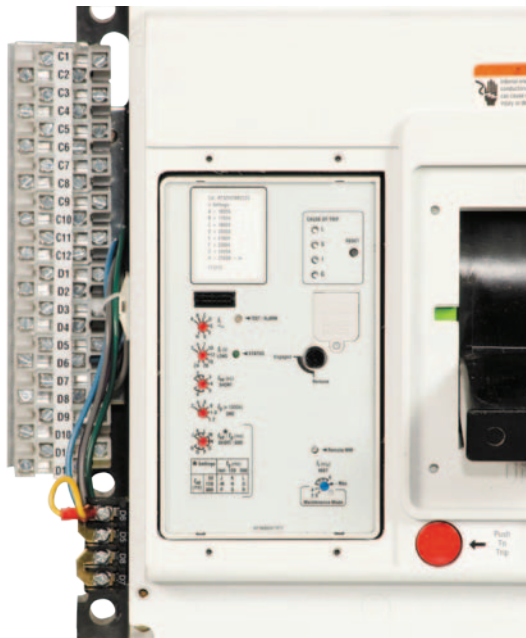


# Proven technology and performance with a full line of standard features



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.



Powering Business Worldwide

## RGH and RGC Rating and Ampere Range

Specification		Description	
Breaker type		RGH	RGC
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)		H	W D
	Three-pole	16.00 (406.4)	15.50 (393.7) 9.00 (228.6)
	Four-pole	16.00 (406.4)	20.00 (508.0) 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 ①	Breaker Ampere Range
RGFCT160A	800–1600
RGFCT200A	1000–2000
RGFCT250A	1600–2500

① Suffix A = aluminum.

## Cause of Trip Indication

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

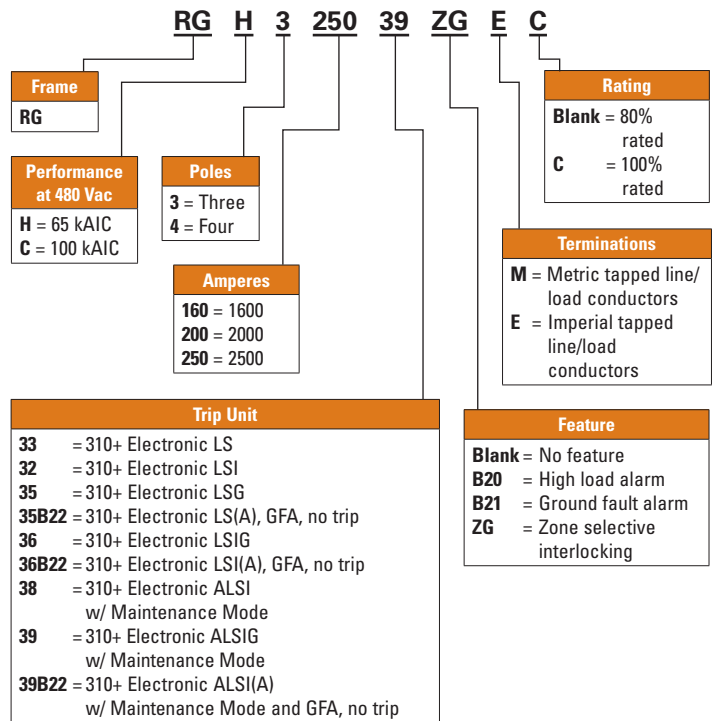
## Breaker features

- 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

## Trip unit features

- No rating plug required
- Available with LS, LSI, LSG, LSIG and Arcflash Reduction Maintenance System via ALSI, ALSIG
- Trip units are factory installed and are available in these ranges:
  - 800–1600A
  - 1000–2000A
  - 1600–2500A
- Time current curves referenced in document TC01210019E
- Adjustable long-time delay
- Adjustable short-time delay
- Adjustable instantaneous
- Status indicator and no trip test indicator LEDs
- Push-to-trip button
- Integral cause of trip
- Optional devices that interface with the test port
  - Test kit
  - Ammeter/cause of trip display (DIGIVIEW)
  - Panelmount ammeter/cause of trip display (DIGIVIEWR06)
  - Cause of trip LED module (TRIP-LED)

## Catalog Numbering System



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