

Type GMI Circuit Breaker Ratings

Identification			Rated Values								Rated Required Capabilities				
Circuit Breaker Type	Nominal Voltage Class	Nominal 3-Ph MVA Class	Voltage		Insulation Level		Current				Current Values				
			Rated Max. Voltage Age (2)	Rated Voltage Range Factor (3)	Rated Withstand Test Voltage		Rated Cont. Current	Rated Short Circuit Current (at rated Max. KV) (5) (6)	Rated Interrupting Time	Rated Permissible Tripping Delay	Rated Max. Voltage Divided by K	Max. Sym. Interrupting Capability (7)	3-Sec. Short Time Current Capability	Closing and Latching Capability (Momentary) (8)	
					Low Frequency	Impulse								1.6 Times Rated Short Circuit Current (9)	2.7 Times Rated Short Circuit Current
E kV rms	K	kV rms	kV Crest	Amps	I kA rms	Cycles	Sec.	E/K kV rms	kA rms	kA rms	kA rms	kA Crest			
5-GMI-250 (1)	4.16	250	4.76	1.24	19	60	1200 2000	29	5	2	3.85	36	36	58 & 78 (1)	97 & 132 (1)
5-GMI-350	4.16	350	4.76	1.19	19	60	1200 2000 3000	41	5	2	4.0	49	49	78	132
7-GMI-500	7.2	500	8.25	1.25	36	95	1200 2000 3000	33	5	2	6.6	41	41	66	111
15-GMI-500 (1)	13.8	500	15	1.30	36	95	1200 2000	18	5	2	11.5	23	29	37 & 58 (1)	62 & 97 (1)
15-GMI-750	13.8	750	15	1.30	36	95	1200 2000 3000	28	5	2	11.5	36	36	58 & 78 (1)	97 & 130 (1)
15-GMI-1000 (1)	13.8	1000	15	1.30	36	95	1200 2000 3000	37	5	2	11.5	48	48	77	130

Type GMI Circuit Breakers are Siemens and Technical Data are Supplied by Siemens

- High close and latch (momentary) ratings available for special application.
- Maximum voltage for which the breaker is designed is the upper limit for operation.
- K is the ratio of the rated maximum voltage to the lower limit of the range of operating voltage in which the required symmetrical and asymmetrical interrupting capabilities vary in inverse proportion to the operating voltage.
- 3000 ampere units available with increased fan-cooled ratings of 4000 amperes.
- To obtain the required symmetrical interrupting capability of a circuit breaker at an operating voltage between 1/K times rated maximum voltage and rated maximum voltage, the following formula shall be used:

$$\text{Required Symmetrical Interrupting Capacity} = \text{Rated Short Circuit Current} \times \frac{\text{Rated Maximum Voltage}}{\text{Operating Voltage}}$$

For operating voltages below 1/K time rated maximum voltage, the required symmetrical interrupting capability of the circuit breaker shall be equal to K times rated short circuit current.

- With the limitations stated in 5.10 of ANSI C37.04-1979, all values apply for polyphase and line-to-line faults. For single phase-to-ground faults, the specific conditions stated in 5.10.2.3 of ANSI C37.04-1979 apply.
- Current values in this column are not to be exceeded even for operating voltages below 1/K times rated maximum voltage.



SMC Electrical Products, Inc.
POWER SYSTEMS OPERATION
P.O. Box 880, Barboursville, WV
Phone: (304) 736-8933 Fax: (304) 697-7702