

Type HEM Circuit Breakers

EG Frame, Magnetic Only, Motor Circuit Protector

Approvals: UL, CSA, IEC, CE Marked

600Y/347 Vac Maximum, 250Vdc Maximum

Ratings and Markings

Poles	Current Range (A)
3	3 – 100

Terminal Connectors

Lug Information

Breaker Amp Rating (A)	Wire Size (AWG)	Torque (lb.-in.)	Connector Material	Connector Kit Catalog No.
15 – 125	14 – 10 AWG	35	Steel (Cu wire Only)	3TW1EG30 (kit of 3)
	8 AWG	40		
	6 – 4 AWG	45		
	3 – 3/0 AWG	50	Aluminum (Cu/Al wire)	3TA1EG10 (kit of 3)
	14 – 10 AWG	35		
	8 AWG	40		
6 – 4 AWG	45	Aluminum (Cu/Al wire)	3TA1EG30 (kit of 3)	
3 – 1/0 AWG	50			
	6 – 2 AWG	80	Aluminum (Cu/Al wire)	3TA1EG30 (kit of 3)
	1 – 3/0 AWG	80		

60/75° C wire ① The standard lug is Catalog Number TW1EG30.



Ordering Information

Type EG – 3 Pole Circuit Breakers

Ampere Rating In	HEM Catalog Number ②	Magnetic Trip Settings ③						MFLC Amperes ④
		A	B	C	D	E	F	
3	HEM3M003L	9	15	21	27	30	33	
		.69 – .91	1.1 – 1.3	1.6 – 1.7	2.0 – 2.2	2.3 – 2.5	2.6 – 2.8	
7	HEM3M007L	21	35	49	63	70	77	
		1.5 – 2.0	2.6 – 3.1	3.7 – 3.9	4.8 – 5.2	5.3 – 5.7	5.8 – 6.1	
15	HEM3M015L	45	75	100	135	150	165	
		3.4 – 4.5	5.7 – 6.8	8.0 – 9.1	10.4 – 11.4	11.5 – 11.4	12.7 – 13.0	
30	HEM3M030L	90	150	210	270	300	330	
		3.9 – 9.1	1.5 – 13.7	16.1 – 18.3	20.7 – 22.9	23.0 – 25.2	25.3 – 26.1	
50	HEM3M050L	150	250	350	450	500	550	
		11.5 – 15.2	19.2 – 22.9	26.9 – 30.6	34.6 – 38.3	38.4 – 4.1	42.2 – 43.5	
70	HEM3M070L	210	350	490	630	700	770	
		16.1 – 30.6	26.9 – 32.2	37.6 – 42.0	48.4 – 53.7	52.8 – 59.1	59.2 – 60.9	
100	HEM3M100L	300	500	700	900	1000	1100	
		23.0 – 30.6	38.4 – 46.0	53.8 – 61.4	69.2 – 76.8	76.9 – 84.5	84.6 – 87.0	

② "L" Suffix indicates standard terminal lugs TW1EG30 are factory installed on both line and load ends.

③ For Vdc applications, trip levels may be approximately 40% higher than values shown.

④ Motor Full Load Current (MFLC) ranges are typical. The corresponding trip setting is at 13 times the minimum MFLC value shown. Where a 13 times setting is an intermediate MFLC value, an alternate setting and/or different MCP rating should be used.

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Shunt Trip

Control Voltage Range		
AC	DC	Catalog Number
24 – 60	24 – 60	STREM60D
110 – 240	—	STRER240
380 – 600	—	STREV600

Alarm Switch

Description	Catalog Number
Single Alarm Switch 1A – 1B Contacts	ASKE1
Double Alarm Switch 2A – 2B Contacts	ASKE5
Combination Auxiliary Switch & Alarm Switch (1A – 1B each)	ASKE6

Auxiliary Switch

Description	Catalog Number
Single Auxiliary Switch 1A – 1B Contacts	ASKE2
Double Auxiliary Switch 2A – 2B Contacts	ASKE3

Auxiliary/Alarm Switch Ratings

AC	DC
6A at 230VAC	6A at 24VDC
3A at 400VAC	0.5A at 125VDC
0.25A at 600VAC	0.25A at 250VDC

Undervoltage Release

Control Voltage Range		
AC	DC	Catalog Number
24	24	UVREB24AD
48 – 60	—	UVREM60
110 – 127	—	UVREN120
208 – 240	—	UVRER240
380 – 500	—	UVREU480
525 – 600	—	UVREV600
—	48 – 60	UVREC48D
—	110 – 125	UVRED125D
—	220 – 250	UVREE250D

Available Accessory Combinations

Left Accessory Pocket	Right Accessory Pocket	
Shunt Trip or UVR	Auxiliary Switch Contacts	Alarm Contacts
Maximum 1 Shunt Trip or UVR	1A – 1B	0
	2A – 2B	0
	0	1A – 1B
	0	2A – 2B
	1A – 1B	1A – 1B

Shunt Trip, Undervoltage Release, Auxiliary Switches, and Alarm Switches are internal accessories contained within a field installable module for the EG/EB circuit breakers. A Shunt Trip or UVR can only be installed in the left accessory pocket. The Auxiliary Switches and/or Alarm Switch can only be installed in the right accessory pocket.

HEM Frame Outline Drawing – 3 Pole

