Series G, 15–2500 Amperes for UL, CSA and IEC Applications

Contents

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Product Overview

Series G, 15–2500 Amperes for UL, CSA and IEC Applications

Eaton Series G molded 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 EG, JG and LG frames are designed around space-saving footprints. The NG and RG use the proven Eaton Series C ND and RD designs.

The 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 200 kA at 480 volts AC (200 kA at 240 volts AC).

Series G molded case circuit breakers are also available in direct current options. Please see Specialty Breakers **Section 2.6** for more details.

Standard calibration is 40 °C. For applications in high ambient temperature conditions, 50 °C factory calibration is available on thermal-magnetic breakers (not UL).

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 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.

Current Limiting Characteristics

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

Eaton offers one of the most complete lines of current limiting breakers in the industry. The industrial breakers are available in current limiting versions with interrupting capacities up to 200 kA at 480 V without fuses in the same physical size as standard and high interrupting capacity breakers.

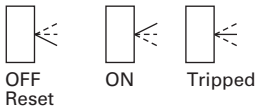
Operating Mechanisms

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 EG- to RG-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.

Positions of the Toggle Handle Drive



Standards and Certifications

Eaton Series G circuit breakers meet applicable UL 489 and IEC 60947-2 standards.

Molded case circuit breakers from Eaton are designed to conform with the following international standards:

- Australian Standard AS 2184 and AS 3947-2 molded case circuit breakers
- British Standards Institution Standard EN60947.2
- International Electromechanical Commission Recommendations IEC 60947.2 circuit breakers

CE

- Japanese T-Mark standard molded case circuit breakers
- National Electrical Manufacturers Association Standards Publication No. AB1-1993 molded case circuit breakers
- South African Bureau of Standards, Standard SANS 156, Standard Specification for molded 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

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 molded 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, UL and CSA provide ongoing follow-up testing and inspections to ensure that Eaton molded case circuit breakers continue to meet their exacting standards.

ISO Certification

Eaton circuit breakers are manufactured in ISO® certified facilities.

Product Selection Overview

Electronic Trip Units (Digitrip RMS Trip Units)—Multi-Function Electronic Trip Units for All Applications

True rms Sensing

Digitrip RMS trip units use Eaton's microprocessor-based intelligence to provide true rms sensing, permitting increased accuracy and reliable system protection. True rms sensing is not susceptible to nuisance tripping when waveforms containing high harmonic currents are present.

Digitrip RMS 310+

Digitrip RMS 310+ electronic trip units are available with Eaton Series G circuit breakers JG, LG, NG and RG, as well as Series C FD, KD, LD and MDL circuit breakers.

Digitrip 310+ trip units are equipped with an integrated I_r switch that allows users to modify the continuous current rating of the breaker without having to replace a rating plug. This provides further flexibility for coordination in systems. The trip units may be used in 50 Hz or 60 Hz applications. The Digitrip 310+ offers true rms sensing, is front adjustable and has an optional local display of current and cause of trip.

Curve Shaping

When selectively coordinated systems are called for, Digitrip RMS 310+ will provide a cost-effective solution for a variety of applications.

The standard Digitrip RMS 310+ includes an adjustable short time pickup setting encompassing an I^2t ramp function that provides the basic LS curve shaping function.

Digitrip 310+ trip units also include selectable long time delay (t_{LD}) and pickup settings (I_r). A rating plug is not required.

The optional Digitrip RMS 310+ LSI and LSIG provide additional flat response short time delay adjustments and an instantaneous setting to provide LSI curve shaping capability.

Digitrip RMS 310+ LSG and LSIG units are available with ground fault pickup and flat response ground fault delay. Ground fault alarm options are available with trip and no trip functionality as a means to notify users of a ground fault condition with the option to maintain the breaker online.

Digitrip RMS 310+ trip units can effectively coordinate with both sophisticated upstream power breakers as well as downstream thermal-magnetic breakers, making Digitrip RMS 310+ trip units the cost-effective reliable choice for selectively coordinated systems.

Thermal Memory

All Digitrip RMS trip units incorporate a long delay. Thermal memory prevents the system from cumulative overheating due to repeated overcurrent events that may occur in quick succession.

Field Testing

A field test kit is available for Digitrip RMS 310+ trip units.

Arcflash Reduction Maintenance Mode (ARMS)

ARMS is an available feature on KD, LG, LD, MDL, NG and RG frames with 310+ electronic trip units. This feature increases worker safety by providing an accelerated instantaneous trip unit to reduce arc flash. Additionally, LG, NG and RG frames with the ARMS feature include a fully adjustable instantaneous setting.

Digitrip RMS 610 and 910

Digitrip RMS 610 and 910 trip units are available with Eaton R-Frame circuit breakers 800 through 2500 amperes. Digitrip 610 and 910 trip units provide unparalleled system protection with the added convenience of a local display.

Curve Shaping

Digitrip RMS 610 and 910 trip units are available with up to nine curve shaping choices achieved by adjusting up to seven switches on the front of the unit for optimum system coordination. Maximum curve shaping flexibility is provided by dependent long and short delay adjustments that are long delay pickup (I_r) based, depicted on the front of the unit by the blue portion of the time-current curve.

Additional coordination capability can be provided by utilizing the short delay and ground fault zone selective interlocking features available on these trip units.

System Diagnostics

Digitrip RMS 610 and 910 models of trip units provide long delay, short delay, instantaneous, and ground fault cause of trip LEDs on the front of the unit. Their display shows a magnitude of trip information, as well as remote signal contacts, for improved system alarming.

System Monitoring

Digitrip 610 and 910 trip units have the capability to monitor phase currents, as well as neutral or ground currents. This information is displayed on a large digital display mounted on the unit.

Digitrip RMS 910 trip units can also provide the user with power and energy monitoring capability. Peak power demand, present power demand, and total energy, as well as forward and reverse energy can be monitored with this unit.

Digitrip RMS 910 trip units have the additional capability of monitoring line-to-line voltage, as well as system power factor. Both parameters are displayed in the digital display window and are supported by LEDs to indicate which parameter is being displayed.

Harmonics Monitoring

Digitrip RMS 910 trip units are capable of displaying values of current harmonics in the digital display window. Percentage of harmonic content can be monitored for each phase, up to the 27th harmonic. Additionally, a total harmonic distortion value can be calculated and displayed.

Communications

Digitrip RMS 910 units have built-in communications options to allow all protection, monitoring, and control information to be transmitted back to a central location via the Eaton PowerNet™ system.

Field Testing

Integral field testing capability is provided on all 610 and 910 trip units. No additional test set is needed to perform both trip and no trip field testing.

Product Selection Guide

Electronic Trip Units

Digitrip—RMS 310+, 610 and 910

RMS 310+

RMS 610

RMS 910

Breaker Type					
Series G frame(s)		JG-, LG-, NG- and RG-Frames		RG-Frame	RG-Frame
Ampere rating		20–2500 A		800–2500 A	800–2500 A
Interrupting rating at 415 V		35, 70, 100 kA		70, 100 kA	70, 100 kA
Trip Unit Sensing					
rms sensing		Yes		Yes	Yes
Protection and Coordination ①					
Protection	Ordering options	LS, LSG	LSI, LSIG	LI, LS, LSI, LIG, LSG, LSIG	LI, LS, LSI, LIG, LSG, LSIG
	Fixed rating plug (I_n) ②	Yes	Yes	Yes	Yes
	Overtemperature trip	Yes	Yes	Yes	Yes
Long delay	Adjustable I_r switch	Yes	Yes	No	No
	Long delay setting	VAR/frame	VAR/frame	0.5–1.0 x (I_n)	0.5–1.0 x (I_n)
	Long delay time I^2t at 6x	10 seconds ③	10 seconds ③	2–24 seconds	2–24 seconds
	Long delay thermal memory	Yes	Yes	Yes	Yes
	High load alarm	1.05 I_r	1.05 I_r	0.85 x I_r	0.85 x I_r
Short delay	Short delay setting	VAR/frame ④	VAR/frame ④	200–600% S1 and S2 x (I_r)	200–600% S1 and S2 x (I_r)
	Short delay time I^2t	100 ms	No	100, 300, 500 ms	100, 300, 500 ms
	Short delay time flat	No	I–300 ms	100–500 ms	100–500 ms
	Short delay time ZSI	No	Yes	Yes	Yes
Instantaneous	Independent adjustable Inst. setting	No	Yes ⑤	Yes	Yes
	Instantaneous setting	No	VAR/frame	200–600% M1 and M2 x (I_n)	200–600% M1 and M2 x (I_n)
	Discriminator	No	No	Yes ⑥	Yes ⑥
	Instantaneous override	Yes	Yes	Yes	Yes
Ground fault	Ground fault setting	VAR/frame ⑦	VAR/frame ⑦	25–100% x (I_n) ⑦	25–100% x (I_n) ⑦
	Ground fault delay I^2t at 0.62x	No	No	100, 300, 500 ms	100, 300, 500 ms
	Ground fault delay flat	I–300 ms	I–300 ms	100–500 ms	100–500 ms
	Ground fault ZSI	No	Yes	Yes	Yes
	Ground fault thermal memory	No	No	Yes	Yes

Notes

I_n = Rating plug rating.
I_r = Long delay setting.

① 310+ details are included by frame in **Pages V4-T2-182** (JG), **V4-T2-200** (LG), **V4-T2-210** (NG), and **V4-T2-221** (RG).
② 310+ trip units have selectable settings instead of a rating plug.
③ 310+ trip units have adjustable long delay times of 2–24 seconds, except NG 310+ for 800 A frame, for which it is 2–14 seconds.
④ JG/LG: 2X–14X (I_n); NG: 2X–8X (I_n); RG: 2X–9X (I_n); 2500 ampere RG-Frame 2X–6X% x (I_n).
⑤ LG, NG and RG ALSI and ALSIG 310+ trip units include an independently adjustable Instantaneous (I_i) setting.
⑥ LS, LSG only.
⑦ Not to exceed 1200 amperes.

Digitrip—RMS 310+, 610 and 910, continued

RMS 310+

RG

JG

LG/NG

RMS 610

RMS 910

	LS, LSG	LSI, LSIG	LSI, LSIG, LSIG (A)	LSI (A), LSIG
System Diagnostics				
Cause of trip LEDs	Yes ①②	Yes ①②	Yes	Yes
Magnitude of trip information	No	No	Yes	Yes
Remote signal contacts	No	No	Yes	Yes
System Monitoring				
Digital display	Yes ③	Yes ③	Yes	Yes
Current	Yes ③	Yes ③	Yes	Yes
Voltage	No	No	No	Yes
Power and energy	No	No	No	Yes
Power quality—harmonics	No	No	No	Yes
Power factor	No	No	No	Yes
System Communications				
PowerNet	No	No	No	Yes
Field Testing				
Testing method	Test set ④	Test set ④	Integral	Integral

Notes

① Using cause of trip module (catalog number **TRIP-LED**).
② RG 310+ trip units include integrated cause of trip LEDs.
③ Using ammeter or remote ammeter/cause of trip display (catalog number **DIGIVIEW** and **DIGIVIEWR06**).
④ Test kit available for field testing 310+ trip units (catalog number **MTST230V**).

Technical Data and Specifications

Ratings

Frames EG, JG and LG

EG

JG

LG

Maximum rated current (amperes)			125, 160 ①								250						400, 630 ②						
Breaker type ③			B	B	E	S	S	H	H	C	E	S	H	C	U	X	E	S	H	C	U	X
Number of poles			1	2, 3, 4	2, 3, 4	1	2, 3, 4	1	2, 3, 4	3, 4	2, 3, 4	2, 3, 4	2, 3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Breaker Capacity (kA rms) Vac 50–60 Hz																							
NEMA®, UL, CSA	240 Vac		25	25	35	85	85	100	100	200	65	85	100	200	200	200	65	85	100	200	200	200
	480 Vac		—	18	25	—	35	—	65	100	25	35	65	100	150	200	35	50	65	100	150	200
	600 Vac ④		—	—	18	—	22	—	25	35	18	18	25	35	50	50	18	25	35	50	65	65
	125/250 Vdc ⑤		10 ⑥	10	10	35 ⑥	35	42 ⑥	42	42	10	22	22	42	50	50	22	22	42	42	50	50
IEC 60947-2	220–240 Vac	I_{cu}	25	25	35	85	85	100	100	200	65	85	100	200	200	200	65	85	100	200	200	200
		I_{cs}	25	25	35	43	43	50	50	200	65	85	100	200	200	200	65	85	100	200	200	200
	380–415 Vac	I_{cu}	—	18	25	—	40	—	70	100	25	40	70	100	150	200	35	50	70	100	150	200
		I_{cs}	—	18	25	—	30	—	35	100	25	40	70	100	150	200	35	50	53	100	150	200
	660–690 Vac	I_{cu}	—	—	—	—	—	—	—	—	12	12	14	16	18	18	12	20	25	30	35	35
		I_{cs}	—	—	—	—	—	—	—	—	6	6	7	12	14	14	6	10	13	15	18	18
	125/250 Vdc ⑤	I_{cu}	10 ⑥	10	10	35 ⑥	35	42 ⑥	42	42	10	22	22	42	50	50	22	22	42	42	50	50
		I_{cs}	10 ⑥	10	10	35 ⑥	35	42 ⑥	42	42	10	22	22	42	50	50	22	22	42	42	50	50
Ampere range			15–160 A ①								20–250 A						100–630 A ②						
Trip Units F = Fixed A = Adjustable T = Thermal M = Magnetic			FT-FM AT-FM								FT-AM AT-AM Electronic (Digitrip RMS 310)						FT-AM AT-AM Electronic (Digitrip RMS 310)						
	Interchangeable		—	—	—	—	—	—	—	—	■	■	■	■	■	■	■	■	■	■	■	■
	Built-in		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Thermal magnetic	Fixed thermal		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Adjustable thermal		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Magnetic		Fixed								Adjustable						Adjustable					
Electronic RMS ⑦	LS		—	—	—	—	—	—	—	—	■	■	■	■	■	■	■	■	■	■	■	■
	LSI		—	—	—	—	—	—	—	—	■	■	■	■	■	■	■	■	■	■	■	■
	LSG		—	—	—	—	—	—	—	—	■	■	■	■	■	■	■	■	■	■	■	■
	LSIG		—	—	—	—	—	—	—	—	■	■	■	■	■	■	■	■	■	■	■	■
	ALSI		—	—	—	—	—	—	—	—	—	—	—	—	—	—	■	■	■	■	■	■
	ALSIG		—	—	—	—	—	—	—	—	—	—	—	—	—	—	■	■	■	■	■	■
Utilization category			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Notes

① 125 amperes is the maximum UL and CSA rating for the EG.
② 630 amperes is not a UL or CSA listed rating. 600 amperes is the maximum UL and CSA listed rating for the LG.
③ Breaker type C, U and X are current limiting per UL 489.
④ EG breaker rated 600/347 Vac.
⑤ Two poles in series.
⑥ 125 Vdc only for single-pole breakers.
⑦ Not suitable for DC application. Four-pole ground fault not available.

Frames NG and RG

NG

RG

Maximum rated current (amperes)			800, 1200	800, 1200	800, 1200	1600 ①	800	1600, 2000, 2500	1600, 2000, 2500
Breaker type			S	H	C ②	S	U	H	C ②
Number of poles			2, 3, 4	2, 3, 4	2, 3, 4	3	3	3, 4	3, 4
Breaker Capacity (kA rms) AC 50–60 Hz									
NEMA, UL, CSA	240 Vac		85	100	200	—	200	125	200
	480 Vac		50	65	100	—	150	65	100
	600 Vac		25	35	65	—	65	50	65
IEC 60947-2	220–240 Vac	I_{cu}	85	100	200	85	—	135	200
		I_{cs}	85	100	100	85	—	100	100
	380–415 Vac	I_{cu}	50	70	100	50	—	70	100
		I_{cs}	50	50	50	50	—	50	50
	660–690 Vac	I_{cu}	20 ③	25 ③	35	20 ③	—	25 ③	35 ③
		I_{cs}	10	13	18	10	—	13	18
	250 Vdc	I_{cu}	—	—	—	—	—	—	—
		I_{cs}	—	—	—	—	—	—	—
Ampere range			400–1200 A	400–1200 A	400–1200 A	1600 A	800 A	800–2500 A	800–2500 A
Trip units			Electronic (Digitrip RMS 310+)					Electronic (Digitrip RMS 310+ and 910)	
	Interchangeable		—	—	—	—	—	■ ⑤	■ ⑤
	Built-in		■	■	■	■	■	■	■
Electronic ④	LI		—	—	—	—	—	■ ⑥	■ ⑥
	LS		■	■	■	■	■	■	■
	LSI		■	■	■	■	■	■	■
	LIG		—	—	—	—	—	■ ⑥	■ ⑥
	LSG		■	■	■	■	■	■	■
	LSIG		■	■	■	■	■	■	■
	ALSI		■	■	■	■	—	■	■
	ALSIG		■	■	■	■	—	■	■
Utilization category			A	A	A	A	A	A	A

Notes

① NG 1600 ampere frame is not UL or CSA listed.
② Not KEMA-KEUR listed.
③ IEC 60947-2 H.5 Annex H is not KEMA-KEUR tested.
④ Not suitable for DC application. Four-pole ground fault not available.
⑤ RG 310+ are interchangeable with the exception of: FROM not ground fault equipped TO ground fault equipped
⑥ Available only on Digitrip 910 trip units.

General Specifications

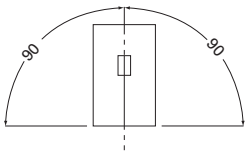
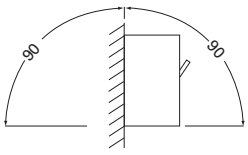
All Series G Frames

	EG	JG	LG	NG	RG
Maximum rated current I_n depending on the version	160 A ①	250 A	400, 630 A ②	800, 1200, 1600 A ③	1600, 2000, 2500 A
Rated insulation voltage U, according to IEC 60947-2					
Main conducting paths	500 Vac	750 Vac	750 Vac	750 Vac	750 Vac
Auxiliary circuits	500 Vac	690 Vac	690 Vac	690 Vac	690 Vac
Rated impulse withstand voltage U_{imp}					
Main conducting paths	6 kV	8 kV	8 kV	8 kV	8 kV
Auxiliary circuits	4 kV	4 kV	4 kV	4 kV	4 kV
Rated operational voltage U_e					
IEC	415 Vac	690 Vac	690 Vac	690 Vac	690 Vac
NEMA	600Y/347 Vac	600 Vac	600 Vac	600 Vac	600 Vac
UL and CSA listed	Yes ①	Yes	Yes ②	Yes ③	Yes
Permissible ambient temperature	–20 ° to 70 °C	–20 ° to 70 °C	–20 ° to 70 °C	–20 ° to 70 °C	–20 ° to 70 °C
Permissible load for various ambient temperatures close to the circuit breaker, related to the rated current of the circuit breaker	④ ⑤	④ ⑤	④ ⑤	—	—
Circuit breakers for plant protection					
At 40 °C	100% 100%	100% 100%	100% 100%	100%	100%
At 50 °C	96% 92%	96% 94%	96% 91%	91%	91%
At 55 °C	93% 87%	94% 90%	93% 86%	85%	85%
At 60 °C	91% 83%	92% 87%	90% 82%	81%	81%
At 70 °C	86% 73%	88% 80%	84% 70%	70%	70%
Circuit breakers for motor protection					
At 40 °C	—	100%	100%	—	—
At 50 °C	—	100%	100%	—	—
At 55 °C	—	100%	100%	—	—
At 60 °C	—	100%	100%	—	—
At 70 °C	—	90%	90%	—	—
Circuit breakers for starter combinations and isolating circuit breakers					
At 40 °C	100%	100%	100%	100%	100%
At 50 °C	100%	100%	100%	91%	91%
At 55 °C	96%	96%	95%	85%	85%
At 60 °C	91%	82%	90%	81%	81%
At 70 °C	86%	88%	84%	—	—
Rated short-circuit breaking capacity (DC) Not for circuit breakers for motor protection (Time constant t = 10 rms)					
Two conducting paths in series For EG to LG up to 250 Vdc	42 kA max.	42 kA max.	42 kA max.	⑥	⑥
NEMA (time constant t = 8 rms) Two conducting paths in series 250 Vdc	42 kA max.	42 kA max.	42 kA max.	⑥	⑥

Notes

① 125 amperes is the maximum UL and CSA rating for the EG.
② 630 amperes is not a UL or CSA listed rating. 600 amperes is the maximum UL and CSA rating for the LG.
③ 1200 amperes is the maximum UL and CSA rating for the NG.
④ Thermal overload release set to the lower value.
⑤ Thermal overload release set to the upper value.
⑥ Not suitable for DC switching.

All Series G Frames, continued

	EG	JG	LG		NG	RG
Main switch characteristics according to IEC 60947-2 in combination with lockable rotary drives	Yes	Yes	Yes		Yes	Yes
Rated short circuit breaking capacity according to IEC 60947-2 (at AC 50/60 Hz)	For rated short circuit breaking capacity, see **Page V4-T2-147**.					
Endurance (operating cycles)	10,000	10,000	8,000		3,000	3,000
Maximum switching frequency	300 1/h	240 1/h	240 1/h		60 1/h	60 1/h
Conductor cross sections and terminal types for main conductors	Box terminals	Box terminals	Box terminals	Flat bar terminals	Flat bar terminals	Flat bar terminals
Solid or stranded	2.5 to 95 mm^2	50 to 150 mm^2	95 to 240 mm^2	—	—	—
Finely stranded with end sleeve	2.5 to 50/70 mm^2	35 to 120 mm^2	70 to 150 mm^2	—	—	—
Busbar	—	—	—	600 A	Optional	Optional
Tightening torque for box terminals	5.6 Nm	20 Nm	42 Nm	31 Nm	31 Nm	—
Tightening torque for busbar connection pieces	5.6 Nm	15 Nm	30 Nm	6 Nm	50 Nm	20 Nm
Conductor cross sections for auxiliary circuits with terminal connection or terminal strip						
Solid	0.75 to 2.5 mm^2	0.75 to 2.5 mm^2	0.75 to 2.5 mm^2		Up to 2x4 mm^2	Up to 2x4 mm^2
Finely stranded with end sleeve	0.75 to 2.5 mm^2	0.75 to 2.5 mm^2	0.75 to 2.5 mm^2		Up to 2x2.5 mm^2	Up to 2x2.5 mm^2
With brought-out cable ends	—	0.82 (AWG 18) mm^2	0.82 (AWG 18) mm^2		0.82 (AWG 18) mm^2	0.82 (AWG 18) mm^2
Tightening torque for fitting screws	—	0.8 to 1.4 Nm	0.8 to 1.4 Nm		0.8 to 1.4 Nm	0.8 to 1.4 Nm
Power loss per circuit breaker at maximum rated current I_n (the power losses of the undervoltage releases ("r" releases) must be observed if necessary) at three-phase symmetrical load)			400 A:	600 A:		
For plant protection	40 W	45 W	65 W	120 W	87/210 W	220/270/400 W
As isolating circuit breaker	40 W	45 W	65 W	120 W	87/210 W	220/270/400 W
For starter combinations	40 W	45 W	65 W	120 W	—	—
For motor protection	—	45 W	65 W	120 W	—	—
Permissible mounting position						
Arc spacing— suitable for reverse-feed applications	Yes (except HMCPE)	Yes	Yes		Yes	Yes
Auxiliary Switches						
Rated thermal current I_{th}	6 A	6 A	6 A		6 A	6 A
Rated making capacity	20 A	20 A	20 A		20 A	20 A
	AC-14	**AC-14**	**AC-14**		**AC-15**	**AC-15**
Rated operational voltage	230/400/600 V	230/400/600 V	230/400/600 V		600 V	600 V
Rated operational current	6/3/0.25 A	6/3/0.25 A	6/3/0.25 A		6A	6A
					DC-13	**DC-13**
Rated operational voltage	125/250 V	125/250 V	125/250 V		125/250 V	125/250 V
Rated operational current	0.5/0.15 A	0.5/0.15 A	0.5/0.15 A		0.5/0.25 A	0.5/0.25 A
Backup fuse	6/4/4 A	(4) 6/4/4 A	(4) 6/4/4 A		(4) 6/4/4 A	(4) 6/4/4 A
Miniature circuit breaker	6/4 A	6/4 A	6/4 A		6/4 A	6/4 A

All Series G Frames, continued

	EG	JG	LG	NG	RG
Releases					
Undervoltage releases ("r" releases)					
Response voltage:					
Drop (breaker tripped) U_s	35–70%	35–70%	35–70%	35–70%	35–70%
Pickup (breaker may be switched on) U_s	85–110%	85–110%	85–110%	85–110%	85–110%
Power consumption in continuous operation at:					
50/60 Hz 12 Vac	—	—	—	1.9 VA	2.9 VA
50/60 Hz 24 Vac	0.72 VA	3.9 VA	3.9 VA	2.4 VA	3.1 VA
50/60 Hz 48–60 Vac	1.15–1.78 VA	2.5–3.8 VA	2.5–3.8 VA	2.3–4.1 VA	3.4–6.0 VA
50/60 Hz 110–127 Vac	0.96–1.25 VA	1.8–2.4 VA	1.8–2.4 VA	3.4–4.2 VA	3.3–3.8 VA
50/60 Hz 208–240 Vac	1.28–1.68 VA	2.7–3.8 VA	2.7–3.8 VA	4.8–6.5 VA	4.2–7.2 VA
50/60 Hz 380–500 Vac	2.2–3.9 VA	3.4–5.8 VA	3.4–5.8 VA	6.8–12.0 VA	3.8–10.0 VA
50/60 Hz 525–600 Vac	3.4–4.3 VA	3.4–4.3 VA	3.4–4.3 VA	—	—
12 Vdc	—	—	—	2.6W	3.4W
24 Vdc	0.70 W	3.1W	3.1W	3.6W	4.3W
48–60 Vdc	1.12–1.76W	2.0–3.1W	2.0–3.1W	3.5–5.5W	4.8–7.2W
110–125 Vdc	0.94–1.21W	1.6–2.2W	1.6–2.2W	2.9–3.6W	3.3–3.8W
220–250 Vdc	1.45–1.86W	3.1–4W	3.1–4W	4.8–6.3W	6.6–7.5W
Maximum opening time	50 ms	50 ms	50 ms	62 ms	62 ms
Shunt Trips					
Shunt trips ("f" releases)					
Response voltage:					
Pickup (breaker tripped) U_s	70–110%	70–110%	70–110%	70–110%	70–110%
Power consumption in (short time) at:					
50/60 Hz 24 Vac	10–41 VA	87–405 VA	87–405 VA	98–475 VA	612 VA
50/60 Hz 48–60 Vac	139–210 VA	710–1105 VA	710–1105 VA	24–50 VA	403–666 VA
50/60 Hz 48–127 Vac	—	—	—	—	—
50/60 Hz 110–240 Vac	83–360 VA	66–432 VA	66–432 VA	67–432 VA	396–1896 VA
50/60 Hz 380–440 Vac	—	127–188 VA	127–188 VA	76–110 VA	1596–2156 VA
50/60 Hz 380–600 Vac	418–1080 VA	—	—	—	—
50/60 Hz 480–600 Vac	—	34–60 VA	34–60 VA	19–42 VA	230–384 VA
12–24 Vdc	29–120 W	164–631 W	164–631 W	145–610 W	396 W
48–60 Vdc	475–720 W	830–1580 W	830–1580 W	67–102 W	341–528 W
110–125 Vdc	99–121 W	112–150 W	112–150 W	121–150 W	264–350 W
220–250 Vdc	—	40–58W	40–58 W	46–55 W	374–475 W
Maximum load duration	Interrupts automatically	Interrupts automatically	Interrupts automatically	Interrupts automatically	Interrupts automatically
Maximum opening time	50 ms	50 ms	50 ms	62 ms	62 ms
Molded Case Switch (with High Magnetic Trip)					
Unfused kAIC at 480 Vac (415 Vac)	65 (70)	65 (70)	65 (70)	65 (70)	65 (70)
Self-protected, will trip above	1250 for EG125; 1600 for EG160	2500	4000/6300	12,500	20,000

Dimensions and Weights

Approximate Dimensions in Inches (mm)

Series G—Frame EG, JG and LG

	EG			JG			LG		
	H	W	D	H	W	D	H	W	D
Single-pole	5.50 (139.7)	1.00 (25.4)	2.99 (76.0)	—	—	—	—	—	—
Two-pole	5.50 (139.7)	2.00 (50.8)	2.99 (76.0)	7.00 (177.8)	4.13 (105.0)	3.57 (87.4)	—	—	—
Three-pole	5.50 (139.7)	3.00 (76.2)	2.99 (76.0)	7.00 (177.8)	4.13 (105.0)	3.57 (87.4)	10.13 (258.0)	5.48 (140.0)	4.09 (104.0)
Four-pole	5.50 (139.7)	4.00 (101.6)	2.99 (76.0)	7.00 (177.8)	5.34 (135.6)	3.57 (87.4)	10.13 (258.0)	7.22 (183.0)	4.09 (104.0)

Series G—Frame NG and RG

	NG			RG		
	H	W	D	H	W	D
Single-pole	—	—	—	—	—	—
Two-pole	—	—	—	—	—	—
Three-pole	16.00 (406.0)	8.25 (210.0)	5.50 (140.0)	16.00 (406.0)	15.50 (394.0)	9.75 (229.0)
Four-pole	16.00 (406.0)	11.13 (280.0)	5.50 (140.0)	16.00 (406.0)	20.00 (508.0)	9.75 (229.0)

Approximate Shipping Weight in Lbs (kg)

Series G—Frame EG, JG and LG

	EG	JG	LG	NG	RG
Single-pole	0.85 (0.39)	—	—	—	—
Two-pole	1.57 (0.71)	11.3 (5.13)	—	—	—
Three-pole	2.28 (1.04)	5.06 (2.30) T/M 5.31 (2.41) ETU	12.36 (5.61) T/M 13.04 (5.92) ETU	46.8 (21.3)	103.0 (47.0)
Four-pole	2.85 (1.29)	6.76 (3.07) T/M 7.12 (3.23) ETU	16.27 (7.39) T/M 16.92 (7.68) ETU	62.0 (28.3)	118.4 (54.0)

EG-Frame (15–125 Amperes)

Contents

EG-Frame (15–125 Amperes)

Product Description

EG breaker is HACR rated.

Catalog Number Selection

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

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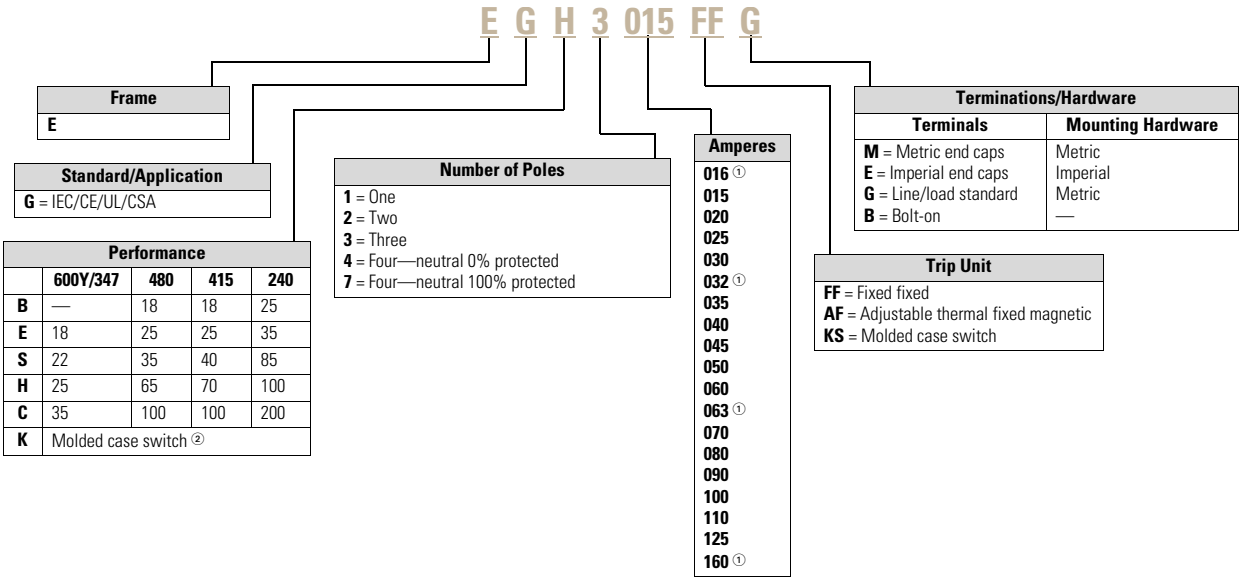
Series G—EG-Frame (15–125 Amperes)



Frame
E

Standard/Application
G = IEC/CE/UL/CSA

Performance				
	600Y/347	**480**	**415**	**240**
B	—	18	18	25
E	18	25	25	35
S	22	35	40	85
H	25	65	70	100
C	35	100	100	200
K	Molded case switch ②			

Number of Poles
1 = One
2 = Two
3 = Three
4 = Four—neutral 0% protected
7 = Four—neutral 100% protected

Amperes
016 ①
015
020
025
030
032 ①
035
040
045
050
060
063 ①
070
080
090
100
110
125
160 ①

Terminations/Hardware	
Terminals	**Mounting Hardware**
M = Metric end caps	Metric
E = Imperial end caps	Imperial
G = Line/load standard	Metric
B = Bolt-on	—

Trip Unit
FF = Fixed fixed
AF = Adjustable thermal fixed magnetic
KS = Molded case switch

Notes

① Cannot be UL rated.

② Available only as 125 and 160 A sizes.

Product Selection

Complete Breaker (Includes Frame, Trip Unit, Standard Terminals and Mounting Hardware) IC Rating at 415/480 Volts

EG-Frame

EG-Frame—18/18

Maximum Continuous Amps at 40 °C ①	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Adjustable ② Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Fixed Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Adjustable ② Thermal, Fixed Magnetic Catalog Number
15	EGB1015FFG	EGB2015FFG	EGB3015FFG	—	EGB4015FFG	—
16	EGB1016FFG	EGB2016FFG	EGB3016FFG	—	EGB4016FFG	—
20	EGB1020FFG	EGB2020FFG	EGB3020FFG	—	EGB4020FFG	EGB4020AFG
25	EGB1025FFG	EGB2025FFG	EGB3025FFG	EGB3025AFG	EGB4025FFG	EGB4025AFG
30	EGB1030FFG	EGB2030FFG	EGB3030FFG	—	EGB4030FFG	—
32	EGB1032FFG	EGB2032FFG	EGB3032FFG	EGB3032AFG	EGB4032FFG	EGB4032AFG
35	EGB1035FFG	EGB2035FFG	EGB3035FFG	—	EGB4035FFG	—
40	EGB1040FFG	EGB2040FFG	EGB3040FFG	EGB3040AFG	EGB4040FFG	EGB4040AFG
45	EGB1045FFG	EGB2045FFG	EGB3045FFG	—	EGB4045FFG	—
50	EGB1050FFG	EGB2050FFG	EGB3050FFG	EGB3050AFG	EGB4050FFG	EGB4050AFG
60	EGB1060FFG	EGB2060FFG	EGB3060FFG	—	EGB4060FFG	—
63	EGB1063FFG	EGB2063FFG	EGB3063FFG	EGB3063AFG	EGB4063FFG	EGB4063AFG
70	EGB1070FFG	EGB2070FFG	EGB3070FFG	—	EGB4070FFG	—
80	EGB1080FFG	EGB2080FFG	EGB3080FFG	EGB3080AFG	EGB4080FFG	EGB4080AFG
90	EGB1090FFG	EGB2090FFG	EGB3090FFG	—	EGB4090FFG	—
100	EGB1100FFG	EGB2100FFG	EGB3100FFG	EGB3100AFG	EGB4100FFG	EGB4100AFG
110	EGB1110FFG	EGB2110FFG	EGB3110FFG	—	EGB4110FFG	—
125	EGB1125FFG	EGB2125FFG	EGB3125FFG	EGB3125AFG	EGB4125FFG	EGB4125AFG
160	—	—	EGB3160FFG	EGB3160AFG	EGB4160FFG	EGB4160AFG

Notes

① 16, 32, 63 and 160 A are not UL listed ratings.
② Adjustable thermal are not UL listed.
③ Change the fourth digit to 7 for 100% neutral protection. Neutral is on the LH side.

EG-Frame—25/25 Single-Pole Unavailable

EG-Frame

EG-Frame—25/25

Maximum Continuous Amps at 40 °C ①	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Adjustable ② Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Fixed Thermal, Fixed Magnetic Catalog Number	Four-Pole Adjustable ② Thermal, Fixed Magnetic Catalog Number
15	**EGE2015FFG**	**EGE3015FFG**	—	**EGE4015FFG**	—
16	**EGE2016FFG**	**EGE3016FFG**	—	**EGE4016FFG**	—
20	**EGE2020FFG**	**EGE3020FFG**	—	**EGE4020FFG**	**EGE4020AFG**
25	**EGE2025FFG**	**EGE3025FFG**	**EGE3025AFG**	**EGE4025FFG**	**EGE4025AFG**
30	**EGE2030FFG**	**EGE3030FFG**	—	**EGE4030FFG**	—
32	**EGE2032FFG**	**EGE3032FFG**	**EGE3032AFG**	**EGE4032FFG**	**EGE4032AFG**
35	**EGE2035FFG**	**EGE3035FFG**	—	**EGE4035FFG**	—
40	**EGE2040FFG**	**EGE3040FFG**	**EGE3040AFG**	**EGE4040FFG**	**EGE4040AFG**
45	**EGE2045FFG**	**EGE3045FFG**	**EGE3050AFG**	**EGE4045FFG**	—
50	**EGE2050FFG**	**EGE3050FFG**	—	**EGE4050FFG**	**EGE4050AFG**
60	**EGE2060FFG**	**EGE3060FFG**	—	**EGE4060FFG**	—
63	**EGE2063FFG**	**EGE3063FFG**	**EGE3063AFG**	**EGE4063FFG**	**EGE4063AFG**
70	**EGE2070FFG**	**EGE3070FFG**	—	**EGE4070FFG**	—
80	**EGE2080FFG**	**EGE3080FFG**	**EGE3080AFG**	**EGE4080FFG**	**EGE4080AFG**
90	**EGE2090FFG**	**EGE3090FFG**	—	**EGE4090FFG**	—
100	**EGE2100FFG**	**EGE3100FFG**	**EGE3100AFG**	**EGE4100FFG**	**EGE4100AFG**
125	**EGE2125FFG**	**EGE3125FFG**	**EGE3125AFG**	**EGE4125FFG**	**EGE4125AFG**
160	—	**EGE3160FFG**	**EGE3160AFG**	**EGE4160FFG**	**EGE4160AFG**

Notes

① 16, 32, 63 and 160 A are not UL listed ratings.

② Adjustable thermal are not UL listed.

③ Change the fourth digit to 7 for 100% neutral protection. Neutral is on the LH side.

EG-Frame

EG-Frame—40/35

Maximum Continuous Amps at 40 °C ①	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Adjustable ② Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Fixed Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Adjustable ② Thermal, Fixed Magnetic Catalog Number
15	**EGS1015FFG**	**EGS2015FFG**	**EGS3015FFG**	—	**EGS4015FFG**	—
16	**EGS1016FFG**	**EGS2016FFG**	**EGS3016FFG**	—	**EGS4016FFG**	—
20	**EGS1020FFG**	**EGS2020FFG**	**EGS3020FFG**	—	**EGS4020FFG**	**EGS4020AFG**
25	**EGS1025FFG**	**EGS2025FFG**	**EGS3025FFG**	**EGS3025AFG**	**EGS4025FFG**	**EGS4025AFG**
30	**EGS1030FFG**	**EGS2030FFG**	**EGS3030FFG**	—	**EGS4030FFG**	—
32	**EGS1032FFG**	**EGS2032FFG**	**EGS3032FFG**	**EGS3032AFG**	**EGS4032FFG**	**EGS4032AFG**
35	**EGS1035FFG**	**EGS2035FFG**	**EGS3035FFG**	—	**EGS4035FFG**	—
40	**EGS1040FFG**	**EGS2040FFG**	**EGS3040FFG**	**EGS3040AFG**	**EGS4040FFG**	**EGS4040AFG**
45	**EGS1045FFG**	**EGS2045FFG**	**EGS3045FFG**	—	**EGS4045FFG**	—
50	**EGS1050FFG**	**EGS2050FFG**	**EGS3050FFG**	**EGS3050AFG**	**EGS4050FFG**	**EGS4050AFG**
60	**EGS1060FFG**	**EGS2060FFG**	**EGS3060FFG**	—	**EGS4060FFG**	—
63	**EGS1063FFG**	**EGS2063FFG**	**EGS3063FFG**	**EGS3063AFG**	**EGS4063FFG**	**EGS4063AFG**
70	**EGS1070FFG**	**EGS2070FFG**	**EGS3070FFG**	—	**EGS4070FFG**	—
80	**EGS1080FFG**	**EGS2080FFG**	**EGS3080FFG**	**EGS3080AFG**	**EGS4080FFG**	**EGS4080AFG**
90	**EGS1090FFG**	**EGS2090FFG**	**EGS3090FFG**	—	**EGS4090FFG**	—
100	**EGS1100FFG**	**EGS2100FFG**	**EGS3100FFG**	**EGS3100AFG**	**EGS4100FFG**	**EGS4100AFG**
125	**EGS1125FFG**	**EGS2125FFG**	**EGS3125FFG**	**EGS3125AFG**	**EGS4125FFG**	**EGS4125AFG**
160	—	—	**EGS3160FFG**	**EGS3160AFG**	**EGS4160FFG**	**EGS4160AFG**

Notes

① 16, 32, 63 and 160 A are not UL listed ratings.

② Adjustable thermal are not UL listed.

③ Change the fourth digit to 7 for 100% neutral protection. Neutral is on the LH side.

2

EG-Frame

EG-Frame—70/65

Maximum Continuous Amps at 40 °C ①	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number	Three-Pole Adjustable ② Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Fixed Thermal, Fixed Magnetic Catalog Number	Four-Pole ③ Adjustable ② Thermal, Fixed Magnetic Catalog Number
15	**EGH1015FFG**	**EGH2015FFG**	**EGH3015FFG**	—	**EGH4015FFG**	—
16	**EGH1016FFG**	**EGH2016FFG**	**EGH3016FFG**	—	**EGH4016FFG**	—
20	**EGH1020FFG**	**EGH2020FFG**	**EGH3020FFG**	**EGH3020AFG**	**EGH4020FFG**	**EGH4020AFG**
25	**EGH1025FFG**	**EGH2025FFG**	**EGH3025FFG**	**EGH3025AFG**	**EGH4025FFG**	**EGH4025AFG**
30	**EGH1030FFG**	**EGH2030FFG**	**EGH3030FFG**	—	**EGH4030FFG**	—
32	**EGH1032FFG**	**EGH2032FFG**	**EGH3032FFG**	**EGH3032AFG**	**EGH4032FFG**	**EGH4032AFG**
35	**EGH1035FFG**	**EGH2035FFG**	**EGH3035FFG**	—	**EGH4035FFG**	—
40	**EGH1040FFG**	**EGH2040FFG**	**EGH3040FFG**	**EGH3040AFG**	**EGH4040FFG**	**EGH4040AFG**
45	**EGH1045FFG**	**EGH2045FFG**	**EGH3045FFG**	—	**EGH4045FFG**	**EGH4050AFG**
50	**EGH1050FFG**	**EGH2050FFG**	**EGH3050FFG**	**EGH3050AFG**	**EGH4050FFG**	—
60	**EGH1060FFG**	**EGH2060FFG**	**EGH3060FFG**	—	**EGH4060FFG**	—
63	**EGH1063FFG**	**EGH2063FFG**	**EGH3063FFG**	**EGH3063AFG**	**EGH4063FFG**	**EGH4063AFG**
70	**EGH1070FFG**	**EGH2070FFG**	**EGH3070FFG**	—	**EGH4070FFG**	—
80	**EGH1080FFG**	**EGH2080FFG**	**EGH3080FFG**	**EGH3080AFG**	**EGH4080FFG**	**EGH4080AFG**
90	**EGH1090FFG**	**EGH2090FFG**	**EGH3090FFG**	—	**EGH4090FFG**	—
100	**EGH1100FFG**	**EGH2100FFG**	**EGH3100FFG**	**EGH3100AFG**	**EGH4100FFG**	**EGH4100AFG**
125	**EGH1125FFG**	**EGH2125FFG**	**EGH3125FFG**	**EGH3125AFG**	**EGH4125FFG**	**EGH4125AFG**

Notes

① 16, 32, 63 A are not UL listed ratings.
② Adjustable thermal are not UL listed.
③ Change the fourth digit to 7 for 100% neutral protection. Neutral is on the LH side.

EG-Frame—100/100 Current Limiting (Single-Pole and Two-Pole Unavailable)

EG-Frame

EG-Frame—100/100

	Three-Pole		Four-Pole 0% Protected Neutral ③	
	Fixed Thermal, Fixed Magnetic	Adjustable ② Thermal, Fixed Magnetic	Fixed Thermal, Fixed Magnetic	Adjustable ② Thermal, Fixed Magnetic
Maximum Continuous Amps at 40 °C ①	Catalog Number	Catalog Number	Catalog Number	Catalog Number
15	**EGC3015FFG**	—	**EGC7015FFG**	—
16	**EGC3016FFG**	—	**EGC7016FFG**	—
20	**EGC3020FFG**	**EGC3020AFG**	**EGC7020FFG**	**EGC7020AFG**
25	**EGC3025FFG**	**EGC3025AFG**	**EGC7025FFG**	**EGC7025AFG**
30	**EGC3030FFG**	—	**EGC7030FFG**	—
32	**EGC3032FFG**	**EGC3032AFG**	**EGC7032FFG**	**EGC7032AFG**
35	**EGC3035FFG**	—	**EGC7035FFG**	—
40	**EGC3040FFG**	**EGC3040AFG**	**EGC7040FFG**	**EGC7040AFG**
45	**EGC3045FFG**	—	**EGC7045FFG**	—
50	**EGC3050FFG**	**EGC3050AFG**	**EGC7050FFG**	**EGC7050AFG**
60	**EGC3060FFG**	—	**EGC7060FFG**	—
63	**EGC3063FFG**	**EGC3063AFG**	**EGC7063FFG**	**EGC7063AFG**
70	**EGC3070FFG**	—	**EGC7070FFG**	—
80	**EGC3080FFG**	**EGC3080AFG**	**EGC7080FFG**	**EGC7080AFG**
90	**EGC3090FFG**	—	**EGC7090FFG**	—
100	**EGC3100FFG**	**EGC3100AFG**	**EGC7100FFG**	**EGC7100AFG**
125	**EGC3125FFG**	**EGC3125AFG**	**EGC7125FFG**	**EGC7125AFG**

Molded Case Switches ④

Catalog Number
EGK3125KSG
EGK7125KSG
EGK3160KSG
EGK7160KSG

Notes

① 16, 32, 63 A are not UL listed ratings.
② Adjustable thermal is not UL listed.
③ Change the fourth digit to 7 for 100% neutral protection. Neutral is on LH side.
④ Molded case switches may open above 1250 A.

EG Bolt-On Complete Breaker (Includes Frame, Trip Unit and Mounting Hardware)

2

EG-Frame

EG-Frame—18 kAIC at 480 Vac

Maximum Continuous Amps at 40 °C	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number ①	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number ②	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number ③
15	**EGB1015FFB**	**EGB2015FFB**	**EGB3015FFB**
20	**EGB1020FFB**	**EGB2020FFB**	**EGB3020FFB**
25	**EGB1025FFB**	**EGB2025FFB**	**EGB3025FFB**
30	**EGB1030FFB**	**EGB2030FFB**	**EGB3030FFB**
35	**EGB1035FFB**	**EGB2035FFB**	**EGB3035FFB**
40	**EGB1040FFB**	**EGB2040FFB**	**EGB3040FFB**
45	**EGB1045FFB**	**EGB2045FFB**	**EGB3045FFB**
50	**EGB1050FFB**	**EGB2050FFB**	**EGB3050FFB**
60	**EGB1060FFB**	**EGB2060FFB**	**EGB3060FFB**
70	**EGB1070FFB**	**EGB2070FFB**	**EGB3070FFB**
80	**EGB1080FFB**	**EGB2080FFB**	**EGB3080FFB**
90	**EGB1090FFB**	**EGB2090FFB**	**EGB3090FFB**
100	**EGB1100FFB**	**EGB2100FFB**	**EGB3100FFB**
110	**EGB1110FFB**	**EGB2110FFB**	**EGB3110FFB**
125	**EGB1125FFB**	**EGB2125FFB**	**EGB3125FFB**

EG-Frame

EG-Frame—35 kAIC at 480 Vac

Maximum Continuous Amps at 40 °C	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number ①	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number ②	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number ③
15	**EGS1015FFB**	**EGS2015FFB**	**EGS3015FFB**
20	**EGS1020FFB**	**EGS2020FFB**	**EGS3020FFB**
25	**EGS1025FFB**	**EGS2025FFB**	**EGS3025FFB**
30	**EGS1030FFB**	**EGS2030FFB**	**EGS3030FFB**
35	**EGS1035FFB**	**EGS2035FFB**	**EGS3035FFB**
40	**EGS1040FFB**	**EGS2040FFB**	**EGS3040FFB**
45	**EGS1045FFB**	**EGS2045FFB**	**EGS3045FFB**
50	**EGS1050FFB**	**EGS2050FFB**	**EGS3050FFB**
60	**EGS1060FFB**	**EGS2060FFB**	**EGS3060FFB**
70	**EGS1070FFB**	**EGS2070FFB**	**EGS3070FFB**
80	**EGS1080FFB**	**EGS2080FFB**	**EGS3080FFB**
90	**EGS1090FFB**	**EGS2090FFB**	**EGS3090FFB**
100	**EGS1100FFB**	**EGS2100FFB**	**EGS3100FFB**
110	**EGS1110FFB**	**EGS2110FFB**	**EGS3110FFB**
125	**EGS1125FFB**	**EGS2125FFB**	**EGS3125FFB**

Notes

① For bulk pack 24, add suffix BP24 and order quantities of 24.
② For bulk pack 12, add suffix BP12 and order quantities of 12.
③ For bulk pack 8, add suffix BP8 and order quantities of 8.

EG-Frame

EG-Frame—65 kAIC at 480 Vac

Maximum Continuous Amps at 40 °C	Single-Pole Fixed Thermal, Fixed Magnetic Catalog Number ①	Two-Pole Fixed Thermal, Fixed Magnetic Catalog Number ②	Three-Pole Fixed Thermal, Fixed Magnetic Catalog Number ③
15	**EGH1015FFB**	**EGH2015FFB**	**EGH3015FFB**
20	**EGH1020FFB**	**EGH2020FFB**	**EGH3020FFB**
25	**EGH1025FFB**	**EGH2025FFB**	**EGH3025FFB**
30	**EGH1030FFB**	**EGH2030FFB**	**EGH3030FFB**
35	**EGH1035FFB**	**EGH2035FFB**	**EGH3035FFB**
40	**EGH1040FFB**	**EGH2040FFB**	**EGH3040FFB**
45	**EGH1045FFB**	**EGH2045FFB**	**EGH3045FFB**
50	**EGH1050FFB**	**EGH2050FFB**	**EGH3050FFB**
60	**EGH1060FFB**	**EGH2060FFB**	**EGH3060FFB**
70	**EGH1070FFB**	**EGH2070FFB**	**EGH3070FFB**
80	**EGH1080FFB**	**EGH2080FFB**	**EGH3080FFB**
90	**EGH1090FFB**	**EGH2090FFB**	**EGH3090FFB**
100	**EGH1100FFB**	**EGH2100FFB**	**EGH3100FFB**
110	**EGH1110FFB**	**EGH2110FFB**	**EGH3110FFB**
125	**EGH1125FFB**	**EGH2125FFB**	**EGH3125FFB**

Load Terminals

Maximum Breaker Amps	Terminal, Body Material	Wire Type	Metric Wire Range mm^2	AWG Wire Range	(Package of Three Terminals) Catalog Number
Standard Cu/Al Pressure Type Terminals					
15–50	Aluminum	Cu/Al	2.5–50	#14–1/0	**3TA125EF**
60–125	Aluminum	Cu/Al	16–70	#6–3/0	**3TA150EF**

Notes

① For bulk pack 24, add suffix BP24 and order quantities of 24.
② For bulk pack 12, add suffix BP12 and order quantities of 12.
③ For bulk pack 8, add suffix BP8 and order quantities of 8.