

SIEMENS

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Medium-voltage, air-insulated switchgear

Type GM-SG, 5 kV, 7.2 kV and 15 kV up to 63 kA drawout metal-clad



- Closed door racking
 - Floor rollout circuit breaker in lower cell without a dolly
 - Visible secondary disconnect
 - Circuit breaker ships inside of cell, thus reducing installation cost and transit damage
 - Pair with Siemens protective relays to match any typical application
 - Horizontal drawout type GMSG vacuum circuit breaker with type 3AH3 operating mechanism
 - Uses the latest developments in vacuum interrupter technology
 - Highly reliable vacuum interrupters - MTTF over 57,000 years
 - Common type 3AH3 operator platform for all ratings
 - Over 60,000 type 3AH3 operators produced since 1998
 - Generator circuit breakers (to IEEE C37.013 optionally available)
 - 10,000 operations to overhaul
 - Three-cycle interrupting time (optional)
 - Meets or exceeds the latest ANSI, IEEE and NEMA standards
 - UL or C-UL Listing available.
- One-high or two-high construction
 - Up to 100 full-fault interruptions
 - Universal spare circuit breaker for 50 kA and lower ratings
 - Universal spare circuit breaker for 63 kA ratings
 - Interlocks permit insertion of higher rated vacuum circuit breaker into lower rated cell but not vice versa
 - Front accessible circuit breaker operating mechanism for ease of maintenance

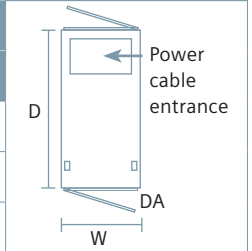
Answers for infrastructure.

Type GMSG circuit breaker ratings constant kA basis - ANSI/IEEE C37.06-2009

Historic "MVA" class	Maximum design voltage kV	Rated interrupting rating kA	Maximum interrupting and short-time kA	Voltage range factor	Continuous current ¹	Insulation levels dielectric		Close and latch (kA)	
						60 Hz	BIL	rms 1.55 KI	Peak 2.6 KI
----	4.76	40	40	1.0	1,200, 2,000, 3,000	19	60	62	104
----	4.76	50	50	1.0	1,200, 2,000, 3,000	19	60	78	130
----	4.76	63	63	1.0	1,200, 2,000, 3,000	19	60	98	164
----	8.25	40	40	1.0	1,200, 2,000, 3,000	36	95	62	104
----	15.0	25	25	1.0	1,200, 2,000	36	95	39	65
----	15.0	40	40	1.0	1,200, 2,000, 3,000	36	95	62	104
----	15.0	50	50	1.0	1,200, 2,000, 3,000	36	95	78	130
----	15.0	63	63	1.0	1,200, 2,000, 3,000	36	95	98	164

Dimensions in inches (mm)

Type	Height (H)	Width (W)	Depth (D) ³	Drawout aisle (DA)
Indoor GM-SG	95.3 (2,419)	36.0 (914)	98.7 (2,507) ⁴	72.0 (1,829) recommended ⁶
Shelter-Clad single-aisle SGM-SG	114.8 (2,915)	36.0 (914) ²	173.4 (4,404) ⁵	72.0 (1,829) included
Aisleless non-walk-in OGM-SG	113.6 (2,886)	36.0 (914) ²	101.9 (2,588) ⁵	72.0 (1,829) recommended ⁶



Footnotes:

- ¹ 4,000 A fan-cooled rating available using a 3,000 A circuit breaker together with a modified switchgear structure incorporating fan-cooling equipment.
- ² Add 6" (152 mm) to each end of lineup for aisle extension 12" (304 mm) total.
- ³ Dimensions are approximate size of floor footprint. For outdoor equipment, enclosure overhangs floor frame. Refer to Footnote 6.
- ⁴ If indoor switchgear is installed on a raised housekeeping pad, the pad must not extend further than 3" (75 mm) from the front of the switchgear to avoid interference with the use of the portable lift truck.
- ⁵ Add for roof and enclosure overhang:
Rear (cable side):
 - Non-walk-in: 3.6" (92 mm)
 - Shelter-Clad 3.6" (92 mm)
 Front (drawout side):
 - Non-walk-in 3.7" (94 mm)
 - Shelter-Clad 1.7 (43 mm).
- ⁶ 72.0" (1,829 mm) aisle space recommended and allows room for interchange of circuit breakers. Minimum aisle space required for handling circuit breakers with lift truck is 65" (1,651 mm). Minimum aisle space required if all circuit breakers are at floor level is 55" (1,397 mm).

Type GM-SG switchgear available as:

- Indoor (type GM-SG)
- Outdoor non-walk-in (type OGM-SG)
- Outdoor walk-in Shelter-Clad NEMA 3R (type SGM-SG)
 - Single-aisle
 - Factory insulated and assembled aisle (optional).

The information provided in this document contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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