

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TRF250-120

DOCUMENT: SCD26212

REV LETTER: G REV DATE: JULY 26, 2016

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(Center~to~Center)

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:

250 V_{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

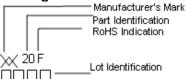
Lead Material:

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





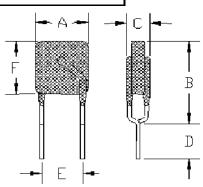


TABLE I. DIMENSIONS:

| | Α | | В | | С | | D | | E | F |
|------|-----|--------|-----|--------|-----|--------|--------|-----|--------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | NOM | MAX |
| mm: | | 6.5 | | 11.0 | | 4.6 | 4.7 | | 5.0 | 7.0 |
| in:* | | (0.26) | | (0.43) | | (0.18) | (0.19) | | (0.20) | (0.28) |

^{*}Rounded off approximation

TABLE II. PERFORMANCE RATINGS @ 20°C:

| | HOLD | TRIP | RESISTANCE (Ω) | | TIME TO | , , | OPERATING | | TRIPPED | | |
|---|----------------|-------|----------------|-------|---------------------|-----|------------------|-----|--|-----|-----|
| | CURRENT (A) | (A) | | | @ 1A | | TEMPERATURE (°C) | | POWER DISSIPATION (W) @ 60V _{DC} | | |
| ı | | | R MIN | R MAX | R ₁ MAX* | TYP | MAX | MIN | MAX | TYP | MAX |
| ĺ | 0.120 | 0.240 | 4.0 | 8.0 | 16.0 | 1.5 | 2.5 | -40 | 85 | 8.0 | 0.9 |

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

TABLE III. APPLICABLE PART DESCRIPTIONS:

| PART DESCRIPTION | PACKAGING TYPE | NOTES | | |
|------------------|----------------|------------------------|--|--|
| TRF250-120 | Bulk | N/A | | |
| TRF250-120-2 | Tape and Reel | Dim "D" not applicable | | |

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