## MINIATURE <br> POWER RELAY

## FEATURES

- AC coils
- Dielectric strength 5000 Vrms
- Low cost
- Flux tight package
- 10 Amp switching - single pole contacts
- Isolation spacing greater than 8 mm

- Molded materials: all 94V-0
- UL and Canadian file E43203


## CONTACTS

| Arrangement | SPST (1 Form A) <br> SPDT (1 Form C) |
| :--- | :--- |
| Ratings | Resistive load: <br> Max. switched power: $300 \mathrm{~W}, 2500 \mathrm{VA}$ <br> Max. switched current: 10 A <br> Max. switched voltage: $150 \mathrm{VDC} / 400 \mathrm{VAC}$ <br> Inductive load: (cosø $=0.4$ ) <br> Max. switched power: 150 W or 1875 VA <br> Max. Switched current: 10A <br> Max. switched voltage: 125 VDC or 400 VAC <br> Note: If switching voltage is greater than 30 vDC, special <br> precautions must be taken. Please contact the factory. <br> Rated Load <br> UL, CUR <br> Min. Load <br> Material <br> 1/2 250 VAC, resistive 277 VAC |
| Resistance | 5 VDC, .01 A |

## COIL

| Power <br> At Pickup Voltage <br> (typical) | 576 mW |
| :--- | :--- |
| Max. Continuous | 1.5 W at $20^{\circ} \mathrm{C}\left(68^{\circ} \mathrm{F}\right)$ ambient |
| Dissipation | 1.2 W at $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ambient |
| Temperature Rise | $36^{\circ} \mathrm{C}\left(65^{\circ} \mathrm{F}\right)$ at nominal coil voltage |
| Temperature | $\mathrm{Max} .105^{\circ} \mathrm{C}\left(221^{\circ} \mathrm{F}\right)$ |

## 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 $1 \times 10^{7}$ <br> $1 \times 10^{5}$ at rated load |
| :---: | :---: |
| 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 .) | 5000 Vrms coil to contact <br> 1000 Vrms between open contacts |
| Insulation Resistance | 1000 megohms min. at $20^{\circ} \mathrm{C}$, 500 VDC $50 \%$ RH |
| Dropout | Greater than 30\% of nominal coil voltage |
| 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 | 0.062" DA at $10-55 \mathrm{~Hz}$ |
| Shock | 10 g |
| Enclosure | PC (94V-0) |
| Terminals | Tinned copper alloy, P.C. |
| Max. Solder Temp. | $270^{\circ} \mathrm{C}\left(518^{\circ} \mathrm{F}\right)$ |
| Max. Solder Time | 5 seconds |
| Weight | 17 grams |

## RELAY ORDERING DATA

| COIL SPECIFICATIONS - AC Coil |  |  |  |  |  |  |  | ORDER NUMBER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Coil <br> VAC | Must Operate <br> VAC | Max. Continuous <br> VAC | Nominal Current <br> mA $\pm 10 \%$ | Coil Resistance <br> $\pm 10 \%$ | Form A <br> (SPST) |  |  |  |  |
| 6 | 4.8 | 7.8 | 150.0 | 16 | AZ683-1A-6A | AZ683-1C-6A |  |  |  |
| 12 | 9.6 | 15.6 | 75.0 | 65 | AZ683-1A-12A | AZ683-1C-12A |  |  |  |
| 24 | 19.2 | 31.2 | 37.5 | 260 | AZ683-1A-24A | AZ683-1C-24A |  |  |  |
| 50 | 40.0 | 65.0 | 18.0 | 1130 | AZ683-1A-50A | AZ683-1C-50A |  |  |  |
| 110 | 88.0 | 143.0 | 10.6 | 4600 | AZ683-1A-110A | AZ683-1C-110A |  |  |  |
| 220 | 176.0 | 286.0 | 5.3 | 20200 | AZ683-1A-220A | AZ683-1C-220A |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

## MECHANICAL DATA



[^0]
[^0]:    Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm 0.010^{\prime \prime}$

