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# PolySwitch® PTC Devices

**Overcurrent Protection Device**

**PRODUCT: TCF250-145**

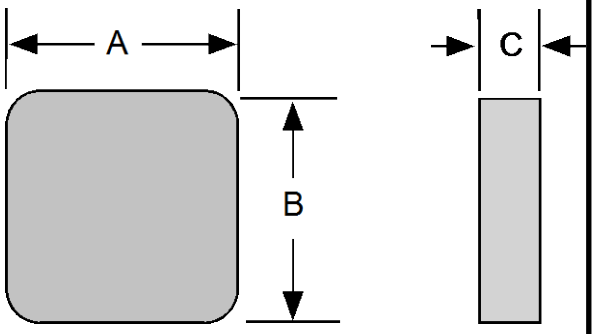
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## Specification Status: Released

**Maximum Operating Voltage:** $60V_{DC}$

**Fault Ratings at 20°C:**
$250V_{RMS}$, 3A, 10 applications

**Additional Info at 20°C:**
- Resistance matched: N/A
- 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:**
None

**TABLE I. DIMENSIONS:**

| | A | | B | | C | |
|---|---|---|---|---|---|---|
| | 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) | (0.08) | (0.10 ) |

*Rounded off approximation.

**TABLE II. PERFORMANCE RATINGS @ 20°C:**

| HOLD* CURRENT (A) | TRIP CURRENT (A) | RESISTANCE (Ω) | | | TIME TO TRIP(Sec) @ 1A | OPERATING TEMPERATURE (°C) | | TRIPPED POWER DISSIPATION (W) |
|---|---|---|---|---|---|---|---|---|
| | | R MIN | R MAX | $R_{1\ MAX}$** | TYP* | MIN | MAX | TYP @ $60V_{DC}$ |
| 0.145 | 0.290 | 3.0 | 6.0 | 14.0 | 2.5 | -40 | 85 | 1.0 |

* Dependent on Heat Sinking of Mounting Fixture.
**Maximum device resistance at 20°C measured 1 hour post trip

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION | PCN # (INTERNAL USE ONLY) | PACKAGING TYPE | NOTES |
|---|---|---|---|
| TCF250-145 | F78914-000 | Bulk | N/A |

| | |
|---|---|
| Agency Recognitions: | UL (File #E74889) |
| 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**
Directive 2002/95/EC Compliant

**ELV Compliant**
Directive 2000/53/EC Compliant

**Pb-Free**

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