

Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage
(V_{MCO}): 60V_{DC}
Maximum Interrupt Current (I_{INT}): 3A_{RMS}

Fault Ratings at 20°C:

250V_{RMS}, 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:

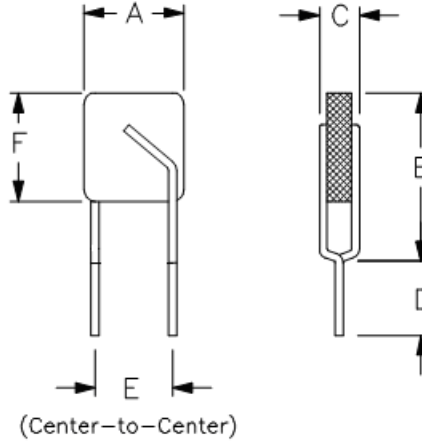
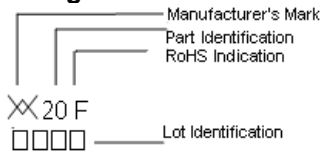


TABLE I. DIMENSIONS:

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	OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) 60V _{DC} **	
		R MIN	R MAX	R ₁ MAX*		TYP	MIN	MAX	TYP
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





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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