

60/40 Amp Automotive Plug-In / PCB Maxi 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 ⁽¹⁾	Make 120 A ⁽¹⁾
	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	

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 ⁽¹⁾	Make 60 A ⁽¹⁾
	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	

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	5 msec Typical
Insulation Resistance	100 MΩ Min @ 500VDC
Dielectric Strength	50 Hz 500 V _{RMS} 1 min. Between Contact and Coil
	50 Hz 500 V _{RMS} 1 min. Between Contacts
Shock Resistance	147 m/s ² 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

CONTACT DATA

Material	AgSnO ₂	
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

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

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

ORDERING INFORMATION

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

See SC792 for available sockets

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

Box Quantity: 400; Inner Box:100

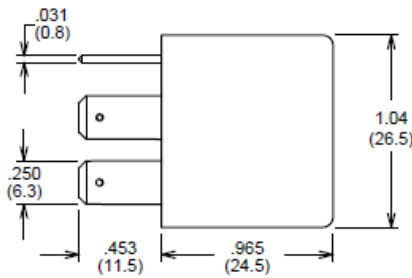
COIL DATA

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	

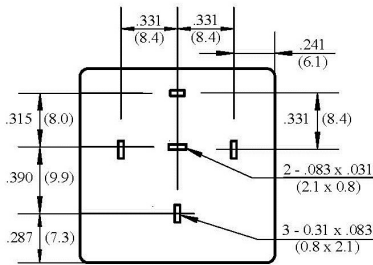
NOTES:

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.

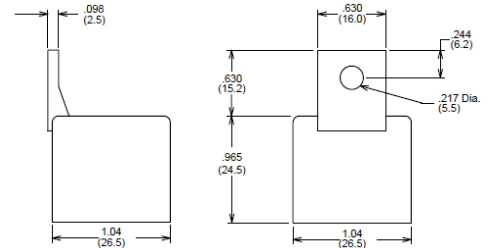
DIMENSIONS inches/(mm)



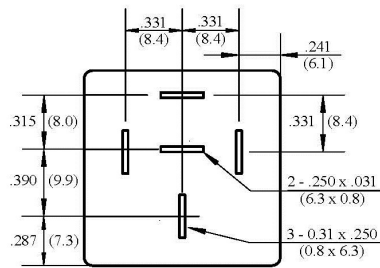
"C" Plug In



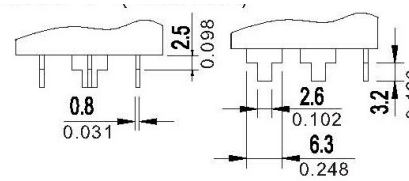
"P" PC Pins



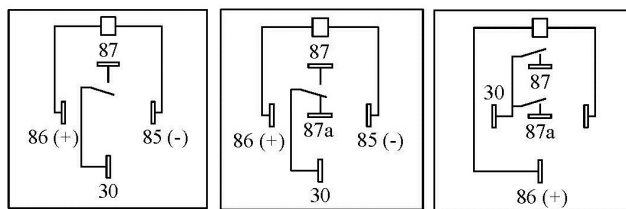
"C1" Plastic Bracket



Wiring Diagrams



"C2" Metal Bracket

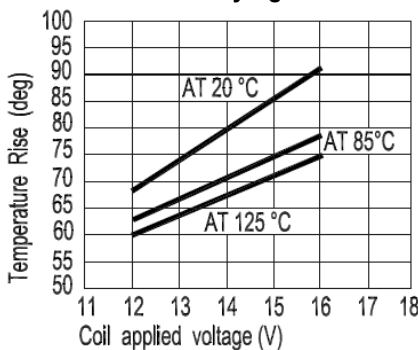


1A

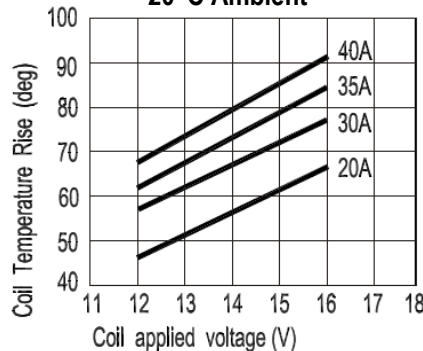
1C

1U

Coil Temperature Rise @ 40A Carrying Current



Coil Temperature Rise 20°C Ambient



Max Value for Switching Capacity

