

# 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

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

### COIL

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

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



## AMERICAN ZETTLER, INC.

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Rev. 7/10/97

# AZ960

## RELAY ORDERING DATA

STANDARD RELAYS				
COIL SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	
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 SPECIFICATIONS				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	
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
18	13.0	41.1	1300	AZ960-1C-18DS
24	17.3	54.3	2310	AZ960-1C-24DS
48	34.7	109.5	9220	AZ960-1C-48DS

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

## MECHANICAL DATA

Term. No.	Dimensions Tol.: $\pm 0.005(0.13)$
2, 3	0.024 X 0.024 (0.6 X 0.6)
1, 4	0.016 X 0.024 (0.4 X 0.6)
5	0.010 X 0.032 (0.25 X 0.8)

### PC BOARD LAYOUT

### WIRING DIAGRAM

Viewed toward terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm 0.010$ "



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