

**Tyco/Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
 Fax: 800-227-4866

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

**PRODUCT: RXE020**

DOCUMENT: SCD 21863  
 PCN: 489009  
 REV LETTER: I  
 REV DATE: AUGUST 20, 2001  
 PAGE NO.: 1 OF 1

**Specification Status: RELEASED**

**Electrical Rating**

**Voltage: 72V MAX**  
**Current: 40A MAX**

**Insulating Material:**

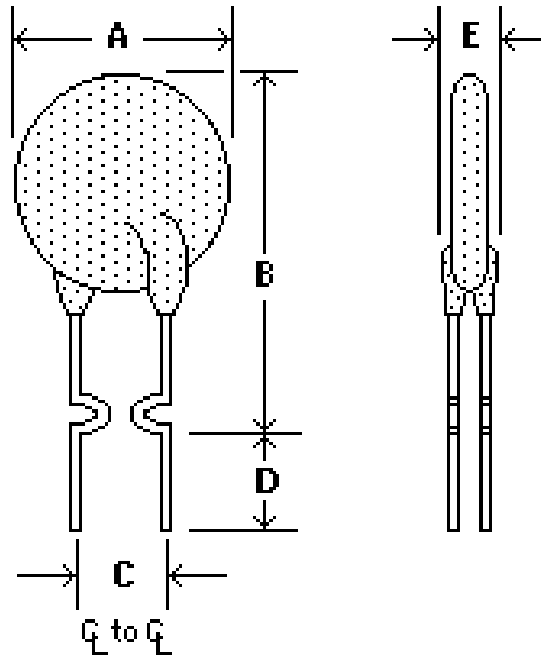
Cured, Flame Retarded Epoxy Polymer  
 meets UL94 V-0 Requirements

**Lead Material:**

24 AWG Tin Lead Plated Copper Clad Steel

**Marking:**

Raychem Logo  
 and Voltage  
 X 72  
 X 020 — Part Identification  
 □ □ □ □ — Lot Identification  
 (can be on back)



**TABLE I. DIMENSIONS:**

|      | A   |        | B   |        | C      |        | D      |     | E   |        |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    |
| mm:  | --  | 7.4    | --  | 11.7   | 4.3    | 5.8    | 7.6    | --  | --  | 3.0    |
| in*: | --  | (0.29) | --  | (0.46) | (0.17) | (0.23) | (0.30) | --  | --  | (0.12) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

| I <sub>H</sub><br>RATED<br>CURRENT | CURRENT RATINGS         |                           |                           |                            |                            |                            |                            | TIME TO<br>TRIP                 |  | INITIAL<br>RESISTANCE<br>VALUES |                        | ONE-HOUR<br>POST-TRIP<br>RESISTANCE<br>STANDARD<br>TRIP | TRIPPED-<br>STATE<br>POWER<br>DISSIPATION |
|------------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|--|---------------------------------|------------------------|---------------------------------------------------------|-------------------------------------------|
|                                    | AMPERES<br>20°C<br>HOLD | AMPERES<br>AT 0°C<br>HOLD | AMPERES<br>AT 0°C<br>TRIP | AMPERES<br>AT 20°C<br>HOLD | AMPERES<br>AT 20°C<br>TRIP | AMPERES<br>AT 60°C<br>HOLD | AMPERES<br>AT 60°C<br>TRIP | SECONDS AT<br>20°C, 1.0A<br>MAX |  | OHMS<br>AT 20°C<br>MIN          | OHMS<br>AT 20°C<br>MAX | OHMS<br>AT 20°C<br>MAX                                  | WATTS AT<br>20°C<br>NOMINAL               |
|                                    | .20                     | .24                       | .48                       | .20                        | .40                        | .13                        | .26                        | 2.2                             |  | 1.83                            | 2.75                   | 4.40                                                    | .41                                       |

**Recognitions:**

UL, CSA and TUV approved.

**Reference Documents:**

Approved by UL as a current limiting impedance, per the 1996 NEC, Tables 11 (c) and 11 (b).  
 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.