

- All two- and three-pole circuit breakers are of the common trip type. On all 3-phase Delta (240V) Grounded B phase applications, refer to Cutler-Hammer.
- Single-pole circuit breakers, 15 and 20 amperes. Switching duty rated (SWD) for fluorescent lighting applications.
- All G-frame circuit breakers are suitable for reverse feed use.
- HACR rated.

Interrupting Capacity Ratings

UL489 Interrupting Capacity Ratings

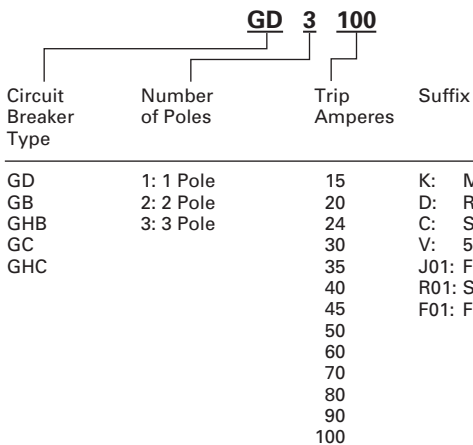
Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)						Page Number
		Volts Ac (50/60 Hz)				Volts Dc		
		120	240	277	480	125	250 ^{①②}	
GD	3	–	65	–	22	–	10	26

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)						Page Number
		Volts Ac (50/60 Hz)				Volts Dc		
		120	240	277	480Y/277	125	125/250	
GB	1	65	–	–	–	14 ^③	–	27
	2, 3	–	65	–	–	–	14	27
GHB	1	65	–	14	–	14 ^③	–	27
	2, 3	–	65	–	14	–	14	27
GC	1	65	–	–	–	14 ^③	–	28
	2, 3	–	65	–	–	–	14	28
GHC	1	65	–	14	–	14 ^③	–	28
	2, 3	–	65	–	14	–	14	28

Catalog Numbering System

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.

Circuit Breaker/Frame Catalog Number



Terminal Types

For line and load-side. Terminals are UL listed as suitable for wire type and size given below.

Circuit Breaker Amperes	Terminal Type Material	Screw Head Type	Wire Type	AWG Wire Range	Metric Wire ^④ Range (mm ²)
Standard					
15-20	Clamp (Plated Steel)	Slotted	Cu/Al	#14-10	2.5-4
25-100	Pressure (Aluminum Body)	Slotted	Cu/Al	#10-1/0	4-50
Optional					
15-50	Pressure (Steel Body)	Slotted	Cu	–	–

① Two poles of 3-pole circuit breaker.
 ② Time constant is 8 milliseconds minimum.
 ③ 15 through 70A breakers only.
 ④ Not UL listed sizes.

Series C® G-Frame



Typical Series C G-Frame Circuit Breaker

Type GD Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip-Units

Maximum Continuous Ampere Rating @ 40°C	480 Vac Maximum, 250 Vdc ^①	Catalog Number (Includes binding head screws)
	22 kAIC @ 480 Vac	
	Catalog Number (Includes Line and Load Terminals)	

3-Pole

15	GD3015	GD3015D
20	GD3020	GD3020D
25	GD3025	GD3025D
30	GD3030	GD3030D
35	GD3035	GD3035D
40	GD3040	GD3040D
45	GD3045	GD3045D
50	GD3050	GD3050D
60	GD3060	GD3060D
70	GD3070	GD3070D
80	GD3080	GD3080D
90	GD3090	GD3090D
100	GD3100	GD3100D

Instruction Leaflet/FRED Number 29C102

Molded Case Switches

Maximum Continuous Ampere Rating @ 40°C	480 Vac Maximum, 250 Vdc
	Catalog Number (Includes Line and Load Terminals)

3-Pole

60	GD3060K
100	GD3100K

Instruction Leaflet/FRED Number 29C102

Series C® G-Frame

Types GB and GHB Bolt-On Panelboard Circuit Breakers



Typical GB

These breakers meet the requirements of Federal Specification W-C-375b as follows:

Types GB, GHB, 120 and 240 Volts:

1 Pole: Class 11a.

2, 3 Poles: Classes 10b, 11b, 12b, 14b, 15b

Type GHB, 277 and 480Y/277 Volts:

1 Pole: Classes 12c, 13a

2, 3 Poles: Class 13b

Type GB Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	120 Vac Maximum, 125 Vdc Maximum ^①	240 Vac Maximum, 125/250 Vdc Maximum	240 Vac Maximum, 125/250 Vdc Maximum ^②
	1-Pole	2-Pole	3-Pole
Catalog Number			
15	GB1015 ^③	GB2015 ^③	GB3015 ^③
20	GB1020 ^③	GB2020 ^③	GB3020 ^③
25	GB1025	GB2025	GB3025
30	GB1030	GB2030	GB3030
35	GB1035	GB2035	GB3035
40	GB1040	GB2040	GB3040
45	GB1045	GB2045	GB3045
50	GB1050	GB2050	GB3050
60	GB1060	GB2060	GB3060
70	GB1070	GB2070	GB3070
80	GB1080	GB2080	GB3080
90	GB1090	GB2090	GB3090
100	GB1100	GB2100	GB3100

Type GHB Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units^④

Continuous Ampere Rating @ 40°C	277/480 Vac Maximum, 125 Vdc Maximum ^①	277/480 Vac Maximum, 125/250 Vdc Maximum	277/480 Vac Maximum, 125/250 Vdc Maximum ^②
	1-Pole	2-Pole	3-Pole
Catalog Number			
15	GHB1015 ^③	GHB2015 ^③	GHB3015 ^③
20	GHB1020 ^③	GHB2020 ^③	GHB3020 ^③
25	GHB1025	GHB2025	GHB3025
30	GHB1030	GHB2030	GHB3030
35	GHB1035	GHB2035	GHB3035
40	GHB1040	GHB2040	GHB3040
45	GHB1045	GHB2045	GHB3045
50	GHB1050	GHB2050	GHB3050
60	GHB1060	GHB2060	GHB3060
70	GHB1070	GHB2070	GHB3070
80	GHB1080	GHB2080	GHB3080
90	GHB1090	GHB2090	GHB3090
100	GHB1100	GHB2100	GHB3100

Instruction Leaflet/FRED Number 15547

Type GHBGFEP Bolt-on Panelboard 30mA Industrial Ground Fault Circuit Protectors

15-60 Amperes, 277 Volt, 50/60 Hz

Single Phase
(Requires 2 Poles)

These circuit breakers meet the requirements of UL489 and UL1053.

Operational voltage 240V to 305V.

Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes)
		277 Volts Ac (50/60 Hz)
GHBGFEP	2	14,000

Type GHBGFEP Bolt-on Panelboard 30mA Industrial Ground Fault Circuit Protectors with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	One Phase (Requires 2 Poles) 277V, 30mA
	Catalog Number
15	GHBGFEP1015
20	GHBGFEP1020
30	GHBGFEP1030
40	GHBGFEP1040
50	GHBGFEP1050
60	GHBGFEP1060

Instruction Leaflet/FRED Number 29C193

- ① 15 through 70 ampere circuit breakers only.
 ② Use (2) outside poles.
 ③ Uses .190-32 screw type clamp terminals.
 ④ 480Y/277V, circuit breakers (Type GHB) not suitable for 3-phase Delta (480V).

Molded Case Circuit Breakers 15-100 Amperes

Cutler-Hammer

March 1999

Series C® G-Frame

Types GC and GHC Circuit Breakers

15-100 Amperes, 120, 240, 277, 480Y/277V, 50/60 Hz, 125, 125/250 Vdc, 1, 2, and 3 Poles



Typical GC

These breakers meet the requirements of Federal Specification W-C-37b as follows:

Types GC, 120 and 240 Volts:

- 1 Pole: Class 11a
- 2, 3 Poles: Classes 10b, 11b, 12b, 14b, 15b

Type GHC, 277 and 480Y/277 Volts:

- 1 Pole: Classes 12c, 13a
- 2, 3 Poles: Class 13b

Type GC Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	240 Vac Maximum, 125 Vdc Maximum ^①	240 Vac Maximum, 125/250 Vdc Maximum	240 Vac Maximum, 125/250 Vdc Maximum ^②
	1-Pole	2-Pole	3-Pole
Catalog Number			
15	GC1015 ^③	GC2015 ^③	GC3015 ^③
20	GC1020 ^③	GC2020 ^③	GC3020 ^③
25	GC1025	GC2025	GC3025
30	GC1030	GC2030	GC3030
35	GC1035	GC2035	GC3035
40	GC1040	GC2040	GC3040
45	GC1045	GC2045	GC3045
50	GC1050	GC2050	GC3050
60	GC1060	GC2060	GC3060
70	GC1070	GC2070	GC3070
80	GC1080	GC2080	GC3080
90	GC1090	GC2090	GC3090
100	GC1100	GC2100	GC3100

Type GHC Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	277 Vac Maximum, 125 Vdc Maximum ^①	480Y/277 Vac Maximum, 125/250 Vdc Maximum	480Y/277 Vac Maximum, 125/250 Vdc Maximum ^②
	1-Pole	2-Pole	3-Pole
Catalog Number			
15	GHC1015 ^③	GHC2015 ^③	GHC3015 ^③
20	GHC1020 ^③	GHC2020 ^③	GHC3020 ^③
25	GHC1025	GHC2025	GHC3025
30	GHC1030	GHC2030	GHC3030
35	GHC1035	GHC2035	GHC3035
40	GHC1040	GHC2040	GHC3040
45	GHC1045	GHC2045	GHC3045
50	GHC1050	GHC2050	GHC3050
60	GHC1060	GHC2060	GHC3060
70	GHC1070	GHC2070	GHC3070
80	GHC1080	GHC2080	GHC3080
90	GHC1090	GHC2090	GHC3090
100	GHC1100	GHC2100	GHC3100

Instruction Leaflet/FRED Number 15548

Type GHCGFEP Cable In/Cable Out 30mA Industrial Ground Fault Circuit Protectors

15-60 Amperes, 277 Volt, 50/60 Hz

Single Phase
Requires 2 Poles

These circuit breakers meet the requirements of UL489 and UL1053.

Operational voltage 240V to 305V.

Interrupting Capacity Ratings

Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes)
		277 Volts Ac (50/60 Hz)
GHCGFEP	2	14,000

Type GHBGFEP Bolt-on Panelboard 30mA Industrial Ground Fault Circuit Protectors with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	One Phase (Requires 2 Poles) 277V, 30mA
	Catalog Number
15	GHBGFEP1015
20	GHBGFEP1020
30	GHBGFEP1030
40	GHBGFEP1040
50	GHBGFEP1050
60	GHBGFEP1060

Instruction Leaflet/FRED Number 29C193

① 15 through 70 ampere circuit breakers only.

② Use (2) outside poles.

③ Uses .190-32 screw type clamp terminals.

Series C® G-Frame

Special Purpose Breakers

These are Types GC and GHC circuit breakers with binding head screw-type terminals on line and load side. These circuit breakers with screw-type terminals (.190-32) will be

marked "Special purpose breaker not for general use." To order this special breaker, use the catalog number below.

Type GC Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	120 Vac Maximum, 125 Vdc Maximum	240 Vac Maximum, 125/250 Vdc Maximum	240 Vac Maximum, 125/250 Vdc Maximum ^①
	1-Pole	2-Pole	3-Pole
Catalog Number			
25	GC1025D	GC2025D	GC3025D
30	GC1030D	GC2030D	GC3030D
35	GC1035D	GC2035D	GC3035D
40	GC1040D	GC2040D	GC3040D
45	GC1045D	GC2045D	GC3045D
50	GC1050D	GC2050D	GC3050D
55	GC1055D	GC2055D	GC3055D
60	GC1060D	GC2060D	GC3060D

Type GHC Thermal-Magnetic Circuit Breakers with Non-Interchangeable Trip Units

Continuous Ampere Rating @ 40°C	277 Vac Maximum, 125 Vdc Maximum	480Y/277 Vac Maximum, 125/250 Vdc Maximum	480Y/277 Vac Maximum, 125/250 Vdc Maximum ^①
	1-Pole	2-Pole	3-Pole
Catalog Number			
25	GHC1025D	GHC2025D	GHC3025D
30	GHC1030D	GHC2030D	GHC3030D
35	GHC1035D	GHC2035D	GHC3035D
40	GHC1040D	GHC2040D	GHC3040D
45	GHC1045D	GHC2045D	GHC3045D
50	GHC1050D	GHC2050D	GHC3050D
55	GHC1055D	GHC2055D	GHC3055D
60	GHC1060D	GHC2060D	GHC3060D

Instruction Leaflet/FRED Number 15548

① Use (2) outside poles.

Series C® G-Frame

Dimensions/Weights

Dimensions, Inches (mm)

Number of Poles	Width	Height	Depth
1	1.0 (25.33)	4.88 (123.95)	2.81 (71.41)
2	2.0 (50.78)	4.88 (123.95)	2.81 (71.41)
3	3.0 (76)	4.88 (123.95)	2.81 (71.41)

Approximate Shipping Weight, Lbs. (kg)

Breaker Type	Number of Poles		
	1	2	3
GD	1.0 (.454)	1.5 (.680)	2.25 (1.021)
GHBGFEP	—	1.2 (.545)	—
GHCGFEP	—	1.1 (.499)	—
GB/GHC	Carton Quantity		
	24	12	8
	16 (7.264)	16 (7.264)	16 (7.264)
GC/GHC	Carton Quantity		
	24	12	8
	18 (8.172)	18 (8.172)	18 (8.172)

Accessories

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