

# 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 <sup>(1)</sup>	Make 300 A <sup>(1)</sup>		
Max Switching Current	Break 150 A	Break 100 A		
Max Continuous Current	150 A @ 25°C	100 A @ 25°C		
Max Continuous Current	112.5 A @ 85°C	75 A @ 85°C		
Max Switching Voltage	75 VE	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					
Dialactric Strongth	50 Hz 1000 V Between Contact and Coil					
Dielectric Strength	50 Hz 750 V Between Contacts					
Shock Resistance	147 m/s <sup>2</sup> 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 <sup>(2)</sup>						
Parallel Component:	Nil: None; D: Diode; R: Resistor						
Trminal Plating: N: Tin Plated Terminals Standard on all Plug In Models; Nil: PC PIN Versio						ion	
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



# 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

Contract Form	1 Form A or 1 Form C			
Contact Form	Normally Open	Normally Closed		
Max Switching Current	Make 225 A <sup>(1)</sup>	Make 150 A <sup>(1)</sup>		
Max Switching Current	Break 75 A	Break 50 A		
Max 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	ing Voltage 75 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		
Service Life	Electrical	1 x 10 <sup>5</sup> Operations		
Service Life	Mechanical	1 x 10 <sup>7</sup> Operations		

#### CHARACTERISTICS Continued

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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

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

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**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

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email: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

# PC7150

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## **COIL DATA**

ſ	Coil Voltage (VDC)		Must Operate	Must Release	Resistor Values	Coil Resistance (Ohms ± 10%)		Rated Current (mA)		Coil Power (W)	
	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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