
$\left.\begin{array}{l}\text { C|c|c|} \\ \hline \text { Load Type } \\ \hline \text { Resistive 6,000 Cycles } \\ \hline \text { Voltage }\end{array} \begin{array}{c}1 \text { Form A } \\ \text { (SPST-NO) }\end{array}\right]$

## CHARACTERISTICS

| Operate Time | $\leq 15 \mathrm{~ms}$ |
| :--- | :--- |
| Release Time | $\leq 15 \mathrm{~ms}$ |
| Insulation Resistance | $1,000 \mathrm{M} \Omega \mathrm{min}$ at 500 VDC |
| Dielectric Strength | $50 \mathrm{~Hz} 4,000 \mathrm{~V} 1$ min. Between Coil and Contact <br> $50 \mathrm{~Hz} 1,500 \mathrm{~V} 1$ min. Between Contacts |
| Shock Resistance | $98 \mathrm{~m} / \mathrm{s}^{2} 11 \mathrm{~ms} \mathrm{Functional}$ <br> $980 \mathrm{~m} / \mathrm{s}^{2} 11 \mathrm{~ms}$ Survival |
| Power Consumption | Single Coil: 1.5 W : Double Coil: $2 \times 3.0 \mathrm{~W}$ |

## FEATURES

- Energy Saving Latching Operation
- 50 Amp Switching Capacity
- 5,000 Watt Lamp Load @ 240 VAC
- 5 HP @ 277 VAC Motor Load
- Max Inrush Current 200 Amp for 2 ms
- Single or Dual Coil
- Manual Switch On Top
- $39.0 \times 25.0 \times 15.0 \mathrm{~mm}$ Package Dimensions
- 5.0 mm Shorter than Completion's version
- RoHS Compliant


## CONTACT DATA

| Maximum Switching Power | $12,500 \mathrm{VA}$ |
| :--- | :---: |
| Maximum Switching Voltage | 440 VAC |
| Maximum Switching Current | 50 A |
| Minimum Operating Contact Current | $10 \mathrm{~mA} @ 6 \mathrm{VDC} \& 25^{\circ} \mathrm{C}$ <br>  <br>  <br> Over Operating Temp. |
|  | AgSnO 2 |
|  | $\leq 20 \mathrm{~m} \Omega$ Initial |
| Service Life | Mechanical |
|  | Electrical |


| Creep | 8 mm |
| :--- | :--- |
| Terminal Strength | 10 N |
| Vibration Resistance | $10-55 \mathrm{~Hz}$ Double Amplitude 1.5 mm |
| Operating Temperature | -40 to $70^{\circ} \mathrm{C}$ |
| Storage Temperature | -40 to $125^{\circ} \mathrm{C}$ |
| Solderability | $235^{\circ} \mathrm{C} \pm 2^{\circ} \mathrm{C} 3 \mathrm{sec} \pm 0.5 \mathrm{sec}$ |
| Relative Humidity | $85 \%$ at $40^{\circ} \mathrm{C}$ |
| Weight | 25 grams |

ORDERING INFORMATION

| Example: PC10L-50 | -1A | -3 | - Nil | - D | -R | - X |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model: PC10L-50 |  |  |  |  |  |  |
| Contact Form: 1A |  |  |  |  |  |  |
| Coil Voltage: 3, 9, 12, 24, 48 |  |  |  |  |  |  |
| Enclosure: Nil: Dust Cover |  |  |  |  |  |  |
| Coil: Nil: Single Coil 1.5 W, D: Double Coil 2 | 3.0 W |  |  |  |  |  |
| Polarity: Nil: Standard, R: Reverse Polarity |  |  |  |  |  |  |
| RoHS Compliant: -X |  |  |  |  |  |  |

Box Quantity: 1000 ; Inner Box 500


COIL DATA

| Coil Voltage |  | Coil Power |  | Must Operate <br> Voltage Max <br> (VDC) |
| :---: | :---: | :---: | :---: | :---: |
|  | Resistance (Ohms $\pm$ 10\%) |  | 4.8 |  |
| Rated | Maximum | Single Coil 1.5 Watts | Dual Coil 2 x 3.0 Watts | (V) |
| 6 | 7 | 24 | $12+12$ | 7.2 |
| 9 | 10.6 | 54 | $27+27$ | 9.6 |
| 12 | 14.4 | 96 | $48+48$ | 19.2 |
| 24 | 28.8 | 384 | $192+192$ | 38.4 |
| 48 | 56 | 1,536 | $768+768$ |  |

Pulse Magnitude $\geq 50 \mathrm{~ms}$;

## NOTES:

With the Dual Coil Version, the Latch and Reset Coils should not be pulsed at the same time for it is possible to set the relay into a magnetically neutral position. Coils should not be pulsed with less than the rated coil voltage and the pulse width should be a minimum of three times the specified operate time. If not, it is possible for the relay to settle in a magnetically neutral position.

Dimensions are in mm, Inches are listed for reference only.
DIMENSIONS (inches/mm)


