

**Specification Status: Released**

**Operating Conditions at 20°C:**

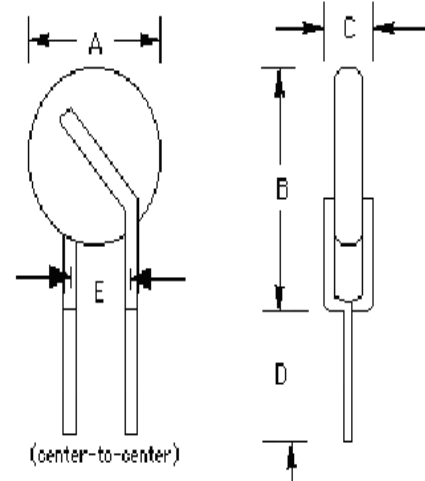
Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 100V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 10A<sub>RMS</sub>

**Fault Ratings at 20°C:**

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

**Additional Info at 20°C:**

Resistance matched: n/a  
Lightning withstand: 1.5 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



**Lead Material:**

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

**Marking:**

None

**TABLE I. DIMENSIONS:**

	A		B		C		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	--	6.5	--	10.0	--	3.0	4.7	--	5.0
in.*	--	(0.26)	--	(0.39)	--	(0.12)	(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) @ 3A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 100V <sub>DC</sub>	
		R MIN	R MAX	R <sub>1 MAX</sub> *	TYP	MAX	MIN	MAX	TYP	MAX
0.183	0.685	0.8	2.0	3.4	0.55	1.8	-40	85	0.9	1.1

\*Post Trip Resistance measured after one hour.

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

PART DESCRIPTION	PACKAGING TYPE	NOTES
TRF250-183U	Bulk	N/A

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

Pb-Free

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant





Expertise Applied | Answers Delivered

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

**PRODUCT : TRF250-183U**

DOCUMENT : SCD26745  
REV LETTER: E  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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