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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-100T-B-0.5

DOCUMENT: SCD25900 REV LETTER: F

REV DATE: MAY 9, 2011 PAGE NO.: 1 OF 1

Specification Status: Released

Operating Conditions at 20°C:

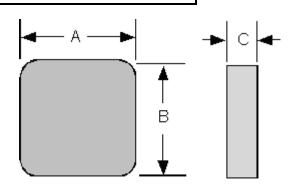
Maximum Continuous Operating Voltage (V_{MCO}): $60V_{DC}$ Maximum Interrupt Current (I_{INT}): $3A_{RMS}$

Fault Ratings at 20°C:

250V_{RMS}, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: 0.5 Ohm
- Lightning withstand:
- ITU-T K.20, K21 1.0 kV
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Marking:

	— Manufacturer's Mark
W	Lot Identification
\sim DDDD	

TABLE I. DIMENSIONS:

	Α		E	3	С		
	MIN	MAX	MIN	MAX	MIN	MAX	
mm:	4.6	4.9	4.6	4.9	2.0	2.3	
in:*	(0.184)	(0.192)	(0.184)	(0.192)	(0.079)	(0.091)	

^{*}Rounded off approximation.

TABLE II. PERFORMANCE RATINGS @ 20°C, unless otherwise noted (as measured in Tyco test board # T2978):

HOLD	TRIP	RESISTANCE (Ω)		TIME TO TRIP(Sec)		OPERATING		TRIPPED		
CURRENT*	CURRENT*			@ 1A TEMPER		ATURE POWER DISSIPATION		SSIPATION		
(A) @ 40°C	(A) @ 40°C					(°C)	(W) @	(W) @ 60V _{DC} *	
		R MIN	R MAX	R _{1MAX} **	TYP	MAX	MIN	MAX	TYP	MAX
0.090	0.150	14.0	18.0	24.0	0.2	0.4	-40	85	0.7	8.0

^{*} Dependent on Heat Sinking of Mounting Fixture.

TABLE III. APPLICABLE PART DESCRIPTIONS:

	PART DESCRIPTION	PACKAGING TYPE	NOTES
Ш	TCF250-100T-B-0.5	Bulk	N/A

Agency Recognitions:

Reference Documents: Raychem 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

Pb-Free



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