

Series C® G-Frame

- 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 <sup>①②</sup>	
GD	3	–	65	–	22	–	10	26

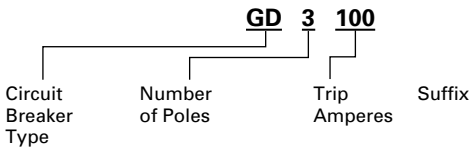
Circuit Breaker Type	Number of Poles	Interrupting Capacity (Symmetrical Amperes) (kA)						Page Number
		Volts Ac (50/60 Hz)				Volts Dc		
		120	240	277	480Y/277	125	125/250	
GB	1	65	–	–	–	14 <sup>③</sup>	–	27
	2, 3	–	65	–	–	–	14	27
GHB	1	65	–	14	–	14 <sup>③</sup>	–	27
	2, 3	–	65	–	14	–	14	27
GC	1	65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



GD	1: 1 Pole	15	K: Molded Case Switch
GB	2: 2 Pole	20	D: Ring Type Terminals
GHB	3: 3 Pole	24	C: Steel Collars
GC		30	V: 50°C
GHC		35	J01: Fungus Proofed
		40	R01: Shock Tested
		45	F01: Freeze Tested
		50	
		60	
		70	
		80	
		90	
		100	



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 <sup>④</sup> Range (mm <sup>2</sup> )
<b>Standard</b>					
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
<b>Optional</b>					
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**

**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 <sup>①</sup>	240 Vac Maximum, 125/250 Vdc Maximum	240 Vac Maximum, 125/250 Vdc Maximum <sup>②</sup>
	1-Pole	2-Pole	3-Pole
	Catalog Number		
15	GC1015 <sup>③</sup>	GC2015 <sup>③</sup>	GC3015 <sup>③</sup>
20	GC1020 <sup>③</sup>	GC2020 <sup>③</sup>	GC3020 <sup>③</sup>
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 <sup>①</sup>	480Y/277 Vac Maximum, 125/250 Vdc Maximum	480Y/277 Vac Maximum, 125/250 Vdc Maximum <sup>②</sup>
	1-Pole	2-Pole	3-Pole
	Catalog Number		
15	GHC1015 <sup>③</sup>	GHC2015 <sup>③</sup>	GHC3015 <sup>③</sup>
20	GHC1020 <sup>③</sup>	GHC2020 <sup>③</sup>	GHC3020 <sup>③</sup>
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

## 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

### Internal

Alarm Switch .....	139
Auxiliary Switch.....	142
Shunt Trip .....	147
Undervoltage Release Mechanism.....	153

### External

Base Mounting Hardware .....	163
Base Mounting Plate .....	167
DIN Rail Adapter .....	167
Key Operated Attachment.....	167
Lock Dog (non-padlockable)....	168
Padlockable Handle .....	168
Handle Mechanisms .....	180



# AB DE-ION Circuit Breakers

## Types GB, GHB, GC, GHC 15-100 Amperes, 2 and 3 Poles

