

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 Mechanical Electrical	Minimum operations 1 x 10 ⁷ 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: 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				
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 "

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