

# 60/40 Amp Automotive Plug-In / PCB Mini ISO Relay

# PC792H



## FEATURES

- Most Popular Automotive Relay Footprint
- 1A, 1C and 1U Contact Forms Available
- Contact Switching Capacity up to 180 Amps
- 60 Amps Continuous Carrying Current
- Up to 125°C Operating Temperature
- Internal Diodes or Resistors Available
- Compatible with Socket SC792
- Lead Free and RoHS Compliant

## CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A, 1 Form C or 1 Form U	
	Normally Open	Normally Closed
Max Switching Current	Make 180 A <sup>(1)</sup>	Make 120 A <sup>(1)</sup>
	Break 60 A	Break 40 A
Max Continuous Current	60 A @ 25°C	40 A @ 25°C
	45 A @ 85°C	30 A @ 85°C
Max Switching Voltage	75 VDC	
Max. Switching Power	1,120 W	
Minimum Load	0.5A @ 12VDC	

## CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	5 msec Typical
Insulation Resistance	100 MΩ Min @ 500VDC
Dielectric Strength	50 Hz 500 V <sub>RMS</sub> 1 min. Between Contact and Coil
	50 Hz 500 V <sub>RMS</sub> 1 min. Between Contacts
Shock Resistance	147 m/s <sup>2</sup> 11 msec
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm
Terminal Strength	8 N, 4N (PC Type)
Solderability	260°C for 5 seconds
Power Consumption	1.8 W

## ORDERING INFORMATION

Example:	PC792H	-1C	-C1	-12	C	-R	N	-X
Model:	<b>PC792H</b>							
Contact Form:	<b>1A, 1C, 1U</b>							
Case Style:	<b>C:</b> Plug-In; <b>C1:</b> Plastic Bracket; <b>C2:</b> Metal Bracket; <b>P:</b> PC Pins							
Coil Voltage:	<b>6, 12, 24</b>							
Enclosure:	<b>C:</b> Dust Cover							
Parallel Component:	<b>Nil:</b> None; <b>D:</b> Diode; <b>R:</b> Resistor;							
Terminal Plating:	<b>N:</b> Nickel Plated Terminals <b>Nil:</b> PC Pin Version							
RoHS Compliant:	<b>-X</b>							

Box Quantity: 400; Inner Box:100

## CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A, 1 Form C or 1 Form U	
	Normally Open	Normally Closed
Max Switching Current	Make 90 A <sup>(1)</sup>	Make 60 A <sup>(1)</sup>
	Break 30 A	Break 20 A
Max Continuous Current	30 A @ 25°C	20 A @ 25°C
	22.5 A @ 25°C	15 A @ 85°C
Max Switching Voltage	75 VDC	
Max. Switching Power	1,120 W	
Minimum Load	0.5A @ 24 VDC	

## CONTACT DATA

Material	AgSnO <sub>2</sub>	
Initial Contact Resistance	100 MΩ Max @ 0.1 A, 6 VDC	
Service Life	Electrical	1 x 10 <sup>5</sup> Operations
	Mechanical	1 x 10 <sup>7</sup> Operations

## CHARACTERISTICS Continued

Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 40°C
Weight	46 grams, 48 grams w/Metal Bracket

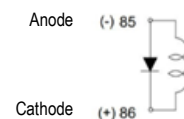
<sup>(1)</sup>With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%.

See SC792 for available sockets

### Coil Options

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

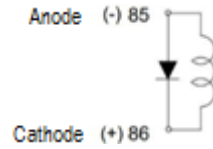
### Orientation of Optional Diode



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

**COIL DATA**

Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
6	7.8	20	3.9	0.6	1.8
12	15.6	80	7.8	1.2	
24	31.2	320	15.6	2.4	



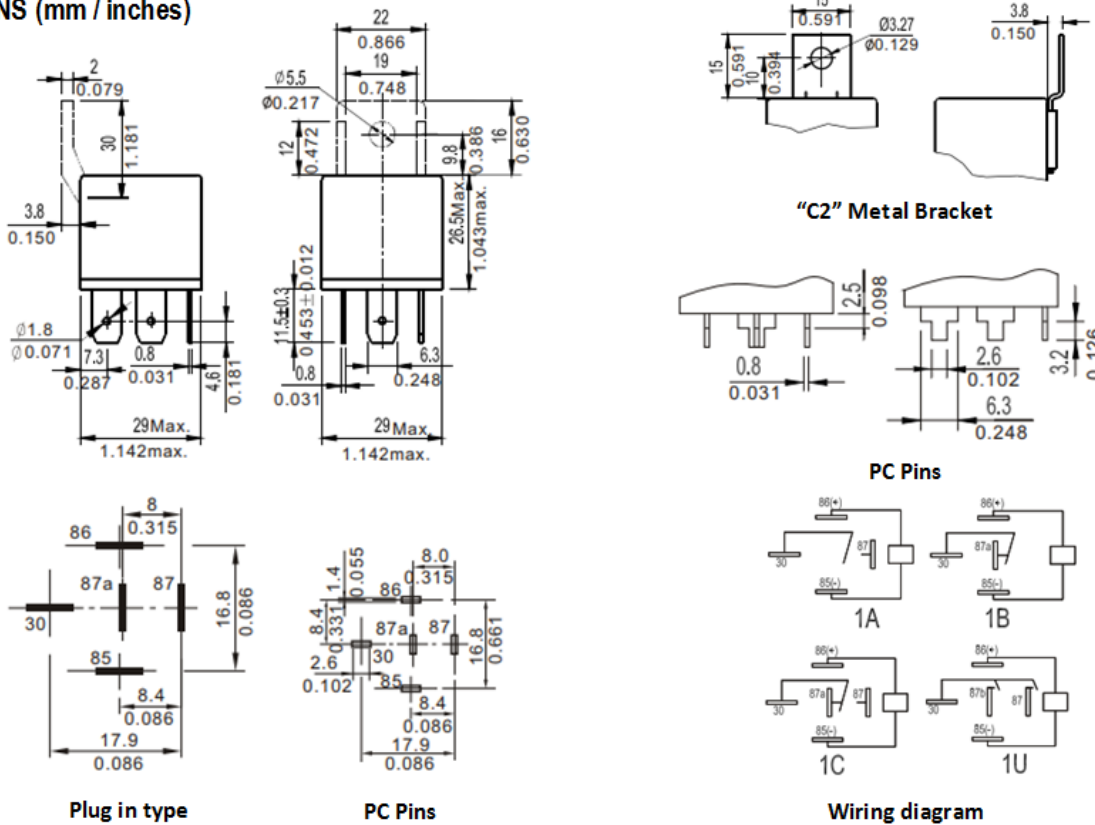
Orientation of Optional Diode, Contact Picker if You Require the Opposite Polarity

**NOTES:**

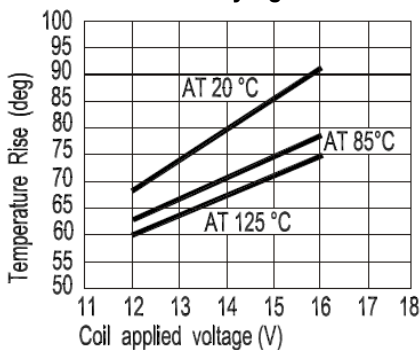
The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

Dimensions are in mm, Inches are listed for reference only.

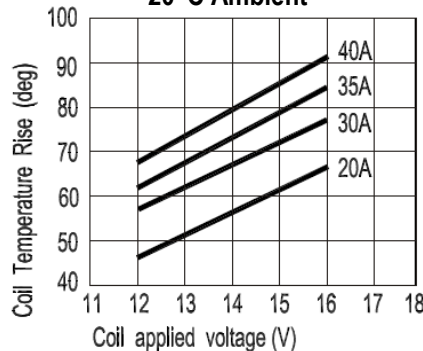
**DIMENSIONS (mm / inches)**



**Coil Temperature Rise @ 40A Carrying Current**



**Coil Temperature Rise 20°C Ambient**



**Max Value for Switching Capacity**

