Fast-acting UL Class CF CUBEFuse

RoHS 2011/65/EU



Catalog symbol

- FCF_RN

Description

The Bussmann™ series fast-acting CUBEFuse is a finger-safe, current-limiting UL Class CF branch circuit fuse. It features the smallest installed footprint of any UL Class CC, J, RK or T fuse.

Ratings

- Volts 600 Vac/dc
- Amps 1-100 A
- Interrupting rating
  - 300 kA RMS Sym (UL up to 60 A)
  - 200 kA (UL 70-100 A, CSA 1-100 A)
  - 50 kA DC

Agency information

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

Catalog Numbers (amp)			
FCF1RN	FCF20RN	FCF45RN	FCF90RN
FCF3RN	FCF25RN	FCF50RN	FCF100RN
FCF6RN	FCF30RN	FCF60RN	
FCF10RN	FCF35RN	FCF70RN	
FCF15RN	FCF40RN	FCF80RN	

Electrical characteristics

- 4 minutes max clearing time at 200% rated current for up to 30 A fuses
- 6 minutes max clearing time at 200% rated current for 35 to 60 A fuses
- 8 minutes max clearing time at 200% rated current for 70 to 100 A fuses

Watts loss at rated current:

Fuse amps	Watts
FCF15RN	3.48
FCF30RN	5.45
FCF60RN	7.27
FCF100RN	11.50

Operating and storage temperature range:

-40°C to 80°C

Materials

- Case: glass filled PES (Polyethersulfone)
- Terminals: electroless tin plated copper alloy

Features

- The world's first finger-safe power fuse system
- Smallest installed footprint of any Class CC, J, and RK fuse
- UL 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

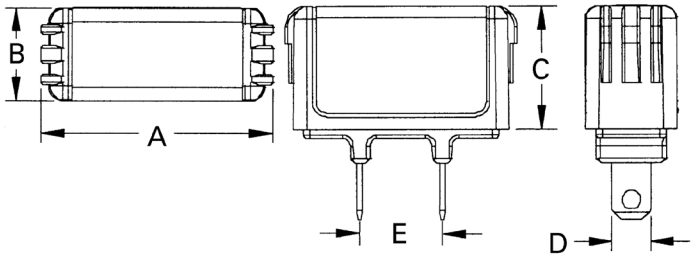
Carton quantity and weight

Amps	Qty.	Weight lbs (kg)
up to 30	12	1.39 (0.63)
35-60	12	1.42 (0.65)
70-100	6	1.74 (0.79)

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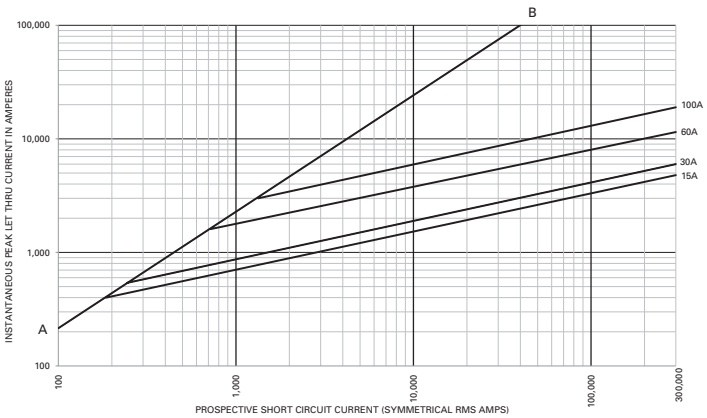
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Dimensions — in (mm)

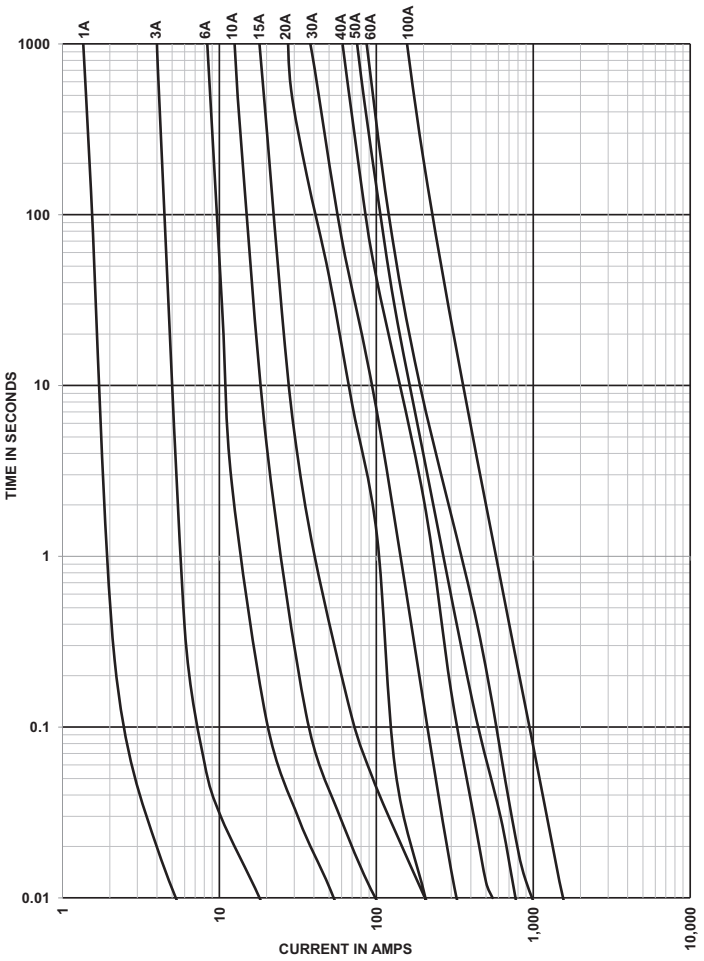


Amp range	A	B	C	D	E
1-15	1.88 (48)	0.75 (19)	1.0 (25)	0.23 (6)	0.67 (17)
20				0.27 (7)	
25-30				0.31 (8)	
35-40	2.13 (54)	1.0 (25)	1.13 (29)	0.36 (9)	
45-50				0.44 (11)	
60					
70	3.01 (76)		1.26 (32)	0.49 (12)	0.64 (16)
80-90					
100				0.57 (14)	

Current limitation curves



Time-current characteristic curves — average melt



CUBEFuse holders, disconnects and panelboards

The CUBEfuse is used in the following Bussmann series products.

Description	Catalog symbol	Data sheet no.
30, 60 and 100 A holders	TCFH_N	9007
1-, 2- and 3-pole UL 98 switch	CCP2_CF	10801
1-, 2, and 3-pole panelboard switch	CCP2B	1161

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Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Bussmann Division
114 Old State Road
Ellisville, MO 63021
United States
Eaton.com/bussmannseries

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