

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 ^{①②} | |
| GD | 3 | – | 65 | – | 22 | – | 10 | 26 |

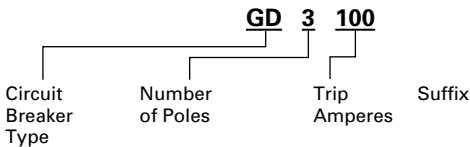
| Circuit Breaker Type | Number of Poles | Interrupting Capacity (Symmetrical Amperes) (kA) | | | | | | Page Number |
|----------------------|-----------------|--|---------|---------|----------|----------------------|---------|-------------|
| | | Volts Ac (50/60 Hz) | | | | Volts Dc | | |
| | | 120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

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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 |
| 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

