



Fast-acting protection with up to a 75% smaller footprint



Bussmann series fast-acting CUBEFuse delivers the smallest installed footprint of any Class CC, J, RK or T fuse.

Product description:

Eaton's Bussmann™ series fast-acting CUBEFuse™ delivers a faster response to damaging faults to help reduce destructive thermal and magnetic forces. It is ideally suited for UPS and other critical applications.

The industry's first finger-safe CUBEFuse is a Class CF fuse that provides the same electrical performance as a Class J fuse, but with a significantly smaller footprint.

Features and benefits:

- Fast-acting protection specifically for UPS and other critical applications.
- Finger-safe fuse minimizes exposure to live parts, reducing the likelihood of accidental contact with energized parts.
- Integral use with Compact Circuit Protector (cat. no. CCP2) or CUBEFuse holder to minimize panel space.
- Minimizes incident energy and reduces arc flash hazards utilizing Class J current-limiting electrical characteristics.
- Smallest footprint of any class fuse including Class CC, J, RK and T.

Complementary products:



CCP2_CF
1-, 2-, and 3-pole UL 98 disconnect switches



TCFH_N
30, 60, or 100 A holders



Compact Circuit Protector Base
1-, 2-, and 3-pole branch circuit disconnects (cat. no. CCP2B) for use with Quik-Spec™ Coordination Panelboard

Specifications

Catalog symbol:

- FCF_RN

Product benefits:

- Industry's first finger-safe power fuse system
- Smallest footprint of any class fuse including Class CC, J, RK and T
- Class CF meets Class J fast-acting electrical performance requirements
- Faster response to damaging faults to help reduce destructive thermal and magnetic forces
- True fast-acting fuse construction
- High interrupting rating to safely interrupt faults up to 300 kA
- No venting of arc or molten metal and gases during opening
- Low let-through currents under fault conditions

Fast-acting fuse:

- 4-minute maximum clearing time at 200% rated current for 1 to 30 A fuse
- 6-minute maximum clearing time at 200% rated current for 35 to 60 A fuse
- 8-minute maximum clearing time at 200% rated current for 70 to 100 A fuse

Ratings:

- Volts 600 Vac/dc*
- Amps 1 to 100 A
- Interrupting ratings
 - 300 kA RMS Sym. (up to 60 A UL®)
 - 200 kA RMS Sym. (CSA® and 70-100 A UL)
 - 50 kA DC (UL and CSA)

* 600 Vdc rating only applicable when used with the CUBEFuse holder (TCFH)

Agency information:

- UL Listed fuse: Guide JDDZ, File E4273
- CSA Certified, Class 1422-02, File 53787
- RoHS compliant
- CE

Other ratings/specifications:

- Watts loss at rated current
 - FCF15RN: 3.48 W
 - FCF30RN: 5.45 W
 - FCF60RN: 7.27 W
 - FCF100RN: 11.50 W
- Operating and storage temperature range -40°C to 80°C

Material specifications:

- Case glass filled PES (polyethersulfone) case
- Terminals copper alloy
- Terminal plating electroless tin

CUBEFuse catalog numbers, holders and disconnects

Catalog no. (amps)	Fits fuse holder			Fits CCP2_CF switch		
	TCFH30N	TCFH60N	TCFH100N	CCP2_30CF	CCP2_60CF	CCP2_100CF
FCF1RN	X	X	X	X	X	X
FCF3RN	X	X	X	X	X	X
FCF6RN	X	X	X	X	X	X
FCF10RN	X	X	X	X	X	X
FCF15RN	X	X	X	X	X	X
FCF20RN	X	X	X	X	X	X
FCF25RN	X	X	X	X	X	X
FCF30RN	X	X	X	X	X	X
FCF35RN		X	X		X	X
FCF40RN		X	X		X	X
FCF45RN		X	X		X	X
FCF50RN		X	X		X	X
FCF60RN		X	X		X	X
FCF70RN			X			X
FCF80RN			X			X
FCF90RN			X			X
FCF100RN			X			X

See data sheet no. 2147 (fuses), no. 9007 (holders) and no. 10801 (CCP2_CF) for additional information.



All 30, 60 and 100 A CUBEFuse holders can be dovetailed together for the required number of poles with the smallest fuse footprint possible for the amp rating.

See CUBEFuse holder data sheet no. 9007 for more information.



The DIN-Rail mounted 1-, 2-, and 3-pole CCP2_CF comes in 30, 60 and 100 A versions. The CCP2_CF is a compact, horsepower rated UL 98 disconnect that delivers the smallest footprint of any Class J solution, requiring up to 51% less space. Local, neon open fuse indication is standard (same as the CCP2B in the Quik-Spec Coordination Panelboard). 2- and 3-pole versions are ganged and all versions offer a lockout/tagout provision for added safety.

See data sheet no. 10801 for more information.



1-, 2-, and 3-pole CCP2B is an amp rating rejecting branch disconnect for the QSCP that uses the CUBEFuse up to 100 A.

See data sheet no. 1160 for more information.

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