

# Raychem Corporation

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## R PolySwitch® PTC Devices Resettable Fuse

PRODUCT: RTE190

DOCUMENT: SCD 24309  
PCN: 605133  
REV LETTER: B  
REV DATE: MARCH 26, 1999  
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:

Raychem Logo  
and Voltage  
X 33  
T190  
Part Identification  
Lot Identification  
(can be on back)

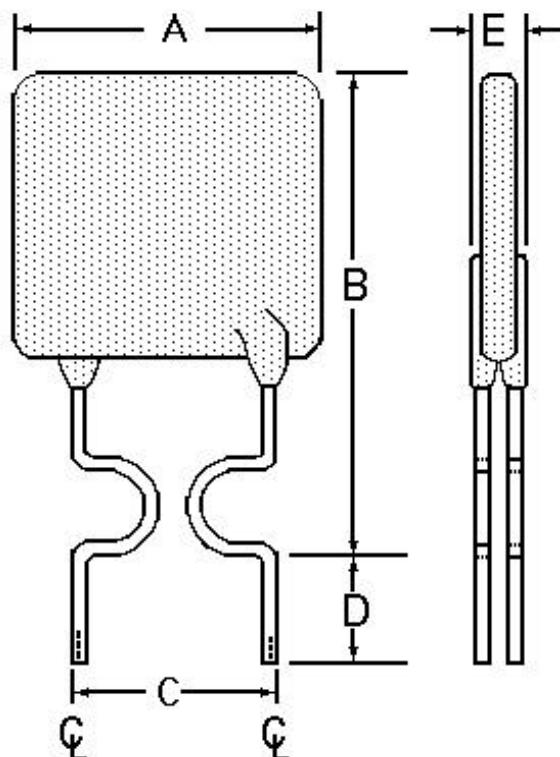


TABLE I. DIMENSIONS:

|      | A   |        | B   |        | C      |        | D      |     | E   |        | F   |
|------|-----|--------|-----|--------|--------|--------|--------|-----|-----|--------|-----|
|      | MIN | MAX    | MIN | MAX    | MIN    | MAX    | MIN    | MAX | MIN | MAX    | TYP |
| mm:  | --  | 8.9    | --  | 13.5   | 4.3    | 5.8    | 7.6    | --  | --  | 3.0    | --  |
| in*: | --  | (0.35) | --  | (0.53) | (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, 9.5A MAX | OHMS AT 20°C MIN | OHMS AT 20°C MAX | SECONDS AT 20°C MAX                         | WATTS AT 20°C                      |
| 1.90           | 1.90              | 3.0               | 3.5                       | 0.045            | 0.063            | 0.092                                       | 0.90                               |

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

Recognitions:

UL/CSA/TUV pending

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.