

AZ7671

10A SPDT SUBMINIATURE POWER RELAY FEATURES

- Small footprint
- Low cost
- Class B insulation standard
- Epoxy sealed version available
- 10 Amp switching
- UL, CUR file E44211



CONTACTS

| | |
|-------------------------------|--|
| Arrangement | SPST (1 Form A) SPDT (1 Form C) |
| Ratings | Resistive load: Max. switched power: 150W 1250VA Max. switched current: 10A Max. switched voltage: 30VDC* or 277VAC *Note: If switching voltage is greater than 30VDC, special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR | 10A at 125VAC 5A at 250VAC 1/4HP at 120/240/277VAC TV-5 at 120VAC 24VA at 24VAC 125VA at 120/240/277VAC C150 at 120VAC |
| Material | Silver cadmium oxide |
| Resistance | <100 milliohms initially (24V, 1A voltage drop method) |

GENERAL DATA

| | |
|---|--|
| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 5A, 240VAC Res. |
| Operate Time (typical) | 8ms at nominal coil voltage |
| Release Time (typical) | 5ms at nominal coil voltage (with no coil suppression) |
| Dielectric Strength (at sea level for 1 min.) | 2000Vrms coil to contact 1000Vrms between open contacts |
| Insulation Resistance | 100 megohms min. at 20°C 500VDC 50% RH |
| 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) -40°C (-40°F) to 130°C (266°F) |
| Vibration | 0.062" DA at 10–50 Hz |
| Shock | 10 g |
| 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 | 6 grams |

COIL

| | |
|---|---|
| Power At Pickup Voltage (typical) Max. Continuous Dissipation Temperature Rise | 253mW standard 1.25W at 20°C (68°F) ambient 41°C (74°F) at nominal coil voltage, standard |
| 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.

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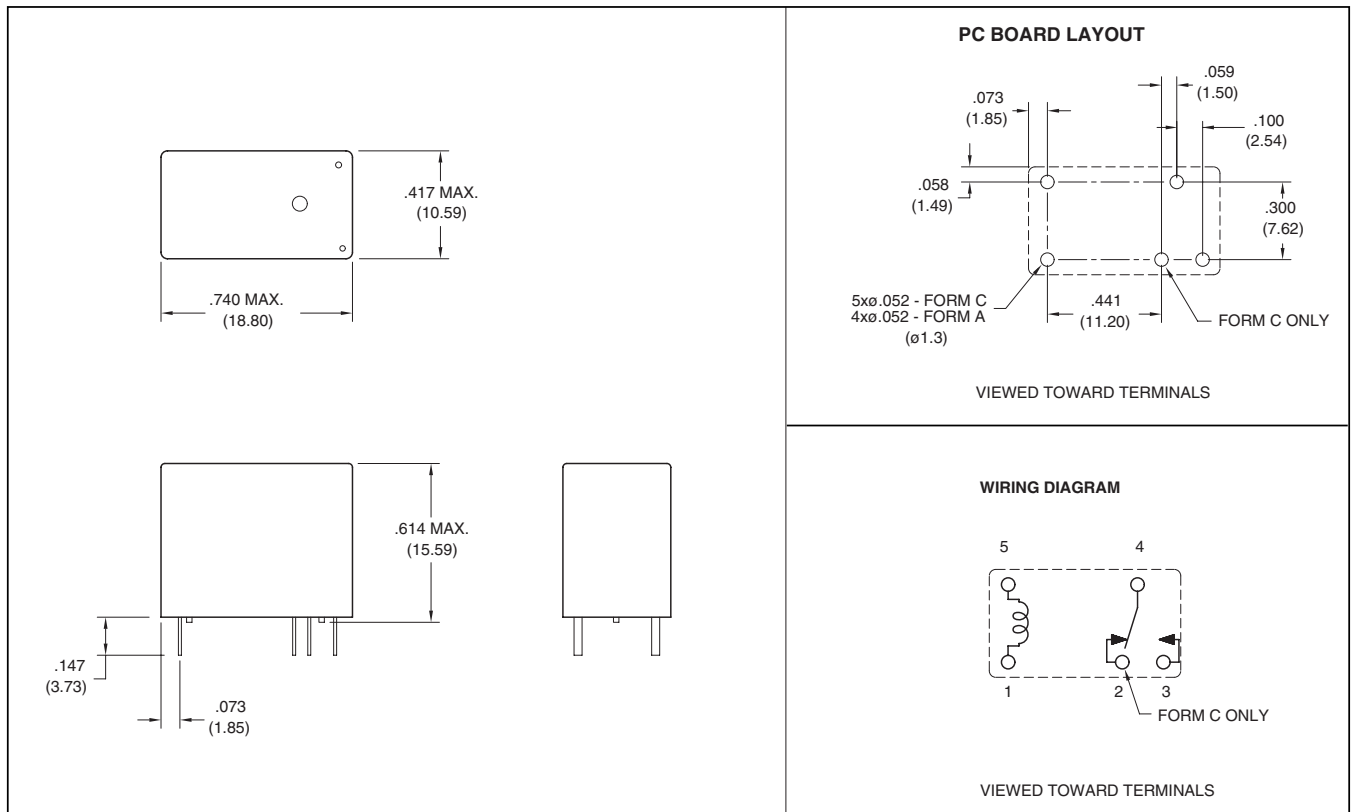
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RELAY ORDERING DATA

| STANDARD RELAYS | | | | | |
|---------------------|------------------|---------------------|----------------------------|---------------|---------------|
| COIL SPECIFICATIONS | | | | ORDER NUMBER* | |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance $\pm 10\%$ | Form A (SPST) | Form C (SPDT) |
| 3 | 2.25 | 3.9 | 20 | AZ7671-1A-3D | AZ7671-1C-3D |
| 5 | 3.75 | 6.5 | 55 | AZ7671-1A-5D | AZ7671-1C-5D |
| 6 | 4.5 | 7.8 | 80 | AZ7671-1A-6D | AZ7671-1C-6D |
| 9 | 6.75 | 11.7 | 180 | AZ7671-1A-9D | AZ7671-1C-9D |
| 12 | 9.0 | 15.6 | 320 | AZ7671-1A-12D | AZ7671-1C-12D |
| 18 | 13.5 | 23.4 | 720 | AZ7671-1A-18D | AZ7671-1C-18D |
| 24 | 18.0 | 31.2 | 1,280 | AZ7671-1A-24D | AZ7671-1C-24D |

* Add suffix "E" for epoxy sealed version.

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

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This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.