



## G Frame vs. EG Frame Breakers

[www.usa.siemens.com/circuitbreakers](http://www.usa.siemens.com/circuitbreakers)

The G Frame circuit breakers are compact, industrial design thermal magnetic breakers with valuable features for the global market. The information contained in this document is intended to compare the G Frame breakers with the EG Frame Breakers.

### Applications:

- Well suited for OEM designed equipment in both light commercial and industrial applications.
- For use in panelboard mounted applications.
- Breakers may be used as incoming main and branch breakers in distribution systems.

### Features:

- Overcenter toggle mechanism that is trip free, and uses repulsion contact arm construction.
- Suitable for Reverse Feed Applications.
- UL Listed Field Installable Accessories.
- Removable lugs.

### Operating Conditions:

- For installation in dusty and damp rooms or outdoors, suitable enclosures must be used. (Such enclosures for EG breakers are not provided by Siemens.)
- Factory calibrated for 40° C ambient.
- Units calibrated for 50° C maximum ambient (non-UL) and naval applications available.

### Flexibility of installation and on-site adjustments:

- UL listed field installable accessories allows for quick on-site changes. Interchangeable Lugs & Nut Keepers allows for last minute modifications in the field.
- Integral DIN rail or base mounting capability simplifies mounting without the need of additional plates or adapters (G Frame only.)

Category		Frame Type	
		EG	G
<b>Marks &amp; Ratings</b>			
Global rated (UL/CSA/IEC/NOM) UL489			
	CSA-C22.2 No. 5-02	✓	✓
	IEC 60947-2	✓	✓
	NMX-J-515-ANCE-2000 <sup>®</sup>	✓	✓
HACR, SWD, and HID marked (at applicable ratings)		✓	✓
<b>Poles</b>			
	1 Pole	✓	✓
	2 Pole	✓	✓
	3 Pole	✓	✓
	4 Pole	✓	-
<b>Size</b>			
<b>Dimensions</b>			
	Width	3.0"	3.0"
	Height	5.5"	5.4"
	Depth	3.0"	2.8"
<b>Mounting Holes</b>			
	Mounting Screw Specifications (Unified Thread Standard)	#6-32 UNC-2B	#6-32 UNC
<b>Shipping Weight</b>			
	1 Pole	1.4 lbs. / 0.5 kgs.	0.9 lbs. / 0.4 kgs.
	2 Pole	2.4 lbs. / 0.9 kgs.	1.9 lbs. / 0.9 kgs.
	3 Pole	3.7 lbs. / 1.4 kgs.	.9 lbs. / 1.2 kgs.
	4 Pole	4.8 lbs. / 1.8 kgs.	-
<b>Interrupt Ratings (UL 489)</b>			
<b>120V AC</b>		<b>Available On:</b>	
	65 kA	-	1 Pole GG Breakers
	100 kA	1 Pole EG Breakers	1 Pole GB Breakers
	200 kA	1 Pole EG Breakers	-
<b>240V AC</b>		<b>Available On:</b>	
	65 kA	-	2 & 3 Pole GG Breakers
	85 kA	1, 2, 3, & 4 Pole EG Breakers	-
	100 kA	1, 2, 3, & 4 Pole EG Breakers	2 & 3 Pole GB Breakers
<b>277V AC</b>		<b>Available On:</b>	
	25 kA	-	1 Pole GG/GB Breakers
	35 kA	1 Pole EG Breakers	1 Pole GG/GB Breakers
	65 kA	1 Pole EG Breakers	1 Pole GG/GB Breakers
<b>347V AC</b>		<b>Available On:</b>	
	14 kA	-	1 Pole GG/GB Breakers
	22 kA	1 Pole EG Breakers	1 Pole GG Breakers
	25 kA	1 Pole EG Breakers	1 Pole GG Breakers

Category		Frame Type	
		EG	G
480V AC		Available On:	
	25 kA	-	2 & 3 Pole GG Breakers
	35 kA	2, 3, & 4 Pole EG Breakers	2 & 3 Pole GG Breakers
	65 kA	2, 3, & 4 Pole EG Breakers	2 & 3 Pole GG Breakers
480Y/277V AC		Available On:	
	25 kA	-	2 & 3 Pole GB Breakers
	35 kA	-	2 & 3 Pole GB Breakers
	65 kA	-	2 & 3 Pole GB Breakers
600Y/347V AC		Available On:	
	14 kA	-	2 & 3 Pole GG/GB Breakers
	22 kA	2, 3, & 4 Pole EG Breakers	2 & 3 Pole GG/GB Breakers
	25 kA	2, 3, & 4 Pole EG Breakers	2 & 3 Pole GG/GB Breakers
Voltage Ratings			
AC			
	120V	✓	✓
	240V	✓	✓
	277V	✓	✓
	347V	✓	✓
	480V	✓	✓
	480Y/277V	-	✓
	600Y/347V	✓	✓
DC			
	125V	-	✓
	125/250V	✓	✓
Accessories			
Internal Accessories			
	Shunt Trip	✓	✓ <sup>①</sup>
	Auxiliary Switches	✓	✓ <sup>①</sup>
	Alarm Switch	✓	✓ <sup>①</sup>
	Undervoltage Release	✓	-
External Accessories			
	Handle Blocking Device	✓	✓
	Handle Padlock Device	✓	✓
	Mounting Screw Kit	✓	✓
	Variable Depth Operator Kit	✓	✓
	Max-Flex™ Operator Kits	✓	✓
	Flex Operator Kits	✓	-
	DIN Rail Adapter	✓	-
	Plug-In Assembly Kit	✓	-
	Handle Tie	-	✓
	Face Mounting Plate	-	✓
	Nut Keeper Plate	-	✓

① Rating pending for GB Breakers.

② Mounted left side only, not available in single pole.

External Accessories:		Catalog Number
Handle Operators		
<b>EG Frame</b>		
<b>NEMA Type 1</b>		
	Rotary Handle Operator (Black Handle, Breaker Mounted)	RHFESD
	Rotary Handle Operator with Door Interlock (Black Handle, Breaker Mounted)	RHFESDL
	Rotary Handle Operator (Red Handle, Breaker Mounted)	RHFESDEM
<b>NEMA Type 1, 12</b>		
	Variable Depth Rotary Operator Kit (Black Handle, 6 Inch Shaft)	RHVE6
	Variable Depth Rotary Operator Kit (Black Handle, 12 Inch Shaft)	RHVE12
	Variable Depth Rotary Operator (Black Handle, 24 Inch Shaft)	RHVE24
	Variable Depth Rotary Operator Kit (Red Handle, 6 Inch Shaft)	RHVEEM6
	Variable Depth Rotary Operator Kit (Red Handle, 12 Inch Shaft)	RHVEEM12
	Variable Depth Rotary Operator Kit (Red Handle, 24 Inch Shaft)	RHVEEM24
<b>NEMA Type 1, 12, 3R</b>		
	Max-Flex™, Flange Mounted Variable Depth Operator (Complete Kit)	MFKE3 ①
<b>NEMA Type 1, 12, 3R, 4X</b>		
	Variable Depth Rotary Operator Kit (Black Handle, 6 Inch Shaft)	RHVE64XA
	Variable Depth Rotary Operator Kit (Black Handle, 12 Inch Shaft)	RHVE124XA
	Variable Depth Rotary Operator Kit (Black Handle, 24 Inch Shaft)	RHVE244XA
	Variable Depth Rotary Operator Kit (Red Handle, 6 Inch Shaft)	RHVEEM64XA
	Variable Depth Rotary Operator Kit (Red Handle, 12 Inch Shaft)	RHVEEM124XA
	Variable Depth Rotary Operator Kit (Red Handle, 24 Inch Shaft)	RHVEEM244XA
<b>NEMA Type 4, 4X</b>		
	Max-Flex™, Flange Mounted Variable Depth Operator (Complete Kit)	MFKE4X3
<b>G Frame</b>		
<b>NEMA Type 1, 12</b>		
	Variable Depth Rotary Operator Kit (Handle, Shaft, Breaker Operator) (Standard)	RHOCQVD
	Variable Depth Rotary Operator Kit (Handle, Shaft, Breaker Operator) (Red and Yellow Handle)	RHOCQVDE
	Standard Depth Operator Handle (Through Door) (Standard)	FMHOS
	Standard Depth Operator Handle (Through Door) (Red and Yellow Handle)	FMHOE
<b>NEMA Type 1, 12, 3R</b>		
	Max-Flex™, Flange Mounted Variable Depth Operator (Complete Kit)	MFKG3R3
	Max-Flex™, Flange Mounted Variable Depth Operator (Handle Only)	MFHM3R
<b>NEMA Type 1, 12, 3R, 4X</b>		
	Max-Flex™, Flange Mounted Variable Depth Operator (Breaker Operator)	MFMG
	Max-Flex™, Flange Mounted Variable Depth Operator (36" Cable)	MFCF036
<b>NEMA Type 3R</b>		
	Variable Depth Rotary Operator Kit (Operator, Handle, Shaft)	CQDOP34 RHOH RHOSVD
<b>NEMA Type 4, 4X</b>		
	Variable Depth Rotary Operator Kit (Operator, Handle, Shaft)	CQDOP34 RHOH4 RHOSVD
	Max-Flex™, Flange Mounted Variable Depth Operator (Complete Kit)	MFKG4X3
	Max-Flex™, Flange Mounted Variable Depth Operator (Handle Only)	MFHM4X

① Consult sales office for additional cable lengths for EG Flex Shaft Operators. For 3-Pole only.

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