

PolySwitch® **PTC Devices**

PRODUCT: TCF250-100T-B-0.5

Overcurrent Protection Device

DOCUMENT: SCD25900 **REV LETTER: F** REV DATE: JULY 26, 2016 PAGE NO.: 1 OF 2

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Specification Status: Released

Operating Conditions at 20°C:

Maximum Continuous Operating Voltage (V_{MCO}): 60V_{DC} Maximum Interrupt Current (IINT): 3ARMS

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:

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Manufacturer's Mark Lot Identification

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 test board # T2978):

HOLD CURRENT* (A) @ 40°C	TRIP CURRENT* (A) @ 40°C	RESISTANCE (Ω)		TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ 60Vbc*		
() 0 10 0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	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	0.8

* Dependent on Heat Sinking of Mounting Fixture.

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

TABLE III. APPLICABLE PART DESCRIPTIONS:

PART DESCRIPTION		PACKAGING TYPE	NOTES		
TCF250-100T-B-0.5		Bulk	N/A		
Agency Recognitions: Reference Documents:	N/A 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







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