

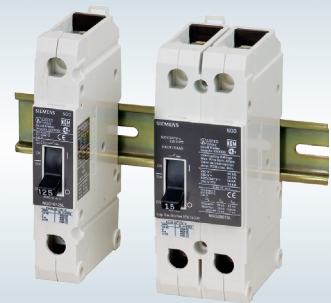
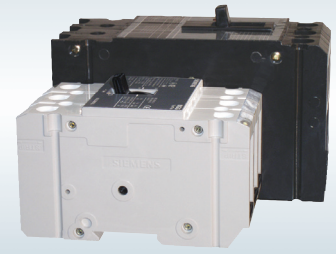


# G-frame Circuit Breakers

## Product Guide

# Advantages to reduce your installed cost

- Compact size saves space and helps reduce overall panel size.
- Interchangeable lugs and nut keepers for customer-supplied connections allow for last minute changes on site.
- UL listed field installable accessories allow for last minute changes on site. Also, inventory can be minimized as these accessories cover two families of Siemens breakers.
- Integral DIN rail or base mounting capability simplifies mounting the breaker without having to add plates or adapters.
- CE/CSA/NOM marked UL breakers let you serve all major markets with one design.



# General information

The Siemens GG circuit breaker is a compact, industrial design thermal magnetic breaker with valuable features for the global markets. These features include a design that meets multi-national standards, is suitable for DIN rail or base mounting without the need for adapters, and includes UL listed field installable accessories. The GG also has an overcenter toggle mechanism that is trip free and uses repulsion contact arm construction. Therefore, should a short circuit or tripping condition occur, the contacts are forced apart and the breaker cannot be held closed by means of the handle.

The GB and GB2 circuit breakers include the same design features as the GG except the line end of the breaker is configured for panelboard mounting applications and it is without some of the global markings.

## 125A frame Type GG / GB / GB2

- Global rated (UL/CSA/ IEC /NOM)  
UL489  
CSA-C22.2 No. 5-02  
IEC 60947-2 (GG) (PENDING)  
NOM-003
- HACR, SWD, and HID marked (at applicable ratings)
- Integral DIN rail or base mount without adapters (GG)
- UL Listed field installable accessories
- Removable lugs
- 25 kA, 35 kA, 65 kA @ 480V AC (GG/GB2) 25 kA, 35 kA, 65 kA @ 480Y/277V AC (GB)
- Compact Size  
3.0"W x 5.4"H x 2.8"D (1.0" wide per pole)
- 1, 2, 3 pole units
- Overcenter toggle and trip free mechanism
- Suitable for reverse feed applications
- Common trip
- Voltage ratings of 120V, 240V, 277V, 480V (GG / GB2)  
480Y/277V AC, 600Y/347V AC  
DC rated at 125V, 250V DC
- Meets or exceeds federal specifications W-C-375c  
Classes 10b, 11a, 11b, 12b, 12c, 13a, 13b, 15b

### Applications:

- With their compact size, the G-frame circuit breakers are well suited for OEM designed equipment in both light commercial and industrial applications.
- The GG can be independently mounted on DIN rail or held in place by mounting screws.
- The GB and GB2 breakers are for panelboard mounted applications.
- These circuit breakers may be used as incoming main and branch breakers in distribution systems.

### Operating conditions:

- The GG circuit breakers are designed for use in enclosed rooms, in which there are no adverse operating conditions (e.g. dust, corrosive vapors, destructive gases).
- For installation in dusty and damp rooms or outdoors, suitable enclosures must be used.
- The G-Frame is factory calibrated for 40° C ambient.



# General information

## Ratings and markings

Type	Current range (A)	HACR rated	SWD marked	HID marked
1 pole	15 - 125	15 - 125	15 - 20	15 - 50
2 pole	15 - 125	15 - 125	—	15 - 50
3-pole	15 - 125	15 - 125	—	15 - 50

## Shipping weight

Frame	1 pole	2 poles	3 poles
xGB	0.9 lbs. / 0.4 kgs.	1.9 lbs. / 0.9 kgs.	2.9 lbs. / 1.2 kgs.
GG/xGB2	0.75 lbs. / 0.34 kgs.	1.3 lbs. / 0.59 kgs.	2.0 lbs / 0.98 kgs.

## Interrupting ratings (max. RMS symmetrical amperes kA)

Type	Poles	UL489								IEC 60947-2 (Ics = 50% Icu)		
		Volts AC						Volts DC		Volts AC		Volts DC
		120	240	277	347	480	600Y/347	125	125/250	240	415	125/250
NGG	1	65	—	25	14	—	—	14	—	25	—	—
	2, 3	—	65	—	—	25	14	—	14 <sup>1)</sup>	65	25	14 <sup>1)</sup>
HGG	1	65	—	35	14	—	—	14	—	—	—	—
	2, 3	—	65	—	—	35	14	—	14 <sup>1)</sup>	—	—	—
LGG	1	65	—	65	14	—	—	14	—	—	—	—
	2, 3	—	65	—	—	65	14	—	14 <sup>1)</sup>	—	—	—

Type	Poles	UL489								IEC 60947-2 (Ics = 50% Icu)	
		Volts AC						Volts DC		Volts AC	
		120	240	277	347	480Y/277	600Y/347	125	125/250	240	415
NGB	1	100	—	25	14	—	—	14	—	—	—
	2, 3	—	100	—	—	25	14	—	14 <sup>1)</sup>	—	—
HGB	1	100	—	35	14	—	—	14	—	—	—
	2, 3	—	100	—	—	35	14	—	14 <sup>1)</sup>	—	—
LGB	1	100	—	65	14	—	—	14	—	—	—
	2, 3	—	100	—	—	65	14	—	14 <sup>1)</sup>	—	—

Type	Poles	UL489								IEC 60947-2 (Ics = 50% Icu)	
		Volts AC						Volts DC		Volts AC	
		120	240	277	347	480	600Y/347	125	125/250	240	415
NGB2	1	100	—	25	14	—	—	14	—	—	—
	2, 3	—	100	—	—	25	14	—	14 <sup>1)</sup>	—	—
HGB2	1	100	—	35	22	—	—	14	—	—	—
	2, 3	—	100	—	—	35	22	—	14 <sup>1)</sup>	—	—
LGB2	1	100	—	65	25	—	—	14	—	—	—
	2, 3	—	100	—	—	65	25	—	14 <sup>1)</sup>	—	—

<sup>1)</sup> 2-pole only or two outer poles of 3-pole breaker.

### G-Frame 1, 2 and 3 poles

Ampere rating	NGG catalog number	HGG catalog number	LGG catalog number	NGB catalog number	HGB catalog number	LGB catalog number
In	(Cable in - Cable out)	(Cable in - Cable out)	(Cable in - Cable out)	(Low Tab Panelboard Mount)	(Low Tab Panelboard Mount)	(Low Tab Panelboard Mount)
15	NGG_B015L	HGG_B015L	LGG_B015L	NGB_B015B	HGB_B015B	LGB_B015B
20	NGG_B020L	HGG_B020L	LGG_B020L	NGB_B020B	HGB_B020B	LGB_B020B
25	NGG_B025L	HGG_B025L	LGG_B025L	NGB_B025B	HGB_B025B	LGB_B025B
30	NGG_B030L	HGG_B030L	LGG_B030L	NGB_B030B	HGB_B030B	LGB_B030B
35	NGG_B035L	HGG_B035L	LGG_B035L	NGB_B035B	HGB_B035B	LGB_B035B
40	NGG_B040L	HGG_B040L	LGG_B040L	NGB_B040B	HGB_B040B	LGB_B040B
45	NGG_B045L	HGG_B045L	LGG_B045L	NGB_B045B	HGB_B045B	LGB_B045B
50	NGG_B050L	HGG_B050L	LGG_B050L	NGB_B050B	HGB_B050B	LGB_B050B
60	NGG_B060L	HGG_B060L	LGG_B060L	NGB_B060B	HGB_B060B	LGB_B060B
70	NGG_B070L	HGG_B070L	LGG_B070L	NGB_B070B	HGB_B070B	LGB_B070B
80	NGG_B080L	HGG_B080L	LGG_B080L	NGB_B080B	HGB_B080B	LGB_B080B
90	NGG_B090L	HGG_B090L	LGG_B090L	NGB_B090B	HGB_B090B	LGB_B090B
100	NGG_B100L	HGG_B100L	LGG_B100L	NGB_B100B	HGB_B100B	LGB_B100B
110	NGG_B110L	HGG_B110L	LGG_B110L	NGB_B110B	HGB_B110B	LGB_B110B
125	NGG_B125L <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>L = Line &amp; Load side lugs <sup>1)</sup></div> </div>	HGG_B125L <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>L = Line &amp; Load side lugs <sup>1)</sup></div> </div>	LGG_B125L <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>L = Line &amp; Load side lugs <sup>1)</sup></div> </div>	NGB_B125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>B = Load side lugs <sup>2)</sup></div> </div>	HGB_B125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>B = Load side lugs <sup>2)</sup></div> </div>	LGB_B125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> <div>B = Load side lugs <sup>2)</sup></div> </div>

1) This "L" indicates Line Side and Load Side lugs are supplied as standard. To order a GG without lugs, remove the L suffix.

2) This "B" indicates Load Side lugs are supplied as standard. To order a GB without lugs, remove the B suffix.

### G-Frame 1, 2 and 3 poles IPanelboard mount)

Ampere rating	NGB2 catalog number	HGB2 catalog number	LGB2 catalog number
In	(Low Tab Panelboard Mount)	(Low Tab Panelboard Mount)	(Low Tab Panelboard Mount)
15	NGB_K015B	HGB_K015B	LGB_K015B
20	NGB_K020B	HGB_K020B	LGB_K020B
25	NGB_K025B	HGB_K025B	LGB_K025B
30	NGB_K030B	HGB_K030B	LGB_K030B
35	NGB_K035B	HGB_K035B	LGB_K035B
40	NGB_K040B	HGB_K040B	LGB_K040B
45	NGB_K045B	HGB_K045B	LGB_K045B
50	NGB_K050B	HGB_K050B	LGB_K050B
60	NGB_K060B	HGB_K060B	LGB_K060B
70	NGB_K070B	HGB_K070B	LGB_K070B
80	NGB_K080B	HGB_K080B	LGB_K080B
90	NGB_K090B	HGB_K090B	LGB_K090B
100	NGB_K100B	HGB_K100B	LGB_K100B
110	NGB_K110B	HGB_K110B	LGB_K110B
125	NGB_K125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> </div>	HGB_K125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> </div>	LGB_K125B <div> <div>1 = 1 pole</div> <div>2 = 2 pole</div> <div>3 = 3 pole</div> </div>

Note: Load Lugs are included as standard. HACR rated.