AZ940

10 AMP MINIATURE POWER RELAY

FEATURES

- 10 Amp switching capability
- SPST-N.O. and SPDT configurations
- 4 kV dielectric strength
- Epoxy sealed version available
- UL, CUR E43203

CONTACTS

Arrangement	SPST N.O. (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 150 W or 1250 VA (N.O.) 90 W or 750 VA (N.C.) Max. switched current: 10 A (N.O.), 3 A (N.C.). Max. switched voltage: 150 VDC* or 400 VAC, *Note: If switching voltage is greater than 30 VDC, special precautions must be taken. Please contact the factory.
UL, CUR (N.O.)	10 A at 125 VAC General Use, 100K cycles 5 A at 250 VAC General Use, 100K cycles 5 A at 30 VDC
UL, CUR (N.C.)	3 A at 250 VAC General Use, 100 K cycles 3 A at 30 VDC Resistor, 100K cycles
Material	Silver cadmium oxide
Resistance	< 0.1 Ohm (24 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	253 mW (Standard Coil) 113 mW (Sensitive Coil)
Max. Continuous Dissipation	940 mW at 20°C (68°F)
Temperature Rise	41°C (74°F) (Standard Coil) 18°C (32°F) (Sensitive Coil)
Temperature	Max. 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 (max.)	8 ms at nominal coil voltage
Release Time (max.)	5 ms at nominal coil voltage (with no coil suppression)
Dielectric Strength (at sea level for 1 min.)	1000 Vrms contact to contact 4000 Vrms contact to coil
Insulation Resistance	1 x 10^9 ohms minimum at 500 VDC
Dropout	Greater than 5% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 70°C (158°F) standard -40°C (-40°F) to 85°C (185°F) sensitive -40°C (-40°F) to 105°C (221°F)
Vibration	0.062" DA at 10–55 Hz
Shock **Operating** **Mechanical**	 10 g for 11 ms 1/2 sine pulse (no contact opening >100 usec) 100 g for 11 ms 1/2 sine pulse
Enclosure	P.B.T. polyester
Terminals	Tinned copper alloy, P.C.
Max. Solder Temp.	270°C (518°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Weight	7 grams

ZETTLER electronics

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2000-10-04

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RELAY ORDERING DATA

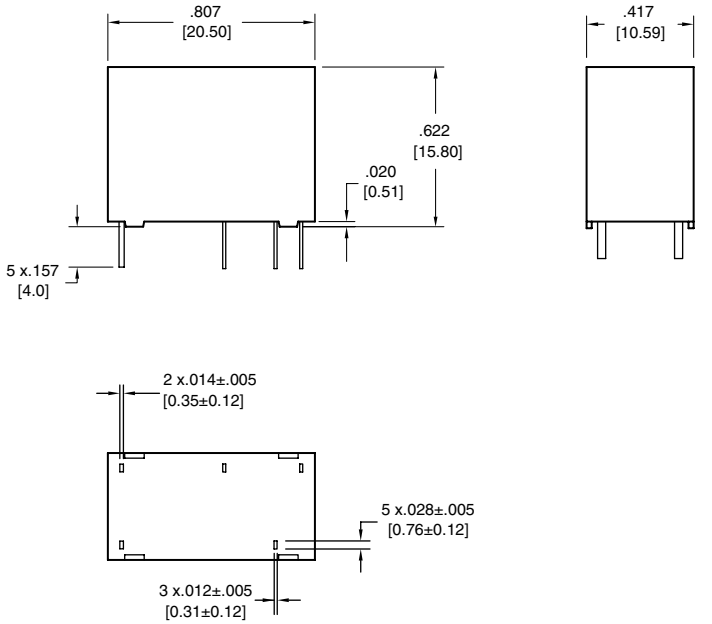
COIL SPECIFICATIONS – Standard Coil (SPDT and SPST)				ORDER NUMBER*
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	
3	2.3	4.3	20	AZ940–1C–3D
5	3.8	7.2	55	AZ940–1C–5D
6	4.5	8.7	80	AZ940–1C–6D
9	6.8	13.0	180	AZ940–1C–9D
12	9.0	17.3	320	AZ940–1C–12D
18	13.5	26.0	720	AZ940–1C–18D
24	18.0	34.7	1280	AZ940–1C–24D

*Add suffix “E” for sealed version. Substitute “1A” for “1C” for SPST version.

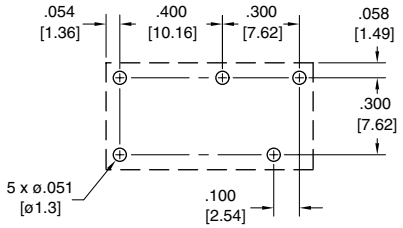
COIL SPECIFICATIONS – Sensitive Coil (SPST)				ORDER NUMBER**
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	
3	2.3	6.5	45	AZ940–1A–3DS
5	3.8	10.8	125	AZ940–1A–5DS
6	4.5	13.0	180	AZ940-1A-6DS
9	6.8	19.4	400	AZ940–1A–9DS
12	9.0	26.0	720	AZ940–1A–12DS
18	13.5	39.0	1600	AZ940–1A–18DS
24	18.0	51.3	2800	AZ940–1A–24DS

**Add suffix “E” for epoxy sealed version.

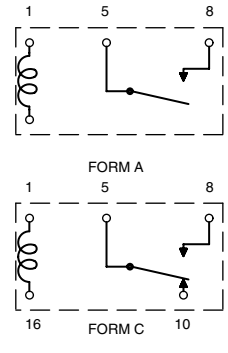
MECHANICAL DATA



PC BOARD LAYOUT



WIRING DIAGRAM



VIEWED TOWARD TERMINALS

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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