

308 Constitution Drive Menlo Park, CA USA www.circuitprotection.com

PolySwitch® PTC Devices

Overcurrent Protection Device

PRODUCT: TCF250-145T-B-0.5

DOCUMENT: SCD26261

PCN: REFER TO TABLE III BELOW

REV LETTER: F

REV DATE: MAY 11, 2011 PAGE NO.: 1 OF 1

Specification Status: Released

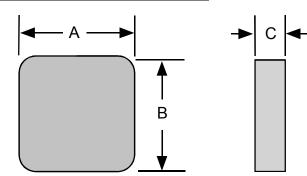
Maximum Operating Voltage: 60V_{DC}

Fault Ratings at 20°C:

250V_{RMS}, 3A, 10 applications

Additional Info at 20°C:

- Resistance matched: 0.5 ohms
- Lightning withstand:
 - ITU-T K.20/K21 1.5 kV
- Helps equipment meet ITU-T K.20/K.21recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements



Marking:

| | — Manufacturer's Mark |
|----------|-----------------------|
| \times | Lot Identification |
| | |

TABLE I. DIMENSIONS:

| | Α | | Е | 3 | С | | |
|------|--------|--------|--------|--------|--------|--------|--|
| | MIN | MAX | MIN | MAX | MIN | MAX | |
| mm: | 5.4 | 5.6 | 5.4 | 5.6 | 2.0 | 2.5 | |
| in:* | (0.21) | (0.22) | (0.21) | (0.22) | (80.0) | (0.10) | |

^{*}Rounded off approximation.

TABLE II. PERFORMANCE RATINGS @ 20°C:

| HOLD* | TRIP | RESISTANCE (Ω) | | TIME TO | TIME TO TRIP(Sec) OPERATING | | TRIPPED | | |
|---------|---------|----------------|-------|-----------------------|-----------------------------|------------------|---------|-------------------|-------------------------|
| CURRENT | CURRENT | | | @ 1A TE | | TEMPERATURE (°C) | | POWER DISSIPATION | |
| (A) | (A) | | | | | _ | (W) | | |
| | | R MIN | R MAX | R _{1 MAX} ** | TYP* | MAX | MIN | MAX | TYP @ 60V _{DC} |
| 0.145 | 0.290 | 5.0 | 9.0 | 14.0 | 1.0 | 2.0 | -40 | 85 | 1.0 |

^{*} Dependent on Heat Sinking of Mounting Fixture

TABLE III. APPLICABLE PART DESCRIPTIONS:

| PART DESCRIPTION | PCN # (INTERNAL USE ONLY) | PACKAGING TYPE | NOTES |
|-------------------|---------------------------|----------------|-------|
| TCF250-145T-B-0.5 | RF0065-000 | Bulk | N/A |

Agency Recognitions: UL (File #E74889)

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

Directive 2002/95/EC

Compliant

ROHS Compliant ELV Compliant

Directive 2000/53/EC Compliant





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