## 30 AMP MINIATURE POWER RELAY

## FEATURES

- Low cost
- 30 Amp switching
- 144 Amp inrush current
- Quick connect terminals
- Creepage distance more than 8 mm
- UL, CUR file E44211


## CONTACTS

| Arrangement | SPST N.O. (1 Form A) |
| :--- | :--- |
| Ratings | Resistive load: <br> Max. switched power: 7500 VA <br> Max. switched current: 30 A <br> Max. switched voltage: 250 VAC |
| Rated Load <br> UL, CUR | 30 A at 250 VAC Res. <br> 2 HP 125/250 VAC <br> TV-15 at 120 VAC |
| Material | Silver tin oxide |
| Resistance | $<30$ milliohms initially <br> (24 V, 1 A voltage drop method) |

## COIL

| Power <br> At Pickup Voltage <br> (typical) | 588 mW |
| :--- | :--- |
| Max. Continuous <br> Dissipation <br> Temperature Rise | 2.0 W at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ ambient |
| Temperature | Max. $105^{\circ} \mathrm{C}\left(54^{\circ} \mathrm{C}\right)$ at nominal coil voltage $\left(221^{\circ} \mathrm{F}\right)$ |

## 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.

GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations <br> $1 \times 10^{7}$ <br> $1 \times 10^{5}$ at 30 A 240 VAC Res. |
| :---: | :---: |
| Operate Time (typical) | 20 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 ) | 4000 Vrms coil to contact <br> 1200 Vrms between open contacts |
| Insulation Resistance | 1000 megohms min. at $20^{\circ} \mathrm{C}, 500$ VDC, 50\% RH |
| Dropout | Greater than 10\% of nominal coil volt age |
| Ambient Temperature Operating Storage | At nominal coil voltage $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $70^{\circ} \mathrm{C}\left(158^{\circ} \mathrm{F}\right)$ $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ |
| Vibration | 0.04" DA at $10-55 \mathrm{~Hz}$ |
| Shock <br> Operating Non-Operating | $10 \mathrm{~g}, 11 \mathrm{~ms}, 1 / 2$ sine (no false operation) $100 \mathrm{~g}, 11 \mathrm{~ms}, 1 / 2$ sine (no damage) |
| Enclosure | P.B.T. polyester |
| Terminals | Tinned copper alloy <br> P.C. \& quick connect <br> Note: Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force. |
| Weight | 55 grams |

RELAY ORDERING DATA

| COIL SPECIFICATIONS |  |  |  | ORDER NUMBER |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Nominal Coil } \\ \text { VDC } \end{gathered}$ | $\begin{gathered} \hline \text { Must Operate } \\ \text { VDC } \end{gathered}$ | Max. Continuous VDC | $\begin{gathered} \hline \text { Coil Resistance } \\ \pm 10 \% \\ \hline \end{gathered}$ | Form A (SPST N.O.) |
| 3 | 2.1 | 3.9 | 7.5 | AZ2310-1A-3D |
| 5 | 3.5 | 6.3 | 20 | AZ2310-1A-5D |
| 6 | 4.2 | 7.7 | 30 | AZ2310-1A-6D |
| 9 | 6.3 | 11.6 | 67 | AZ2310-1A-9D |
| 12 | 8.4 | 15.5 | 120 | AZ2310-1A-12D |
| 24 | 16.8 | 31.0 | 480 | AZ2310-1A-24D |
| 48 | 33.6 | 62.0 | 1920 | AZ2310-1A-48D |
| 60 | 42.2 | 77.5 | 3000 | AZ2310-1A-60D |

## MECHANICAL DATA



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

