

AZ961

MINIATURE POWER RELAY

FEATURES

- 1 Form A or 1 Form C
- Standard and sensitive coils
- All plastics rated 94V-0
- Epoxy sealed version available
- Class B insulation system
- UL, CUR file E43203

CONTACTS

Arrangement	SPST NO (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: 1 Form A Max. switched power: 150 W or 1250 VA Max. switched current: 5 A Max. switched voltage: 150 VDC* or 300 VAC 1 Form C Max. switched power: 150 W N.O. or 1250 VA Max. switched current: 5 A Max. switched voltage: 150 VDC* or 300 VAC *NOTE: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL, CUR	1 Form A 5 A at 250 VAC, General Use, 10k cycles [1] 3 A at 30 VDC, Resistive, 10k cycles [1] 5 A at 250 VAC, General Use, 100k cycles [2][3] 1 Form C 5 A at 250 VAC, General Use, 10k cycles [1] N.O. 3 A at 250 VAC, General Use, 10k cycles [1] N.C. 5 A at 30 VDC, Resistive, 10k cycles [1] N.O. 3 A at 30 VDC, Resistive, 10k cycles [1] N.C. 5 A at 250 VAC, General Use, 100k cycles [2][3] N.O. 5 A at 250 VAC, General Use, 100k cycles [2][3] N.C. B300 Pilot Duty N.O. [1] Silver cadmium oxide [1], silver tin oxide [2], silver nickel [3]
Material	Silver cadmium oxide, silver tin oxide or silver nickel Gold plating available

COIL

Power At Pickup Voltage (typical) Max Continuous Dissipation Temperature Rise	Standard coil: 176 mW Sensitive coil: 129 mW 1.5 W at 20°C (68°F) At nominal coil voltage: Standard coil: 27°C (49°F) Sensitive coil: 20°C (36°F)
Max. Temperature	130°C (266°F)



GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 5 A 240 VAC Res. N.O.
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 1000 Vrms between open contacts 4000 surge (2 x 10 us) coil 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 95°C (203°F) 40°C (-40°F) to 100°C (212°F)
Storage	40°C (-40°F) to 130°C (266°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

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.



AMERICAN ZETTLER, INC.

www.azettler.com

75 COLUMBIA ALISO VIEJO, CA 92656 • PHONE: (949) 831-5000 FAX: (949) 831-8642 E-MAIL: SALES@AZETTLER.COM

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AZ961

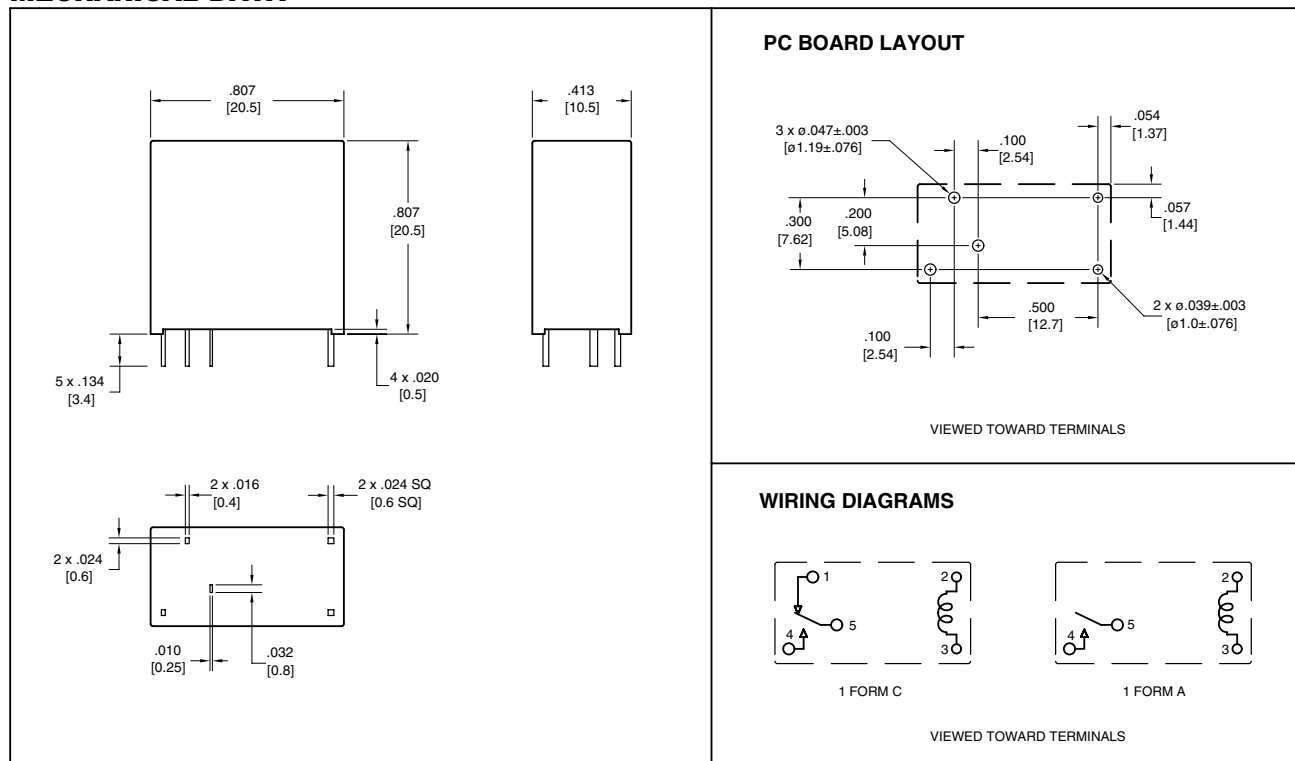
RELAY ORDERING DATA

STANDARD COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	1 Form A	1 Form C
3	6.1	25	2.1	AZ961-1A-3D	AZ961-1C-3D
5	10.2	69	3.5	AZ961-1A-5D	AZ961-1C-5D
6	12.2	100	4.2	AZ961-1A-6D	AZ961-1C-6D
9	18.4	225	6.3	AZ961-1A-9D	AZ961-1C-9D
12	24.5	400	8.4	AZ961-1A-12D	AZ961-1C-12D
18	36.7	900	12.6	AZ961-1A-18D	AZ961-1C-18D
24	48.9	1600	16.8	AZ961-1A-24D	AZ961-1C-24D
48	97.9	6400	33.6	AZ961-1A-48D	AZ961-1C-48D

SENSITIVE COIL					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance $\pm 10\%$	Must Operate VDC	1 Form A	1 Form C
3	7.3	36	2.1	AZ961-1A-3DS	AZ961-1C-3DS
5	12.2	100	3.5	AZ961-1A-5DS	AZ961-1C-5DS
6	14.7	145	4.2	AZ961-1A-6DS	AZ961-1C-6DS
9	22.0	325	6.3	AZ961-1A-9DS	AZ961-1C-9DS
12	29.3	575	8.4	AZ961-1A-12DS	AZ961-1C-12DS
18	44.2	1300	12.6	AZ961-1A-18DS	AZ961-1C-18DS
24	58.9	2310	16.8	AZ961-1A-24DS	AZ961-1C-24DS
48	117.0	9220	33.6	AZ961-1A-48DS	AZ961-1C-48DS

*Add suffix "E" to "-1A" or "-1C" for silver tin oxide contacts. Add suffix "B" to "-1A" or "-1C" for silver nickel contacts. Add suffix "E" for epoxy sealed version. Add suffix "A" for gold plated contacts.

MECHANICAL DATA



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



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