

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: RUE090S

DOCUMENT: SCD 23817
 PCN: 615781
 REV LETTER: E
 REV DATE: JANUARY 28, 2003
 PAGE NO.: 1 OF 1



Specification Status: RELEASED

Electrical Rating
Voltage: 30V MAX
Current: 40A MAX

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

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

Marking:

-  30 — Raychem Logo and Voltage
- U090 — Part Identification
-  — Lot Identification (can be on back)

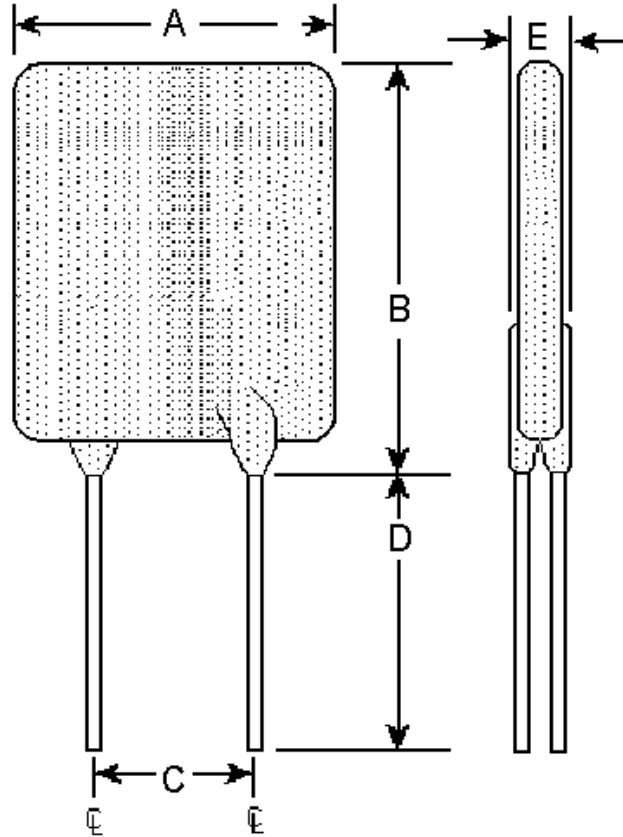


TABLE I. DIMENSIONS:

| 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 HOLD | CURRENT RATINGS | | TIME TO TRIP | RESISTANCE | | ONE-HOUR POST-TRIP RESISTANCE STANDARD TRIP | NOMINAL TRIPPED POWER DISSIPATION |
|-----------|-------------------|-------------------|---------------------------|------------------|------------------|---------------------------------------------|-----------------------------------|
| 20°C HOLD | AMPS AT 20°C HOLD | AMPS AT 20°C TRIP | SECONDS AT 20°C, 4.5A MAX | OHMS AT 20°C MIN | OHMS AT 20°C MAX | OHMS AT 20°C MAX | WATTS AT 20°C |
| 0.90 | 0.90 | 1.80 | 5.9 | 0.07 | 0.12 | 0.22 | 0.6 |

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