

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-120US

DOCUMENT: SCD26219

REV LETTER: F

REV DATE: JULY 26, 2016

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Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (VMCO): 60VDC Maximum Interrupt Current (IINT): 3ARMS

Fault Ratings at 20°C:

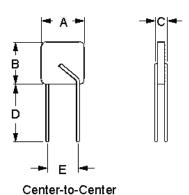
250V_{RMS}, 3A, 10 applications

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



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



Marking:

	Manufacturer's Mark
	Part Identification RoHS Indication
₩20 F	
	Lot Identification

TABLE I. DIMENSIONS:

	Α		В		С		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	
mm:		6.0		5.7		3.8	4.7		5.0	
in:*		(0.24)		(0.22)		(0.15)	(0.19)		(0.20)	

^{*}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		
		R MIN	R MAX	R _{1 MAX} *	TYP	MAX	MIN	MAX	(W) 60V TYP	MAX
0.120	0.240	6.0	10.0	16.0	1.0	2.0	-40	85	0.7	8.0

^{*}Maximum device resistance at 20°C measured after 1 hour post trip

TABLE III. APPLICABLE PART DESCRIPTIONS:

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ſ	PART DESCRIPTION	PACKAGING TYPE	NOTES						
I	TRF250-120US	Bulk	N/A						
I	TRF250-120US-2	Tape and Reel	Dim "D" not applicable						

UL (File #E74889), CSA (File #78165C), TUV Agency Recognitions:

PS300, ITU-T K.20 Reference Documents:

This specification takes precedence over documents referenced herein. Precedence:

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





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