SPST SUBMINIATURE POWER RELAY

FEATURES

- Small footprint
- · Low seated height
- Low cost
- Epoxy sealed version available
- 12 Amp switching
- UL, CUR file E44211



CONTACTS

| Arrangement | SPST (1 Form A) | | | | | |
|-----------------------|---|--|--|--|--|--|
| Ratings | Resistive load: | | | | | |
| | Max. switched power: 300 W or 2770 VA Max. switched current: 13.5 A 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. | | | | | |
| Rated Load UL, CUR | 13.5 A at 125 VAC, Resistive, 6k cycles 12 A at 125 VAC, General use, 100k cycles 10 A at 277 VAC, General use, 100k cycles 8 A at 120 VAC, Resistive, 6k cycles 5 A at 250 VAC, General use, 100k cycles 10 A at 30 VDC, Resistive, 100k cycles 5 A at 30 VDC, Resistive, 100k cycles 1/4 HP at 125 VAC / 250 VAC TV-5 | | | | | |
| Material | Silver tin exide | | | | | |
| Resistance | < 50 milliohms initially | | | | | |

| Power | |
|---|-------------------------------------|
| At Pickup Voltage | 253 mW |
| (typical) Max. Continuous Dissipation | 1.3 W at 20°C (68°F) ambient |
| T <mark>empe</mark> rature Rise | 39°C (70°F) at nominal coil voltage |
| Temperature | Max. 130°C (266°F) |

GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations 1 x 10 ⁷ 1 x 10 ⁵ at 12 A 125 VAC Res. | | |
|---|---|--|--|
| Operate Time (typical) | 8 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.) | 2500 Vrms coil to contact 1000 Vrms between open contacts | | |
| Insulation Resistance | 1000 megohms min. at 20°C 500 VDC 50% RH | | |
| Dropout | Greater than 5% of nominal coil voltage | | |
| Ambient Temperature Operating | At nominal coil voltage -40°C (-40°F) to 85°C (188°F) | | |
| Vibration | 0.040" (1.0 mm) DA at 10-50 Hz | | |
| Shock | 10 g operating, 100 g damage | | |
| 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 | | |
| Packing unit in pcs | 20 per plastic tube / 1500 per carton box | | |

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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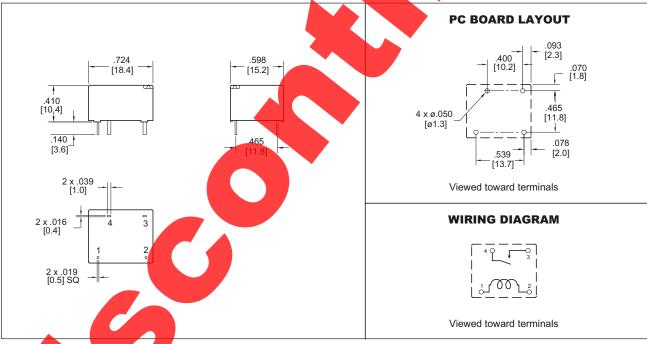
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| COIL SPECIFICATIONS | | | ORDER NUMBER | | |
|---------------------|---------------------|------------------------|------------------------------|--------------|-----------------------------|
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | Coil Resistance Ohm ± 10% | Unsealed | Sealed |
| 3 | 2.25 | 5.0 | 20 | AZ766-1A-3D | AZ766-1A-3DE |
| 5 | 3.75 | 8.4 | 55 | AZ766-1A-5D | AZ7 <mark>66-</mark> 1A-5DE |
| 6 | 4.5 | 10.2 | 80 | AZ766-1A-6D | AZ766-1A-6DE |
| 9 | 6.75 | 15.3 | 180 | AZ766-1A-9D | AZ766-1A-9DE |
| 12 | 9.0 | 20.4 | 320 | AZ766-1A-12D | AZ766-1A-12DE |
| 18 | 13.5 | 30.6 | 720 | AZ766-1A-18D | AZ766-1A-18DE |
| 24 | 18.0 | 40.8 | 1,280 | AZ766-1A-24D | AZ766-1A-24DE |

MECHANICAL DATA



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

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