## SPST SUBMINIATURE POWER RELAY

## FEATURES

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



## CONTACTS

| Arrangement | SPST (1 Form A) |
| :--- | :--- |
| Ratings | Resistive load: <br> Max. switched power: 150 W or 1250 VA <br> Max. switched current: 10 A <br> Max. switched voltage: 30* VDC or 250 VAC <br> *Note: If switching voltage is greater than 30 VDC, special <br> precautions must be taken. Please contact the factory. |
| Rated Load <br> UL, CUR | 10 A at 125 VAC, 5 A at 250 VAC <br> 5 A at 30 VDC |
| Material | Silver cadmium oxide |
| Resistance | $<50$ milliohms initially <br> (24 V, 1 A voltage drop method) |

## COIL

| Power <br> At Pickup Voltage <br> (typical) | 253 mW |
| :--- | :--- |
| Max. Continuous |  |
| Dissipation |  |
| Temperature Rise |  |
| Temperature | $42^{\circ} \mathrm{C}\left(76^{\circ} \mathrm{F}\right)$ at nominal coil voltage |

GENERAL DATA

| Life Expectancy Mechanical Electrical | $\begin{aligned} & \text { Minimum operations } \\ & 1 \times 10^{7} \\ & 1 \times 10^{5} \text { at } 10 \text { A } 120 \text { VAC Res. } \end{aligned}$ |
| :---: | :---: |
| 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 $20^{\circ} \mathrm{C}$ 500 VDC $50 \%$ RH |
| Dropout | Greater than 5\% of nominal coil voltage |
| Ambient Temperature Operating Storage | At nominal coil voltage $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $65^{\circ} \mathrm{C}\left(149^{\circ} \mathrm{F}\right)$ $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ |
| Vibration | 0.040" 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. | $270^{\circ} \mathrm{C}\left(518^{\circ} \mathrm{F}\right)$ |
| Max. Solder Time | 5 seconds |
| Max. Solvent Temp. | $80^{\circ} \mathrm{C}\left(176{ }^{\circ} \mathrm{F}\right)$ |
| Max. Immersion Time | 30 seconds |
| Weight | 6 grams |

## 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.

RELAY ORDERING DATA

| COIL SPECIFICATIONS |  |  |  | ORDER NUMBER* |
| :---: | :---: | :---: | :---: | :---: |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC | $\begin{gathered} \text { Coil } \\ \text { Resistance } \pm 10 \% \\ \hline \end{gathered}$ | 1 Form A |
| 3 | 2.25 | 4.7 | 20 | AZ765-1A-3D |
| 5 | 3.75 | 7.7 | 55 | AZ765-1A-5D |
| 6 | 4.5 | 9.4 | 80 | AZ765-1A-6D |
| 9 | 6.75 | 14.0 | 180 | AZ765-1A-9D |
| 12 | 9.0 | 18.7 | 320 | AZ765-1A-12D |
| 18 | 13.5 | 28.1 | 720 | AZ765-1A-18D |
| 24 | 18.0 | 37.5 | 1,280 | AZ765-1A-24D |
| 48 | 36.0 | 62.4 | 5,120 | AZ765-1A-48D |

*Add suffix "E" for epoxy sealed version.

## MECHANICAL DATA

(18.2]

Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010^{\prime \prime}$

