EATON | Cutler-Hammer

Heavy-Duty Safety Switch with Bussmann® CUBEFuse™ Fuse Clips

Product Focus

Introduction

Utilizing Bussmann CUBEFuse fuse clips and larger line side shielding, the new Heavy-Duty Safety Switch with CUBEFuse provisions provides customers an enhanced finger-safe switch with virtually no exposed live parts — even with the door open. This increased protection helps to address a concern that is on many users' minds — arc flash safety. By minimizing the potential of accidental contact with live components, this new offering protects personnel from possible harm.

Unlike standard fuses that have exposed ferrules, Bussmann's CUBEFuse is a stab-in fuse with connection points on the back of the fuse. This design eliminates the possibility of contacting an energized part of the fuse when the switch door is opened, and the switch is in the ON position. Additionally, the new, larger line shield provides better protection against accidental contact with the safety switch line terminals — that may remain energized even when the switch handle is in the OFF position.

The CUBEFuse is a dual-element, time-delay fuse with Class J Current-Limiting performance. CUBEFuses are 600-volt class with a minimum time delay of 10 seconds at 500% of current. This longer delay reduces the number of nuisance blown fuses caused by temporary overloads and transient surges, making the CUBEFuse ideal for motor circuits.

CUBEFuses are available from 1 – 100 amperes and have standard, built-in blown-fuse indicators to allow operators to ascertain quickly which fuse has opened. This feature provides real value, particularly when employed in a safety switch with viewing window.

The Heavy-Duty Safety Switch with CUBEFuse is available in 30, 60 and 100 ampere ratings and in five different enclosures including NEMA® 1, 3R, 12, 4X (stainless) and 4X Halyester™.

The NEMA 12 and 4X (stainless) are available with a window option, providing increased visibility to the blown fuse indicator, and the NEMA 4X Halyester is available with the clear cover option providing the same functionality. Switches are rated 200 kAIC at 600 Vac throughout the entire product range.

Standard Features

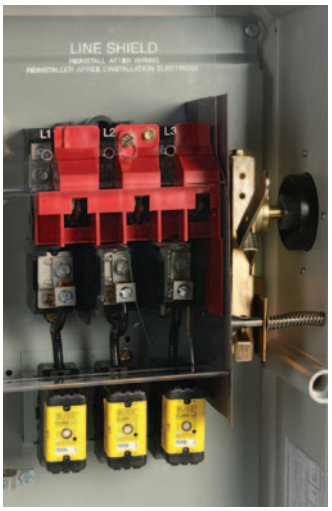
- Extended line terminal shield.
- "Finger-safe" 30-, 60- or 100-ampere Bussmann CUBEFuse fuse base.
- 200 kAIC interrupting rating, at 600 Vac.
- Visible double break quick-make, quick-break rotary blade K-Switch mechanism.
- Triple padlocking capability.
- Mechanically interlocked door.

Optional Features

- Viewing window for visible blades and blown fuse indication.
- NEMA 1, 3R, 12, 4X (stainless) and 4X Halyester enclosures.
- EnviroLine stainless steel mechanism.
- Factory-installed Flex Center options.

Standards and Ratings

- UL® 98 standard for enclosed deadfront switches.
- UL 50 standard for enclosures for electrical equipment.
- 600 Vac maximum.
- 30 – 100 amperes; 3-, 4- and 6-poles.



NEMA 1 CUBEFuse Safety Switch

Enhanced Line Shield

Halyester CUBEFuse Safety Switch with Clear Cover

Enhanced Line Shield and Interlock Defeater

CUBEFUSE SWITCH CATALOG NUMBERING SYSTEM

DH 3 6 1 F H K W X CB

Switch Type
DH = Heavy Duty

Poles
3 = 3-Pole
4 = 4-Pole
6 = 6-Pole

Voltage
6 = 600 Vac

Amperes
1 = 30 Amps
2 = 60 Amps
3 = 100 Amps

Fusible/Non-Fusible or Neutral
F = Fusible
N = Fusible with Neutral

Enclosure Type
G = NEMA 1
R = NEMA 3R
D = NEMA 12
W = NEMA 4X Stainless
H = Halyester with Opaque Cover
T = Halyester with Transparent Cover

Series
K = K Switch

Window
W = Window

Options
X = EnviroLine All Stainless Mechanism
Blank = Standard

Fuse Base
CB = CUBEFuse

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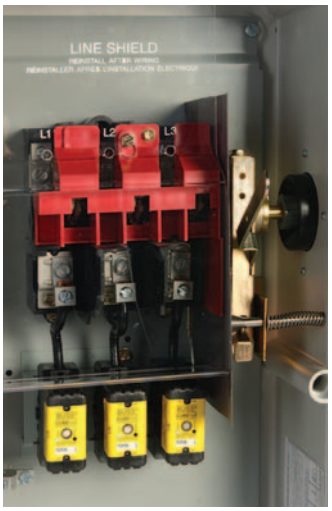

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