## elpicrer



Factory Ratings

| Load Type | Voltage | 1 Form A <br> (SPST-NO) |
| :--- | :---: | :---: |
|  |  | 50 |
| Resistive 6,000 Cycles | 277 VAC | 50 A |
| Incandescent Lamp 3,000 Cycles | 240 VAC | $5,000 \mathrm{~W}$ |
| Incandescent Lamp 3,000 Cycles | 277 VAC | 16 A |
| Electronic Ballast 6,000 Cycles | 280 VAC | 16 A |
| Motor Load 3,000 | 277 VAC | 5 HP |

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 | $50 \mathrm{~Hz} 4,000 \mathrm{~V} 1 \mathrm{~min}$. Between Coil and Contact <br> $50 \mathrm{~Hz} \mathrm{1,500} \mathrm{~V} \mathrm{1} \mathrm{min} Between Contacts$. |
| Shock Resistance | $98 \mathrm{~m} / \mathrm{s}^{2} 11 \mathrm{~ms}$ Functional <br> $980 \mathrm{~m} / \mathrm{s}^{2} 11 \mathrm{~ms}$ Survival |
| Power Consumption | Single Coil: 1.5 W : Double Coil: $2 \times 3.0 \mathrm{~W}$ |

## ORDERING INFORMATION

| Example: | PC10L | -50 | -1A | -12 | C | -R | - $X$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model: | PC10L |  |  |  |  |  |  |
| Contact Rating: | 50: 50 A |  |  |  |  |  |  |
| Contact Form: | 1A |  |  |  |  |  |  |
| Coil Voltage: | 6, 9, 12, 24, 48 |  |  |  |  |  |  |
| Enclosure: | Nil: Dust Cover, <br> C: Sealed (No Manual S | $\text { tch) ( } \mathrm{N}$ | n-Wash |  |  |  |  |
| Coil: | Nil: Single Coil 1.5 W , | D: D | uble C | $2 \times$ |  |  |  |
| Polarity: | Nil: Standard, |  | verse | olarity |  |  |  |
| RoHS Compliant: | -X |  |  |  |  |  |  |

Box Quantity: 1000 ; Inner Box 500

Dimensions are listed for reference purposes only.

- Energy Saving Latching Operation
- 5 HP @ 50 A/277 VAC Motor Load
- Single or Dual Coil
- RoHS Compliant


## CROSS REFERENCES

## Hongfa: HFE10

Panasonic: DJ-H (ADJH)

CONTACT DATA

CHARACTERISTICS Continued

FEATURES

- 5,000 Watt Lamp Load @ 50 A/240 VAC
- Max Inrush Current 200 Amp for 2 ms
- Manual Switch On Top or Sealed without Switch
- $39.0 \times 25.0 \times 15.0 \mathrm{~mm}$ Package Dimensions

Example: HFE10-3/12-HST-L2(257) Crosses to PC10L-50-1A-12SD-X

Example: ADJH21012 Crosses to PC10L-50-1A-12S-X

| Contact Rating | 50 A |
| :--- | :---: |
| Maximum Switching Power | $12,500 \mathrm{VA}$ |
| Maximum Switching Voltage | 440 VAC |
| Maximum Switching Current | 50 A |
| Minimum Operating Contact | $10 \mathrm{~mA} @ 6 \mathrm{VDC} \& 25^{\circ} \mathrm{C}$ |
| Current $(50 \mathrm{~A}$ Only) | $100 \mathrm{~mA} @ 6 \mathrm{VDC}$ |
| Material | AgSnO |
| Initial Contact Resistance |  |


| Creep | 8 mm |
| :--- | :--- |
| Terminal Strength | 10 N |
| Vibration Resistance | $10-55 \mathrm{~Hz}$ Double Amplitude 1.5 mm |
| Operating Temperature | $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ |
| Storage Temperature | $-40^{\circ} \mathrm{C}$ to $125^{\circ} \mathrm{C}$ |
| Solderability | $260^{\circ} \mathrm{C}$ for 5 sec |
| Relative Humidity | $85 \%$ at $40^{\circ} \mathrm{C}$ |
| Weight | $25 \mathrm{~g}: 50 \mathrm{~A} ; 30 \mathrm{~g}: 60 \mathrm{~A} \& 80 \mathrm{~A}$ |

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COIL DATA

| Coil Voltage |  | Coil Power |  | Must Operate <br> Voltage Max <br> (VDC) |
| :---: | :---: | :---: | :---: | :---: |
|  | Resistance (Ohms $\pm \mathbf{1 0 \%})$ |  | 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:

Switching voltages are for reference only and not to be used as design criteria.
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 ( 45 msec ) the specified operate time. If not, it is possible for the relay to settle in a magnetically neutral position.

## DIMENSIONS (mm/inch)



Side View
(With Manual Switch)



## Bottom View



1A Reverse
1A


1AD


1AD Reverse


1A Dual


1AD Dual

1A Dual Reverse


1AD Dual Reverse

## Wire Diagrams

