

150/100 Amp Automotive Plug-In / PCB Maxi ISO Relay



CONTACT RATINGS 14 VDC at 25°C

| Contact Form | 1 Form A or 1 Form C | | | |
|------------------------|---------------------------|---------------------------|--|--|
| Contact Form | Normally Open | Normally Closed | | |
| Max Switching Current | Make 450 A ⁽¹⁾ | Make 300 A ⁽¹⁾ | | |
| Max Switching Current | Break 150 A | Break 100 A | | |
| Mar Oanting Ormant | 150 A @ 25°C | 100 A @ 25°C | | |
| Max Continuous Current | 112.5 A @ 85°C | 75 A @ 85°C | | |
| Max Switching Voltage | ge 75 VDC | | | |
| Max. Switching Power | 1800 W | | | |
| Minimum Load | 0.5A @ 12 VDC | | | |

CHARACTERISTICS

| Operate Time | 7 msec Typical | | | | | |
|-----------------------|---------------------------------------|--|--|--|--|--|
| Release Time | 2 msec Typical | | | | | |
| Insulation Resistance | 100 MΩ Min @ 500VDC | | | | | |
| Dielectric Strength | 50 Hz 1000 V Between Contact and Coil | | | | | |
| Dielectric Strength | 50 Hz 750 V Between Contacts | | | | | |
| Shock Resistance | 147 m/s ² 11 msec | | | | | |
| Vibration Resistance | 10-40 Hz Double Amplitude 1.5mm | | | | | |
| Terminal Strength | 30 N | | | | | |
| Solderability | 260°C for 5 seconds | | | | | |
| Power Consumption | 2.9 W | | | | | |

ORDERING INFORMATION

| Example: | PC7150 | -1C | -C2 | -12 | С | -R | N |
|---|--|---------|-----|-----|---|------|---|
| Model: | PC7150 | | | | | | |
| Contact Form: | 1A, 1C | - | | | | | |
| Case Style: | C: Plug-In; C2: Metal Bracket; P: | PC Pins | | | | | |
| Coil Voltage: | 12, 24, 48 | | | | | | |
| Enclosure: | C: Dust Cover, S1: Flux Tight ⁽²⁾ | | | | | | |
| Parallel Component: | Nil: None; D: Diode; R: Resistor | | | | | | |
| Trminal Plating: N: Tin Plated Terminals Standard on all Plug In Models; Nil: PC PIN Versio | | | | | | sion | |
| RoHS Compliant: | -X | | | | | | |

(2) Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash cleaning. Box Quantity: 200; Inner Box:100

14680 James Road, Rogers, MN 55374 USA

Dimensions are listed for reference purposes only.

FEATURES

- Popular Maxi ISO Automotive Relay Footprint
- 1A and 1C Contact Forms Available
- Contact Switching Capacity up to 450 Amps
- 150 Amps Continuous Carrying Current
- Up to 125°C Operating Temperature
- Internal Diodes or Resistors Available
- Plain Case, Metal Mounting Bracket and PC Pins
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 28 VDC at 25°C

| Contact Form | 1 Form A or 1 Form C | | | | |
|-----------------------------|---------------------------|---------------------------|--|--|--|
| Contact Form | Normally Open | Normally Closed | | | |
| May Outlinking Ourset | Make 225 A ⁽¹⁾ | Make 150 A ⁽¹⁾ | | | |
| Max Switching Current | Break 75 A | Break 50 A | | | |
| May Continuous Current | 75 A @ 25°C | 50 A @ 25°C | | | |
| Max Continuous Current | 56.25 A @ 85° C | 37.5 A @ 85°C | | | |
| Max Switching Voltage | 75 VE | VDC | | | |
| Max. Switching Power 1800 W | | | | | |
| Minimum Load | 0.5A @ 24 VDC | | | | |

CONTACT DATA

| Material | | AgSnO2 | | |
|--------------------|------------|--------------------------------|--|--|
| Initial Contact Re | esistance | 100 MΩ Max @ 0.1 A, 6 VDC | | |
| Convice Life | Electrical | 1 x 10 ⁵ Operations | | |
| Service Life | Mechanical | 1 x 10 ⁷ Operations | | |

CHARACTERISTICS Continued

Ν

| Operating Temperature | -40°C to 125°C |
|-----------------------|--------------------------|
| Storage Temperature | -40°C to 155°C |
| Relative Humidity | 85% at 40°C |
| Weight | 60 grams |
| Flammability | UL-94-VO Meets FMVSS 302 |

⁽¹⁾With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%

-Х

Coil Options Resistor Values: 6V -180 ohm 12V - 680 ohm 24V - 2,700 ohm Diode: 1N4005

Orientation of Optional Diode



*Contact Picker if You Require the Opposite Polarity or a Dual Diode

www.PickerComponents.com

email: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

PC7150

PC7150

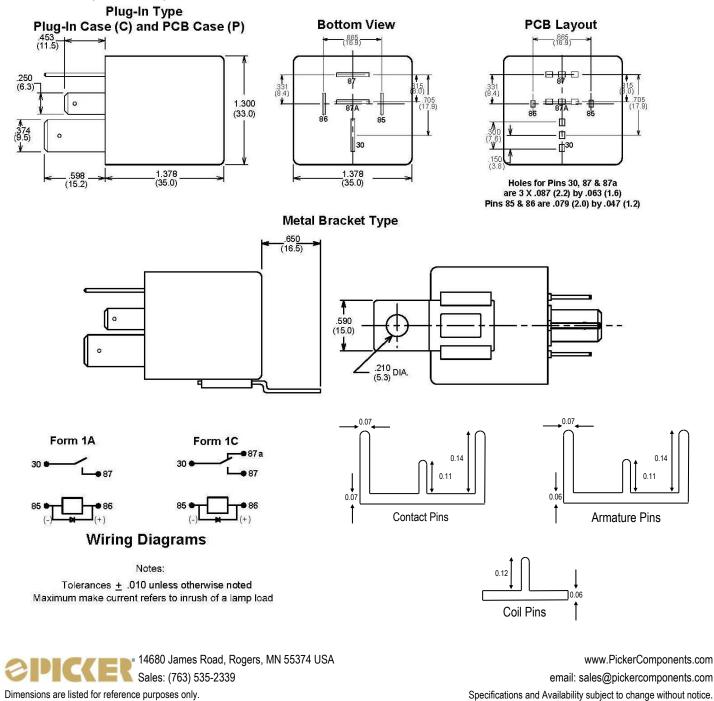
COIL DATA

| ſ | Coil Vol (VDC | - | Must Operate | Must Release | Resistor Values | | esistance s ± 10%) | | Current nA) | Coil F (V | |
|---|------------------|------|-------------------------|-------------------------|--------------------|---------------------|-----------------------|---------------------|------------------|---------------------|------------------|
| - | Rated | Max | Voltage Max (VDC) | Voltage Min (VDC) | (Ohms ± 10%) | Without Resistor | With Resistor | Without Resistor | With Resistor | Without Resistor | With Resistor |
| | 12 | 15.6 | 7.8 | 1.2 | 680 | 50 | 47 | 240 | 258 | | |
| | 24 | 31.2 | 15.6 | 2.4 | 2700 | 195 | 182 | 123 | 132 | 2.9 | 3.2 |
| | 48 | 62.4 | 31.2 | 4.8 | 10000 | 794 | 736 | 60 | 65 | | |

NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria. Dimensions are in mm, Inches are listed for reference only.

DIMENSIONS (inches/mm)



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