150/100 Amp Automotive Plug-In / PCB Maxi ISO Relay PC7150

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^{0}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 14 VDC at 25^{O}C

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

CONTACT RATINGS 24 VDC at 25^{O}C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 225 A(1)	Make 150 A(1)
	Break 75 A	Break 50 A
Max Continuous Current	75 A @ 25°C	50 A @ 25°C
	56.25 A @ 85° C	37.5 A @ 85°C
Max Switching Voltage	75 VDC	
Max. Switching Power	1800 W	
Minimum Load	0.5A @ 24 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
	50 Hz 750 V Between Contacts
Shock Resistance	147 m/s² 11 msec
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm
Terminal Strength	30 N
Solderability	235^{0}C ± 2^{0}C 3 sec ± 0.5 sec
Power Consumption	2.9 W

CONTACT DATA

Material		AgSnO2
Initial Contact Resistance		100 MΩ Max @ 0.1 A, 6 VDC
Service Life	Electrical	1 x 10^5 Operations
	Mechanical	1 x 10^7 Operations

Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 40°C
Weight	60 grams

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

ORDERING INFORMATION

Example: PC7150 -1C -C2 -12 C -RN -X

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

Parallel Component: **Nil**: None; **D**: Diode; **R**: Resistor; **N**: Nickel Plated Terminals

RoHS Compliant: **-X**

Box Quantity: 200; Inner Box:100

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

3220 Commander Drive, Suite 102 Carrollton, TX 75006
Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964
www.PickerComponents.com
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

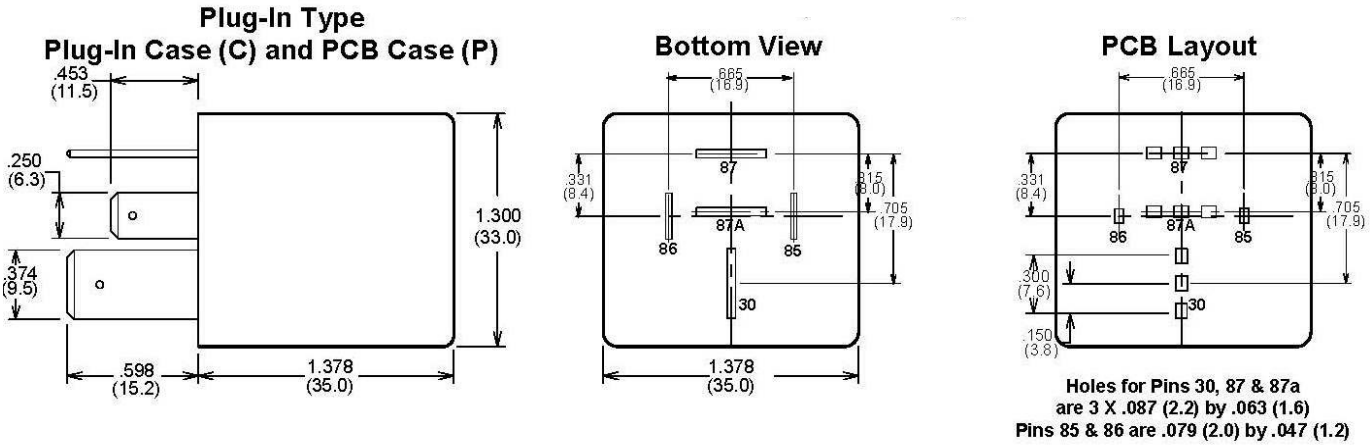
COIL DATA

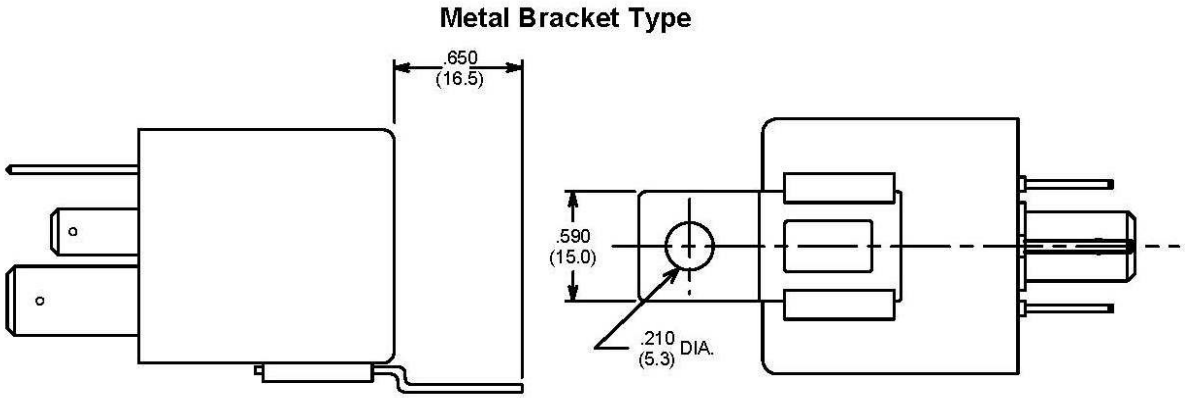
Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
12	15.6	50	7.8	1.2	2.9
24	31.2	195	15.6	2.4	
48	62.4	794	31.2	4.8	

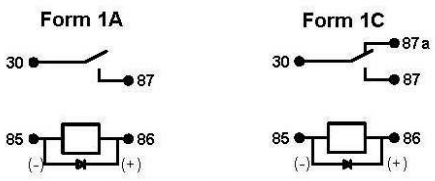
NOTES:

The use of any coil voltage less that 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)







Wiring Diagrams

Notes:
Tolerances ± .010 unless otherwise noted
Maximum make current refers to inrush of a lamp load

PICKER COMPONENTS
3220 Commander Drive, Suite 102 Carrollton, TX 75006
Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964
www.PickerComponents.com
e-mail: sales@pickercomponents.com