50/40 Amp Automotive Plug-In / PCB Mini ISO Relay — PC792C



FEATURES

- Most Popular Automotive Relay Footprint
- 1A, 1C and 1U Contact Forms Available
- Contact Switching Capacity up to 150 Amps
- 50 Amps Continuous Carrying Current
- Up to 125^{0}C Operating Temperature
- Internal Diodes or Resistors Available
- Plain Case, Plastic Bracket, Metal Bracket or PC Pins
- Compatible with Socket SC792
- Lead Free and RoHS Compliant
- Fully Automated Assembly

CONTACT RATINGS 14 VDC at 25^{0}C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 150 A(1)	Make 120 A(1)
	Break 50 A	Break 40 A
Max Continuous Current	50 A @ 25°C	40 A @ 25°C
	37.5 A @ 85°C	30 A @ 85°C
Max Continuous Current 1 Form U	2 X 30 Amps (at 20°C) 2 X 25 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max. Switching Power	1120 W	
Minimum Load	0.1A @ 12VDC	

CONTACT RATINGS 28 VDC at 25^{0}C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 75 A(1)	Make 60 A(1)
	Break 25 A	Break 20 A
Max Continuous Current	25 A @ 25°C	20 A @ 25°C
	18.75 A @ 85°C	15 A @ 25°C
Max Continuous Current 1 Form U	2 X 15 Amps (at 20°C) 2 X 12.5 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max. Switching Power	1120 W	
Minimum Load	0.1A @ 12VDC	

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	2 msec Typical
Insulation Resistance	100 MΩ Min @ 500VDC
Dielectric Strength	50 Hz 500V_{RMS} 1 min. Between Contact and Coil
	50 Hz 500V_{RMS} 1 min. Between Contacts
Shock Resistance	147 m/s² 11 msec
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm
Terminal Strength	8 N, 4N (PC Type)
Solderability	235^{0}C ± 2^{0}C 3 sec ± 0.5 sec
Power Consumption	1.8 W Standard, 2.3 W & 2.6 W Optional

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

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: PC792C -1C -C1 -12 C 2.3 -D N -X

Model: **PC792C**

Contact Form: **1A (SPST-NO), 1C (SPDT)** or **1U** (2 X 1A, 87 & 87b Isolated)

Case Style: **C**: Plug-In; **C1**: Plastic Bracket; **C2**: Metal Bracket; **P**: PC Pins

Coil Voltage: **6, 12, 24**

Enclosure: **C**: Dust Cover

Coil Power: **Nil**: 1.8 W; **2.3**: 2.3 W, **2.6**; 2.6 W

Parallel Component: **Nil**: None; **D**: Diode; **R**: Resistor

Terminal Plating: **N**: Nickel Plated Terminals Standard on all Plug In Models; **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

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.

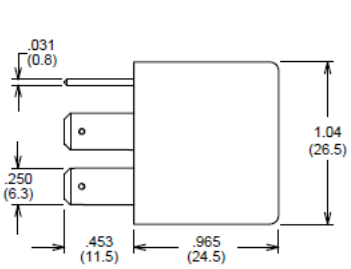
COIL DATA

Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (W)
Rated	Max				
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	

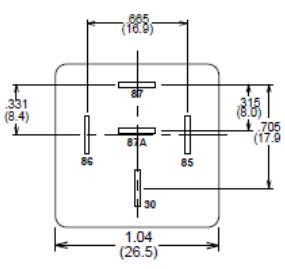
NOTES:

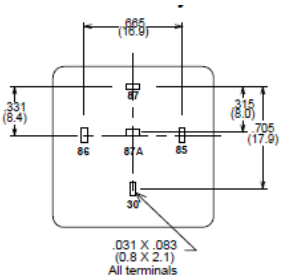
The use of any coil voltage less that the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.
Dimensions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

DIMENSIONS (mm / inches)

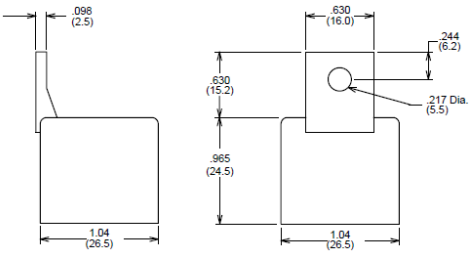


"C"
Plug In

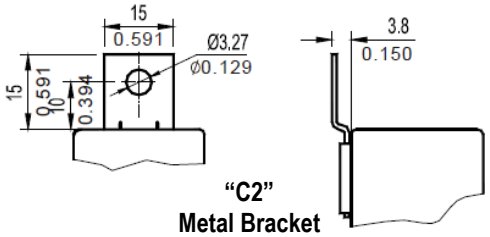




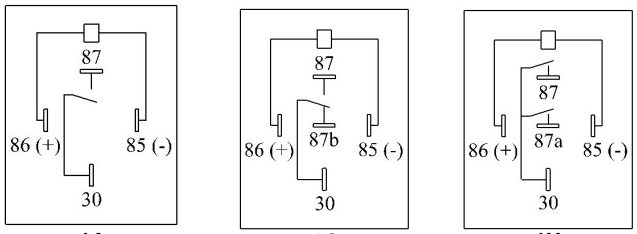
"P"
PC Pins



"C1"
Plastic Bracket



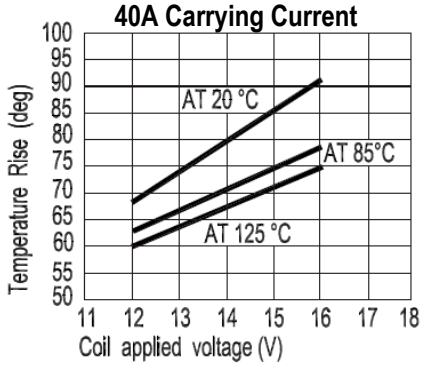
"C2"
Metal Bracket



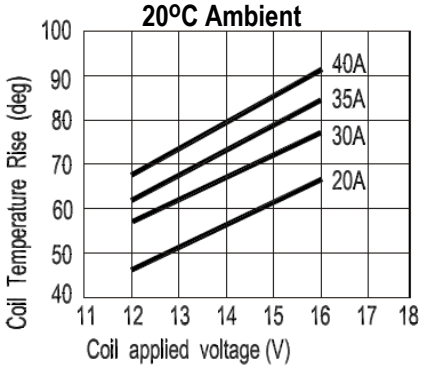
1A 1C 1U

Wiring Diagrams

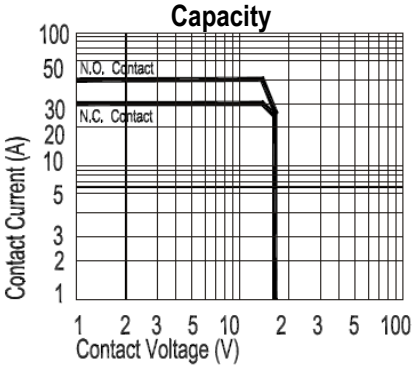
Coil Temperature Rise @ 40A Carrying Current



Coil Temperature Rise 20°C Ambient



Max Value for Switching Capacity



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