

## Electrical - Power Fuses

# CUBEFuse™ and Fuseholder

## Finger-Safe Dual-Element Time-Delay Fuses

### Indicating – 600 Volts or Less

## TCF &amp; TCFH

1-60 Amps

**Catalog Symbol:** TCF (Fuse) & TCFH (Holder)**Dual-Element, Time-Delay Fuse:** 10 Seconds

Minimum Operating Time at 500% Rated Current

**Ampere Rating:** 1 to 60A**Voltage Rating:** 600Vac (or less)**DC Voltage Rating:** 300 Vdc (or less), 100,000AIR**Interrupting Rating:** 300,000A RMS Symmetrical (UL)  
200,000A RMS Symmetrical (CSA)**Agency Information:**

UL Listed Special Purpose Fuse (UL 248-8) (1-60A)

CSA Certified Fuse (CSA-22.2 No. 106) (1-60A)

UL Listed Special Purpose Fuseholder

CSA Certified Fuseholder (C22.2 Nos. 39 &amp; 65)

**Other Electrical Certifications:**

CE compliance for the European Union Low Voltage

Directive (50-1000Vac, 75-1500Vdc)

**Catalog Numbers**

TCF1	TCF3	TCF6	TCF10
TCF15	TCF17-1/2	TCF20	TCF25
TCF30	TCF35	TCF40	TCF45
TCF50	TCF60		

**CUBEFuse™ Fuseholder Catalog Data**

Amps	Poles	Wire *	Dual Wire *	Part Number
30	1	14 AWG to 8 AWG CU	14 AWG CU	TCFH30
60	1	14 AWG to 4 AWG CU	10 AWG to 6 AWG CU	TCFH60

\* 75°C (MIN) CU Wire Only

- The world's first finger safe industrial fuse system.
- 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.
- Meets UL Class J Time-Delay electrical performance requirements.
- High interruption rating to safely interrupt faults up to 300,000 amperes.
- Faster response to damaging faults reduces destructive thermal and magnetic forces.
- Permanent open fuse indication.
- Designed to be an internationally accepted and specified world class product.
- Smallest footprint of any power class fuse including Class J, CC, T and RK.
- Meets requirements of IEC 60529 for IP-20 finger safe rating.
- 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.
- Low watt loss reduces power consumption and lowers operating temperature.
- Conventional Class J fuse case sizes and ampere ratings.
- Dovetail fuseholder design for ganging multiple fuse poles.
- 30 and 60 Amp fuseholders can be ganged together.
- 30 Amp fuses can be plugged into the 60A holder without a reducer.
- 35mm DIN rail and chassis mounting features.
- Fuseholder wire ports rated for dual wires.

**Carton Quantity and Weight**

Ampere Rating	Carton Qty	Weight Per Carton	
		Lbs.	Kg.
TCF1-30	12	1.39	.518
TCFH1-30	12	2.42	.902
TCF35-60	12	1.42	.530
TCFH35-60	12	2.57	.958

Time-Current and Current Limitation Curves on page 219.

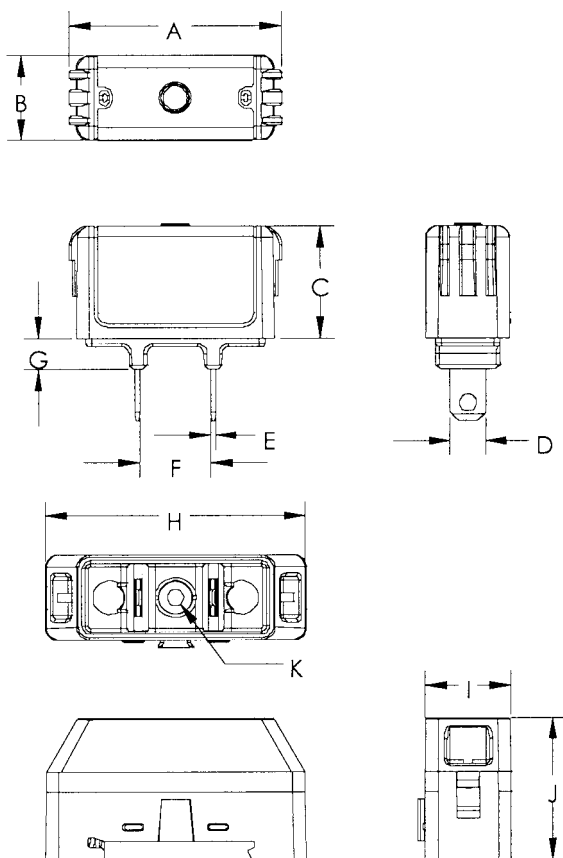
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### CUBEFUSE™ and Fuseholder Finger-Safe Dual-Element Time-Delay Fuses Indicating - 600 Volts or Less

### TCF & TCFH

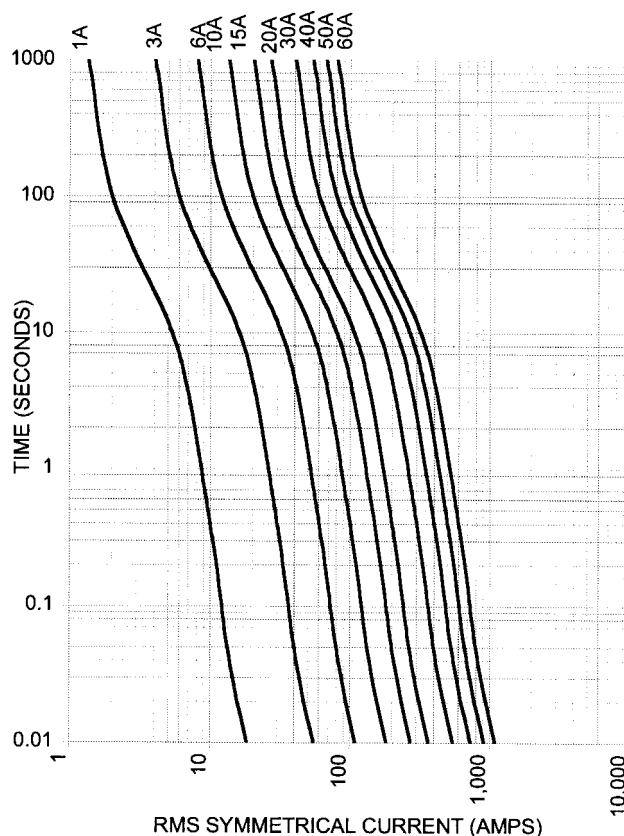
1-60 Amps

Dimensional Data For TCF and TCFH



Dimension	30A in [mm]	60A in [mm]
A	1.88 [47.75]	2.13 [54.10]
B	.75 [19.05]	1.00 [25.40]
C	1.00 [25.40]	1.13 [28.58]
D	.31 [7.94]	.44 [11.11]
E	.04 [1.02]	.04 [1.02]
F	.63 [15.88]	.63 [15.88]
G	.27 [6.86]	.38 [9.65]
H	2.30 [58.42]	2.60 [66.04]
I	.76 [19.30]	1.03 [26.16]
J	1.27 [32.18]	1.53 [38.86]
K	.15 [3.81]	.17 [4.32]

Time-Current Characteristic Curves-Average Melt



Current Limitation Curves

