

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-183S

DOCUMENT: SCD26744 REV LETTER: F

REV DATE: JULY 26, 2016

C|◄

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(Center-to-Center)

Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 100V_{DC}

Maximum Interrupt Current (IINT): 10ARMS

Fault Ratings at 20°C:

250V_{RMS}, 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)

External Coating Material:

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

Marking:

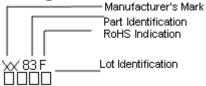


TABLE I. DIMENSIONS:

	Α		В		С		D		E
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	1	7.5	1	9.5	1	3.8	4.7	1	5.0
in:*		(0.29)		(0.37)		(0.15)	(0.19)		(0.20)

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

HOLD TRIP RESISTANCE (Ω)					_	TRIP(Sec)	OPERATING		TRIPPED	
CURRENT (A)	CURRENT CURRENT (A) (A)					@ 3A		RATURE	POWER DISSIPATION (W) @ 100V _{DC}	
. ,	()	R MIN	R MAX	R _{1 MAX} *	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		
TRF250-183S	Bulk	N/A		
TRF250-183S-2	Tape and Reel	Dim "D" not applicable		

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





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