SIEMENS

Systems and solutions for a reliable and economic power distribution

Infrastructure & Cities Sector
Low and Medium Voltage Systems & Solutions

Comprehensive portfolio of LV and MV systems and solutions

SIEMENS

Medium Voltage & Systems*)

Low and Medium Voltage systems


LV distribution board


Busbar trunking system


MV secondary switchgear (incl. core parts)


AIS


GIS


MV generator switchgear

MV primary switchgear


MV outdoor switchgear

Power supply / power distribution solutions


E-House

Substation


Power Supply Solution


Energy Balance of Plant and Grit Connections for RES


Grid coupling SIPLINK, SIHARBOR


Energy Storage SIESTORAGE

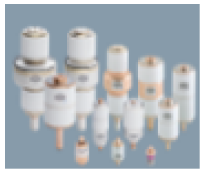
Low Voltage & Products**)

Products and components


ACBs 3WL


MCCBs 3VL

MCBs


Vacuum interrupters


LBS and fuses


Switches and socket outlets


Vacuum contactor


MV vacuum circuit beaker

*) IC LMV MS
**) IC LMV LP

Gas-insulated medium-voltage switchgear (IEC)

Primary distribution

8DA/B
up to 40.5 kV, up to40 kA,
up to 5000 A

NXPLUS
up to 40.5 kV, up to 31.5 kA,
up to 2500 A

NXPLUS C
up to 24 kV, up to 31.5 kA,
up to 2500 A

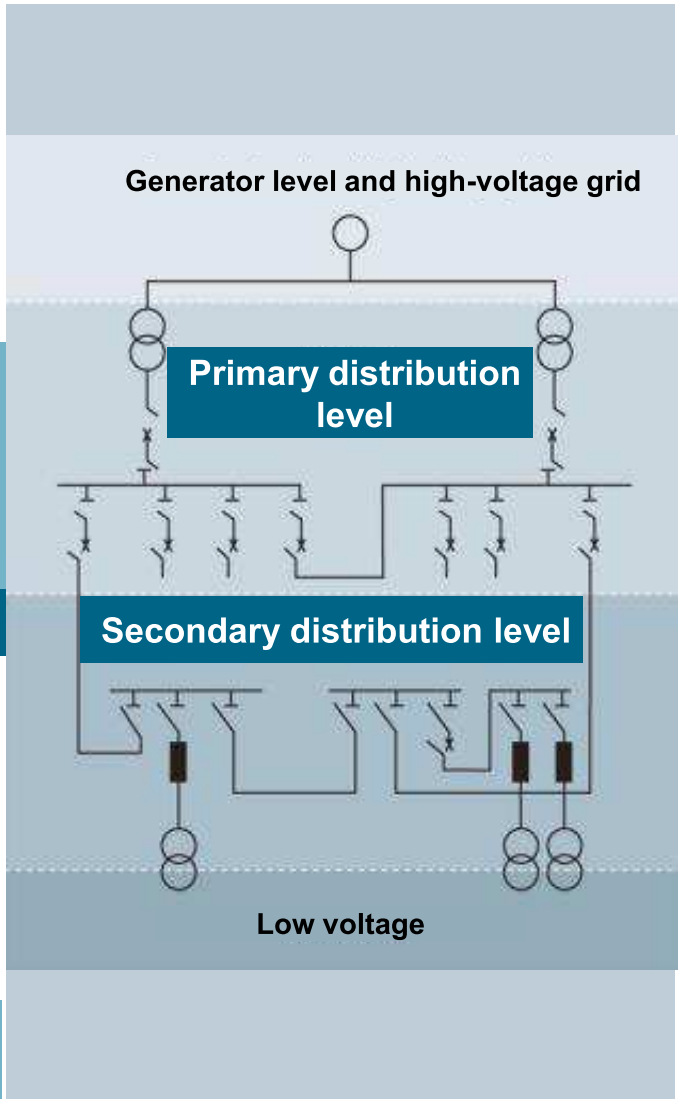
NXPLUS C Wind
up to 36 kV, up to 25 kA
up to 1000 A

Secondary distribution

SIMOSEC*
up to 24 kV, up to 25 kA,
up to 1250 A
*Air-insulated switchgear with gas-insulated switching devices

8DJH Compact
8DJH
up to 24 kV, up to 25 kA,
up to 630 A

8DJH 36
up to36 kV, up to 20 kA,
up to 630 A



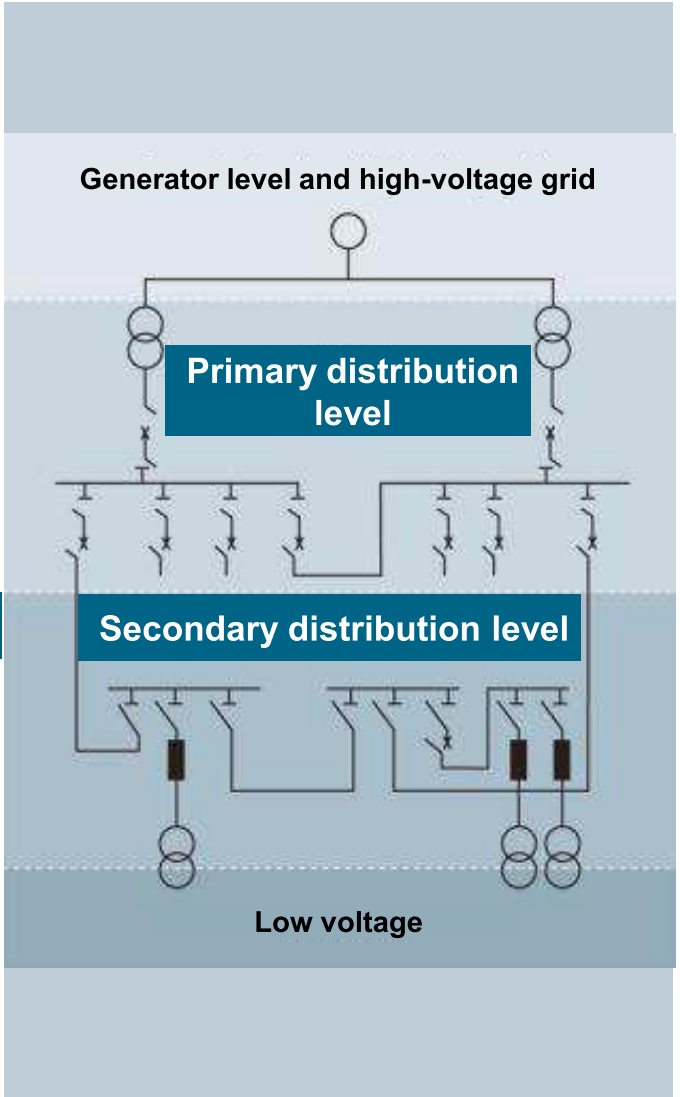
Gas-insulated medium-voltage switchgear (ANSI)

Primary distribution

8DA/B ANSI version
up to 40.5 kV, up to 40 kA, up to 5000 A

Secondary distribution

SIMOSEC ANSI version
up to 24 kV, up to 25 kA, up to 1200 A



SIVACON S8 low-voltage switchboard

SIVACON S8

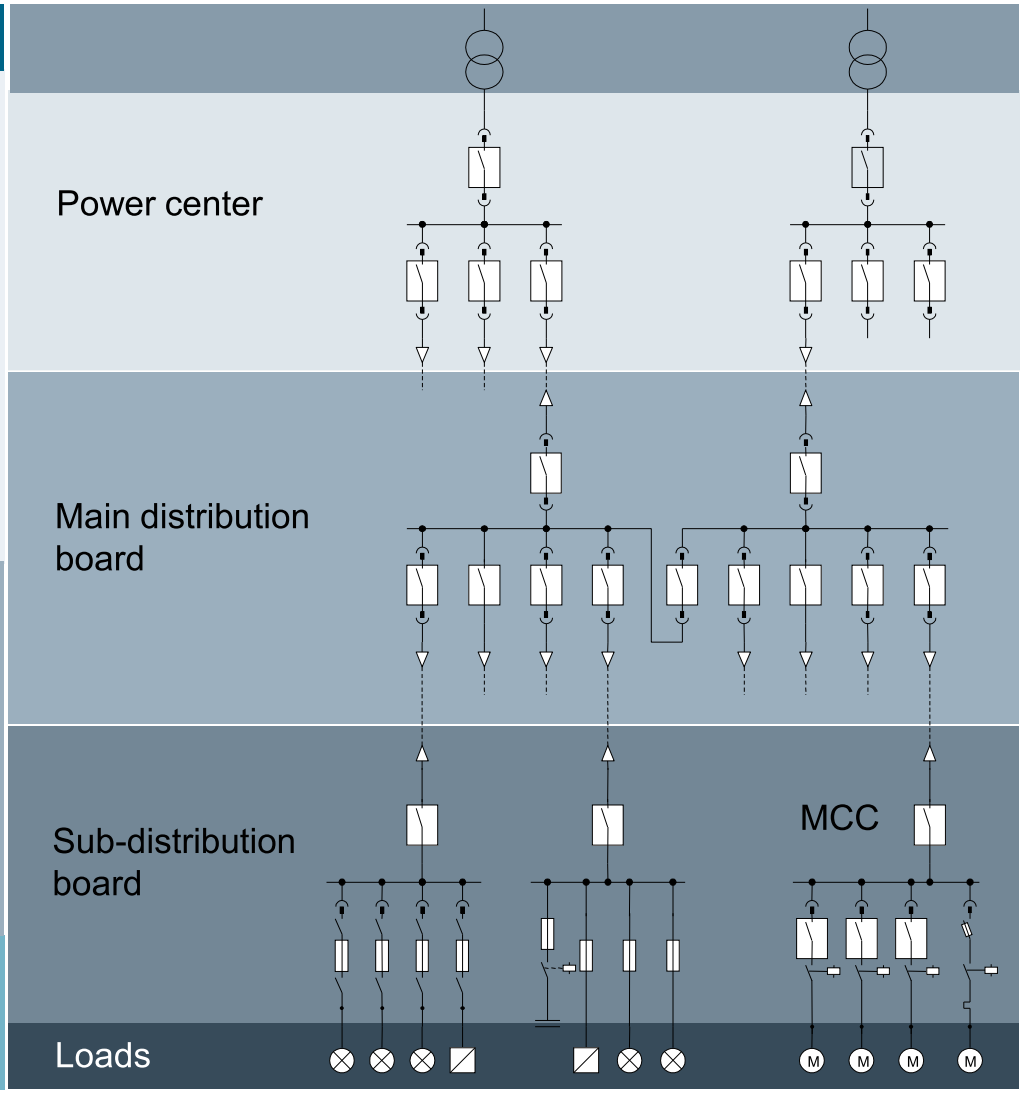
Horizontal main busbar
- I_n up to 7000 A
- I_{cw} up to 150 kA / 1 s

Circuit breaker design up to 6300 A

Feeder up to 630 A in
- Fixed-mounted design, Plug-in design
- Withdrawable unit design

Design verification by verification test in acc. to IEC 61439-2

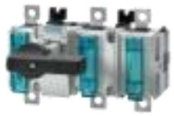
Typical applications:
Power Distribution Board or Motor Control Center (MCC) for industrial applications or in the infrastructure



Low Voltage Switchboard SIVACON S8

3KL switch disconnectors with KMLV HRC fuses

3KA / 3KE switch disconnectors

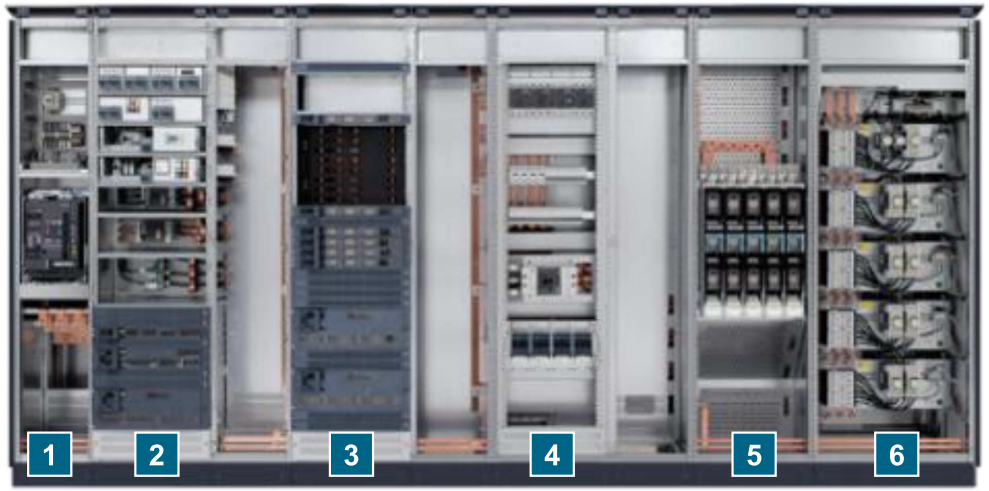


3NJ62 switch disconnectors with LV HRC fuses

3VL molded-case circuit breakers

3LD main and EMERGENCY-STOP switches

Measuring devices 7KM PAC



3NJ4 switch disconnectors with LV HRC fuses, in-line

Air circuit breakers 3WL

3NP1 switch disconnectors with LV HRC fuses

1 Circuit breaker system – compact and safe

2 Universal installation system – can be individually combined

3 3NJ6 in-line system – compact and highly functional

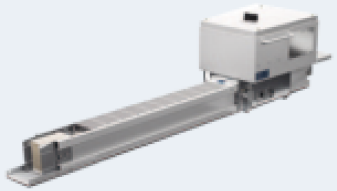
4 Fixed-mounted system – cost-effective construction

5 3NJ4 in-line system – flexible implementation

6 Reactive power compensation – reduce energy costs efficiently

SIVACON low-voltage busbar trunking systems

LD System

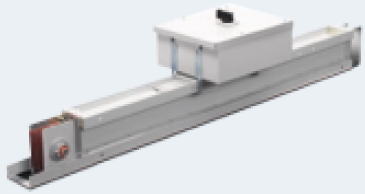


1,100 A to 5000 A

1.000 V U_e max.

Power distribution and transportation in exhibition halls, in the automotive industry, heavy industry and on ships

LX system

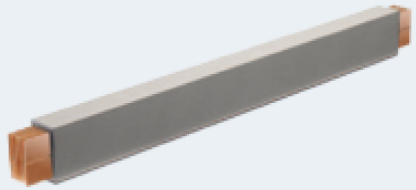


800 A to 6300 A

690 V U_e max.

Power distribution and transportation of high currents in large buildings, broadcasting stations, data centers as well as in chip and semiconductor production applications

LR system

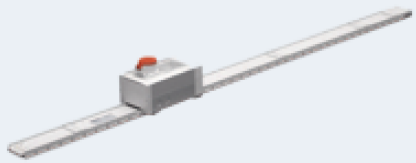


400 A to 6150 A

1.000 V U_e max.

Transportation of large power volumes in harsh ambient conditions, for the supply of tunnels or networking of building sections, and for power transportation in the chemical industry

BD01 system

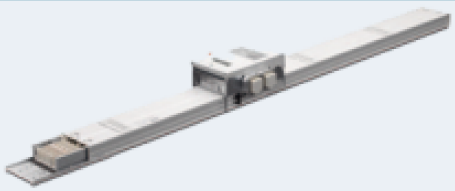


40 A to 160 A

400 V U_e max.

Power supply for small consumers in workshops and lighting systems

BD2 system



160 A to 1250 A

690 V U_e max.

Power transportation and distribution in office buildings and transfer lines in all industrial application areas

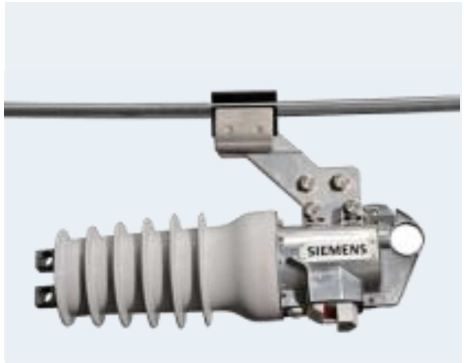
Medium-voltage outdoor switchgear

Recloser 3AD
Vacuum recloser for network automation

3AF01/3AF03/3AG01
“Live-tank” circuit-breaker for distribution

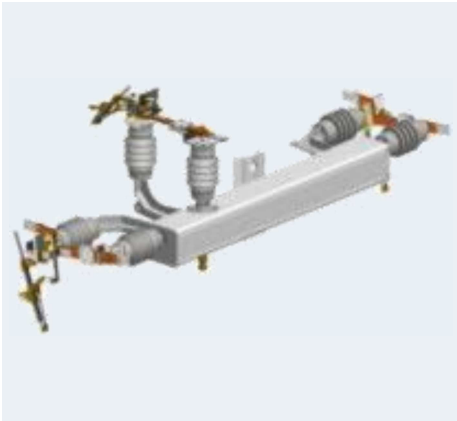
3AF04/05
“Live-tank” circuit-breaker for railway applications

SDV6/7
“Dead-tank” circuit-breaker for distribution



Fusesaver
1-phase circuit-breaker for fuse saving during transient faults

Series SE/SER/EF/EH
Manual 1-phase switches



Topper series
Manual 3-phase switches

Vector series
Motorized 3-phase switches

We supply completely integrated power supply solutions

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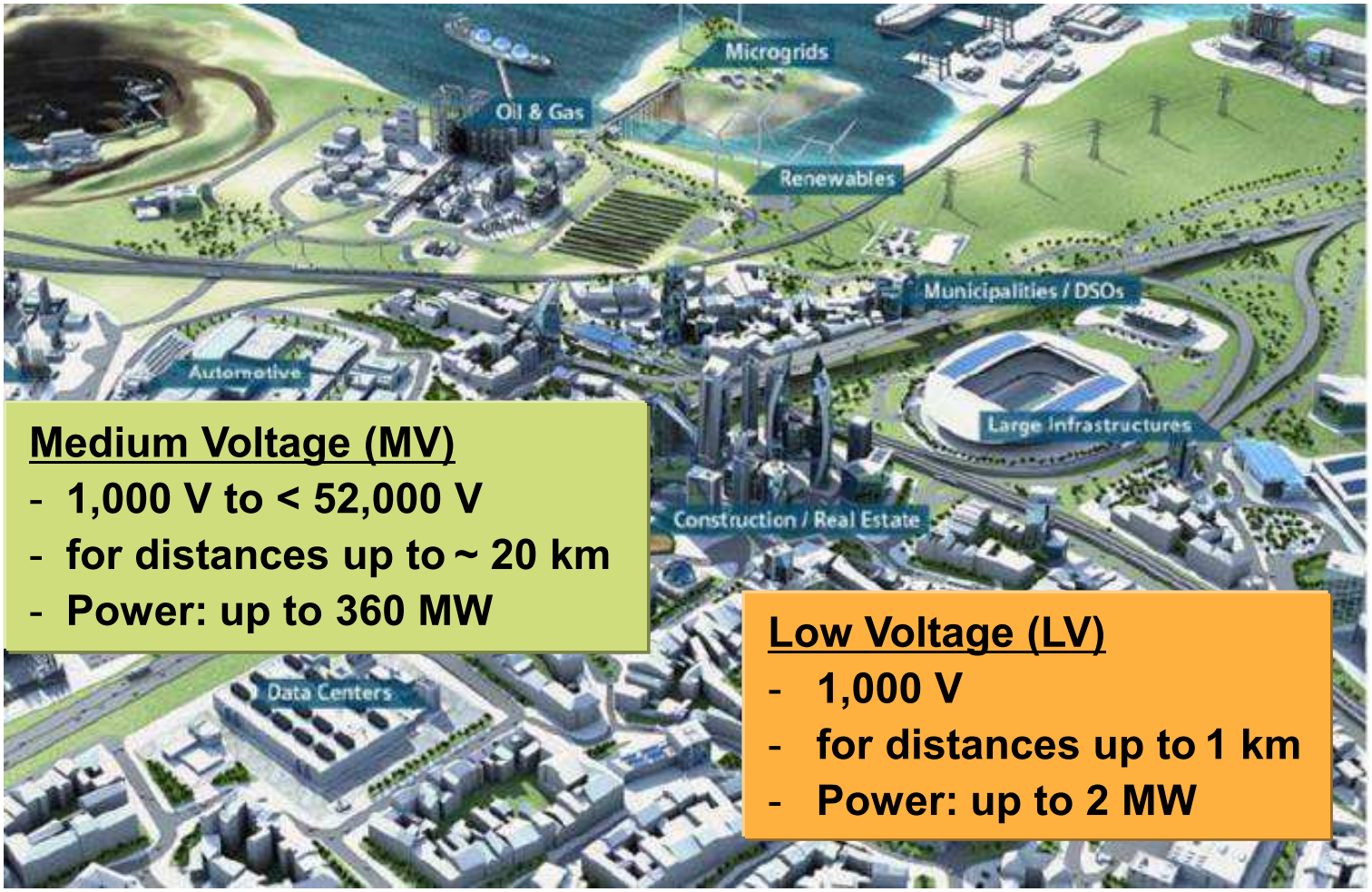

Medium Voltage (MV)
- 1,000 V to < 52,000 V
- for distances up to ~ 20 km
- Power: up to 360 MW

Low Voltage (LV)
- 1,000 V
- for distances up to 1 km
- Power: up to 2 MW

- Engineering and network design up to commissioning
- Power infeed from public grid or power plants and industrial grids
- Power distribution to all power consuming areas of the industrial site
- Electrical equipment, e.g. HV, MV and LV switchgear, transformers, cabling, SCADA system, MCC incl. switching devices

Prinzipieller Aufbau eines Energieversorgungsnetzes