## MINIATURE

## POWER RELAY

## FEATURES

- Compact size for dense PCB layouts
- High power contacts (10A) for use in consumer appliances, HVAC, TV
- Withstands surges of up to 10,000 volts
- Epoxy sealed version available
- UL file E44211; CSA file LR74120
- TÜV file BL980934205001


## CONTACTS

| Arrangement | SPST - NO |
| :---: | :---: |
| Ratings | Non - inductive load: <br> Max. switched power: 240 W or 2000 VA <br> Max. switched current: 8A (DC), 10A (AC) <br> Max. switched voltage: $150^{*}$ VDC or 250 VAC <br> *Note: If switching voltage is greater than 30 VDC , special precautions must be taken. Please contact the factory. |
| Rated Load UL, CUR, TÜV UL, CUR | 10 A at 125 VAC resistive 8 A at 250 VAC resistive 8 A at 30 VDC resistive TV5 <br> 1/8 HP, 125 VAC / 277 VAC |
| Material | Silver tin indium oxide |
| Resistance | < 100 milliohms initially <br> ( $6 \mathrm{~V}, 1 \mathrm{~A}$ voltage drop method) |

## COIL

| Power <br> At Pickup Voltage <br> (typical) | 300 mW |
| :--- | :--- |
| Max. Continuous <br> Dissipation <br> Temperature Rise | 1 W at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ ambient |
| Temperature | Max. $105^{\circ} \mathrm{C}$ at nominal coil voltage |

## NOTES

1. All values at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$.
2. Relay may pull in with less than "Must Operate" value.
3. Specifications subject to change without notice.
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## GENERAL DATA

| Life Expectancy Mechanical Electrical | $\begin{aligned} & 2 \times 10^{6} \\ & 1 \times 10^{5} \text { at } 10 \text { A } 120 \text { VAC Res. } \end{aligned}$ |
| :---: | :---: |
| Operate Time (typical) | 10 ms at nominal coil voltage |
| Release Time (typical) | 6 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 $10,000 \mathrm{~V}$ surge contact to coil |
| Insulation Resistance | 1000 megohms min. at $20^{\circ} \mathrm{C}$, 500 VDC, $50 \%$ RH |
| Dropout | $5 \%$ of nominal coil voltage |
| Ambient Temperature Operating Storage | $\begin{aligned} & -40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right) \text { to } 70^{\circ} \mathrm{C}\left(158^{\circ} \mathrm{F}\right) \\ & -40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right) \text { to } 105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right) \end{aligned}$ |
| Vibration | 1.5 mm DA at $10-55 \mathrm{~Hz}$ |
| Shock | 10 g |
| Enclosure | Plastic |
| Terminals | PC, tinned |
| Max. Solder Temp. | $250^{\circ} \mathrm{C}\left(482^{\circ} \mathrm{F}\right)$ |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | $80^{\circ} \mathrm{C}$ |
| Max. Immersion Time | 30 seconds |
| Weight | 12 grams (approx.) |

## RELAY ORDERING DATA

| COIL SPECIFICATIONS - STANDARD RELAY |  | ORDER NUMBER |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Coil <br> VDC | Must Operate <br> VDC | Max. Continuous <br> VDC | Coil Resistance <br> $\pm 10 \%$ | Unsealed | Sealed |
| 3 | 2.25 | 3.9 | 17 | AZ672-1A-3D | AZ672-1A-3DE |
| 5 | 3.75 | 6.5 | 47.2 | AZ672-1A-5D | AZ672-1A-5DE |
| 6 | 4.5 | 6.8 | 67.9 | AZ672-1A-6D | AZ672-1A-6DE |
| 9 | 6.75 | 11.7 | 153 | AZ672-1A-9D | AZ672-1A-9DE |
| 12 | 9 | 15.6 | 272 | AZ672-1A-12D | AZ672-1A-12DE |
| 24 | 18 | 31.2 | 1,090 | AZ672-1A-24D | AZ672-1A-24DE |
| 48 | 36 | 62.4 | 4,350 | AZ672-1A-48D | AZ672-1A-48DE |

## MECHANICAL DATA



