

SIEMENS



Totally Integrated Power

Switchgear Type SIMOSEC, up to 24 kV, Air-Insulated, Extendable



When it comes to medium-voltage power distribution, Siemens has developed a broad realm of products and solutions, based on experience, innovation, and reliability.

The factory-assembled, type-tested, and metal-enclosed SIMOSEC switchgear impresses with its modular design, its unique vessel technology for circuit-breakers and three-position switches, and its well thought-out concept. In an extraordinarily compact design, switch-disconnectors and circuit-breakers are located in a shared gas-insulated and sealed stainless steel vessel. That enables compact installation, saves transportation and installation costs, and permits optimum use of available space. Compartmentalization of SIMOSEC switchgear with metal partitions ensures excellent reliability, personal safety, and service continuity.

The modular design of the SIMOSEC switchgear means that individual panels can be combined freely. For example, a secondary distribution system can be designed exactly to meet individual requirements and wishes. Moreover, the



SIMOSEC switchgear can be expanded practically without limitation, allowing it to grow at any time with the increasing requirements on the power supply systems and switchgear.

A thoroughly convincing switchgear concept, low life cycle costs, and proven Siemens quality are what make SIMOSEC switchgear the prime choice for use in customer transfer substations, distribution substations and switching substations of utilities and public utilities, public buildings and industrial plants.

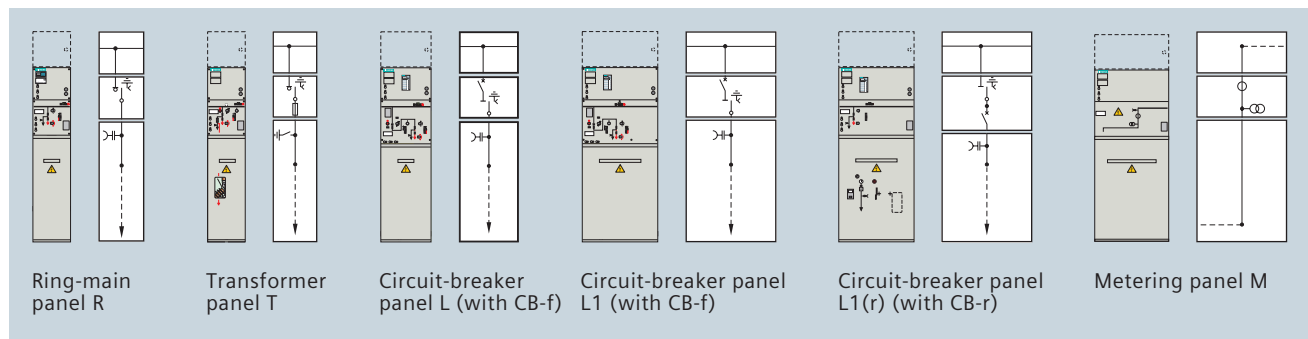
Your advantages

- Independent of environment and climate
- Maintenance-free
- Compact
- Safe for operators
- Cost-efficient
- Ecological
- Reliable and safe operation

siemens.com/medium-voltage-switchgear

SIMOSEC, Medium-Voltage Switchgear

Product range (The following selection is not complete)



Technical data of SIMOSEC

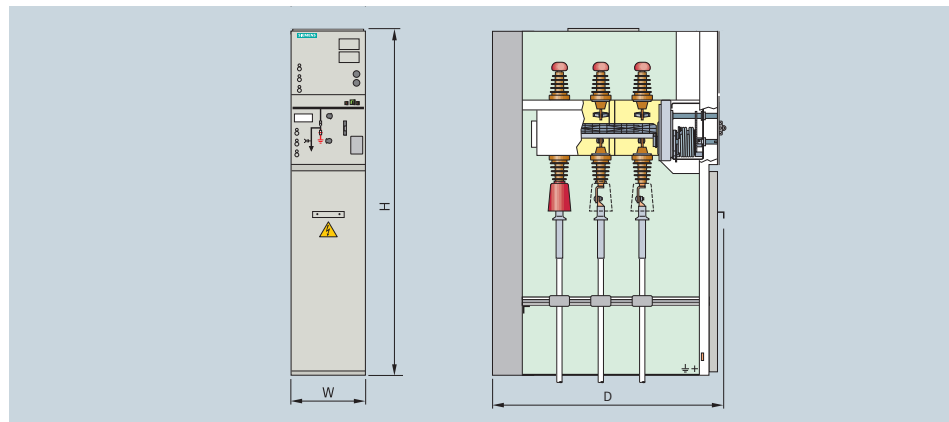
Rated			7.2 kV	12 kV	17.5 kV	24 kV
Voltage	up to		7.2 kV	12 kV	17.5 kV	24 kV
Frequency	Hz		50/60	50/60	50/60	50/60
Short-duration power-frequency withstand voltage	kV		20	28*	38	50
Lightning impulse withstand voltage	kV		60	75	95	125
Short-circuit breaking current	max. kA		25	25	25	25
Short-time withstand current, 1 s	max. kA		25	25	25	25
Short-time withstand current, 3 s	max. kA		–	21	21	20
Short-circuit making current	max. kA		25	25	25	20
Peak withstand current	max. kA		63	63	63	50
Normal current for busbar	A		630 or 1,250			
Normal current for feeders	max. A		1,250	1,250	1,250	1,250

* 42 kV/75 kV, according to some national requirements

Performance features

- Type-tested according to IEC 62271-200
- Phases for busbar and cable connection are arranged one behind the other
- 3-pole, gas-insulated switchgear vessel with three-position disconnecter, circuit-breaker and earthing switch as a sealed pressure system with SF₆ filling for the entire service life
- Air-insulated busbar system
- Air-insulated cable connection system, for conventional cable sealing ends
- Metal-enclosed, partition class PM
- Loss of service continuity category for switchgear: LSC 2
- Internal arc classification for:
 - Wall-standing arrangement: IAC A FL 21 kA, 1 s
 - Free-standing arrangement: IAC A FLR 21 kA, 1 s
- Can be mounted side-by-side and extended as desired

Dimensions of SIMOSEC



Dimensions			Dimensions in mm
Width (spacing)	W	Ring-main feeders, transformer feeders	375 or 500
		Circuit-breaker feeders, bus sectionalizer	500 or 750, 875 or 1,125
		Metering panels	500, 750
Height	H	Panels without low-voltage compartment	1,760
Depth	D	Standard	1,170 and 1,230

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Subject to change without prior notice

Siemens AG
Energy Management
Medium Voltage & Systems
Postfach 3240
91050 Erlangen, Germany
www.siemens.com/simosec

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Read the QR code to see further typicals of this switchgear!

