

<i>Description</i>	<i>Page</i>
Standards	1
General Information	2
Typical Applications	3
Electrical Characteristics	4
Multi-Function Electronic Trip Units	10
Electronic Trip Unit Selection Guide	12
Breaker Ordering Information/ Catalogue Numbers/ Termination Accessories	
GE-Frame, 15 – 160 Amperes	13
GJ-Frame, 20 – 250 Amperes	17
GL-Frame, 100 – 630 Amperes	21
GN-Frame, 400 – 1250 Amperes	26
GN-Frame, 1600 Amperes	29
GR-Frame, 800 – 2500 Amperes	30
Motor Circuit Protectors	35
30 mA Ground Fault (Earth Leakage) Modules	36
Special Features and Accessories	37
Plug-in Blocks and Drawout Cassettes	40
Handle Mechanisms	41
Time Current Curves	44
Current Limiting Curves	52
Dimensions	53

Standards

Eaton Moulded Case Circuit Breakers from Eaton’s electrical business are designed to conform with the following international standards:

- Australian Standard AS 2184 and AS 3947-2 Moulded Case Circuit Breakers.
- British Standards Institution Standard BS 4752: Part 1, Switchgear and Control Gear Part 1, Circuit Breakers.
- International Electrotechnical Commission Recommendations IEC 60947.2 Circuit Breakers. **CE**
- Japanese T-Mark Standard Moulded Case Circuit Breakers.
- National Electrical Manufacturers Association Standards Publication No. AB1-1975 Moulded Case Circuit Breakers.
- South African Bureau of Standards, Standard SABS 156, Standard Specification for Moulded Case Circuit Breakers.
- Swiss Electro-Technical Association Standard SEV 947.2, Safety Regulations for Circuit Breakers.
- Union Technique de l’Electricite Standard NF C 63-120, Low Voltage Switchgear and Control Gear Circuit Breaker Requirements.
- Verband Deutscher Elektrotechnike (Association of German Electrical Engineers) Standard VDE 0660, Low Voltage Switchgear and Control Gear, Circuit Breakers.

Trademarks

Cutler-Hammer is a federally registered trademark of Eaton Corporation.

CSA is a registered trademark of Canadian Standards Association.

UL is a registered trademark of Underwriters Laboratories Inc.

ISO is the registered trademark and sole property of the International Organization for Standardization.

NEMA is the registered trademark and service mark of the National Electrical Manufacturers Association.

Global Third Party Certification

Certification marks ensure product compliance with the total standard via the third party witnessing of tests by globally recognized independent certification organizations.

KEMA is a highly recognized, independent international organization that offers certification and inspection facilities for equipment in many industries. The KEMA-KEUR mark is the highest certification an electrical product can receive from KEMA. Our IEC 60947-2 Moulded Case Circuit Breakers are KEMA tested and certified. These breakers are also listed in accordance with UL® 489, as well as CSA C22.2 No. 5-02.

KEMA and UL provide ongoing follow-up testing and inspections to ensure that Eaton Moulded Case Circuit Breakers continue to meet their exacting standards.

Note: The Eaton Series G Frames GE, GJ, GL, GN and GR, although they are UL and CSA approved, do not carry the UL and CSA labels on the breakers. For applications that require UL/CSA labels, please contact your Eaton representative.

General Information

Eaton Series G Moulded Case Circuit Breakers provide increased performance in considerably less space than standard circuit breakers or comparable fusible devices.

The “G” signifies global applications: Series G circuit breakers are marked with UL, CSA®, CE, IEC and KEMA KEUR listings. Other advantages include:

- Field-fit accessories.
- Common accessories through 630 amperes.
- Electronic trip units from 20 to 2500 amperes.
- UL-listed and IEC-rated, 30 mA ground fault/earth leakage modules.
- Built-in ground fault protection down to 20 amperes.

The GE, GJ and GL frames are new circuit breakers designed around space-saving footprints. The GN and GR use the proven Cutler-Hammer Series C® ND and RD designs but use metric threading on their line and load conductors.

Eaton Series G Circuit Breakers meet applicable UL 489 and IEC 60947-2 standards.

The Eaton Series G family includes five frame sizes in ratings from 15 to 2500 amperes. Series G offers a choice of several interrupting capacities up to 100 kA at 480 volts ac (200 kA at 240 volts ac).

Standard calibration is 40°C. For applications in high ambient temperature conditions, 50°C factory calibration is available on thermal magnetic breakers.

The Most Logically Designed Contact Assembly

The flexibility and outstanding performance characteristics of Eaton Circuit Breakers are made possible by the best contact designs in circuit breaker history. Our patented technology creates a high-speed “blow-open” action using the electromechanical forces produced by high-level fault currents.

Eaton Circuit Breakers are operated by a toggle-type mechanism that is mechanically trip-free from the handle so that the contacts cannot be held closed against short circuit currents. Tripping due to overload or short circuits is clearly indicated by the position on the handle. This remarkably fast and dependable contact action is designed to enhance safety.

Thorough In-Plant Testing

The quality, dependability and reliability of every Eaton Circuit Breaker is ensured by a thorough program of in-plant testing. Two calibration tests are conducted on every pole of every circuit breaker to verify the trip mechanism, operating mechanism, continuity and accuracy.

ISO Certification

Eaton Circuit Breakers are manufactured in ISO® certified facilities.

Current Limiting Characteristics

Eaton Series G Circuit Breakers are current limiting because of their high repulsion contact arrangement and use of state-of-the-art arc extinguishing technology.

Operating Mechanisms

Eaton Circuit Breakers have a toggle handle operating mechanism, which also serves as a switching position indicator. The indicator shows the positions of: ON, OFF and TRIPPED.

The toggle handle snaps into the TRIPPED position if the breaker is tripped by one of its overcurrent, short circuit, shunt or undervoltage releases. Before the circuit breaker can be reclosed following a trip-out, the toggle handle must be brought beyond the OFF position (RESET). The circuit breaker can then be reclosed.

As an additional switching position indicator for GE- to GR-Frame circuit breakers, there are two windows on the right and on the left of the toggle handle, in which the switching state is indicated by means of the colors red, green and white corresponding to the ON, OFF and TRIPPED positions respectively.

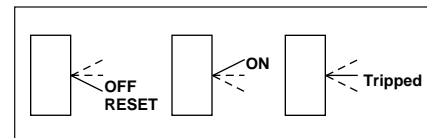


Figure 1. Positions of the Toggle Handle Drive

GE-Frame, 160 Amperes — Selection Guide and Ordering Information



GE Frame

Table 6. UL 489/IEC 60947-2 Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)													
		Volts ac (50/60 Hz)										Volts dc ①			
		120	220 – 240		277	347		380 – 415		480	600Y/347	125		250 ②③	
	I _{cu}	I _{cs}		I _{cu}	I _{cs}	I _{cu}	I _{cs}				I _{cu}	I _{cs}	I _{cu}	I _{cs}	
GEB	1 2, 3, 4	35 —	25 25	25 25	18 —	— —	— —	— —	— —	— —	— —	10 —	10 —	— 10	— 10
GEE	2, 3, 4	—	35	35	—	—	—	25	25	25	18	—	—	10	10
GES	1 2, 3, 4	100 —	85 85	43 43	35 —	22 —	— —	40 30	30 35	— 22	22	35	35	—	35
GEH	1 2, 3, 4	200 —	100 100	50 50	65 —	25 —	— —	70 35	35 65	— 25	25	42	42	—	42

- ① dc ratings apply to substantially non-inductive circuits.
 - ② 2-pole circuit breaker, or two poles of 3-pole circuit breaker.
 - ③ Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 42 kA.
- Note:** Contact Eaton for availability of E125 frame breakers in panelboards and switchboards.

Table 7. Complete Circuit Breaker ④ — Includes Frame, Trip Unit, End Caps and Metric Mounting Hardware ⑤

Maximum Continuous Ampere Rating at 40°C ⑦	1-Pole		2-Pole		3-Pole ④		4-Pole ⑥				
	Fixed Thermal	Fixed Magnetic ⑦	Fixed Thermal	Fixed Magnetic ⑦	Fixed Thermal	Fixed Magnetic ⑦	Adjustable Thermal	Thermal	Fixed Thermal	Adjustable Thermal	Thermal
							Fixed Magnetic ⑦	Range	Fixed Magnetic	Fixed Magnetic ⑦	Range
IC Rating: 25 kAIC at 240 Vac			IC Rating: 18 kAIC at 415 and 480 Vac								
15	GEB1015FFG	—	GEB2015FFG	—	GEB3015FFM	—	—	—	GEB7015FFM	—	—
16	GEB1016FFG	—	GEB2016FFG	—	GEB3016FFM	—	—	—	GEB7016FFM	—	—
20	GEB1020FFG	—	GEB2020FFG	—	GEB3020FFM	GEB3020AFM	16 – 20	—	GEB7020FFM	GEB7020AFM	16 – 20
25	GEB1025FFG	—	GEB2025FFG	—	GEB3025FFM	GEB3025AFM	20 – 25	—	GEB7025FFM	GEB7025AFM	20 – 25
30	GEB1030FFG	—	GEB2030FFG	—	GEB3030FFM	—	—	—	GEB7030FFM	—	—
32	GEB1032FFG	—	GEB2032FFG	—	GEB3032FFM	GEB3032AFM	25 – 32	—	GEB7032FFM	GEB7032AFM	25 – 32
35	GEB1035FFG	—	GEB2035FFG	—	GEB3035FFM	—	—	—	GEB7035FFM	—	—
40	GEB1040FFG	—	GEB2040FFG	—	GEB3040FFM	GEB3040AFM	32 – 40	—	GEB7040FFM	GEB7040AFM	32 – 40
45	GEB1045FFG	—	GEB2045FFG	—	GEB3045FFM	—	—	—	GEB7045FFM	—	—
50	GEB1050FFG	—	GEB2050FFG	—	GEB3050FFM	GEB3050AFM	40 – 50	—	GEB7050FFM	GEB7050AFM	40 – 50
60	GEB1060FFG	—	GEB2060FFG	—	GEB3060FFM	—	—	—	GEB7060FFM	—	—
63	GEB1063FFG	—	GEB2063FFG	—	GEB3063FFM	GEB3063AFM	50 – 63	—	GEB7063FFM	GEB7063AFM	50 – 63
70	GEB1070FFG	—	GEB2070FFG	—	GEB3070FFM	—	—	—	GEB7070FFM	—	—
80	GEB1080FFG	—	GEB2080FFG	—	GEB3080FFM	GEB3080AFM	63 – 80	—	GEB7080FFM	GEB7080AFM	63 – 80
90	GEB1090FFG	—	GEB2090FFG	—	GEB3090FFM	—	—	—	GEB7090FFM	—	—
100	GEB1100FFG	—	GEB2100FFG	—	GEB3100FFM	GEB3100AFM	80 – 100	—	GEB7100FFM	GEB7100AFM	80 – 100
125	GEB1125FFG	—	GEB2125FFG	—	GEB3125FFM	GEB3125AFM	100 – 125	—	GEB7125FFM	GEB7125AFM	100 – 125
160	—	—	—	—	GEB3160FFM	GEB3160AFM	125 – 160	—	GEB7160FFM	GEB7160AFM	125 – 160
IC Rating: 35 kAIC at 240 Vac			IC Rating: 25 kAIC at 415 and 480 Vac								
15	—	—	GEE2015FFG	—	GEE3015FFM	—	—	—	GEE7015FFM	—	—
16	—	—	GEE2016FFG	—	GEE3016FFM	—	—	—	GEE7016FFM	—	—
20	—	—	GEE2020FFG	—	GEE3020FFM	GEE3020AFM	16 – 20	—	GEE7020FFM	GEE7020AFM	16 – 20
25	—	—	GEE2025FFG	—	GEE3025FFM	GEE3025AFM	20 – 25	—	GEE7025FFM	GEE7025AFM	20 – 25
30	—	—	GEE2030FFG	—	GEE3030FFM	—	—	—	GEE7030FFM	—	—
32	—	—	GEE2032FFG	—	GEE3032FFM	GEE3032AFM	25 – 32	—	GEE7032FFM	GEE7032AFM	25 – 32
35	—	—	GEE2035FFG	—	GEE3035FFM	—	—	—	GEE7035FFM	—	—
40	—	—	GEE2040FFG	—	GEE3040FFM	GEE3040AFM	32 – 40	—	GEE7040FFM	GEE7040AFM	32 – 40
45	—	—	GEE2045FFG	—	GEE3045FFM	—	—	—	GEE7045FFM	—	—
50	—	—	GEE2050FFG	—	GEE3050FFM	GEE3050AFM	40 – 50	—	GEE7050FFM	GEE7050AFM	40 – 50
60	—	—	GEE2060FFG	—	GEE3060FFM	—	—	—	GEE7060FFM	—	—
63	—	—	GEE2063FFG	—	GEE3063FFM	GEE3063AFM	50 – 63	—	GEE7063FFM	GEE7063AFM	50 – 63
70	—	—	GEE2070FFG	—	GEE3070FFM	—	—	—	GEE7070FFM	—	—
80	—	—	GEE2080FFG	—	GEE3080FFM	GEE3080AFM	63 – 80	—	GEE7080FFM	GEE7080AFM	63 – 80
90	—	—	GEE2090FFG	—	GEE3090FFM	—	—	—	GEE7090FFM	—	—
100	—	—	GEE2100FFG	—	GEE3100FFM	GEE3100AFM	80 – 100	—	GEE7100FFM	GEE7100AFM	80 – 100
125	—	—	GEE2125FFG	—	GEE3125FFM	GEE3125AFM	100 – 125	—	GEE7125FFM	GEE7125AFM	100 – 125
160	—	—	—	—	GEE3160FFM	GEE3160AFM	125 – 160	—	GEE7160FFM	GEE7160AFM	125 – 160

- ④ Replace suffix “M” or “G” with “W” for no line and load terminals. Replace suffix M with G for standard cable terminals included.
- ⑤ 1- and 2-pole breakers include standard terminals.
- ⑥ Neutral protection is indicated by the fourth character: 4=0%, 7=100%.
- ⑦ 16, 32, 63, 160 amperes are not NEMA rated. Maximum NEMA rating for GE is 125 amperes. Adjustable thermal trip units are typically used in IEC markets and are not NEMA rated.

Frame Size GE, 160 Amperes (125 Amperes NEMA)
Table 7. Complete Circuit Breaker ① — Includes Frame, Trip Unit, End Caps and Metric Mounting Hardware (Continued) ②

Maximum Continuous Ampere Rating at 40°C ④	1-Pole		2-Pole		3-Pole ①		4-Pole ③		
	Fixed Thermal Fixed Magnetic ④	Fixed Thermal Fixed Magnetic ④	Fixed Thermal Fixed Magnetic ④	Adjustable Thermal Fixed Magnetic ④	Thermal Range	Fixed Thermal Fixed Magnetic ④	Adjustable Thermal Fixed Magnetic ④	Thermal Range	
IC Rating: 85 kAIC at 240 Vac			IC Rating: 40 kAIC at 415 Vac, 35 kAIC at 480 Vac						
15	GES1015FFG	GES2015FFG	GES3015FFM	—	—	GES7015FFM	—	—	
16	GES1016FFG	GES2016FFG	GES3016FFM	—	—	GES7016FFM	—	—	
20	GES1020FFG	GES2020FFG	GES3020FFM	GES3020AFM	16 – 20	GES7020FFM	GES7020AFM	16 – 20	
25	GES1025FFG	GES2025FFG	GES3025FFM	GES3025AFM	20 – 25	GES7025FFM	GES7025AFM	20 – 25	
30	GES1030FFG	GES2030FFG	GES3030FFM	—	—	GES7030FFM	—	—	
32	GES1032FFG	GES2032FFG	GES3032FFM	GES3032AFM	25 – 32	GES7032FFM	GES7032AFM	25 – 32	
35	GES1035FFG	GES2035FFG	GES3035FFM	—	—	GES7035FFM	—	—	
40	GES1040FFG	GES2040FFG	GES3040FFM	GES3040AFM	32 – 40	GES7040FFM	GES7040AFM	32 – 40	
45	GES1045FFG	GES2045FFG	GES3045FFM	—	—	GES7045FFM	—	—	
50	GES1050FFG	GES2050FFG	GES3050FFM	GES3050AFM	40 – 50	GES7050FFM	GES7050AFM	40 – 50	
60	GES1060FFG	GES2060FFG	GES3060FFM	—	—	GES7060FFM	—	—	
63	GES1063FFG	GES2063FFG	GES3063FFM	GES3063AFM	50 – 63	GES7063FFM	GES7063AFM	50 – 63	
70	GES1070FFG	GES2070FFG	GES3070FFM	—	—	GES7070FFM	—	—	
80	GES1080FFG	GES2080FFG	GES3080FFM	GES3080AFM	63 – 80	GES7080FFM	GES7080AFM	63 – 80	
90	GES1090FFG	GES2090FFG	GES3090FFM	—	—	GES7090FFM	—	—	
100	GES1100FFG	GES2100FFG	GES3100FFM	GES3100AFM	80 – 100	GES7100FFM	GES7100AFM	80 – 100	
125	GES1125FFG	GES2125FFG	GES3125FFM	GES3125AFM	100 – 125	GES7125FFM	GES7125AFM	100 – 125	
IC Rating: 100 kAIC at 240 Vac			IC Rating: 70 kAIC at 415 Vac, 65 kAIC at 480 Vac						
15	GEH1015FFG	GEH2015FFG	GEH3015FFM	—	—	GEH7015FFM	—	—	
16	GEH1016FFG	GEH2016FFG	GEH3016FFM	—	—	GEH7016FFM	—	—	
20	GEH1020FFG	GEH2020FFG	GEH3020FFM	GEH3020AFM	16 – 20	GEH7020FFM	GEH7020AFM	16 – 20	
25	GEH1025FFG	GEH2025FFG	GEH3025FFM	GEH3025AFM	20 – 25	GEH7025FFM	GEH7025AFM	20 – 25	
30	GEH1030FFG	GEH2030FFG	GEH3030FFM	—	—	GEH7030FFM	—	—	
32	GEH1032FFG	GEH2032FFG	GEH3032FFM	GEH3032AFM	25 – 32	GEH7032FFM	GEH7032AFM	25 – 32	
35	GEH1035FFG	GEH2035FFG	GEH3035FFM	—	—	GEH7035FFM	—	—	
40	GEH1040FFG	GEH2040FFG	GEH3040FFM	GEH3040AFM	32 – 40	GEH7040FFM	GEH7040AFM	32 – 40	
45	GEH1045FFG	GEH2045FFG	GEH3045FFM	—	—	GEH7045FFM	—	—	
50	GEH1050FFG	GEH2050FFG	GEH3050FFM	GEH3050AFM	40 – 50	GEH7050FFM	GEH7050AFM	40 – 50	
60	GEH1060FFG	GEH2060FFG	GEH3060FFM	—	—	GEH7060FFM	—	—	
63	GEH1063FFG	GEH2063FFG	GEH3063FFM	GEH3063AFM	50 – 63	GEH7063FFM	GEH7063AFM	50 – 63	
70	GEH1070FFG	GEH2070FFG	GEH3070FFM	—	—	GEH7070FFM	—	—	
80	GEH1080FFG	GEH2080FFG	GEH3080FFM	GEH3080AFM	63 – 80	GEH7080FFM	GEH7080AFM	63 – 80	
90	GEH1090FFG	GEH2090FFG	GEH3090FFM	—	—	GEH7090FFM	—	—	
100	GEH1100FFG	GEH2100FFG	GEH3100FFM	GEH3100AFM	80 – 100	GEH7100FFM	GEH7100AFM	80 – 100	
125	GEH1125FFG	GEH2125FFG	GEH3125FFM	GEH3125AFM	100 – 125	GEH7125FFM	GEH7125AFM	100 – 125	

① Replace suffix "M" or "G" with "W" for no line and load terminals. Replace suffix M with G for standard cable terminals included.

② 1- and 2-pole breakers include standard terminals.

③ Neutral protection is indicated by the fourth character: 4 = 0%, 7 = 100%.

④ 16, 32, 63, 160 amperes are not NEMA rated. Maximum NEMA rating for GE is 125 amperes. Adjustable thermal trip units are typically used in IEC markets and are not NEMA rated.

Table 8. Moulded Case Switches

Ampere Rating	Number of Poles	Catalogue Number
125	3	GEK3125KSM
160	3	GEK3160KSM ⑤

⑤ 16, 32, 63, 160 amperes are not NEMA rated. Maximum NEMA rating for GE is 125 amperes. Adjustable thermal trip units are typically used in IEC markets and are not NEMA rated.

GJ-Frame, 250 Amperes — Selection Guide and Ordering Information



GJ Frame

Table 18. UL 489/IEC 60947-2 Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)									
		Volts ac (50/60 Hz)								Volts dc ①	
		220 – 240		380 – 415		480	600	690		250 ②③	
		I _{cu}	I _{cs}	I _{cu}	I _{cs}			I _{cu}	I _{cs}	I _{cu}	I _{cs}
GJE	2, 3, 4	65	65	25	25	25	18	12	6	10	10
GJS	2, 3, 4	85	85	40	40	35	18	12	6	22	22
GJH	2, 3, 4	100	100	70	70	65	25	14	7	22	22
GJC	2, 3, 4	200	150	100	75	100	50	20	10	42	42

① dc ratings apply to substantially non-inductive circuits.
 ② 2-pole circuit breaker, or two poles of 3-pole circuit breaker.
 ③ Time constant is 3 milliseconds minimum at 10 kA and 8 milliseconds minimum at 22 kA.
Note: Contact Eaton for availability of J250 frame breakers in panelboards and switchboards.

Table 19. Complete Circuit Breaker with Thermal-Magnetic Trip Unit — Includes Frame, Thermal-Magnetic Trip Units, End Caps and Metric Mounting Hardware ④⑤

Maximum Continuous Ampere Rating at 40°C	Magnetic Range	2-Pole		3-Pole		4-Pole ⑥		
		Fixed Thermal Adjustable Magnetic	Fixed Thermal Adjustable Magnetic	Adjustable Thermal Adjustable Magnetic ⑦	Thermal Range	Fixed Thermal Adjustable Magnetic	Adjustable Thermal Adjustable Magnetic ⑦	Thermal Range

IC Rating: 25 kAIC at 415 and 480 Vac

70	350 – 700	GJE2070FAG	GJE3070FAM	—	—	GJE4070FAM	—	—
80	400 – 800	—	—	GJE3080AAM	64 – 80	—	GJE4080AAM	—
90	450 – 900	GJE2080FAG	GJE3080FAM	—	—	GJE4080FAM	—	—
100	500 – 1000	GJE2100FAG	GJE3100FAM	GJE3100AAM	80 – 100	GJE4100FAM	GJE4100AAM	80 – 100
125	625 – 1250	GJE2125FAG	GJE3125FAM	GJE3125AAM	100 – 125	GJE4125FAM	GJE4125AAM	100 – 125
150	750 – 1500	GJE2150FAG	GJE3150FAM	—	—	GJE4150FAM	—	—
160	800 – 1600	—	—	GJE3160AAM	128 – 160	—	GJE4160AAM	128 – 160
175	875 – 1750	GJE2175FAG	GJE3175FAM	—	—	GJE4175FAM	—	—
200	1000 – 2000	GJE2200FAG	GJE3200FAM	GJE3200AAM	160 – 200	GJE4200FAM	GJE4200AAM	160 – 200
225	1125 – 2250	GJE2225FAG	GJE3225FAM	—	—	GJE4225FAM	—	—
250	1250 – 2500	GJE2250FAG	GJE3250FAM	GJE3250AAM	200 – 250	GJE4250FAM	GJE4250AAM	200 – 250

IC Rating: 40 kAIC at 415 Vac, 35 kAIC at 480 Vac

70	350 – 700	GJS2070FAG	GJS3070FAM	—	—	GJS4070FAM	—	—
80	400 – 800	—	—	GJS3080AAM	64 – 80	—	GJS4080AAM	—
90	450 – 900	GJS2090FAG	GJS3090FAM	—	64 – 80	GJS4090FAM	—	—
100	500 – 1000	GJS2100FAG	GJS3100FAM	GJS3100AAM	80 – 100	GJS4100FAM	GJS4100AAM	80 – 100
125	625 – 1250	GJS2125FAG	GJS3125FAM	GJS3125AAM	100 – 125	GJS4125FAM	GJS4125AAM	100 – 125
150	750 – 1500	GJS2150FAG	GJS3150FAM	—	—	GJS4150FAM	—	—
160	800 – 1600	—	—	GJS3160AAM	128 – 160	—	GJS4160AAM	128 – 160
175	875 – 750	GJS2175FAG	GJS3175FAM	—	—	GJS4175FAM	—	—
200	1000 – 2000	GJS2200FAG	GJS3200FAM	GJS3200AAM	160 – 200	GJS4200FAM	GJS4200AAM	160 – 200
225	1125 – 2250	GJS2225FAG	GJS3225FAM	—	—	GJS4225FAM	—	—
250	1250 – 2500	GJS2250FAG	GJS3250FAM	GJS3250AAM	200 – 250	GJS4250FAM	GJS4250AAM	200 – 250

IC Rating: 70 kAIC at 415 Vac, 65 kAIC at 480 Vac

70	350 – 700	GJH2070FAG	GJH3070FAM	—	—	GJH4070FAM	—	—
80	400 – 800	—	—	GJH3080AAM	64 – 80	—	GJH4080AAM	—
90	450 – 900	GJH2090FAG	GJH3090FAM	—	64 – 80	GJH4090FAM	—	—
100	500 – 1000	GJH2100FAG	GJH3100FAM	GJH3100AAM	80 – 100	GJH4100FAM	GJH4100AAM	80 – 100
125	625 – 1250	GJH2125FAG	GJH3125FAM	GJH3125AAM	100 – 125	GJH4125FAM	GJH4125AAM	100 – 125
150	750 – 1500	GJH2150FAG	GJH3150FAM	—	—	GJH4150FAM	—	—
160	800 – 1600	—	—	GJH3160AAM	128 – 160	GJH4160FAM ⑧	GJH4160AAM	128 – 160
175	875 – 1750	GJH2175FAG	GJH3175FAM	—	—	GJH4175FAM	—	—
200	1000 – 2000	GJH2200FAG	GJH3200FAM	GJH3200AAM	160 – 200	GJH4200FAM	GJH4200AAM	160 – 200
225	1125 – 2250	GJH2225FAG	GJH3225FAM	—	—	GJH4225FAM	—	—
250	1250 – 2500	GJH2250FAG	GJH3250FAM	GJH3250AAM	200 – 250	GJH4250FAM	GJH4250AAM	200 – 250

④ Replace suffix “M” or “G” with “W” for no line and load terminals. Replace suffix M with G for standard cable terminals included.
 ⑤ 2-pole includes standard terminals.
 ⑥ Adjustable thermal trip units are typically used in IEC markets and are not NEMA rated.
 ⑦ Neutral protection is indicated by the fourth character: 4 = 0%, 8 = adjustable 0 or 60% and 9 = 0 or 100%. 4-pole ground fault option does not have neutral protection.

Frame Size GJ, 250 Amperes

Table 19. Complete Circuit Breaker with Thermal-Magnetic Trip Unit — Includes Frame, Thermal-Magnetic Trip Units, End Caps and Metric Mounting (Continued) ①②

Maximum Continuous Ampere Rating at 40°C	Magnetic Range	2-Pole		3-Pole		4-Pole ④		
		Fixed Thermal Adjustable Magnetic	Fixed Thermal Adjustable Magnetic	Adjustable Thermal Adjustable Magnetic ③	Thermal Range	Fixed Thermal Adjustable Magnetic	Adjustable Thermal Adjustable Magnetic ③	Thermal Range
IC Rating: Component Frame Only — 25 kAIC at 415 and 480 Vac								
250	—	GJE2250NN	GJE3250NN	—	—	GJE4250NN	—	—
IC Rating: Component Frame Only — 40 kAIC at 415 Vac, 35 kAIC at 480 Vac								
250	—	GJS2250NN	GJS3250NN	—	—	GJS4250NN	—	—
IC Rating: Component Frame Only — 70 kAIC at 415 Vac, 65 kAIC at 480 Vac								
250	—	GJH2250NN	GJH3250NN	—	—	GJH4250NN	—	—
Thermal-Magnetic Trip Unit								
70	350 – 700	JT2070FA	JT3070FA	—	—	JT4070FA	—	—
80	400 – 800	—	—	JT3080AA ③	64 – 100	—	JT4080AA ③	—
90	450 – 900	JT2090FA	JT3090FA	—	—	JT4090FA	—	—
100	500 – 1000	JT2100FA	JT3100FA	JT3100AA ③	80 – 100	JT4100FA	JT4100AA ③	80 – 100
125	625 – 1250	JT2125FA	JT3125FA	JT3125AA ③	100 – 125	JT4125FA	JT4125AA ③	100 – 125
150	750 – 1500	JT2150FA	JT3150FA	—	—	JT4150FA	—	—
160	800 – 1600	JT2160FA ③	—	JT3160AA ③	128 – 160	—	JT4160AA ③	128 – 160
175	875 – 1750	JT2175FA	JT3175FA	—	—	JT4175FA	—	—
200	1000 – 2000	JT2200FA	JT3200FA	JT3200AA ③	160 – 200	JT4200FA	JT4200AA ③	160 – 200
225	1125 – 2250	JT2225FA	JT3225FA	—	—	JT4225FA	—	—
250	1250 – 2500	J2T250FA	JT3250FA	JT3250AA ③	200 – 250	JT4250FA	JT4250AA ③	200 – 250

① Replace suffix "M" or "G" with "W" for no line and load terminals. Replace suffix M with G for standard cable terminals included.

② 2-pole includes standard terminals.

③ Adjustable thermal trip units are typically used in IEC markets and are not NEMA rated.

④ Neutral protection is indicated by the fourth character: 4 = 0%, 8 = adjustable 0 or 60% and 9 = 0 or 100%.

Table 20. Complete GJ Breakers with Electronic Trip Unit ⑤⑥

Ampere Rating	LS	LSI	LSG ⑦	LSIG ⑦	Neutral CT ⑦⑧ for LSG & LSIG
3-Pole ⑨ — IC Rating: 25 kAIC at 415 and 480 Vac					
50	GJE305033M	GJE305032M	GJE305035M	GJE305036M	JGFCT050
100	GJE310033M	GJE310032M	GJE310035M	GJE310036M	JGFCT100
160	GJE316033M	GJE316032M	GJE316035M	GJE316036M	JGFCT160
250	GJE325033M	GJE325032M	GJE325035M	GJE325036M	JGFCT250
4-Pole ⑩ — IC Rating: 25 kAIC at 415 and 480 Vac					
50	GJE405033M	GJE405032M	GJE405035M	GJE405036M	JGFCT050
100	GJE410033M	GJE410032M	GJE410035M	GJE410036M	JGFCT100
160	GJE416033M	GJE416032M	GJE416035M	GJE416036M	JGFCT160
250	GJE425033M	GJE425032M	GJE425035M	GJE425036M	JGFCT250
3-Pole — IC Rating: 40 kAIC at 415 Vac, 35 kAIC at 480 Vac					
50	GJS305033M	GJS305032M	GJS305035M	GJS305036M	JGFCT050
100	GJS310033M	GJS310032M	GJS310035M	GJS310036M	JGFCT100
160	GJS316033M	GJS316032M	GJS316035M	GJS316036M	JGFCT160
250	GJS325033M	GJS325032M	GJS325035M	GJS325036M	JGFCT250
4-Pole ⑩ — IC Rating: 40 kAIC at 415 Vac, 35 kAIC at 480 Vac					
50	GJS405033M	GJS405032M	GJS405035M	GJS405036M	JGFCT050
100	GJS410033M	GJS410032M	GJS410035M	GJS410036M	JGFCT100
160	GJS416033M	GJS416032M	GJS416035M	GJS416036M	JGFCT160
250	GJS425033M	GJS425032M	GJS425035M	GJS425036M	JGFCT250
3-Pole — IC Rating: 70 kAIC at 415 Vac, 65 kAIC at 480 Vac					
50	GJH305033M	GJH305032M	GJH305035M	GJH305036M	JGFCT050
100	GJH310033M	GJH310032M	GJH310035M	GJH310036M	JGFCT100
160	GJH316033M	GJH316032M	GJH316035M	GJH316036M	JGFCT160
250	GJH325033M	GJH325032M	GJH325035M	GJH325036M	JGFCT250
4-Pole ⑩ — IC Rating: 70 kAIC at 415 Vac, 65 kAIC at 480 Vac					
50	GJH405033M	GJH405032M	GJH405035M	GJH405036M	JGFCT050
100	GJH410033M	GJH410032M	GJH410035M	GJH410036M	JGFCT100
160	GJH416033M	GJH416032M	GJH416035M	GJH416036M	JGFCT160
250	GJH425033M	GJH425032M	GJH425035M	GJH425036M	JGFCT250

⑤ Replace suffix "M" or "G" with "W" for no line and load terminals. Replace suffix M with G for standard cable terminals included.

⑥ For ac use only.

⑦ Neutral CT for LSG and LSIG applied to 4-wire applications must be ordered as a separate item.

⑧ Required for 4-wire systems if neutral protection is desired.

⑨ For 2-pole applications, use two outer poles.

⑩ Neutral protection 4 = 0%, 6 = 60%, 7 = 100% electronic trip unit neutral protection is not adjustable. 4-pole ground fault option does not have neutral protection.

GL-Frame, 630 Amperes



GL Frame

Table 31. UL 489/IEC 60947-2 Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)									
		Volts ac (50/60 Hz)								Volts dc	
		220 – 240 Vac		380 – 415 Vac		480 Vac	600 Vac	690 Vac		250 V	
		I_{cu}	I_{cs}	I_{cu}	I_{cs}			I_{cu}	I_{cs}	I_{cu}	I_{cs}
GLE	3, 4	65	65	35	35	35	18	12	9	22	22
GLS	3, 4	85	85	50	50	50	25	20	10	22	22
GLH	3, 4	100	100	70	70	65	35	25	13	42	42
GLC	3, 4	200	150	100	75	100	50	35	18	42	42

Table 32. Complete Breaker (Includes Frame, Trip Unit, End Caps and Mounting Hardware) ①

Ampere Rating	3-Pole ②		4-Pole (0%) ③		3-Pole ②		4-Pole (0%) ③		
	Fixed Thermal Adj. Magnetic	Adj. Thermal Adj. Magnetic ④⑤	Fixed Thermal Adj. Magnetic	Adj. Thermal Adj. Magnetic ④⑤	Fixed Thermal Adj. Magnetic	Adj. Thermal Adj. Magnetic ④⑤	Fixed Thermal Adj. Magnetic	Adj. Thermal Adj. Magnetic ④⑤	
IC Rating: 35 kAIC at 415 and 480 Vac					IC Rating: 50 kAIC at 415 and 480 Vac				
250	GLE3250FAM	GLE3250AAM	GLE4250FAM	GLE4250AAM	GLS3250FAM	GLS3250AAM	GLS4250FAM	GLS4250AAM	
300	GLE3300FAM	—	GLE4300FAM	—	GLS3300FAM	—	GLS4350FAM	—	
320	—	GLE3320AAM	—	GLE4320AAM	—	GLS3320AAM	—	GLS4320AAM	
350	GLE3350FAM	—	GLE4350FAM	—	GLS3350FAM	—	GLS4350FAM	—	
400	GLE3400FAM	GLE3400AAM	GLE4400FAM	GLE4400AAM	GLS3400FAM	GLS3400AAM	GLS4400FAM	GLS4400AAM	
500	GLE3500FAM	GLE3500AAM	GLE4500FAM	GLE4500AAM	GLS3500FAM	GLS3500AAM	GLS4500FAM	GLS4500AAM	
600	GLE3600FAM	—	GLE4600FAM	—	GLS3600FAM	—	GLS4600FAM	—	
630 ④	—	GLE3630AAM	—	GLE4630AAM	—	GLS3630AAM	—	GLS4630AAM	
IC Rating: 70 kAIC at 415 Vac, 65 kAIC at 480 Vac					IC Rating: 100 kAIC at 415 and 480 Vac				
250	GLH3250FAM	GLH3250AAM	GLH4250FAM	GLH4250AAM	GLC3250FAM	GLC3250AAM	GLC4250FAM	GLC4250AAM	
300	GLH3300FAM	—	GLH4300FAM	—	GLC3300FAM	—	GLC4300FAM	—	
320	—	GLH3320AAM	—	GLH4320AAM	—	GLC3320AAM	—	GLC4320AAM	
350	GLH3350FAM	—	GLH4350FAM	—	GLC3350FAM	—	GLC4350FAM	—	
400	GLH3400FAM	GLH3400AAM	GLH4400FAM	GLH4400AAM	GLC3400FAM	GLC3400AAM	GLC4400FAM	GLC4400AAM	
500	GLH3500FAM	GLH3500AAM	GLH4500FAM	GLH4500AAM	GLC3500FAM	GLC3500AAM	GLC4500FAM	GLC4500AAM	
600	GLH3600FAM	—	GLH4600FAM	—	GLC3600FAM	—	GLC4600FAM	—	
630 ④	—	GLH3630AAM	—	GLH4630AAM	—	GLC3630AAM	—	GLC4630AAM	

- ① Replace suffix "M" with "W" for no line and load terminals. Replace suffix "M" with "G" for standard cable terminals included.
- ② For 2-pole applications, use two outer poles.
- ③ Neutral protection is indicated by the fourth character: 4 = 0%, 7 = 100%, 8 = adjustable 0 – 60% and 9 = 0 – 100%. 4-pole ground fault option does not have neutral protection.
- ④ 630 amperes is not NEMA rated. 600 amperes is the maximum NEMA rating for the GL.
- ⑤ Adjustable thermal units are typically used in IEC markets and are not NEMA rated.

Table 33. Thermal Magnetic Trip Unit

Ampere Rating	3-Pole ⑥		4-Pole (0%) ⑦	
	Fixed Thermal/ Adj. Magnetic	Adj. Thermal/ Adj. Magnetic ⑧	Fixed Thermal/ Adj. Magnetic	Adj. Thermal/ Adj. Magnetic ⑧
250	LT3250FA	LT3250AA	LT4250FA	LT4250AA
300	LT3300FA	—	LT4300FA	—
320	—	LT3320AA	—	LT4320AA
350	LT3350FA	—	LT4350FA	—
400	LT3400FA	LT3400AA	LT4400FA	LT4400AA
500	LT3500FA	LT3500AA	LT4500FA	LT4500AA
600	LT3600FA	—	LT4600FA	—
630	—	LT3630AA	—	LT4630AA

- ⑥ For 2-pole applications, use two outer poles.
- ⑦ Neutral protection is indicated by the third character: 4 = 0%, 7 = 100%, 8 = adjustable 0 – 60% and 9 = 0 – 100%. 4-pole ground fault option does not have neutral protection.
- ⑧ Adjustable thermal, adjustable magnetic trip units are typically used in IEC markets and are not NEMA rated.

Table 34. Moulded Case Switches

Ampere Rating	Number of Poles	Catalogue Number
400	3 ⑨	GLK3400KSM
	4	GLK4400KSM
630 ⑩	3 ⑨	GLK3630KSM
	4	GLK4630KSM

- ⑨ For 2-pole applications, use two outer poles.
- ⑩ 630 amperes is not NEMA rated. 600 amperes is the maximum NEMA rating for the GL.

Table 35. Components Frame

Ampere Rating ⑪	IC Rating at 415/480 V	3-Pole ⑫	4-Pole (0%)
630	35/35	GLE3630NN	GLE4630NN
630	50/50	GLS3630NN	GLS4630NN
630	70/65	GLH3630NN	GLH4630NN
630	100/100	GLC3630NN	GLC4630NN

- ⑪ 630 amperes is not NEMA rated. 600 amperes is the maximum NEMA rating for the GL.
- ⑫ For 2-pole applications, use two outer poles.

GR-Frame, 2500 Amperes — Selection Guide and Ordering Information



GR Frame

Table 56. UL 489/IEC 60947-2 Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (kA Symmetrical Amperes)									
		Volts ac (50/60 Hz)								Volts dc	
		220 – 240 Vac		380 – 415 Vac		480 Vac	600 Vac	690 Vac		250 V	
		I_{cu}	I_{cs}	I_{cu}	I_{cs}			I_{cu}	I_{cs}	I_{cu}	I_{cs}
H	3, 4 ①	135	100	70	50	65	50	25 ②	13	—	—
C ③	3, 4 ①	200	100	100	50	100	65	35 ②	18	—	—

① Neutral on right side.

② IEC 60947-2 H.5 Annex H is not KEMA-KEUR tested.

③ Not KEMA-KEUR listed.

Table 57. Type GRH with Digitrip 310 High Interrupting Capacity — U_g Max. 690 Vac, 70 kA I_{CU} at 415 Vac

Maximum Continuous Ampere Rating at 40°C ①	Number of Poles	Circuit Breaker Frame Including Digitrip RMS 310 Electronic Trip Unit without Rating Plugs — Catalogue Number ②				Ampere Rating	Must Add Proper Rating Plug Suffix to Complete Breaker		Separate Rating Plugs			
		LS	LSI	LSG ③	LSIG ④		Fixed	Adj.	Fixed	Adj.		
		L – Adj. Long Delay Pickup (By Adj. Rating Plug) S – Adj. Short Delay Pickup with Fixed Short Delay Time (I^2t Response) or Adj. Short Delay Time (Flat Response) I – Adj. Inst. Pickup by Setting Short Delay Time to Instantaneous G – Adj. Ground Fault Pickup with Adj. Ground Fault Delay (Flat Response)										
Short Time Range		2 – 8 x I_n	2 – 8 x I_n	2 – 8 x I_n	2 – 8 x I_n							
Short Time Delay		—	1 – 300 ms	—	1 – 300 ms							
Ground Fault Pickup		—	—	200 – 1200 A	200 – 1200 A							
Ground Fault Delay		—	—	1 – 500 ms	1 – 500 ms							
1600 ①	3-Pole	GRH316T33W	GRH316T32W	GRH316T35W	GRH316T36W	800	P07	800/1000/	16RES08T	800/1000/		
						1000	P06	1200/1600			16RES10T	1200/1600
						1200	P05					
1250	P04		16RES125T	A16RES16T2								
1400	P03	800/1000/			16RES14T	800/1000/						
1500	P02	1250/1600					16RES15T	1250/1600				
1600	P01		16RES16T	A16RES16T2								
2000	GRH320T33W	GRH320T32W			GRH320T35W	GRH320T36W			1000	P15	1000/1200/	20RES10T
							1200	P14	1600/2000	20RES12T	1600/2000	
			1250	P13				A20RES125T	A20RES20T1			
1400	P12	1000/1250/	A20RES14T	1000/1250/								
1600	P11	1600/2000			A20RES16T	1600/2000						
2000	P10						A20RES20T	A20RES20T2				
2500	GRH325T33W	GRH325T32W	GRH325T35W	GRH325T36W					1200	P34	1200/1600/	25RES12T
					1250	P35			2000/2500	25RES125T	2000/2500	
					1600	P36		A25RES16T	A25RES25T1			
2000	P37	1250/1600/	A25RES20T	1250/1600/								
2500	P38	2000/2500			A25RES25T	2000/2500						
							P40	A25RES25T2				
1600 ①	4-Pole ④	GRH416T33W	GRH416T32W	⑤					⑤	800	P07	800/1000/
					1000	P06				1200/1600	16RES10T	1200/1600
					1200	P05		16RES12T		A16RES16T1		
1250	P04		16RES125T	A16RES16T2								
1400	P03	800/1000/			16RES14T	800/1000/						
1500	P02	1250/1600					16RES15T	1250/1600				
1600	P01		16RES16T	A16RES16T2								
2000	GRH420T33W	GRH420T32W			⑤	⑤			1000	P15	1000/1200/	20RES10T
							1200	P14	1600/2000	20RES12T	1600/2000	
			1250	P13				A20RES125T	A20RES20T1			
1400	P12	1000/1250/	A20RES14T	1000/1250/								
1600	P11	1600/2000			A20RES16T	1600/2000						
2000	P10						A20RES20T	A20RES20T2				
2500	GRH425T33W	GRH425T32W	⑤	⑤					1200	P34	1200/1600/	25RES12T
					1250	P35			2000/2500	25RES125T	2000/2500	
					1600	P36		A25RES16T	A25RES25T1			
2000	P37	1250/1600/	A25RES20T	1250/1600/								
2500	P38	2000/2500			A25RES25T	2000/2500						
							P40	A25RES25T2				

- ① For SCR application, use 2000 ampere frame.
- ② Order terminals separately. Mounting hardware not included.
- ③ Ground fault equipped trip units available with remote indicating panel. Add "R" to catalogue number, e.g., "GRH316T35RW."
- ④ Unprotected left pole neutral. Add "P" to catalogue number for 100% protected left pole neutral, add "E" for 60% protected, e.g., "GRH416T33PW", "GRH416T33EW."
- ⑤ Contact Eaton for availability.

Note: GR MCCBs have metric threading on line and load conductors. Use RD MCCBs if imperial threading is required.

Frame Size GR, 2500 Amperes 100 kA at 480 Vac, 415 Vac — Digitrip 310 Trip Unit

Table 58. Type GRC with Digitrip 310 Very High Interrupting Capacity — U_e Max. 690 Vac, 100 kA I_{cu} at 415 Vac

Maximum Continuous Ampere Rating at 40°C ①	Number of Poles	Circuit Breaker Frame Including Digitrip RMS 310 Electronic Trip Unit without Rating Plugs — Catalogue Number ②				Ampere Rating	Must Add Proper Rating Plug Suffix to Complete Breaker		Separate Rating Plugs	
		LS	LSI	LSG ③	LSIG ③		Fixed	Adj.	Fixed	Adj.
		L – Adj. Long Delay Pickup (By Adj. Rating Plug) S – Adj. Short Delay Pickup with Fixed Short Delay Time (I ² t Response) or Adj. Short Delay Time (Flat Response) I – Adj. Inst. Pickup by Setting Short Delay Time to Inst. G – Adj. Ground Fault Pickup with Adj. Ground Fault Delay (Flat Response)								
Short Time Range Short Time Delay Ground Fault Pickup Ground Fault Delay		2 – 8 x I _n — — —	2 – 8 x I _n I – 300 ms — —	2 – 8 x I _n — 200 – 1200 A I – 500 ms	2 – 8 x I _n I – 300 ms 200 – 1200 A I – 500 ms					
1600 ①	3-Pole	GRC316T33W	GRC316T32W	GRC316T35W	GRC316T36W	800	P07	800/1000/1200/1600	16RES08T	800/1000/1200/1600
						1000	P06		16RES10T	
						1200	P05		16RES12T	
						1250	P04		16RES125T	
						1400	P03	800/1000/1250/1600	16RES14T	800/1000/1250/1600
						1500	P02		16RES15T	
						1600	P01		16RES16T	A16RES16T2
2000		GRC320T33W	GRC320T32W	GRC320T35W	GRC320T36W	1000	P15	1000/1200/1600/2000	20RES10T	1000/1200/1600/2000
						1200	P14		20RES12T	
						1250	P13		A20RES125T	A20RES20T1
						1400	P12	1000/1250/1600/2000	A20RES14T	1000/1250/1600/2000
						1600	P11		A20RES16T	
						2000	P10		A20RES20T	A20RES20T2
2500 ④		GRC325T33W	GRC325T32W	GRC325T35W	GRC325T36W	1200	P34	1200/1600/2000/2500	25RES12T	1200/1600/2000/2500
						1250	P35		25RES125T	
						1600	P36		A25RES16T	A25RES25T1
						2000	P37	1250/1600/2000/2500	A25RES20T	1250/1600/2000/2500
						2500	P38		A25RES25T	A25RES25T2
							P40			
1600 ①	4-Pole ⑤	GRC416T33W	GRC416T32W	④	④	800	P07	800/1000/1200/1600	16RES08T	800/1000/1200/1600
						1000	P06		16RES10T	
						1200	P05		16RES12T	A16RES16T1
						1250	P04		16RES125T	
						1400	P03	800/1000/1250/1600	16RES14T	800/1000/1250/1600
						1500	P02		16RES15T	
						1600	P01		16RES16T	A16RES16T2
2000		GRC420T33W	GRC420T32W	④	④	1000	P15	1000/1200/1600/2000	20RES10T	1000/1200/1600/2000
						1200	P14		20RES12T	
						1250	P13		A20RES125T	A20RES20T1
						1400	P12	1000/1250/1600/2000	A20RES14T	1000/1250/1600/2000
						1600	P11		A20RES16T	
						2000	P10		A20RES20T	A20RES20T2
2500 ④		GRC425T33W	GRC425T32W	④	④	1200	P34	1200/1600/2000/2500	25RES12T	1200/1600/2000/2500
						1250	P35		25RES125T	
						1600	P36		A25RES16T	A25RES25T1
						2000	P37	1250/1600/2000/2500	A25RES20T	1250/1600/2000/2500
						2500	P38		A25RES25T	A25RES25T2
							P40			

① For SCR application, use 2000 ampere frame.

② Order terminals separately. Mounting hardware not included.

③ Ground fault equipped trip units available with remote indicating panel. Add "R" to catalogue number, e.g., "GRH316T35RW."

④ Contact Eaton for availability.

⑤ Unprotected left pole neutral. Add "P" to catalogue number for 100% protected left pole neutral, add "E" for 60% protected, e.g., "GRH416T33PW", "GRH416T33EW."

Note: GR MCCBs have metric threading on line and load conductors. Use RD MCCBs if imperial threading is required.

Table 59. Moulded Case Switches

Ampere Rating	Number of Poles	Catalogue Number
1600 2000	3-Pole	GRK316WK GRK320WK
1600 2000	4-Pole	GRK416WK GRK420WK