

**Tyco/Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025  
 800-227-4856  
 FAX 800-227-4866

**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: RTE120**

DOCUMENT: SCD 24306  
 PCN: 437425  
 REV LETTER: C  
 REV DATE: MAY 2, 2002  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Electrical Rating**

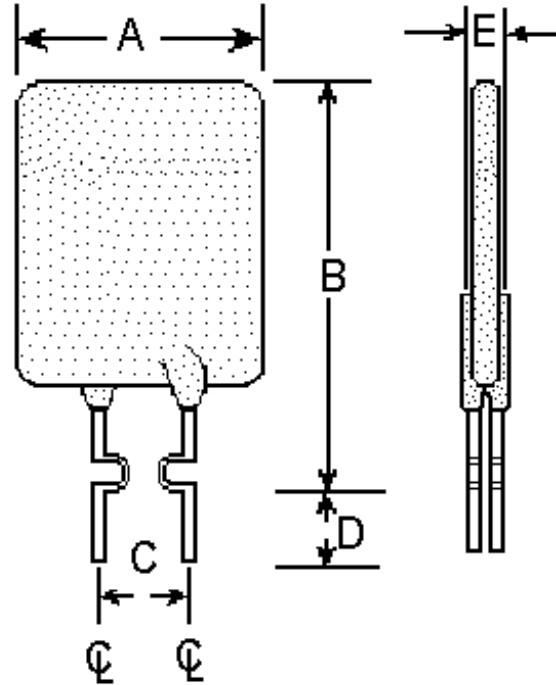
**Voltage: 33V MAX**  
**Current: 40A MAX**

Insulating Material:  
 Cured, Flame Retarded Epoxy Polymer  
 meets UL94 V-0 Requirements

Lead Material:  
 24 AWG Tin/Lead Plated Copper Clad Steel

**Marking:**

- ⊗ 33 — Raychem Logo and Voltage
- T120 — Part Identification
- □ □ □ — Lot Identification (can be on back)



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        | F   |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|-----|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    | TYP |
| mm:  | --  | 7.4    | --  | 12.2   | 4.3    | 5.8    | 7.6    | --  | --  | 3.0    | --  |
| in*: | --  | (0.29) | --  | (0.48) | (0.17) | (0.23) | (0.30) | --  | --  | (0.12) | --  |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| I HOLD*        | RATINGS           |                   | TIME TO TRIP*             | RESISTANCE       |                  | ONE-HOUR POST-TRIP RESISTANCE STANDARD TRIP | NOMINAL TRIPPED POWER DISSIPATION* |
|----------------|-------------------|-------------------|---------------------------|------------------|------------------|---|------------------------------------|
| AMPS 20°C HOLD | AMPS AT 20°C HOLD | AMPS AT 20°C TRIP | SECONDS AT 20°C, 6.0A MAX | OHMS AT 20°C MIN | OHMS AT 20°C MAX | SECONDS AT 20°C MAX                         | WATTS AT 20°C                      |
| 1.2            | 1.2               | 2.3               | 3.5                       | 0.074            | 0.120            | 0.180                                       | 0.78                               |

\* Values specified were determined using PCB's w/ 0.050 x 1oz Cu traces

Recognitions: UL, CSA, TUV recognized.  
 Reference Documents: PS300  
 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.