

SIMOPRIME up to 17.5KV Reliable Medium-Voltage Switchgear For Fail-Safe Operation



Factory assembled, type tested AIS switchgear according to IEC 62271 200

Metallic, earthed shutters and partitions, partition class: PM (metallic partition)

Highest loss of service continuity of the switchgear

(LSC2B according to IEC 62271 200) during maintenance

Internal arc tested design according to IEC 62271 200, 17.5 kV up to 40 kA, 1 s

Use of maintenance free vacuum circuit breakers and vacuum contactors

Flexibility due to two types of withdrawable unit design

- Withdrawable (Cassette) Type
- Truck type

Technology
Partner
SIMOPRIME

SIEMENS



SIMOPRIME 17.5 kv Basic Features

SIMOPRIME switchgear up to 17.5kv	kV	7.2	12	17.5
Rated frequency	Hz	50/60	50/60	50/60
Rated short-duration power-frequency withstand voltage	kV	20 ¹⁾	28 ¹⁾	38
Rated lightning impulse withstand voltage	kV	60	75 ²⁾	95
Rated short-time withstand current in 3 s	kA	40	40	40
Rated peak withstand current at 50/60 Hz	kA	100/104	100/104	100/104
Rated short-circuit breaking current	kA	40	40	40
Rated short-circuit making current at 50/60 Hz	kA	100/104	100/104	100/104
Rated normal current of busbar	A	4,000 ³⁾	4,000 ³⁾	4,000 ³⁾
Rated normal current of feeders				
• with circuit breaker	A	4,000 ³⁾	4,000 ³⁾	4,000 ³⁾
• with vacuum contactor		as per fuse	as per fuse	—

Classification according to IEC 62271 200

Internal arc classification AFLR up tp 40KA, 0.1S/1S
Available in both rear access and front access
Interlocking between high-voltage door and circuit breaker truck ensures interlock based access

Suitable for connection of

- Single-core XLPE cables up to max. 6 x 500 mm2 per phase
- Three-core XLPE cables up to max. 3 x 300 mm2 per panel
- Bars made of flat copper with bushings



SIMOPRIME switchgear	up to 31.5 kA	up to 40 kA
Width in mm		
Circuit breaker panel		
< 1250 A	600	800
1250 A, 1800A, 2200 A, 3000 A, 4000 A	800	800
Contactor panel	435 / 600	435
Disconnecting panel		
< 1250 A	600	800
1250 A, 1800A, 2200 A, 3000 A, 4000 A	800	800
Bus sectionalizer / circuitbreaker panel		
< 1250 A	600	800
1250 A, 1800A, 2200 A, 3000 A, 4000 A	800	800
Bus sectionalizer / bus riser panel		
1250 A, 1800A, 2200 A, 3000 A, 4000 A	600	800
Metering panel	600	800
Height in mm		
H1 With standard low-voltage compartment and IAC 0.1 s	2,253	2,253
H2 With standard low-voltage compartment and IAC 1.0 s	2,425	2,460
H3	1,780	1,780
Depth in mm		
D Standard	1,860	1,860



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