Faster than Instantaneous arc flash protection

Reduced arc flash incident energy and enhanced peace of mind

Eaton’s enclosed circuit breakers equipped with Arcflash Reduction Maintenance System™ technology can improve safety by providing a simple and reliable method to reduce fault clearing time.

Faster clearing time means less arc energy. Less arc energy exposure means improved worker safety.

Arcflash Reduction Maintenance System is designed for use only during the time a worker is exposed to a potential flash hazard; it is not activated or armed continuously. This feature provides the ability to maintain overcurrent coordination while improving arc flash safety when compared to solutions relying on permanently installed instantaneous trip settings.

The enclosed circuit breaker with Arcflash Reduction Maintenance System is a fully factory wired assembly, including an electronic trip circuit breaker, cover controls and other components that allow a customer to activate the Arcflash Reduction Maintenance System technology during maintenance. This maintenance mode is enabled by a simple lockable switch that can be incorporated into a lockout/tagout (LOTO) procedure.

The resulting reduction in incident energy levels can help reduce levels of required personal protection equipment (PPE), offering an improvement to worker comfort, mobility and productivity.

Features and benefits

- **NEC® 240.87 compliant**
- NEMA® Type 1, 3R, 12, 4, 4X enclosures
- Additional control relay included to allow users to enable Arcflash Reduction Maintenance System via a remote input signal
- Cover controls, including padlockable selector switch for Arcflash Reduction Maintenance System enabling and blue LED indication light
- Neutral and CT sensor assembly
- Assembly is fully factory wired and ready to go out of the box
- 48 W power supply
- Digitrip™ 310+ trip unit with ALSI protection
- Three-position handle (ON/Tripped/OFF)
- Padlockable in the OFF position
- 100 VA CPT
- Padlockable enclosure

MODIFICATIONS

Additions are available such as custom paint, 316-stainless enclosures, lock-on provisions, and more. Call the Flex Center at 1-888-329-9272 for more information.
**Catalog numbering system**

- **Enclosed circuit breaker with Arcflash Reduction Maintenance System**
  - AR

- **Ampere/frame\**
  - 1 = 125 A, KD frame
  - 2 = 250 A, KD frame
  - 3 = 400 A, KD frame
  - 4 = 600 A, LG frame
  - 5 = 800 A, NG frame
  - 6 = 1200 A, NG frame

- **Trip unit\**
  - A = ALS1
  - B = ALSIG

- **Neutral\**
  - N = With neutral
  - D = No neutral

- **CPT voltage\**
  - 1 = 480 V
  - 2 = 208 V
  - 3 = 240 V
  - 4 = 600 V

- **Terminal**
  - L1 = (1) 3–350, K frame
  - L2 = (2) 2/0–250 or (1) 2/0–500, K frame
  - L3 = (1) 500–750, K frame
  - L4 = (2) 2–500, L frame
  - L5 = (3) 3/0–400 800 A, N frame
  - L6 = (4) 4/0–500 800 A / 1200 A, N frame
  - L7 = (3) 500–750 800 A / 1200 A, N frame

- **kAIC performance at 480 V\**
  - S = Standard (35/50)
  - H = High (65)

**Options/modifications**

- 00A1 = 1NO/1NC auxiliary
- 00A2 = 2NO/2NC auxiliary
- 00S1 = 120 V shunt
- 00S2 = 24 V shunt
- A1S1 = 1NO/1NC auxiliary, 120 V shunt
- 0316 = 316 stainless steel
- WHIT = Painted white
- ORNG = Painted orange
- 0B20 = High load alarm relay
- 0BZG = Zone selective interlocking
- 0B21 = GF alarm relay, breaker trips
- 0B22 = GF alarm relay, breaker no trip
- 316W = 316 stainless steel painted white
- 00LO = Lock on

**Certifications**

- UL®
- cUL®
- NEC

**Technical specifications**

**Dimensions**

<table>
<thead>
<tr>
<th>Breaker frame</th>
<th>Maximum amperage</th>
<th>Height (H)</th>
<th>Width (W)</th>
<th>Depth (D1)</th>
<th>Depth (D2)</th>
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<tbody>
<tr>
<td>KD</td>
<td>400</td>
<td>53.63 (1362.2)</td>
<td>26.48 (672.6)</td>
<td>12.69 (322.3)</td>
<td>7.54 (191.5)</td>
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<td>1200</td>
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<td>29.63 (752.6)</td>
<td>18.99 (482.3)</td>
<td>13.87 (352.3)</td>
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<td>K 100%</td>
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**Short-circuit ratings**

<table>
<thead>
<tr>
<th>Breaker frame</th>
<th>kAIC ratings</th>
<th>Catalog numbers</th>
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<tbody>
<tr>
<td></td>
<td>240 V</td>
<td>480 V</td>
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<tr>
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*Contact the Switching Device Flex Center at 1-888-329-9272 or FlexSwitches@eaton.com for availability of this product.*