

# **PolySwitch® PTC Devices**

Overcurrent Protection Device

PRODUCT: TRF250-145T

DOCUMENT: SCD26222

REV LETTER: F **REV DATE: JULY 26, 2016** 

D

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(Center~to~Center)

# **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: 1.5 kV per ITU-T K.20, K.21
- Helps equipment meet ITU-T K.20, K.21 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



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

#### **External Coating Material:**

Cured, flame retardant epoxy polymer, meeting UL94 V-0 requirements

### Marking:



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

	Α		В		С		D		E	F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MIN	MAX
mm:		6.5		11.0		4.6	4.7		5.0		7.0
in:	-	(0.26)	1	(0.43)		(0.18)	(0.19)		(0.20)		(0.28)

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

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

HOLD CURRENT	TRIP CURRENT	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE		TRIPPED POWER	
(A)	(A)						(°C)		DISSIPATION (W) @ 60V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	TYP	MAX
0.145	0.290	5.4	7.5	14.0	1.5	2.5	-40	85	0.8	0.9

<sup>\*</sup>Post Trip Resistance measured after one hour.

# TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-145T	Bulk	N/A

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

Reference Documents: PS300, ITU-T K.20, K.21

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** 

Directive 2002/95/EC Compliant

Directive 2000/53/EC Compliant



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