

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

**PRODUCT: RUEF090**

DOCUMENT: SCD25169

REV LETTER: G

REV DATE: AUGUST 06, 2013

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**Specification Status: Released**

Maximum Electrical Rating at 20°C

30 V<sub>DC</sub> /100 A<sub>DC</sub>

30 V<sub>AC</sub> /70 A<sub>RMS</sub>

Insulating Material:

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

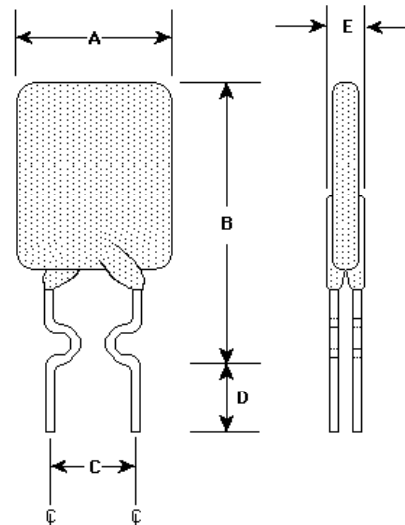
Lead Material:

24 AWG Tin Plated Copper Clad Steel

Marking:

— Manufacturer's Mark  
XX U90 and Part Identification

□ □ □ □ — Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
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	CURRENT RATINGS		TIME TO TRIP	RESISTANCE		ONE-HOUR POST-TRIP RESISTANCE STANDARD TRIP	TRIPPED POWER DISSIPATION	
AMPS 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 NOMINAL	WATTS AT 20°C MAX
0.90	0.90	1.80	5.9	0.07	0.12	0.22	0.60	0.97

Agency Recognitions:

UL, CSA, TUV, CQC

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.

**Materials Information**

ROHS Compliant

ELV Compliant

Pb-Free

Halogen Free\*

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant



\* Halogen Free refers to: Br≤900ppm, Cl≤900ppm, Br+Cl≤1500ppm.