

# UL Class CF branch circuit time-delay CUBEFuse









Up to 30 A

35 to 60 A

70 to 100 A

# Catalog symbols

- TCF\_ (indicating fuse, 6-100 A)
- TCF\_RN (non-indicating fuse, 1-100 A)

#### **Description**

The Bussmann™ series Low-Peak™ CUBEFuse™ is a UL® Class CF current-limiting, dual-element, time-delay branch circuit fuse with Class J electrical performance. Available in indicating and non-indicating versions, this finger-safe fuse has a very compact, space-saving size and is easily applied using the CUBEFuse holder, UL 98 Compact Circuit Protector switch or Compact Circuit Protector Base (CCPB — used in the Quik-Spec™ Coordination Panelboard).

### Ratings

- Volts
  - 600 Vac
  - 300 Vdc
- Amps
  - 6-100 A (indicating)
  - 1-100 A (non-indicating)
- Interrupting rating
  - 300 kA RMS Sym. (UL)
  - 200 kA RMS Sym. (CSA)
  - 100 kA DC (UL and CSA)

#### **Electrical characteristics**

10 seconds minimum operating time at 500% rated current

# **Agency information**

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

#### Watts loss at rated current

Fuse amps	Watts
30	3.99
60	6.23
100	9.51

#### Operating and storage temperature range

-40 to 80°C (-40°F to 176°F)

Catalog numbers (amps)									
Indicating CUBEFuse									
)									
RN									
RN									
ORN									



The finger-safe CUBEFuse in the 35 mm DIN-Rail or panel-mount holder (TCFH\_N). Holders are available in 30, 60 and 100 A ratings that dovetail together to create the desired number of poles. Each holder will accept a CUBEFuse amp rating up to the holder's amp rating (e.g. a 60 A holder will accept any CUBEFuse up to 60 amps).



# Technical Data 9000

Effective August 2018

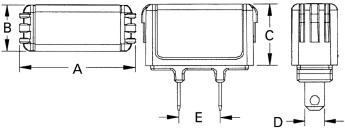
#### **Features**

- The world's first finger-safe power fuse system
- Smallest installed footprint of any UL Class J or RK fuse solution
- · Class CF with Class J time-delay electrical performance
- · Available in indicating and non-indicating versions
- The indicating version features local open fuse technology for faster troubleshooting and reduced downtime
- Faster response to damaging faults to help reduce destructive thermal and magnetic forces
- True dual-element fuse construction with a minimum 10 seconds time-delay at 500% of rating
- Long time-delay minimizes nuisance openings caused by temporary overloads and transient surges
- High 300 kA interrupting rating safely interrupts virtually any fault
- · No venting of arc or molten metal and gases during opening
- · Robust cycling and inrush current withstand
- · Low let-through currents under fault conditions
- Provides Type 2 "No Damage" protection for IEC motor starters when properly sized
- Easy selective coordination with any other Bussmann series Low-Peak Class CC, J, L or RK1 fuse with simple 2:1 amp ratio between upstream and downstream fuses

# Carton quantity and weight

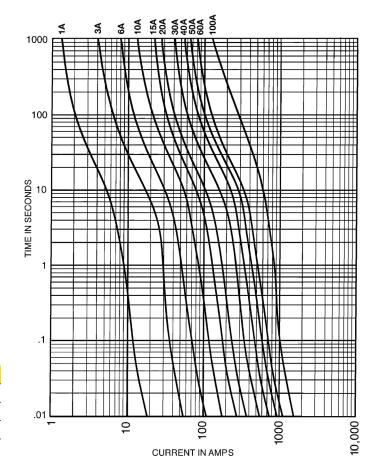
Amp range	Carton qty.	Weight per carton lbs (kg)	
Up to 30	12	1.39 (0.63)	
35-60	12	1.42 (0.64)	
70-100	6	1.74 (0.79)	

# Dimensions - in (mm)

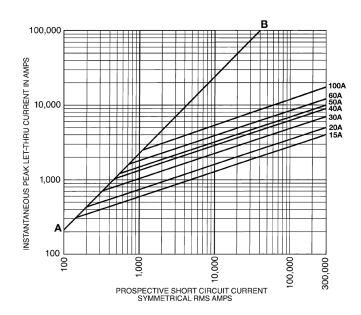


Amp range	Α	В	С	D	E
1-15				0.23 (6)	
17-1/2	1.00 /40\	0.7E (10)	10 (05)	0.07.7	
20	- 1.88 (48)	0.75 (19)	1.0 (25)	0.27 (7)	0.67 (17)
25-30	-			0.31 (8)	
35-40	- 2.13 (54)	1.0 (25)	1.13 (29)	0.36 (9)	
45-50				0.44 (11)	
60					
70			1.26 (32)	0.49 (12)	0.64 (16)
80-90	3.01 (76)				
100	-			0.57 (14)	

#### Time-current characteristics — average melt



# **Current limitation curves**



#### CUBEFuse holders, UL 98 disconnect switches and fusible panelboards

The CUBEFuse is used in the following Bussmann series products:



CUBEFuse 35 mm DIN-Rail or panel-mount holders can be dovetail together for the smallest footprint possible of any Class J or RK fuse solution (see data sheet no 9007).





CUBEFuse up to 60 A.



100 amp holder accepts any CUBEFuse up to 100 A.



The DIN-Rail mounted 1-, 2- and 3-pole Compact Circuit Protector (CCP2\_CF) is a UL 98 horsepower rated disconnect available in 30, 60 and 100 A ratings. Each CCP will accept a fuse amp rating equal to or less than its rating. These switches are also available in rotary versions for through-the-door or through-the-side operation. Accessories include multi-wire lug kits with terminal shrouds, auxiliary contacts and PLC fuse monitor (see data sheet no. 1157).





The 1-, 2- and 3-pole Compact Circuit Protector Base (CCPB) is a UL 98 horsepower rated branch circuit disconnect. Primarily used in the Quik-Spec Coordination Panelboard, it's available in ratings up to 100 amps. The CCPB has amp rejection breaks at 15, 20, 30, 40, 50, 60, 70, 90 and 100 amps that coincide with standard conductor ampacities to help prevent overfusing by rejecting any CUBEFuse amp rating greater than that of the switch.

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