

**Specification Status: Released**

**Operating Conditions at 20°C:**

Maximum Continuous Operating Voltage ( $V_{MCO}$ ): 60V<sub>DC</sub>  
Maximum Interrupt Current ( $I_{INT}$ ): 3A<sub>RMS</sub>

**Fault Ratings at 20°C:**

250V<sub>RMS</sub>, 3A, 10 applications

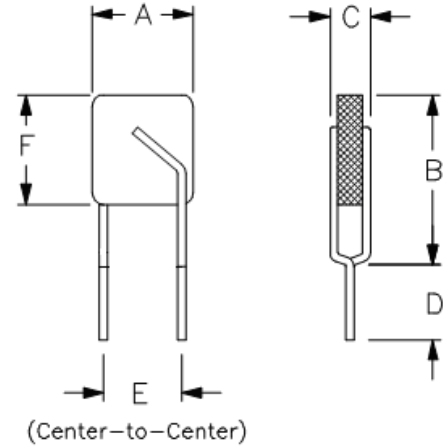
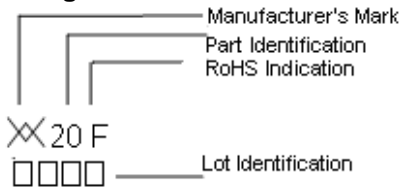
**Additional Info at 20°C:**

- Resistance matched: n/a
- Lightning withstand: 1.5kV per ITU-T K.20
- Helps equipment meet ITU-T K.20 Recommendations
- Helps equipment meet Telcordia GR1089 intrabuilding requirements

**Lead Material:**

22 AWG Sn-Plated Copper (0.64 mm [0.025"] nominal diameter)

**Marking:**



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C   |        | D      |     | E      | F   |        |
|------|-----|--------|-----|--------|-----|--------|--------|-----|--------|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN | MAX    | MIN    | MAX | NOM    | MIN | MAX    |
| mm:  | --  | 6.0    | --  | 10.0   | --  | 3.8    | 4.7    | --  | 5.0    | --  | 6.0    |
| in.* | --  | (0.24) | --  | (0.39) | --  | (0.15) | (0.19) | --  | (0.20) | --  | (0.24) |

\*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) 60V <sub>DC</sub> ** |     |
|------------------|------------------|----------------|-------|---------------------|------------------------|-----|----------------------------|-----|--|-----|
|                  |                  | R MIN          | R MAX | R <sub>1</sub> MAX* | TYP                    | MAX | MIN                        | MAX | TYP  | MAX |
| 0.120            | 0.240            | 7.0            | 12.0  | 16.0                | 0.7                    | 1.5 | -40                        | 85  | 0.7  | 0.8 |

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

**TABLE III. APPLICABLE PART DESCRIPTIONS:**

| PART DESCRIPTION | PACKAGING TYPE | NOTES |
|------------------|----------------|-------|
| TRF250-120UT     | Bulk           | N/A   |

Agency Recognitions: UL (File #E74889), CSA (File #78165C), TUV  
Reference Documents: PS300, ITU-T K.20  
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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