

**Specification Status: Released**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage  
( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

**Fault Ratings at 20°C:**

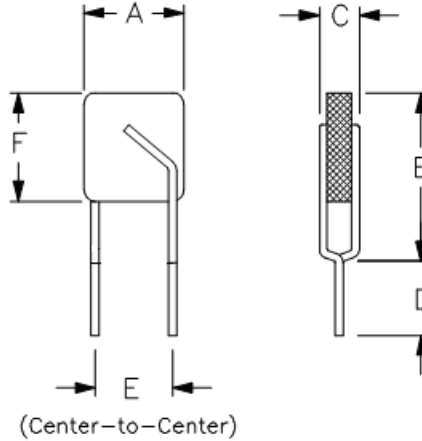
250V<sub>RMS</sub>, 3A, 10 applications

**Additional Info at 20°C:**

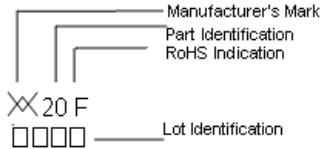
- Resistance matched: n/a
- Lightning withstand: 1.5kV per ITU-T K.20
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

**Lead Material:**

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)



**Marking:**



**TABLE I. DIMENSIONS:**

mm:	A		B		C		D		E	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
	--	6.0	--	10.0	--	3.8	4.7	--	5.0	--	6.0
in:*	--	(0.24)	--	(0.39)	--	(0.15)	(0.19)	--	(0.20)	--	(0.24)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS @ 20°C:**

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A TYP	OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) 60V <sub>DC</sub> **	
		R MIN	R MAX	R <sub>1</sub> MAX*		MIN	MAX	TYP	MAX
0.120	0.240	6.0	10.0	16.0	1.0	-40	85	0.7	0.8

\*Maximum device resistance at 20°C measured after 1 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-120U	Bulk	N/A
TRF250-120U-2	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV  
 Reference Documents: PS300, ITU-T K.20  
 Precedence: This specification takes precedence over documents referenced herein.  
 Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.  
 CAUTION: Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

**Materials Information**

ROHS Compliant

ELV Compliant

Pb-Free

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant





Expertise Applied | Answers Delivered

**PolySwitch®**  
**PTC Devices**  
**Overcurrent Protection Device**

**PRODUCT: TRF250-120U**

DOCUMENT: SCD26217  
REV LETTER: F  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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