

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 * Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory. 1 Form C Max. switched power: 150 W or 1250 VA (N.O.) 750 VA (N.C.) Max. switched current: 5 A (N.O.), 3 A (N.C.) Max. switched voltage: 150 VDC* or 300 VAC
UL, CUR	1 Form A: 5 A at 250 VAC, General Use 3 A at 30 VDC 1 Form C: 5 A / 3 A at 250 VAC, General Use 5 A / 3 A at 30 VDC (N.O. / N.C.) *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory.
Material	Silver cadmium oxide

GENERAL DATA

Life Expectancy	Minimum operations
Mechanical	1 x 10 ⁷
Electrical	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 V 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:	40°C (-40°F) to 75°C (167°F)
Sensitive:	40°C (-40°F) to 85°C (186°F)
Storage	40°C (-40°F) to 105°C (221°F)
Vibration	0.062" (1.5 mm) 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

COIL

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

Discontinuation Notice

Discontinuation date:

31.12.2012

Date of last order:

15.11.2012

Recommended replacement:

-

AZ961

RELAY ORDERING DATA

STANDARD COIL				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	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	1,600	16.8	AZ961-1A-24D	AZ961-1C-24D
48	97.9	6,400	33.6	AZ961-1A-48D	AZ961-1C-48D

SENSITIVE COIL				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance Ohm $\pm 10\%$	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	1,300	12.6	AZ961-1A-18DS	AZ961-1C-18DS
24	58.9	2,310	16.8	AZ961-1A-24DS	AZ961-1C-24DS
48	117.0	9,220	33.6	AZ961-1A-48DS	AZ961-1C-48DS

*For epoxy sealed version, add suffix "E".

MECHANICAL DATA

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

ZETTLER electronics GmbH

Junkersstrasse 3, D-82178 Puchheim, Germany

Tel. +49 89 800 97 0

Fax +49 89 800 97 200

office@ZETTLERelectronics.com

www.ZETTLERelectronics.com

2003-06-23