

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	Resistive load: Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 30 VDC or 250 VAC
UL, CUR	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	Minimum operations
Mechanical	1 x 10 ⁷
Electrical	1 x 10 ⁵ 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:	40°C (-40°F) to 75°C (167°F)
Sensitive:	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				
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: ± 0.010 "

AMERICAN ZETTLER, INC.

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PHONE: (949) 831-5000

www.azettler.com

E-MAIL: SALES@AZETTLER.COM

This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.