

**Raychem Circuit Protection**

308 Constitution Drive  
Menlo Park, CA 94025-1164  
800-227-4856  
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**Raychem****PolySwitch®****PTC Devices**

Resettable Fuse

**PRODUCT: AGR1100**

DOCUMENT: SCD 24447

PCN: 018025

REV LETTER: E

REV DATE: MAY 8, 2000

PAGE NO.: 1 OF 2

**Specification Status: RELEASED****Electrical Rating****Voltage: 16V<sub>DC</sub> MAX****INSULATING MATERIAL:**

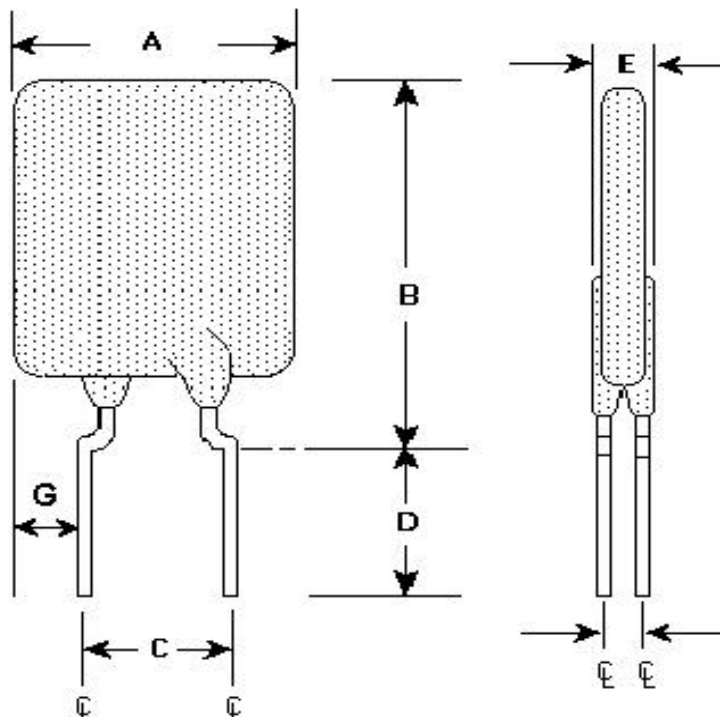
Cured, Flame Retarded Epoxy Polymer

**LEAD MATERIAL:**

20 AWG Tin/Lead Plated Copper  
(0.8 mm [0.032] nom. diameter)

**PART MARKING:**

Raychem Logo and Voltage  
X 16  
G11 — Part Identification  
□ □ □ □ — Lot Identification (can be on back)

**TABLE I. INSTALLATION ENVELOPE DIMENSIONS:**

	A		B		C		D		E		F	G	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	TYP	MIN	MAX
mm:	--	17.5	--	26.5	4.3	5.8	7.6	--	--	3.0	1.2	--	7.47
in*:	--	(0.69)	--	(1.04)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.294)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS			TIME TO TRIP	INITIAL RESISTANCE		R <sub>1</sub> MAX 1 HR. POST TRIP RESISTANCE STANDARD TRIP	RA MAX	TRIPPED-STATE POWER DISSIPATION
HOLD AT R <sub>1</sub> MAX	AMPS AT 25°C HOLD AT R <sub>A</sub> MAX	TRIP	SECONDS AT 25°C, 55 A MAX	OHMS AT 25°C MIN	OHMS AT 25°C MAX	OHMS AT 25°C	OHMS AT 25°C	WATTS AT 25°C TYP
11.0	10.5	20.3	7.5	0.0033	0.0060	0.0089	0.0093	3.7

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Reference Documents: PS400, PS300 (reference for  $R_1$  MAX)  
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.

**TABLE III. AUTOMOTIVE SPECIFIC STRESS TESTS AND TEST CONDITIONS:**

ELECTRICAL STRESS TESTS	TEST CONDITIONS (see note 2)
ESD Voltage Withstand (see note 1)	25kV
Short Circuit Fault Current Durability	25 cycles, 16V, 200A
Fault Current Durability	350 cycles, 16V/100A
End-of-life Mode Verification	1750 cycles, 16V/100A
Jump Start Endurance (see note 1)	3 cycles, 26V, 1 minute duration
Load Dump Endurance (see note 1)	10 cycles, 86.5V

Note 1: The PolySwitch devices are tested in series with a load resistance and the voltages specified in the test conditions are shared between the PolySwitch device and the load resistance as specified in PS400.

Note 2: Please refer to Appendix A of PS400 for the detailed test procedures

# Mouser Electronics

Authorized Distributor

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