## 50 AMP MINIATURE LATCHING

 POWER RELAY
## FEATURES

- 1 Form A, B and C contacts available
- Single coil latching
- Lower cost 30A \& 40A contacts available
- Class F high temperature standard
- Epoxy sealed versions available
- UL, CUR E44211


## CONTACTS

| Arrangement | SPST (1 Form A, or B) <br> SPDT (1 Form C) |
| ---: | :--- |
| Ratings | Resistive load: <br> Max. switched power: 1200 W or 13850 VA <br> Max. switched current: 50 A <br> Max. switched voltage: 277 VAC, 110 VDC |
| UL, CUR | $30 \mathrm{~A} / 40 \mathrm{~A} / 50 \mathrm{~A}$ at 277VAC, 6 k cycles, $25^{\circ} \mathrm{C}$ |$|$| Material |
| :--- |
| Resistance | | silver tin oxide |
| :--- |
| $(24 \mathrm{~V}, 1$ milliohms initially |

COIL

| Power <br> At Pickup Voltage <br> (typical) | $30 \mathrm{~A}, 40 \mathrm{~A}: 576 \mathrm{~mW}$ |
| :--- | :--- |
| Max. Temperature | Max. $155^{\circ} \mathrm{C}\left(311^{\circ} \mathrm{F}\right)$ Class F |

## GENERAL DATA

| Life Expectancy Mechanical Electrical | Minimum operations $1 \times 10^{6}$ <br> See contact ratings. |
| :---: | :---: |
| Set Time | 15 ms |
| Reset Time | 15 ms |
| Dielectric Strength <br> (at sea level for 1 min .) <br> Insulation Resistance | 1500 Vrms contact to contact <br> 2500 Vrms contact to coil <br> 1000 megohms min. at $20^{\circ} \mathrm{C}, 500$ VDC $50 \% \mathrm{RH}$ |
| Ambient Temperature Operating | $-40^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right)$ to $85^{\circ} \mathrm{C}\left(185^{\circ} \mathrm{F}\right)$ |
| Vibration | 0.059" DA at 10-55 Hz |
| Shock | 20 g |
| 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 | 28 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 - SINGLE COIL LATCHING |  |  |  |  | ORDER NUMBER* |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nominal Coil VDC | Must Operate VDC | Max. Continuous VDC |  | $\begin{array}{r} \hline 10 \% \\ 50 \mathrm{~A} \end{array}$ |  |
| 5 | 4.0 | 6.0 | 28 | 16.7 | AZ21501P-1A-5D |
| 12 | 9.6 | 14.4 | 160 | 96 | AZ21501P-1A-12D |
| 24 | 19.2 | 28.8 | 640 | 384 | AZ21501P-1A-24D |
| 48 | 38.4 | 57.6 | 2560 | 1536 | AZ21501P-1A-48D |

*Substitute " $-1 B$ " or " $-1 C$ " in place of " $-1 A$ " for 1 Form B or 1 Form $C$ respectively. For $30 A$ version, add " H " after " $-1 A$ ", "-1B", or "-1C". For $40 A$ version, add " $J$ " after "-1A", "-1B", or "-1C". Substitute "DE" in place of "D" for epoxy sealed version.

## MECHANICAL DATA



Tolerance: $\pm .010 "$

