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PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF600-160-RA

DOCUMENT: SCD26357
REV LETTER: E
REV DATE: JULY 26, 2016
PAGE NO.: 1 OF 2

Specification Status: Released

Maximum Operating Voltage: $250V_{DC}$

Fault Ratings at 20°C:

$250V_{RMS}$, 3A, 10 applications
$600V_{RMS}$, 60A, 1 application

Additional Info at 20°C:

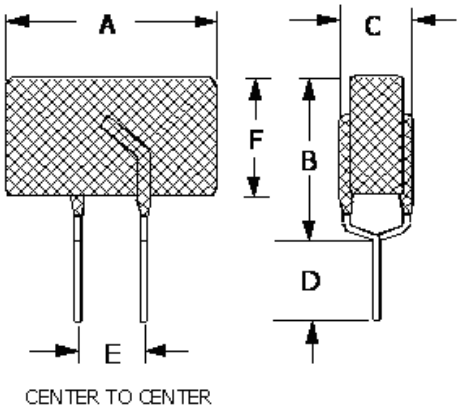
- Resistance matched: N/A
- Lightning withstand: GR-10891.0 kV, 10/1000µs, with 20-ohm load
- Helps equipment comply to Telcordia GR-1089

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:

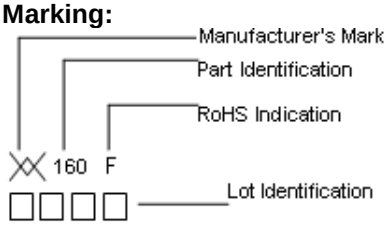


TABLE I. DIMENSIONS:

	A		B		C		D		E	F
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM	MAX
mm:	--	16.0	--	12.6	--	6.0	4.7	--	5.0	10.0
in*:	--	(0.63)	--	(0.50)	--	(0.24)	(0.19)	--	(0.20)	(0.39)

* Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C (as measured in Loranger P/N 02901-032-6218A):

HOLD CURRENT (A)	TRIP CURRENT (A)	RESISTANCE (Ω)			TIME TO TRIP(Sec) @ 1A		OPERATING TEMPERATURE (°C)		TRIPPED POWER DISSIPATION (W) @ $250V_{DC}$	
		R MIN	R MAX	$R_{1\ MAX}$*	TYP	MAX	MIN	MAX	TYP	MAX
0.160	0.320	4.0	7.0	16.0	9.5	18.0	-40	85	1.7	2.2

*Post Trip Resistance measured after one hour.

TABLE III. APPLICABLE PART DESCRIPTIONS :

PART DESCRIPTION	PACKAGING TYPE	NOTE
TRF600-160-RA	Bulk	N/A

Agency Recognitions: UL (File #E74889), CSA (File #1026908), TUV
Reference Documents: Littelfuse PS300, Telcordia GR-1089
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
Directive 2002/95/EC Compliant

ELV Compliant
Directive 2000/53/EC Compliant

Pb-Free

Revised July 26, 2016