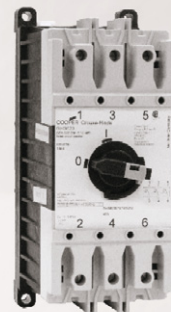
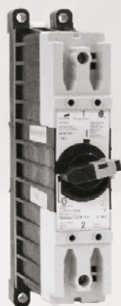


Power distribution & motor control  
GHG 623 circuit breakers

CROUSE-HINDS  
SERIES

# GHG 623

Tamperproof encapsulated circuit breakers



**EATON**

*Powering Business Worldwide*

# Maximum safety.

## GHG 623 tamper-proof encapsulated circuit breakers



Eaton's Crouse-Hinds GHG 623 tamper-proof encapsulated breakers provide maximum safety for your facility and feature the proven reliability of Eaton Cutler-Hammer breakers.

### Application

Provide overcurrent and short circuit protection for low voltage power, lighting and heat tracing applications in hazardous locations, such as refineries, chemical and petrochemical plants, mining, food processing, corrosive and industrial processing facilities.

### Technical data – Hazardous locations

|                                       |                                            |
|---------------------------------------|--------------------------------------------|
| <b>Certifications and compliances</b> | Class I, Division 2, Groups A, B, C, D     |
|                                       | Class I, Zone 1 & 2                        |
| <b>Ambient temperature range</b>      | IIC: -20°C to +55°C (GHG62-1/2/3/4...R...) |
|                                       | IIB: -45°C to +55°C (GHG62-1/2...R...)     |

### Electrical data

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Rated voltage (main contact)</b> | to 277/480 VAC, 60 Hz |
| <b>Rated current (main contact)</b> | 10A to 40A            |
| <b>Rated switch capacity</b>        | 10 kA                 |

### Mechanical data

| Terminal cross section     |             | Wire gauge | Stripping length |
|----------------------------|-------------|------------|------------------|
| <b>Current</b>             | 15A or less | AWG 14     | 11mm / 0.4"      |
|                            | 20A         | AWG 12     | 11mm / 0.4"      |
|                            | 25A         | AWG 10     | 11mm / 0.4"      |
|                            | 30A         | AWG 10     | 11mm / 0.4"      |
|                            | 40A         | AWG 8      | 11mm / 0.4"      |
| <b>Auxiliary terminals</b> |             | AWG 14     | 11mm / 0.4"      |
| <b>Enclosure material</b>  | Polyamide   |            |                  |

### Features and benefits

#### Lockout/tagout

- Allows for breaker to be locked in "OFF" position

#### Wire connection terminals

- Allows for single or dual conductor with pin plugs

#### Engineered air gap

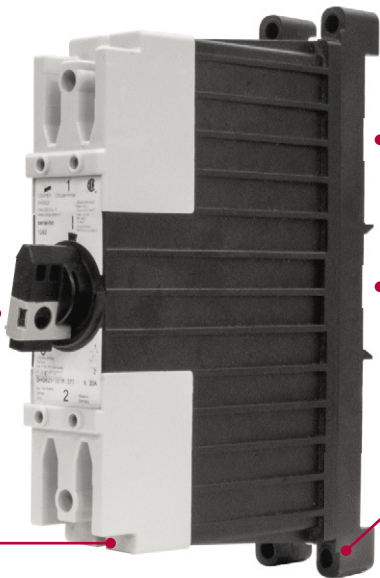
- Aids in temperature reduction and improves air flow

#### DIN rail mount

- Provides secondary mounting option

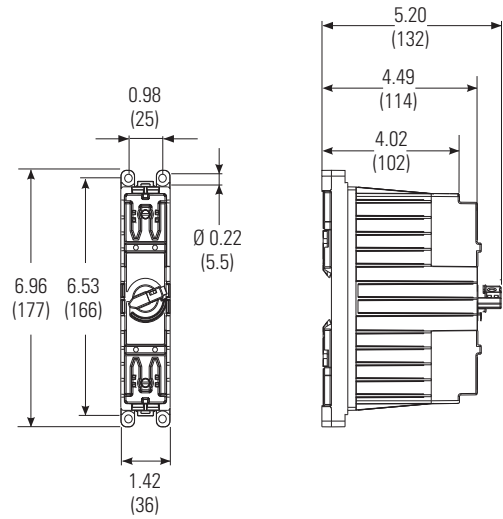
#### Mounting feet

- Easy access for mounting/removing breakers

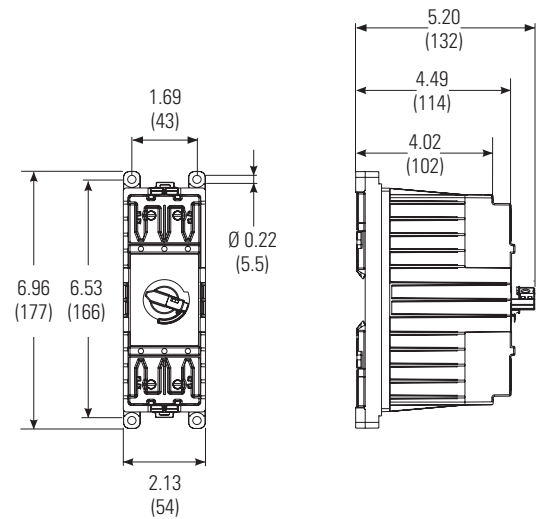


# Dimensions (inches)

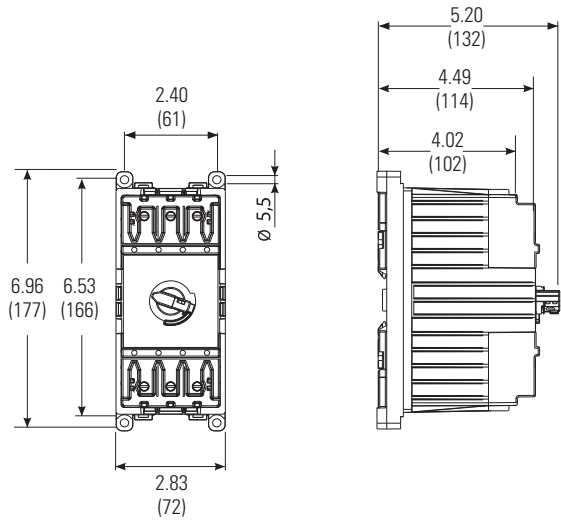
Size 1



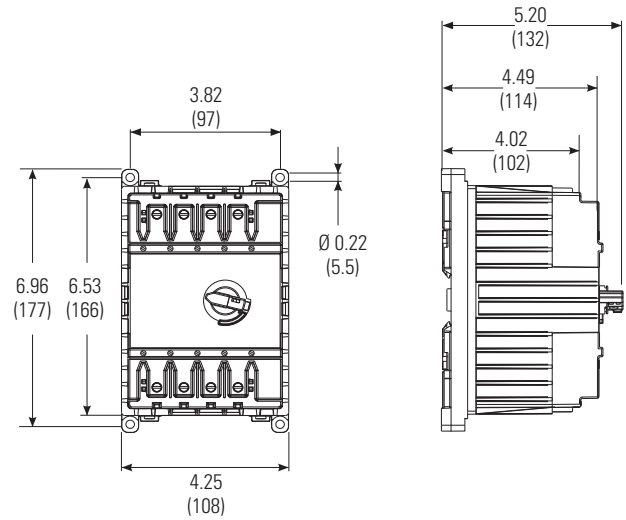
Size 2



Size 3



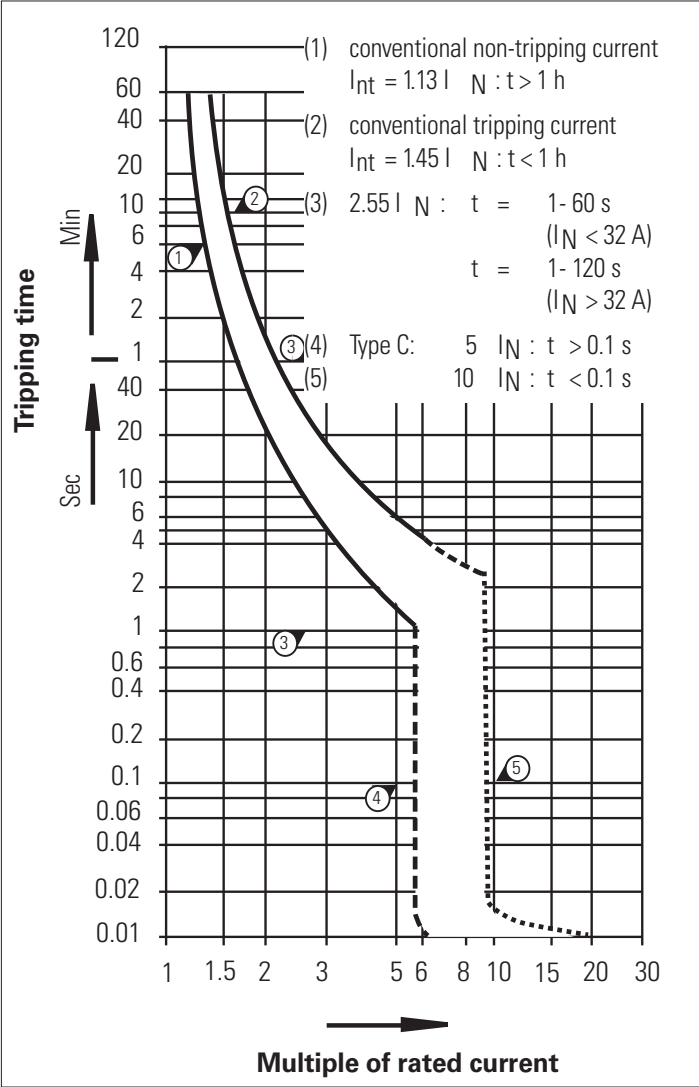
Size 4



# Tripping characteristics

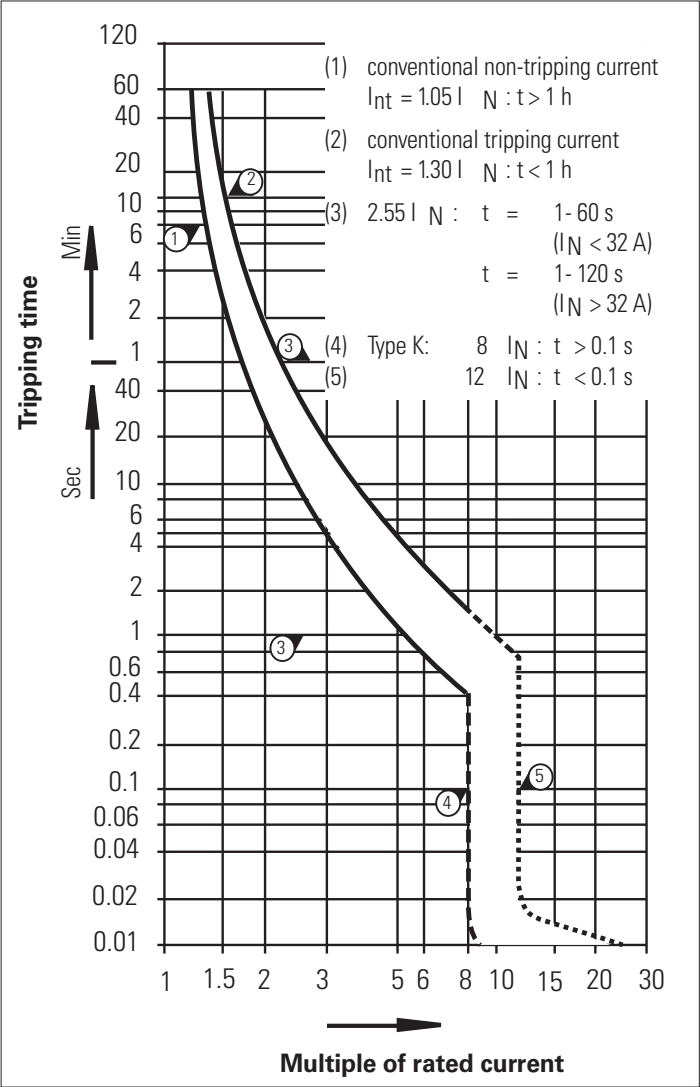
## C trip curve

Note: For part numbers ending in "R100\*" and "R101\*"



## K trip curve

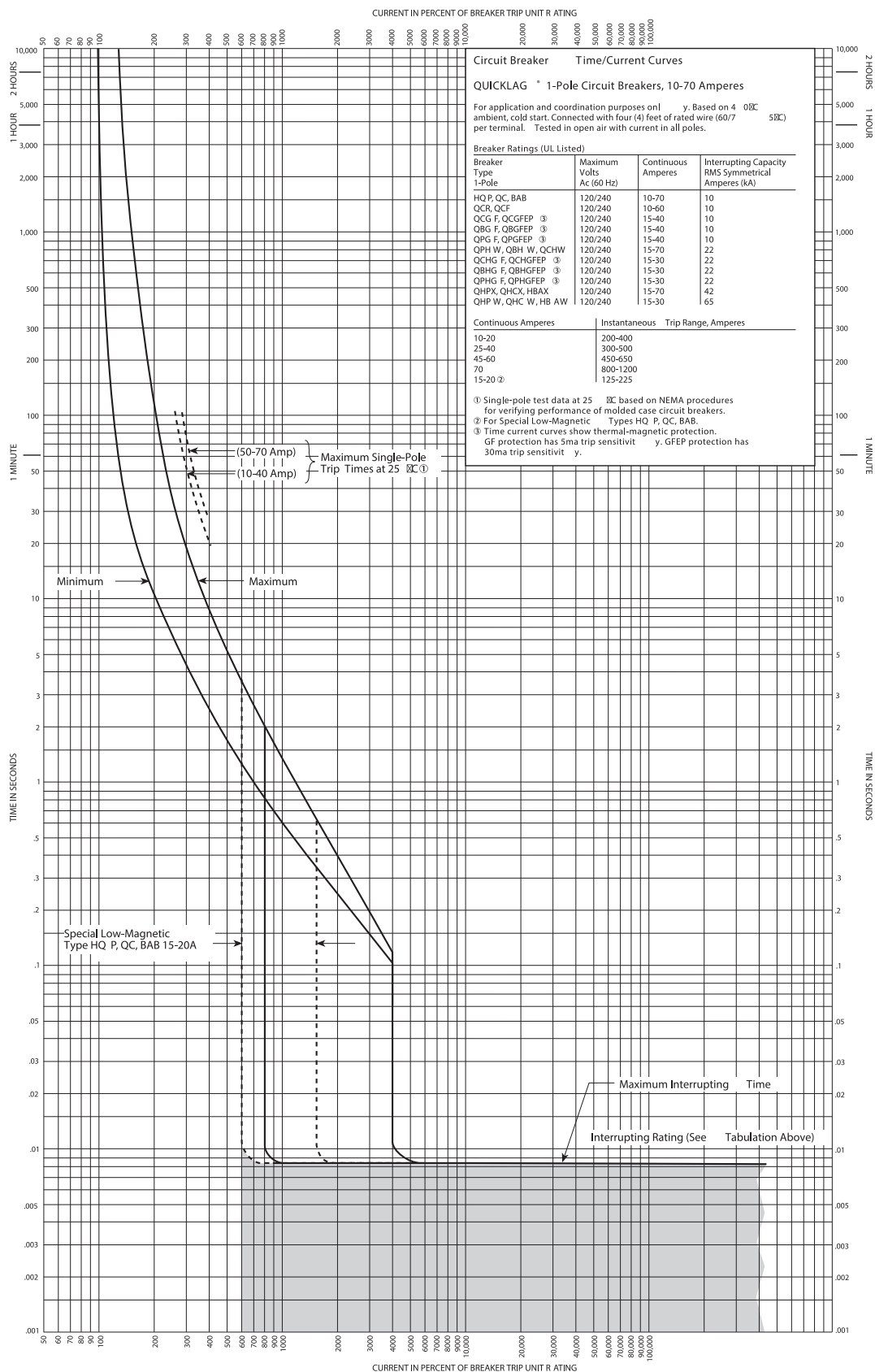
Note: For part numbers ending in "R027\*"



# Tripping characteristics

## GFI/EPD breakers

Note: For part numbers ending in "R000\*"





# Ordering information

## Standard encapsulated breakers

| Part number            | Description                       | Breaker size |
|------------------------|-----------------------------------|--------------|
| <b>GHG6231101R0273</b> | Encapsulated breaker, 1-pole, 10A | 1            |
| <b>GHG6231101R0275</b> | Encapsulated breaker, 1-pole, 15A | 1            |
| <b>GHG6231101R0277</b> | Encapsulated breaker, 1-pole, 20A | 1            |
| <b>GHG6231101R0278</b> | Encapsulated breaker, 1-pole, 25A | 1            |
| <b>GHG6231101R1007</b> | Encapsulated breaker, 1-pole, 30A | 1            |
| <b>GHG6231101R1009</b> | Encapsulated breaker, 1-pole, 35A | 1            |
| <b>GHG6231101R1010</b> | Encapsulated breaker, 1-pole, 40A | 1            |
| <b>GHG6232101R0273</b> | Encapsulated breaker, 2-pole, 10A | 1            |
| <b>GHG6232101R0275</b> | Encapsulated breaker, 2-pole, 15A | 2            |
| <b>GHG6232101R0277</b> | Encapsulated breaker, 2-pole, 20A | 2            |
| <b>GHG6232101R0278</b> | Encapsulated breaker, 2-pole, 25A | 2            |
| <b>GHG6232101R1007</b> | Encapsulated breaker, 2-pole, 30A | 2            |
| <b>GHG6232101R1009</b> | Encapsulated breaker, 2-pole, 35A | 2            |
| <b>GHG6232101R1010</b> | Encapsulated breaker, 2-pole, 40A | 2            |
| <b>GHG6233101R0273</b> | Encapsulated breaker, 3-pole, 10A | 3            |
| <b>GHG6233101R0275</b> | Encapsulated breaker, 3-pole, 15A | 3            |
| <b>GHG6233101R0277</b> | Encapsulated breaker, 3-pole, 20A | 3            |
| <b>GHG6233101R0278</b> | Encapsulated breaker, 3-pole, 25A | 3            |
| <b>GHG6233101R1007</b> | Encapsulated breaker, 3-pole, 30A | 3            |
| <b>GHG6233101R1009</b> | Encapsulated breaker, 3-pole, 35A | 3            |
| <b>GHG6233101R1010</b> | Encapsulated breaker, 3-pole, 40A | 3            |

## Encapsulated breakers with GFI/EPD

| Part number            | Description                           | Breaker size |
|------------------------|---------------------------------------|--------------|
| <b>GHG6252141R0001</b> | Encapsulated breaker, 1-pole, 15A GFI | 2            |
| <b>GHG6252141R0002</b> | Encapsulated breaker, 1-pole, 20A GFI | 2            |
| <b>GHG6252141R0003</b> | Encapsulated breaker, 1-pole, 30A GFI | 2            |
| <b>GHG6252141R0004</b> | Encapsulated breaker, 1-pole, 40A GFI | 2            |
| <b>GHG6252142R0001</b> | Encapsulated breaker, 1-pole, 15A EPD | 2            |
| <b>GHG6252142R0002</b> | Encapsulated breaker, 1-pole, 20A EPD | 2            |
| <b>GHG6252142R0003</b> | Encapsulated breaker, 1-pole, 30A EPD | 2            |
| <b>GHG6252142R0004</b> | Encapsulated breaker, 1-pole, 40A EPD | 2            |

## Encapsulated breakers with 1 NO and 1 NC auxiliary switch

| Part number            | Description                                                          | Breaker size |
|------------------------|----------------------------------------------------------------------|--------------|
| <b>GHG6233104R1001</b> | Encapsulated breaker, 2-pole, 10A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1003</b> | Encapsulated breaker, 2-pole, 15A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1005</b> | Encapsulated breaker, 2-pole, 20A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1006</b> | Encapsulated breaker, 2-pole, 25A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1007</b> | Encapsulated breaker, 2 pole, 30A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1009</b> | Encapsulated breaker, 2-pole, 35A with 1 NO + 1 NC, auxiliary switch | 3            |
| <b>GHG6233104R1010</b> | Encapsulated breaker, 2-pole, 40A with 1 NO + 1 NC, auxiliary switch | 3            |

## Encapsulated breakers with 1 C/O auxiliary switch

| Part number            | Description                                                   | Breaker size |
|------------------------|---------------------------------------------------------------|--------------|
| <b>GHG6232102R0273</b> | Encapsulated breaker, 1-pole, 10A with 1 C/O auxiliary switch | 2            |
| <b>GHG6232102R0275</b> | Encapsulated breaker, 1-pole, 15A with 1 C/O auxiliary switch | 2            |
| <b>GHG6232102R0277</b> | Encapsulated breaker, 1-pole, 20A with 1 C/O auxiliary switch | 2            |
| <b>GHG6232102R0278</b> | Encapsulated breaker, 1-pole, 25A with 1 C/O auxiliary switch | 2            |
| <b>GHG6233102R0273</b> | Encapsulated breaker, 2-pole, 10A with 1 C/O auxiliary switch | 3            |
| <b>GHG6233102R0275</b> | Encapsulated breaker, 2-pole, 15A with 1 C/O auxiliary switch | 3            |
| <b>GHG6233102R0277</b> | Encapsulated breaker, 2-pole, 20A with 1 C/O auxiliary switch | 3            |
| <b>GHG6233102R0278</b> | Encapsulated breaker, 2-pole, 25A with 1 C/O auxiliary switch | 3            |
| <b>GHG6234104R0273</b> | Encapsulated breaker, 3-pole, 10A with 1 C/O auxiliary switch | 4            |
| <b>GHG6234104R0275</b> | Encapsulated breaker, 3-pole, 15A with 1 C/O auxiliary switch | 4            |
| <b>GHG6234104R0277</b> | Encapsulated breaker, 3-pole, 20A with 1 C/O auxiliary switch | 4            |
| <b>GHG6234104R0278</b> | Encapsulated breaker, 3-pole, 25A with 1 C/O auxiliary switch | 4            |

## Encapsulated breakers with 1 C/O signal

| Part number            | Description                                                 | Breaker size |
|------------------------|-------------------------------------------------------------|--------------|
| <b>GHG6232103R0273</b> | Encapsulated breaker, 1-pole, 10A with 1 C/O signal contact | 2            |
| <b>GHG6232103R0275</b> | Encapsulated breaker, 1-pole, 15A with 1 C/O signal contact | 2            |
| <b>GHG6232103R0277</b> | Encapsulated breaker, 1-pole, 20A with 1 C/O signal contact | 2            |
| <b>GHG6232103R0278</b> | Encapsulated breaker, 1-pole, 25A with 1 C/O signal contact | 2            |
| <b>GHG6233103R0273</b> | Encapsulated breaker, 2-pole, 10A with 1 C/O Signal contact | 3            |
| <b>GHG6233103R0275</b> | Encapsulated breaker, 2-pole, 15A with 1 C/O signal contact | 3            |
| <b>GHG6233103R0277</b> | Encapsulated breaker, 2 pole, 20A with 1 C/O signal contact | 3            |
| <b>GHG6233103R0278</b> | Encapsulated breaker, 2-pole, 25A with 1 C/O signal contact | 3            |
| <b>GHG6234105R0273</b> | Encapsulated breaker, 3-pole, 10A with 1 C/O signal contact | 4            |
| <b>GHG6234105R0275</b> | Encapsulated breaker, 3-pole, 15A with 1 C/O signal contact | 4            |
| <b>GHG6234105R0277</b> | Encapsulated breaker, 3-pole, 20A with 1 C/O signal contact | 4            |
| <b>GHG6234105R0278</b> | Encapsulated breaker, 3-pole, 25A with 1 C/O signal contact | 4            |

All breakers listed approved for 120V, 240V, 277V and 480V application except for GHG 625 GFI/EPD (120/240).

# De-rating tables

## GFI/EPD breakers

| In (amps) | Ambient temperature |      |      |      |      |      |
|-----------|---------------------|------|------|------|------|------|
|           | 0°C                 | 10°C | 20°C | 30°C | 40°C | 50°C |
| 10        | 13.0                | 12.6 | 11.8 | 11.0 | 10.0 | 9.0  |
| 15        | 19.5                | 18.9 | 17.7 | 16.5 | 15.0 | 13.5 |
| 20        | 26.0                | 25.2 | 23.6 | 22.0 | 20.0 | 18.0 |
| 25        | 30.0                | 29.3 | 28.0 | 27.0 | 25.0 | 24.3 |
| 30        | 36.0                | 35.1 | 33.6 | 32.4 | 30.0 | 29.1 |
| 35        | 42.0                | 41.0 | 39.2 | 37.8 | 35.0 | 34.0 |
| 40        | 48.0                | 46.8 | 44.8 | 43.2 | 40.0 | 38.8 |

## 277/480VAC breakers

| In (amps) | Ambient temperature |       |       |       |      |      |      |      |      |      |
|-----------|---------------------|-------|-------|-------|------|------|------|------|------|------|
|           | -40°C               | -30°C | -20°C | -10°C | 0°C  | 10°C | 20°C | 30°C | 40°C | 50°C |
| 10        | 13.2                | 12.7  | 12.2  | 11.7  | 11.2 | 10.6 | 10.0 | 9.4  | 8.7  | 7.9  |
| 15        | 21.2                | 20.4  | 19.6  | 18.8  | 17.9 | 17.0 | 16.0 | 15.0 | 13.9 | 12.6 |
| 20        | 26.5                | 25.5  | 24.5  | 23.5  | 22.4 | 21.2 | 20.0 | 18.7 | 17.3 | 15.8 |
| 25        | 33.1                | 31.9  | 30.6  | 29.3  | 28.0 | 26.5 | 25.0 | 23.4 | 21.7 | 19.8 |
| 30        | —                   | —     | 36.9  | 36.0  | 35.0 | 33.9 | 32.7 | 31.4 | 30.0 | 28.5 |
| 35        | —                   | —     | 44.0  | 42.6  | 41.2 | 39.7 | 38.2 | 36.6 | 35.0 | 33.3 |
| 40        | —                   | —     | 49.4  | 48.4  | 46.5 | 45.3 | 43.6 | 41.9 | 40.0 | 38.0 |

**U.S. (global headquarters):  
Eaton's Crouse-Hinds business**

1201 Wolf Street  
Syracuse, NY 13208

(866) 764-5454  
FAX: (315) 477-5179  
FAX Orders Only:  
(866) 653-0640

[crousecustomerctr@eaton.com](mailto:crousecustomerctr@eaton.com)

**For more information:**

If further assistance is  
required, please contact  
an authorized Eaton  
Distributor, Sales Office,  
or Customer Service  
Department.

**Canada**

Toll Free: 800-265-0502  
FAX: (800) 263-9504  
FAX Orders only: (866) 653-0645

**Mexico/Latin America/Caribbean**

52-555-804-4000  
FAX: 52-555-804-4020  
[ventascentromex@eaton.com](mailto:ventascentromex@eaton.com)

**Europe (Germany)**

49 (0) 6271 806-500  
49 (0) 6271 806-476  
[sales.CCH.de@cooperindustries.com](mailto:sales.CCH.de@cooperindustries.com)

**Eaton Middle East**

9714-8066100  
FAX: 9714-8894813  
[chmesales@eaton.com](mailto:chmesales@eaton.com)

**Singapore**

65-6645-9888  
FAX: 65-6297-4819  
[chsi-sales@cooperindustries.com](mailto:chsi-sales@cooperindustries.com)

**China**

86-21-2899-3600  
FAX: 86-21-2899-4055  
[cchsales@cooperindustries.com](mailto:cchsales@cooperindustries.com)

**Korea**

82-2-3484-6783  
82-2-3484-6778  
[CCHK-sales@cooperindustries.com](mailto:CCHK-sales@cooperindustries.com)

**Australia**

61-2-8787-2777  
FAX: 61-2-9609-2342  
[CEASales@cooperindustries.com](mailto:CEASales@cooperindustries.com)

**India**

91-124-4683888  
FAX: 91-124-4683899  
[cchindia@eaton.com](mailto:cchindia@eaton.com)

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
[Eaton.com](http://Eaton.com)

© 2016 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. 5309-0816  
August 2016

Eaton is a registered trademark.

All other trademarks are property  
of their respective owners.