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 then 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.O. 5 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, 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.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)	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)

ZETTLER A2961-1A-240 SN SA 3000C

GENERAL DATA

Life Expectancy Mechanical Electrical	Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 5 A 240 VAC Res. N.O.			
Electrical	TX 10° at 5 A 240 VAC Hes. IN.U.			
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.



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AZ961

RELAY ORDERING DATA

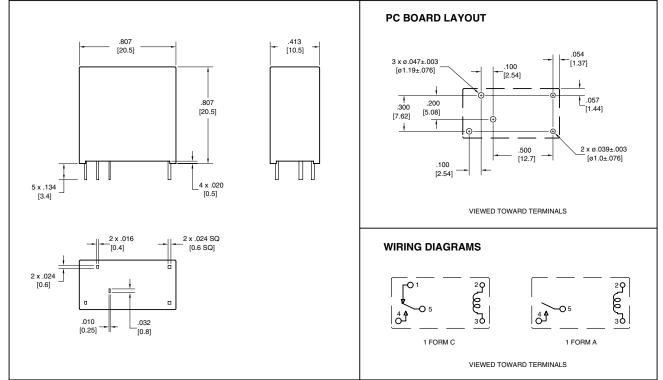
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance ±10%	Must Operate VDC	1 Form A	1 Form C
3	6.1	25	2.1	AZ961–1A–3D	AZ961-1C-3D
5	10.2	69	3.5	AZ961–1A–5D	AZ961-1C-5D
6	12.2	100	4.2	AZ961–1A–6D	AZ961-1C-6D
9	18.4	225	6.3	AZ961–1A–9D	AZ961-1C-9D
12	24.5	400	8.4	AZ961–1A–12D	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 ±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 conctacts. 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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