | PTC fan heaters for wall mounting | | | | |
| | Screw fixing | 230 V AC | 1200 W | With thermostat 0 ... +60 °C | 8MR2150-3A |
| | | | 1200 W | Without thermostat | 8MR2150-3B |
| | Clip fixing | 120 V AC | 1200 W | With thermostat +32 ... +140 °F | 8MR2151-3A |
| | | | 1200 W | Without thermostat | 8MR2151-3B |
| |  | PTC fan heaters for floor mounting | | | |
| Screw fixing | | 230 V AC | 1200 W | With thermostat 0 ... +60 °C | 8MR2150-2A |
| | | | 1200 W | Without thermostat | 8MR2150-2B |
| Clip fixing | | 120 V AC | 1200 W | With thermostat +32 ... +140 °F | 8MR2151-2A |
| | 1200 W | | Without thermostat | 8MR2151-2B | |



Thermostats

Adjustable thermostats

| | Version | Max. switching power | Temperature range | Article No. |
|--|--|----------------------|-------------------|-------------|
|  | Mini thermostat | | | |
| | NC contact with red adjusting knob | 250 V AC, 10 (2) A | -10 ... +50 °C | 8MR2170-1CA |
| | | | 0 ... +60 °C | 8MR2170-2BA |
| | | | +20 ... +80 °C | 8MR2170-1DA |
| | NO contact with blue adjusting knob | 250 V AC, 10 (2) A | -10 ... +50 °C | 8MR2170-1CB |
| | | | 0 ... +60 °C | 8MR2170-2BB |
| +20 ... +80 °C | | | 8MR2170-1DB | |
|  | Mechanical thermostat | | | |
| | CO contact | 250 V AC, 10 (4) A | +5 ... +60 °C | 8MR2170-1A |
| -20 ... +30 °C | | | 8MR2170-1B | |
|  | Electronic thermostat | | | |
| | CO contact | 230 V AC, 8 (1.6) A | -20 ... +60 °C | 8MR2170-1GA |
| | | 120 V AC, 8 (1.6) A | -4 ... +140 °F | 8MR2170-1GB |
| | | 24 V DC, 16 A | 0 ... +60 °C | 8MR2170-2A |
| CO contact, integrated | 230 V AC, 8 (1.6) A | -20 ... +60 °C | 8MR2170-1GC | |
|  | Twin thermostat | | | |
| | NC contact and NO contact | 250 V AC, 10 (2) A | 0 ... +60 °C | 8MR2170-1E |
| | NO contact and NO contact | 250 V AC, 10 (2) A | 0 ... +60 °C | 8MR2170-1EA |



Thermostats

Tamper-proof thermostats


| | Version | Max. switching power | Shutdown temperature | Article No. |
|---|--------------------------------|--------------------------------|---|-------------|
|  | Tamper-proof thermostat | | | |
| | NC contact | 250 V AC, 5 (1.6) A | 15 °C | 8MR2171-1BA |
| | | | 25 °C | 8MR2171-2BA |
| | NO contact | 250 V AC, 5 (1.6) A | 35 °C | 8MR2171-3BB |
| | | | 50 °C | 8MR2171-1BB |
| | | | 60 °C | 8MR2171-2BB |
|  | Twin thermostat | | | |
| | NC contact and NO contact | 250 V AC, 5 (1.6) A | 15 °C 50 °C (NC contact NO contact) | 8MR2172-1A |
| | | | 25 °C 60 °C (NC contact NO contact) | 8MR2172-2A |
| | NO contact and NO contact | 250 V AC, 5 (1.6) A or 30 W DC | 25 °C 60 °C (NC contact NO contact) | 8MR2172-2A |
| 50 °C 60 °C (NO contact NO contact) | | | 8MR2172-1AB | |

Hygrostats, hygrotherms, switching modules


Hygrostats

| | Version | Relative air humidity | Voltage | Max. switching power | Article No. |
|---|-----------------------------|-----------------------|----------|-------------------------------|-------------|
|  | Mechanical hygrostat | | | | |
| | CO contact | 35 ... 95% | 230 V AC | 250 V AC, 5 (0.2) A / 20 W DC | 8MR2170-1C |
|  | Electronic hygrostat | | | | |
| | CO contact | 40 ... 90% | 230 V AC | 240 V AC, 8 (1.6) A | 8MR2170-1AF |
| | | | 120 V AC | 240 V AC, 8 (1.6) A | 8MR2170-2AF |
| | 65% | | 230 V AC | 240 V AC | 8MR2170-1BF |
| | | | 120 V AC | 120 V AC | 8MR2170-2BF |

Hygrotherms

| | Version | Relative air humidity | Temperature range | Voltage | Max. switching power | Article No. |
|--|------------------------------|-----------------------|-------------------|------------------|--|-------------|
|  | Electronic hygrotherm | | | | | |
| | NC contact and NO contact | 50 ... 90% | +32 ... +140 °F | 100 ... 240 V AC | NC contact: 120 V AC, 6 (1) A NO contact: 120 V AC, 8 (1.6) A | 8MR2170-4F |
| | | | 0 ... +60 °C | 100 ... 240 V AC | NC contact: 100 ... 240 V AC, 6 (1) A NO contact: 100 ... 240 V AC, 8 (1.6) A | 8MR2170-4E |

Switching modules

| | Purpose | Switching capacity | Article No. |
|---|---|--------------------|-------------|
|  | For switching high-power DC devices from thermostats, hygrostats or hygrotherms | 24 V DC, 16 A | 8MR2180-1A |
| | | 48 V DC, 16 A | 8MR2180-1B |



Appendix



| | |
|---------------------------------|------|
| Link directory | A/2 |
| Conditions of sale and delivery | A/8 |
| Article number index | A/10 |
| Index | A/16 |
| Notes | A/20 |

Link directory

Catalog LV 10

General information

| | |
|--|--|
| Information on low-voltage power distribution and electrical installation technology | www.siemens.com/lowvoltage |
| Tender specifications | www.siemens.com/lowvoltage/tenderspecifications |
| Conversion tool | www.siemens.com/conversion-tool |
| Image database | www.siemens.com/lowvoltage/picturedb |
| CAX download manager | www.siemens.com/lowvoltage/cax |
| Newsletter system | www.siemens.com/lowvoltage/newsletter |
| Siemens YouTube channel | www.youtube.com/Siemens |
| Brochures / catalogs | www.siemens.com/lowvoltage/catalogs |
| Operating instructions / manuals | www.siemens.com/lowvoltage/manuals |
| Siemens Industry Online Support | www.siemens.com/lowvoltage/product-support |
| Siemens Industry Online Support app | www.siemens.com/support-app |
| My Documentation Manager (MDM) | www.siemens.com/lowvoltage/mdm |
| Configurators | www.siemens.com/lowvoltage/configurators |
| Siemens Industry Mall – product catalog and online ordering system | www.siemens.com/industrymall |
| Direct forwarding to the Industry Mall | www.siemens.com/product?Article No. |
| Training | www.siemens.com/sitrain-lowvoltage |
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| Energy Suite | www.siemens.com/energysuite |
| SITOP power supplies | www.siemens.com/sitop |
| Power distribution with Totally Integrated Power | www.siemens.com/tip |

Information + ordering

Technical overviews

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| Air circuit breakers | www.siemens.com/lowvoltage/product-support (109766020) |
| Molded case circuit breakers | www.siemens.com/lowvoltage/product-support (109767421) |
| Miniature circuit breakers | www.siemens.com/lowvoltage/product-support (109769082) |
| Residual current protective devices / arc fault detection devices | www.siemens.com/lowvoltage/product-support (109769082) |
| Switching devices | www.siemens.com/lowvoltage/product-support (109769083) |
| Overvoltage protection devices | www.siemens.com/lowvoltage/product-support (109769084) |
| Fuse systems | www.siemens.com/lowvoltage/product-support (109769085) |
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| Transfer switching equipment and load transfer switches | www.siemens.com/lowvoltage/product-support (109764946) |
| Measuring devices, power monitoring and digitalization solutions | www.siemens.com/lowvoltage/product-support (109764480) |
| Monitoring devices | www.siemens.com/lowvoltage/product-support (109769086) |
| Transformers, power supply units and socket outlets | www.siemens.com/lowvoltage/product-support (109764946) |
| Busbar systems | www.siemens.com/lowvoltage/product-support (109769087) |
| Terminal blocks | www.siemens.com/lowvoltage/product-support (109769088) |
| Power distribution boards, motor control center s and distribution boards | www.siemens.com/lowvoltage/product-support (109769089) |
| Busbar trunking systems | www.siemens.com/lowvoltage/product-support (109769090) |
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All the important things at a glance

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| Air circuit breakers | www.siemens.com/3WL |
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| Residual current protective devices / arc fault detection devices | www.siemens.com/protection-concept |
| Switching devices | www.siemens.com/rccb |
| Overvoltage protection devices | www.siemens.com/switching-devices |
| Fuse systems | www.siemens.com/overvoltage-protection |
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| Transfer switching equipment and load transfer switches | www.siemens.com/switching-devices |
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| Terminal blocks | www.siemens.com/distribution-components |
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| Technology primer – Miniature circuit breakers | www.siemens.com/lowvoltage/product-support (109482304) |
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| Residual current protective devices / arc fault detection devices | sie.ag/2m55Y7j |
| Switching devices | sie.ag/2m4eG5M |
| Overvoltage protection devices | sie.ag/2kTfytV |
| Fuse systems | sie.ag/2kW3pnU |
| Switching devices | sie.ag/2mryctm |
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| Digitalization solutions | sie.ag/2olliNi |
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| SIVACON S4 power distribution boards | sie.ag/2JUQwE4 |
| ALPHA distribution boards | sie.ag/2kURLd8 |
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| SIVACON 8PS | sie.ag/2lXpCT1 |
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| Equipment manual – 3KC ATC6300 Transfer control device | www.siemens.com/lowvoltage/manuals (109755149) |

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| Planning manual – SIVACON S8 – Technical planning information | www.siemens.com/lowvoltage/manuals (107113936) |
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| System manual – 3WL / 3VL circuit breakers with communication capability – PROFIBUS | www.siemens.com/lowvoltage/manuals (12560390) |
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| System manual – SENTRON 3NP1 fuse switch disconnecter | www.siemens.com/lowvoltage/manuals (33515690) |
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| Video tutorial on the 3WL air circuit breaker | www.lowvoltage.siemens.com/wcms/3wl-tutorial |
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LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

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Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the Internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <https://www.siemens.com/industrialsecurity>

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <https://www.siemens.com/industrialsecurity>