

# **PolySwitch® PTC Devices**

Overcurrent Protection Device

PRODUCT: TRF250-120U

DOCUMENT: SCD26217 **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<sub>RMS</sub>, 3A, 10 applications

#### Additional Info at 20°C:

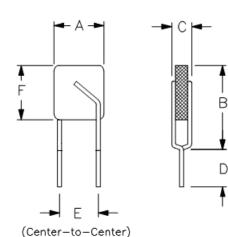
- Resistance matched: n/a
- Lightning withstand: 1.5kV per ITU-T K.20
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

#### Lead Material:

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

# Marking:





#### **TABLE I. DIMENSIONS:**

	Α		В		С		D		E	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
mm:		6.0		10.0		3.8	4.7		5.0		6.0
in:*	1	(0.24)	-	(0.39)	1	(0.15)	(0.19)	-	(0.20)	-	(0.24)

<sup>\*</sup>Rounded off approximation

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

HOLD	TRIP	RESISTANCE (Ω)			TIME TO TRIP(Sec)	OPERATING		TRIPPED	
CURRE CURRENT					@ 1A		RATURE		
NT (A)	(A)	R MIN	R MAX	R <sub>1</sub> max*	TYP	MIN (°	C) MAX	(W) 60	V <sub>DC**</sub>
		IZ IAIIIA	IV IVIAN	INTWAX	1 1 1	IVIIIA	INITA		IVIAA
0.120	0.240	6.0	10.0	16.0	1.0	-40	85	0.7	0.8

<sup>\*</sup>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** 

Directive 2002/95/EC

Compliant

**ROHS Compliant** 

Directive 2000/53/EC Compliant



**ELV Compliant** 

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