COOPER Bussmann

Low-Peak[®] CUBEFuse[®] With and Without Indication

Finger-Safe, Dual-Element, Time-Delay Class J Performance Fuse, 1-100A, 600Vac/300Vdc



70-100A Case Size

35-60A Case Size 1-30A Case Size

Catalog Symbols: TCF_ Indicating fuse (6-100A) TCF_RN Non-indicating fuse (1-100A)

Dual-Element, Time-Delay Fuse: 10 Seconds Minimum Operating Time at 500% Rated Current

Ampere Rating: 1 to 100A

Voltage Rating: 600Vac/300Vdc

Interrupting Rating: 300kA RMS Sym. (UL) 200kA RMS Sym. (CSA) 100kA DC (UL & CSA)

Agency Information:

- UL Listed Special Purpose Fuse: Guide JFHR, File E56412
- CSA Certified Fuse: Class 1422- 02, File 53787
- CE compliance for the European Union low voltage directive

Other Ratings/Specifications:

Watts Loss at rated current: TCF30: 3.99W

TCF60: 6.23W TCF100: 9.51W

Operating and Storage Temperature Range: 14 to 149°F(-10 to 65°C) Material Specifications:

- · Case: Glass filled PES (Polyethersulfone)
- Terminals: Copper alloy
- Terminal plating: Electroless tin
- Indicator lens: PES (Polyethersulfone) (indicating version only)
- Indicator: Energetic chemical

Carton Quantity and Weight

	Carton	Weight Per Carton		
Rating	Qty.	lbs	kg	
TCF1-30A	12	1.39	0.63	
TCF35-60A	12	1.42	0.65	
TCF70-100A	6	1.74	0.79	



Data Sheet 9007

CCP CF 1-, 2- & 3-Pole switched disconnects Data Sheet 1157





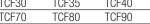


Switch disconnect (optional Data Sheet 1156

ata Sheet 1160	window). D



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Catalog Numbers (amp rating)

TCF10

Indicating CUBEFuse

TCF6

10F30	TCF35	TCF40	TCF45	TCF50	TCF60
TCF70	TCF80	TCF90	TCF100		
Non-Indicating CUBEFuse					
TCF1RN	TCF3RN	TCF6RN	TCF10RN	TCF15RN	TCF17-1/2RN
TCF20RN	TCF25RN	TCF30RN	TCF35RN	TCF40RN	TCF45RN
TCF50RN	TCF60RN	TCF70RN	TCF80RN	TCF90RN	TCF100RN

TCF17-1/2

TCF20

TCF25

Features and Product Benefits

• The world's first finger-safe power fuse system.

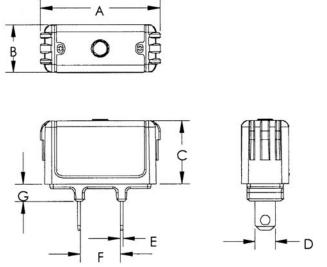
TCF15

- Smallest footprint of any class fuse including Class J, CC, T and RK.
- Meets Class J time-delay electrical performance requirements.
- · Available with and without open fuse indication to meet every customer requirement.
- The indicating version features *easy*D[™] 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 of 10 seconds time-• delay at 500% of rating.
- Long time-delay minimizes nuisance circuit openings due to temporary overloads and transient surges.
- High interrupting rating to safely interrupt faults up to 300kA.
- 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 motors starters when properly sized.
- Easy selective coordination with any other Cooper Bussmann[®] Low-Peak[®] Class L, J and RK1 fuse with simple 2:1 amp ration between upstream and downstream fuses.

CUBEFuse Holders, Disconnects and Safety Switch

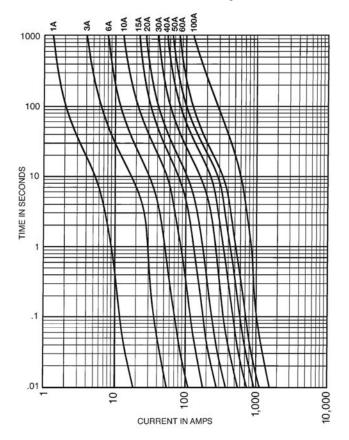
The CUBEfuse is used in the following Cooper Bussmann® products.

TCF_ and TCF_RN Dimensions - in (mm)

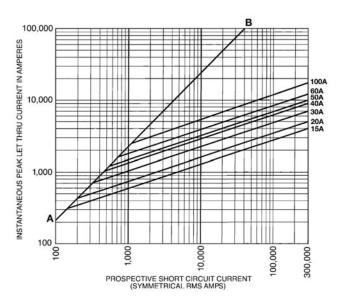


Fuse	Dimensions - in (mm)							
Amps	Α	В	C	D	E	F	G	
1-15	1.88	0.75	1.00	0.23	0.04	0.63	0.27	
	(47.75)	(19.05)	(25.40)	(5.84)	(1.02)	(15.88)	(6.86)	
17.5-20	1.88	0.75)	1.00	0.27	0.04	0.63	0.27	
	(47.75)	(19.05)	(25.40)	(6.86)	(1.02)	(15.88)	(6.86)	
25-30	1.88	0.75	1.00	0.31	0.04	0.63	0.27	
	(47.75)	(19.05)	(25.40)	(7.94)	(1.02)	(15.88)	(6.86)	
35-40	2.13	1.00	1.13	0.36	0.04	0.63	0.38	
	(54.10)	(25.40)	(28.58)	(9.14)	(1.02)	(15.88)	(9.65)	
45-50	2.13	1.00	1.13	0.40	0.04	0.63	0.38	
	(54.10)	(25.40)	(28.58)	(10.16)	(1.02)	(15.88)	(9.65)	
60	2.13	1.00	1.13	0.44	0.04	0.63	0.38	
	(54.10)	(25.40)	(28.58)	(11.11)	(1.02)	(15.88)	(9.65)	
70-100	3.01	1.00	1.26	0.57	0.06	0.63	0.39	
	(76.45)	(25.40)	(32.00)	(14.4)	(1.60)	(15.88)	(9.93)	

Time-Current Characteristic Curves-Average Melt



Current Limitation Curves



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