

**Raychem Circuit Protection**

308 Constitution Drive  
Menlo Park, CA 94025-1164  
800-227-4856  
FAX 800-227-4866

**R**  
**Circuit Protection®**  
**PTC Devices**  
Resettable Fuse

**PRODUCT: AHR600S**

DOCUMENT: SCD24598  
PCN: 370994  
REV LETTER: A  
REV DATE: JUNE 26, 2000  
PAGE NO.: 1 OF 2

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

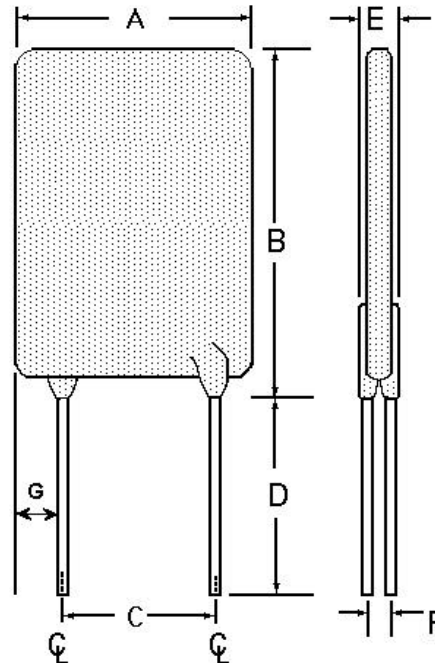
Cured, Flame Retarded Epoxy Polymer

**LEAD MATERIAL:**

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

**PART MARKING:**

Raychem Logo  
and Voltage  
X 16  
H6 — 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:	--	11.2	--	20.4	4.3	5.8	7.6	--	--	3.0	1.2	--	4.19
in*:	--	(0.44)	--	(0.80)	(0.17)	(0.23)	(0.30)	--	--	(0.12)	(0.05)	--	(0.165)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS:**

CURRENT RATINGS		TIME TO TRIP		RESISTANCE		R <sub>a</sub> MAX	TRIPPED-STATE POWER DISSIPATION
AMPS AT 25°C		SECONDS AT 25°C, 30 A		OHMS AT 25°C		OHMS AT 25°C	
HOLD	TRIP	MAX		MIN	MAX		
6.0	12.0	6.5		.010	.022	0.032	WATTS AT 25°C TYP
							4.1

**Reference Documents:**

PS400, 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.

**Raychem Circuit Protection**

308 Constitution Drive  
Menlo Park, CA 94025-1164  
800-227-4856  
FAX 800-227-4866

**R**  
**Circuit Protection®**  
**PTC Devices**  
Resettable Fuse

**PRODUCT: AHR600S**

DOCUMENT: SCD24598  
PCN: 370994  
REV LETTER: A  
REV DATE: JUNE 26, 2000  
PAGE NO.: 2 OF 2

**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