It’s what’s on the inside that counts

Reliable, cost-effective surge protection

Eaton’s Switching Device product line includes heavy-duty safety switches with integrated surge protective devices (SPD)—Eaton’s own SP1 and CVX series. Integral to the switch, an SPD provides significantly better performance compared to a device that is externally mounted, resulting in better protection for your connected equipment.

Traditionally, contractors and end-users were faced with challenges when connecting an SPD to a safety switch—mainly concerning additional lug openings on the switch. The SPD leads were often terminated in the same opening as a power conductor, thus voiding the switch’s UL® listing. Eaton’s new packaged solution solves this problem by making the connection at the factory, resulting in a completely wired, UL-listed solution.

This line of heavy-duty switches with integrated surge protection is applicable in light commercial, commercial and industrial markets—providing superior protection at the service entrance and/or branch circuit level.

**Note:** For specific information on Eaton’s SP1 and CVX surge protective devices, refer to product aids PA01005006E and PA01005002E.

### Features

UL certifications:
- UL 98, file no. E5239

- **Integral SPD wired to load side of switch, and can be isolated from line-side power should the SPD require replacing**

- **Eaton Type SP1 and CVX surge devices available**
  - Type SP1 devices have peak surge currents of 50 kA per phase. Type CVX devices have peak surge currents of 50 kA (CVX050) and 100 kA (CVX100).
  - Integrated SPD available in heavy-duty safety switches ranging from 30 A to 1200 A

- **External window provides clear path to view the enhanced visible blade switching base**

- **External window to enable viewing of LEDs on SPD for quick status indication**

- **NEMA® Type 12/3R and 4/4X enclosures available**

- **Enhanced visible blade components provide increased visibility over each pole, allowing users to clearly see the trailing edge of the blade**

### Modifications

As with all Eaton safety switches, modifications are available such as custom paint, 316-stainless enclosures, cover control and more. Call the Flex Center at **1-888-329-9272** for more information.
**Technical specifications**

- **Ampere rating**
  - 30 A
  - 60 A
  - 100 A
  - 200 A
  - 400 A
  - 600 A
  - 800 A
  - 1200 A

- **Height (H)**
  - 30 A: 25.02 (635.5) mm
  - 60 A: 25.02 (635.5) mm
  - 100 A: 25.02 (635.5) mm
  - 200 A: 35.37 (898.4) mm
  - 400 A: 57.47 (1459.7) mm
  - 600 A: 62.97 (1599.4) mm
  - 800 A: 71.72 (1821.7) mm
  - 1200 A: 73.77 (1873.8) mm

- **Width (W)**
  - 30 A: 15.00 (381.0) mm
  - 60 A: 15.00 (381.0) mm
  - 100 A: 15.00 (381.0) mm
  - 200 A: 20.44 (519.2) mm
  - 400 A: 23.30 (591.8) mm
  - 600 A: 24.30 (617.2) mm
  - 800 A: 25.55 (649.0) mm
  - 1200 A: 43.12 (1095.0) mm

- **Depth (D1)**
  - 30 A: 10.31 (261.9) mm
  - 60 A: 10.31 (261.9) mm
  - 100 A: 10.31 (261.9) mm
  - 200 A: 11.66 (296.2) mm
  - 400 A: 12.45 (316.2) mm
  - 600 A: 14.08 (357.6) mm
  - 800 A: 14.08 (357.6) mm
  - 1200 A: 19.20 (487.7) mm

- **Depth (D2)**
  - 30 A: 5.62 (142.7) mm
  - 60 A: 5.62 (142.7) mm
  - 100 A: 5.62 (142.7) mm
  - 200 A: 6.48 (164.6) mm
  - 400 A: 7.36 (186.9) mm
  - 600 A: 8.98 (228.1) mm
  - 800 A: 8.98 (228.1) mm
  - 1200 A: 12.46 (316.5) mm

- **Voltage**
  - 2 = 240 Vac
  - 6 = 600 Vac

- **Poles/blades**
  - 2 = Two-pole
  - 3 = Three-pole

- **Switch type**
  - DH = Heavy-duty safety switch

- **Fusible/non-fusible or neutral**
  - F = Fusible without neutral
  - N = Fusible with neutral
  - U = Non-fusible without neutral

- **Series**
  - K = K switch

- **NEMA enclosure**
  - D = NEMA 12/3R
  - W = NEMA 4X

- **Non-fusible neutral**
  - Blank = Fusible, or non-fusible without neutral
  - N = Non-fusible with neutral

- **Window**
  - W = Viewing windows

- **Dimensions in inches (mm)**

- **Standard lug capacities**

- **Learn more at Eaton.com/surgeswitches**