

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 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 |
| Resistance | < 100 milliohms initially (6 V 1 A voltage drop method) |

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 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: Sensitive: | 40°C (-40°F) to 75°C (167°F) 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) 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) |

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

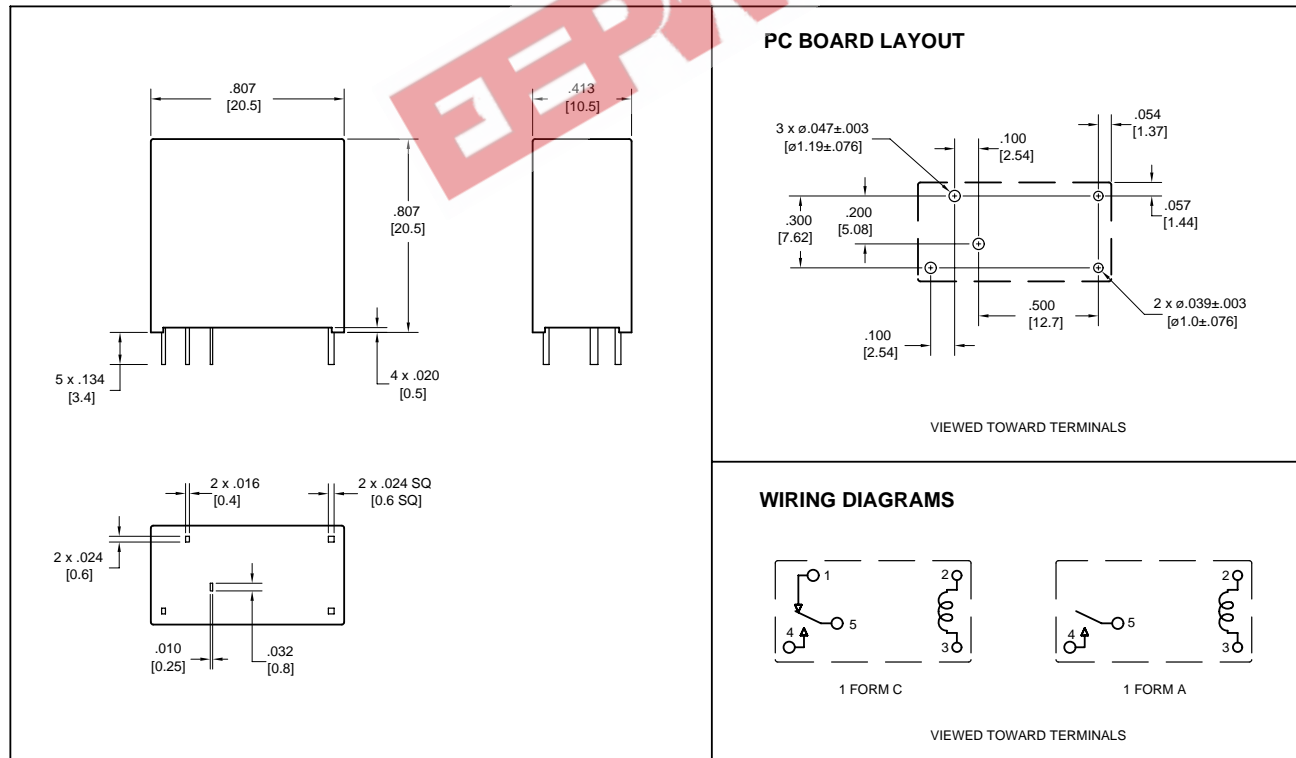
RELAY ORDERING DATA

| STANDARD COIL | | | | | |
|---------------------|---------------------|--------------------------------|------------------|---------------|--------------|
| 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 | | | | | |
|---------------------|---------------------|--------------------------------|------------------|---------------|---------------|
| 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 | 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 "

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