Introducing the Series G® 2500A R-Frame 310+ breaker, featuring zone selective interlocking (ZSI), cause of trip, ground fault alarm (no trip) and Arcflash Reduction Maintenance System™. The breaker is NEMA®, UL®, CSA® and IEC listed with electronic trip unit.

Benefits of the R-Frame 310+ breaker

- No DIP switches or rating plugs needed. The 310+ has adjustable trip settings integral to the electronic trip unit.
- Remote Arcflash Reduction Maintenance System is an available feature. This feature increases worker safety by providing an accelerated instantaneous trip to reduce arc flash potential.
- Ground fault alarm, no trip, is an option. In addition to offering ground fault and high load alarms, the 310+ allows for ground fault alarm, no trip. This is essential for critical applications that must stay online when a ground fault is present.
- ZSI is available. This feature enables the breaker to communicate with the immediate upstream or downstream ZSI-enabled breakers to clear faults in the shortest amount of time using the breaker closest to the fault.
- Available for aftermarket replacement of any R-Frame with 310, 510 and 610 trip units when zone selective interlocking, cause of trip, ground fault alarm only or Arcflash Reduction Maintenance System is needed.

A full range of world-class accessories

- Uses the same internal accessories as the standard R-Frame, from auxiliary switches to undervoltage relays.
- Choose from a range of external accessories, including handle lock-offs, flex shafts, plug-in adapters and drawout cassettes.
- In addition to integrated cause of trip, the RG 310+ built-in test port allows compatibility with Eaton’s ammeter/cause of trip display, panelmount ammeter/cause of trip display and cause of trip LED module.

Zone selective interlocking

Zone selective interlocking uses a communication scheme to connect line and load breaker trip units together. When a fault occurs, the trip units communicate to determine which load-side breaker is closest to the fault. The trip unit in the breaker closest to the fault overrides any customer-defined delay and opens instantaneously, clearing the fault and allowing line-side breakers to remain closed.

Arcflash Reduction Maintenance System

This system uses a separate analog trip circuit that provides faster interruption times than the standard digital instantaneous protection. Work locations downstream of a circuit breaker with an Arcflash Reduction Maintenance System unit will have a significantly lower incident energy level.
RGH and RGC Rating and Ampere Range

Breaker type | RGH | RGC
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Short-circuit current ratings (kA rms) AC 50–60 Hz
NEMA UL 489 240 Vac | 100 | 200
480 Vac | 65 | 100
600 Vac | 35 | 50

Number of poles | 3, 4 | 3, 4
Adjustable long-time pickup CSA 22.2 No. 5 | 1600A | A = 800, B = 900, C = 1000, D = 1100, E = 1200, F = 1400, G = 1500, H = 1600
2000A | A = 1000, B = 1200, C = 1400, D = 1600, E = 1700, F = 1800, G = 1900, H = 2000
2500A | A = 1600, B = 1700, C = 1800, D = 2000, E = 2100, F = 2200, G = 2400, H = 2500

Electronic rms LS, LSI, LSG, LSIG, ALSI, ALSIG

Dimensions in inches (mm)
- Three-pole
  - H | 16.00 (406.4)
  - W | 15.50 (393.7)
  - D | 9.00 (228.6)
- Four-pole
  - H | 16.00 (406.4)
  - W | 20.00 (508.0)
  - D | 9.00 (228.6)

Weight (approximate) lbs (kg)
- Three-pole | 103.0 (47.0)
- Four-pole | 118.4 (54.0)

Current Sensor for Ground Fault

Catalog Number | RGFCT160A | 800–1600
RGFCT200A | 1000–2000
RGFCT250A | 1600–2500

Suffix A = aluminum.

Cause of Trip Indication

Catalog Number | Description
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DIGIVIEW | Digiview ammeter with cause of trip indication
DIGIVIEWR06 | Panelmount Digiview with 6-foot wire harness
TRIP-LED | LED cause of trip indication

Breaker features
- UL 489, CSA C22.2 No. 5, IEC 60947-2
- Shunt trip
- Auxiliary switch
- Bell alarm
- Combination alarm/auxiliary switch
- Undervoltage release
- Handle mechanism
- Rear-connecting studs
- Drawout cassettes
- Lock-offs
- Interlocks
- Finger-safe shields and interphase barriers
- Electrical operator

For more information, please call 877-ETN-CARE (877-386-2273)