Enhance safety and improve equipment performance with shunt trip and ground fault technology

Product description
The shunt trip technology enhances safety by providing a means to open a safety switch electronically. When using an emergency stop, safety interlock or similar means, the remote operation capability of the shunt trip switch no longer requires personnel to manually open the switch with the handle, enhancing safety and improving productivity.

The shunt trip safety switch can be configured to meet the needs of safety applications in industrial and commercial environments. The switches can be signaled to electronically operate the trip mechanism and interrupt the flow of power when a defined electrical condition is detected via protection relay (for example, ground fault, undervoltage, blown fuse shutdown).

The shunt trip safety switch builds on Eaton's extensive portfolio of safety switch solutions, incorporating a side-handle operation mechanism and visible blade indication that have decades of successful installation and operation.

Product ratings
• UL® 98 file number E5239 (600 Vac maximum)
• CSA® C22.2 No. 4, file number LL69743 (600 Vac maximum)
• Enclosure ratings: NEMA® 12/3R/1, 4 (painted steel), 4X (stainless steel)
• 30–1200 A (240–600 Vac)
• Horsepower ratings are the same as Eaton's standard heavy-duty safety switches
• Fusible devices have short-circuit ratings of up to 200 kAIC

Application examples
• E-stop
• Safety interlocking
• Machinery OEM interlocking
• Remote opening (distant from switch)
• Cost-effective solution for high-interrupt applications
• Ground fault
• Phase reversal / phase loss
• Blown fuse shutdown
• Undervoltage release

Key features
• Variety of coil voltages available
• Visible means of disconnect
• Standard heavy-duty safety switch design with integrated shunt trip module
• Passes Class 1 ground fault testing (1200% opening)
• Integral ground fault available for 480 Vac service entrance applications

Product options
Flex Center modifications available, such as viewing windows, pilot lights and more.

Eaton's tried and true heavy-duty safety switch line expands to include shunt trip capability—remote switching and visible means of disconnect for commercial and industrial applications.
Shunt trip safety switch—240 Vac and 600 Vac—dimensions and ratings

<table>
<thead>
<tr>
<th>Ampere rating</th>
<th>Fuse class</th>
<th>Number of poles</th>
<th>Enclosure dimensions Φ, exterior in inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Height (H)</td>
</tr>
<tr>
<td>Fusible</td>
<td></td>
<td></td>
<td>200 #6–300 kcmil Cu/Al</td>
</tr>
<tr>
<td>30</td>
<td>H</td>
<td>2, 3 or 4</td>
<td>21.58 (548.1)</td>
</tr>
<tr>
<td>60</td>
<td>H</td>
<td>2, 3 or 4</td>
<td>21.58 (548.1)</td>
</tr>
<tr>
<td>100</td>
<td>H</td>
<td>2, 3 or 4</td>
<td>24.95 (633.7)</td>
</tr>
<tr>
<td>200</td>
<td>H</td>
<td>2, 3 or 4</td>
<td>35.38 (888.7)</td>
</tr>
<tr>
<td>400</td>
<td>H</td>
<td>2, 3 or 4</td>
<td>57.47 (1459.7)</td>
</tr>
<tr>
<td>600</td>
<td>H</td>
<td>2, 3</td>
<td>62.97 (1599.4)</td>
</tr>
<tr>
<td>800</td>
<td>L</td>
<td>2, 3</td>
<td>71.72 (1821.7)</td>
</tr>
<tr>
<td>1200</td>
<td>L</td>
<td>2, 3</td>
<td>72.50 (1841.5)</td>
</tr>
</tbody>
</table>

Non-fusible

<table>
<thead>
<tr>
<th>Ampere rating</th>
<th>Number of poles</th>
<th>Enclosure dimensions Φ, exterior in inches (mm)</th>
</tr>
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<tr>
<td></td>
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<tr>
<td>1200</td>
<td>L</td>
<td>72.50 (1841.5)</td>
</tr>
</tbody>
</table>

Maximum system voltage

- Four-pole devices are wider than dimension for 30, 60 and 100 A devices. Consult factory for details.

Terminal/lug wire range

<table>
<thead>
<tr>
<th>Ampere rating</th>
<th>Minimum—maximum Wire type</th>
<th>Ampere rating</th>
<th>Minimum—maximum</th>
<th>Wire type</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>#14–#2</td>
<td>Cu/Al</td>
<td>400</td>
<td>(2) 1/0–300 kcmil or (1) 1/0–750 kcmil</td>
</tr>
<tr>
<td>60</td>
<td>#14–#2</td>
<td>Cu/Al</td>
<td>600</td>
<td>(1) #2–600 kcmil and (1) 1/0–750 kcmil</td>
</tr>
<tr>
<td>100</td>
<td>#14–1/0</td>
<td>Cu/Al</td>
<td>800</td>
<td>(4) 1/0–750 kcmil</td>
</tr>
<tr>
<td>200</td>
<td>#6–300 kcmil</td>
<td>Cu/Al</td>
<td>1200</td>
<td>(4) 1/0–750 kcmil</td>
</tr>
</tbody>
</table>

Additional options/modifications

- Available for 400–1200 A fusible switches only.
- Only one relay option allowed.
- Relay viewing window standard with relay option.

Auxiliary switch

- Blank = No auxiliary switches
- 1 = 1NO/1NC alarm switch only
- 2 = 1NO/1NC auxiliary contact only
- 3 = 2NO/2NC auxiliary contacts only
- 4 = 1NO/1NC auxiliary contact and 1NO/1NC alarm switch
- 5 = 2NO/2NC auxiliary contacts and 1NO/1NC alarm switch

Shunt trip coil voltage

- 1 = 24 Vac
- 2 = 48 Vac
- 3 = 120 Vac
- 5 = 80 Vac
- 7 = 48 Vac
- 4 = 240 Vac
- 8 = 125 Vac

Protection

- F = Fusible without neutral
- U = Non-fusible
- N = Fusible with neutral

CPT voltage

- 0 = No CPT
- 1 = 480 Vac
- 2 = 208 Vac
- 3 = 240 Vac
- 4 = 600 Vac

Type of Protective Relay

- 0 = No relay
- B = Ground fault relay

Type of Protective Relay

- CL = Copper lugs
- CP = Control pole
- OJ = Factory-converted provisions for Class J fusing
- ON = Factory-installed neutral for non-fused switch
- OT = Factory-converted provisions for Class T fusing
- 0W = Viewing window over switch blades

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Published in USA
Publication No. PA008004EN / Z22745
August 2019

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