# 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

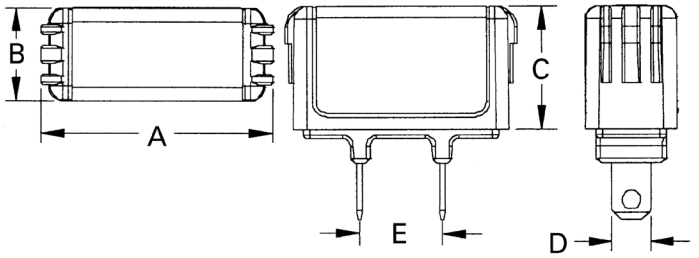
## Features

- 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

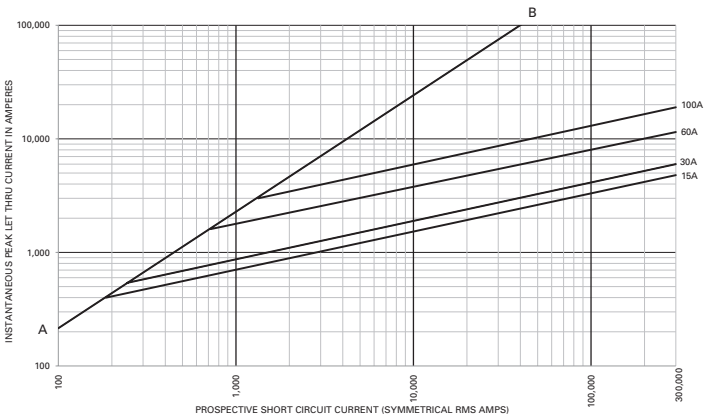
| Amps | Qty. | Weight lbs (kg) |
|---|---|---|
| up to 30 | 12 | 1.39 (0.63) |
| 35-60 | 12 | 1.42 (0.65) |
| 70-100 | 6 | 1.74 (0.79) |

## Dimensions — in (mm)

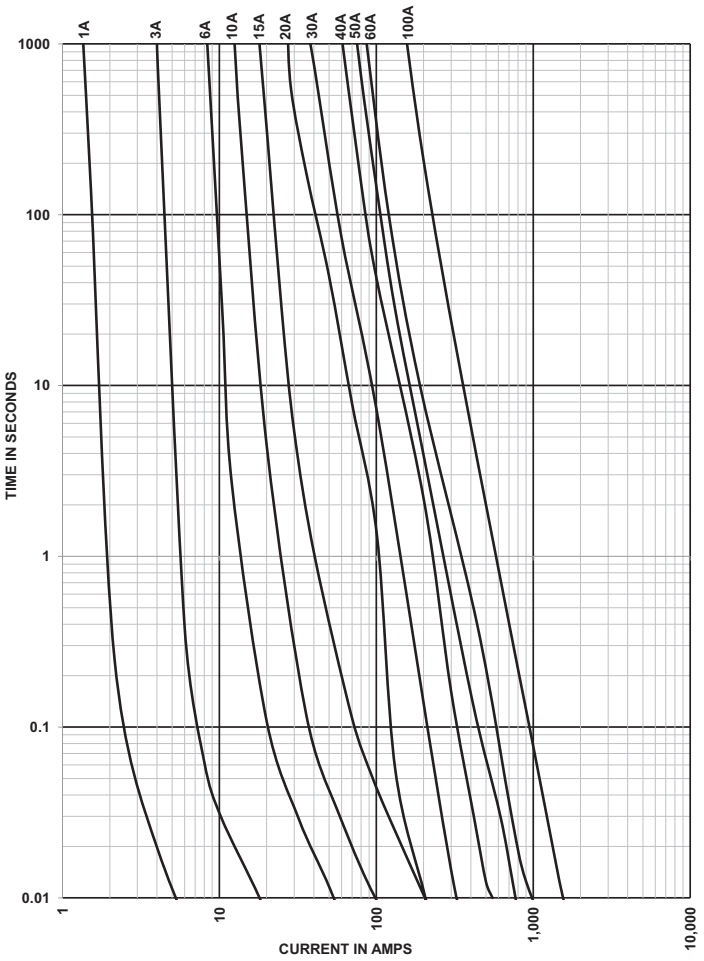



| Amp range | A | B | C | D | E |
|---|---|---|---|---|---|
| 1-15 | 1.88 (48) | 0.75 (19) | 1.0 (25) | 0.23 (6) | 0.67 (17) |
| 20 | | | | 0.27 (7) | |
| 25-30 | | | | 0.31 (8) | |
| 35-40 | 2.13 (54) | 1.0 (25) | 1.13 (29) | 0.36 (9) | |
| 45-50 | | | | 0.44 (11) | |
| 60 | | | | | |
| 70 | 3.01 (76) | | 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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