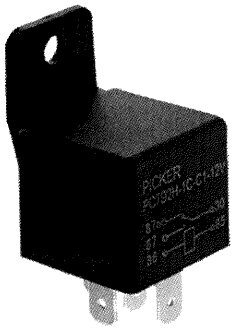
50/40 Amp Automotive Plug-In / PCB Power Relay **PC792C**



FEATURES

- Most popular automotive relay
- 1 A, 1 C & 1U contact forms available
- Contact switching capacity up to 100 Amps
- 50 Amps continuous carrying capacity
- Up to 125 degrees C operating temperature
- Internal diodes or resistors available
- Sockets available
- Lead Free & RoHS Compliant

CONTACT RATINGS 14VDC

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 100 Amps	Make 45 Amps
	Break 50 Amps	Break 40 Amps
Max. Continuous Current	60 Amps (at 20 degrees C)	40 Amps (at 20 degrees C)
	50 Amps (at 85 degrees C)	40 Amps (at 85 degrees C)
Max. Continuous Current 1 Form U	2 X 30 Amps (at 20 degrees C) 2 X 25 Amps (at 85 degrees C)	
Max. Switching Voltage	75 VDC	
Minimum Load	0.1 A @ 12 VDC	

CONTACT RATINGS 24VDC

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 50 Amps	Make 22.5 Amps
	Break 25 Amps	Break 20 Amps
Max. Continuous Current	30 Amps (at 20 degrees C)	20 Amps (at 20 degrees C)
	25 Amps (at 85 degrees C)	20 Amps (at 85 degrees C)
Max. Continuous Current 1 Form U	2 X 15 Amps (at 20 degrees C) 2 X 12.5 Amps (at 85 degrees C)	
Max. Switching Voltage	75 VDC	
Minimum Load	0.1 A @ 12 VDC	

CHARACTERISTICS

Operate Time	7 ms. typical
Release Time	2 ms. typical
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min. between coil and contacts
Shock Resistance	20 g, 11ms, functional; 200 g, destructive
Vibration Resistance	DA 1.27 mm, 10 - 40 Hz; 40-70 Hz: 5 g; DA 0.5mm, 70-100 Hz; 100-500 Hz: 10 g.
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.8 W approx.
Ambient Temperature Range	-40 to 125 degrees C operating
Weight	35 grams approx.

CONTACT DATA

Material		AgSnInO (Silver Tin Indium Oxide)
Initial Contact Resistance		100 milliohms max @ 0.1A, 6VDC
Service Life	Mechanical	1 X 10^7 Operations
	Electrical	1 X 10^5 Operations

ORDERING INFORMATION

Example:	PC792C	-1C	-C1	-12	C	-RN	-X

- Model
- Contact Form
  1A, 1C or 1U (2 X 1A, 87 & 87b isolated)
- Case Style
  C: Plug-In; P: PCB; C1: Plastic Bracket; C2: Metal Bracket
- Coil Voltage
- Enclosure: C: Dust Cover
- Parallel Component
  Nil: None; D: Diode; R: Resistor; N: Nickle Plated Terminals
- RoHS Compliant: Nil: Not RohS, -X: RoHS Compliant

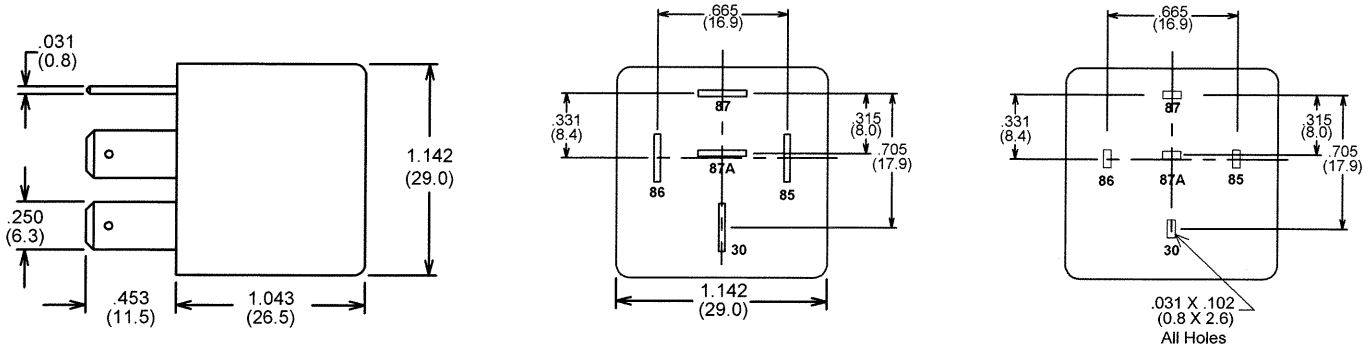
3220 Commander Drive, Suite 102, Carrollton, Texas 75006
Sales: Call Toll Free (888)997-3933 Fax (818) 342-5296 email: sales@pickercomponents.com URL: pickercomponents.com

COIL DATA

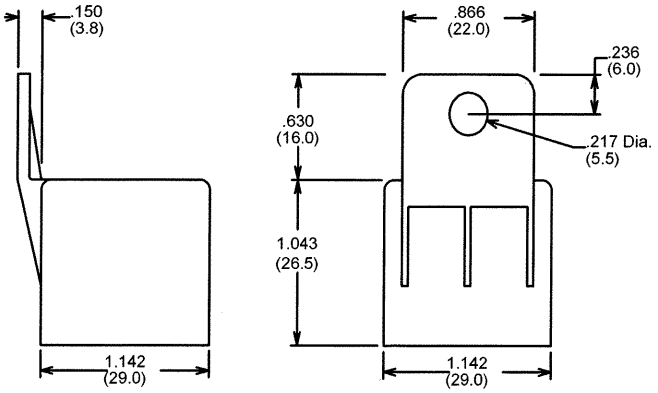
Coil Voltage	Resistance ohms +_10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)	Continuous Voltage Max. (85 Degrees C) (VDC)	Coil Power (Watts)
6	20	3.9	0.6	7.8	1.8
12	80	7.8	1.2	15.6	1.8
24	320	15.6	2.4	31.2	1.8

Plug-In Type
Plug-In Case (C) and PCB Case (P)

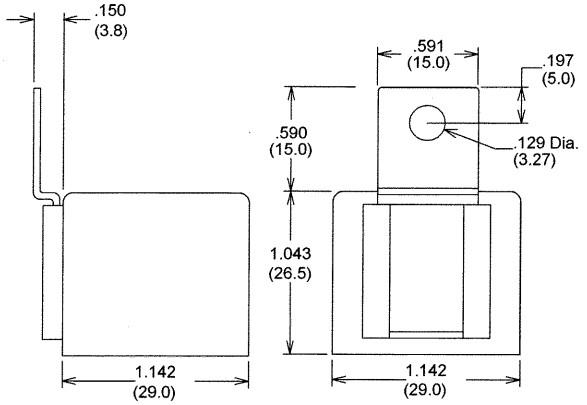
Dimensions in Inches (millimeters)



Bottom View
PC Board Layout

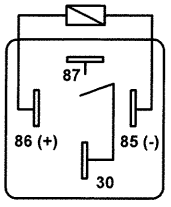


Molded Plastic Bracket (C1)

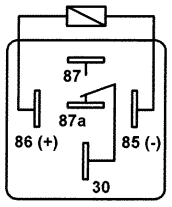


Metal Bracket (C2)

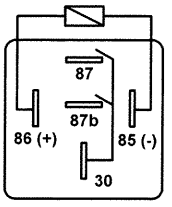
Form 1A



Form 1C



Form 1U (2X25A)



Wiring Diagrams

Notes:
Tolerances ± .010 unless otherwise noted
Maximum make current refers to inrush of a lamp load
In 85 degree C ambient reduce maximum coil voltage to 72%

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