## **AZ960**.

# MINIATURE POWER RELAY

#### **FEATURES**

- 1 Form A or 1 Form C
- Standard and sensitive coils
- High in-rush capability
- All plastics rated 94V-0
- UL, CUR file E44211
- Epoxy sealed version available



#### **CONTACTS**

Arrangement	SPST NO (1 Form A) SPDT (1 Form C)	
Ratings UL, CUR	Resistive load: Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 30 VDC or 250 VAC 5 A at 250 VAC  1/10 HP 125, 250 VAC	
Minimum Load	5 VDC, 0.1 A	
Material	Silver alloy	
Resistance	< 100 milliohms initially (24 V, 1 A voltage drop method)	

#### COIL

Power			
At Pickup Voltage (typical)	Standard coil: 176 mW Sensitive coil: 129 mW		
Max Continuous Dissipation	1.3 W at 20°C (68°F) 0.9 W at 40°C (104°F)		
Temperature Rise	At nominal coil voltage: Standard coil: 31°C (56°F) Sensitive coil: 23°C (41°F)		
Max. Temperature	105°C (221°F)		

#### **NOTES**

- 1. All values at 20°C (68°F).
- 2. Relay may pull in with less than "Must Operate" value.
- 3. Specifications subject to change without notice.

#### **GENERAL DATA**

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 <sup>7</sup> 1 x 10 <sup>5</sup> at rated load		
Operate Time (typical)	10 ms at nominal coil voltage		
Release Time (typical)	5 ms at nominal coil voltage (with no coil suppression)		
Dielectric Strength (at sea level for 1 min.)	2000 Vrms coil to contact 750 Vrms contact to contact		
Insulation Resistance	1000 megohms min. at 500 VDC, 20°C, 50% RH		
Dropout	Greater than 5% of nominal coil voltage		
Ambient Temperature Operating Standard: Sensitive:	40°C (-40°F) to 75°C (167°F) 40°C (-40°F) to 80°C (176°F)		
Storage	40°C (-40°F) to 105°C (221°F)		
Vibration	0.062" DA at 10-55 Hz		
Shock	10 g		
Enclosure	P.B.T. polyester		
Terminals	Tinned copper alloy, P.C.		
Max. Solder Temp.	250°C (482°F)		
Max. Solder Time	5 seconds		
Max. Solvent Temp.	80°C (176°F)		
Max. Immersion Time	30 seconds		
Weight	8 grams		



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#### **RELAY ORDERING DATA**

STANDARD RELAYS						
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	ORDER NUMBER*		
5	3.5	9.5	69	AZ960-1C-5D		
6	4.2	11.4	100	AZ960-1C-6D		
9	6.3	17.1	225	AZ960-1C-9D		
12	8.4	22.8	400	AZ960-1C-12D		
14	9.8	26.6	544	AZ960-1C-14D		
18	12.6	34.2	900	AZ960-1C-18D		
24	16.8	45.6	1600	AZ960-1C-24D		
48	33.6	91.2	6400	AZ960-1C-48D		
SENSITIVE RELAYS						
	COIL SPEC	IFICATIONS				
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ±10%	ORDER NUMBER*		
5	3.6	11.4	100	AZ960-1C-5DS		
6	4.3	13.7	145	AZ960-1C-6DS		
9	6.5	20.6	325	AZ960-1C-9DS		
12	8.6	27.3	575	AZ960-1C-12DS		
14	10.1	32.0	790	AZ960-1C-14DS		

41.1

54.3

109.5

1300

2310

9220

13.0

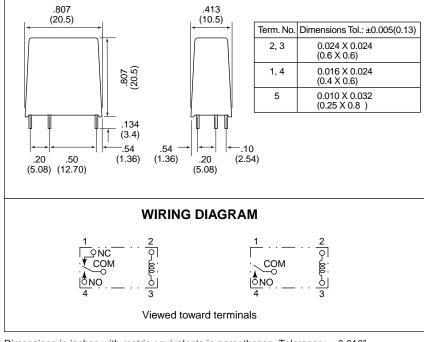
17.3

34.7

#### **MECHANICAL DATA**

18

24



Dimensions in inches with metric equivalents in parentheses. Tolerance: ±0.010"

### PC BOARD LAYOUT .047 (1.2) 3 places .039 (1.0) 2 places .20 (5.08) .30 (7.62) .10 (2.54) .0571 (1.44) .10 (2.54) .10 (12.7).039 (1.0) 2 places .30 (7.62) .10 (2.54) .047 (1.2) 2 places (12.7)Viewed toward terminals

AZ960-1C-18DS

AZ960-1C-24DS

AZ960-1C-48DS

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<sup>\*</sup>Add suffix "E" for epoxy sealed version. Substitute "1A" in place of the "1C" to indicate 1 Form A.