

# Fast-acting UL Class CF CUBEFuse

**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

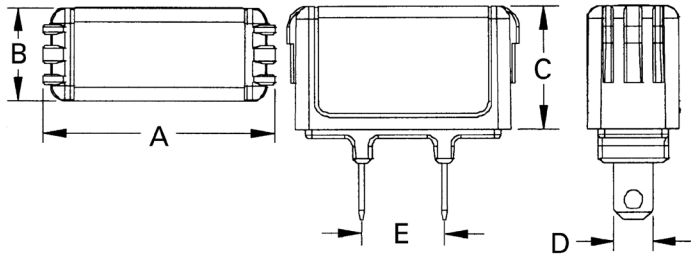
**Carton quantity and weight**

| 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)     |



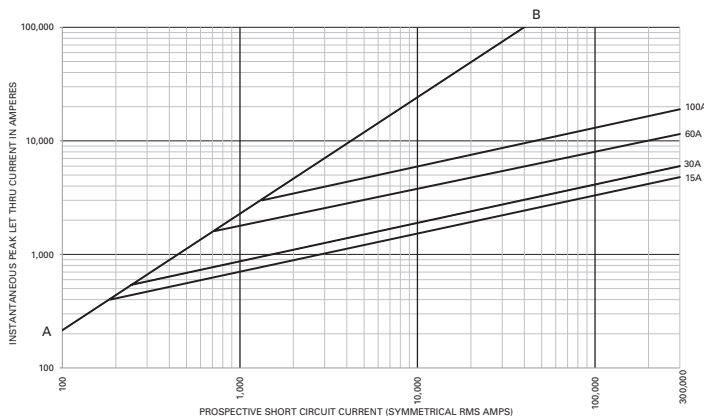
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Dimensions – in (mm)

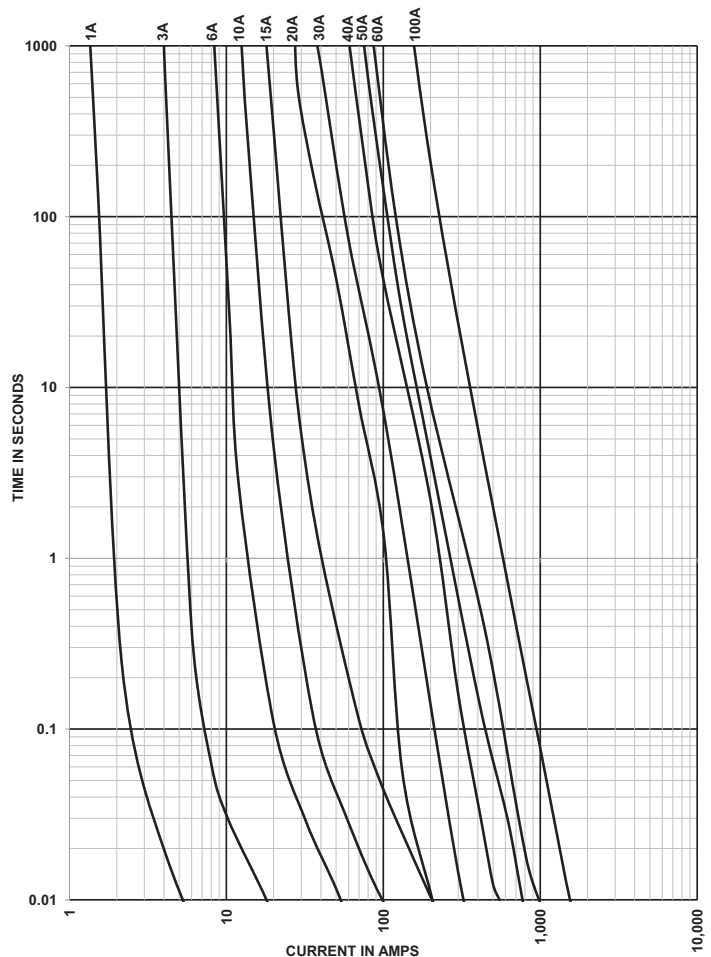


| Amp range | A         | B         | C         | D         | E         |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 1-15      |           |           |           | 0.23 (6)  |           |
| 20        | 1.88 (48) | 0.75 (19) | 1.0 (25)  | 0.27 (7)  |           |
| 25-30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