

40/30 Amp Automotive Plug-In / PCB Power Relay

PC792/



CONTACT RATINGS 14 VDC at 25°C

CONTACT RATINGS 14 VDC at 23 C			
Contact Forms	1 Form A, 1 Form AA or 1 Form C		
Contact Form	Normally Open	Normally Closed	
Mary Orritalaine Orresent	Make 120 A ⁽¹⁾	Make 90 A ⁽¹⁾	
Max Switching Current	Break 40 A	Break 30 A	
Max Continuous Current	40 A @ 25°C	30 A @ 25°C	
wax Continuous Current	30 A @ 85°C	22.5 A @ 85°C	
Max Continuous Current 1 Form U and 1 Form AA	2 X 20 Amps (at 85°C)		
Max Switching Voltage	75 VDC		
Max. Switching Power	630 W		
Minimum Load	0.1A @ 12 VDC		

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	2 msec Typical
Insulation Resistance	100 MΩ Min at 500VDC, 50% RH
Dielectric Strength	500 Hz 500 V Between Contacts 500 Hz 750 V Between Coil and Contact
Shock Resistance	147 m/s ² 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.5 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.6 W

ORDERING INFORMATION

Example: PC792A -1C -C -12 S Model: PC792A Contact Form: 1A, 1AA (1 Form with 2 #87 Terminals) 1C or 1U (2 X 1A, 87 & 87b Isolated) Case Style: C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket C3 Weatherproof Case with Metal Brackets; P: PC Pins Coil Voltage: 6, 12, 24, 48 Enclosure: C: Dust Cover; S: Sealed Coil Power*: Nil: 1.6 W; 1.9: 1.9 W; 2.3: 2.3 W; 2.6: 2.6 W

FEATURES

- Most Popular Automotive Relay Footprint
- Contact Switching Capacity up to 120 Amps
- 40 Amps Continuous Carrying Current
- 125°C Operating Temperature
- Internal Diodes or Resistors Available
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 24 VDC at 25°C

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Contact Form	1 Form A, 1 Form AA or 1 Form C		
Contact Form	Normally Open	Normally Closed	
Mary Ossitalaina Ossana	Make 60 A ⁽¹⁾	Make 45 A ⁽¹⁾	
Max Switching Current	Break 20 A	Break 15 A	
Max Continuous Current	20 A @ 25°C	15 A @ 20°C	
wax continuous current	15 A @ 85°C	11.25 @ 20°C	
Max Continuous Current 1 Form U and 1 Form AA	2 X 15 Amps (at 85°C)		
Max Switching Voltage	75 VDC		
Max Switching Power	630 W		
Minimum Load	0.1A @ 24 VDC		

CONTACT DATA

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Material		AgSnO ₂
Initial Contact F	Resistance	100 MΩ Max @ 0.1 A 6 VDC
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

Solderability	235°C ± 2°C 3 s ± 0.5 s
OperatingTemperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	31 grams

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

-X

Resistor Values (1/4 Watt): 6V -180 ohm 12V - 680 ohm 24V - 2,700 ohm

Diode: 1N4005

Box Quantity: 400; Inner Box: 100



RoHS Compliant: -X

3220 Commander Drive, Suite 102 Carrollton, TX 75006

Parallel Component: Nil: None; D: Diode; R: Resistor; N: Nickel Plated Terminals

Sales: (972) 713-6272

(888) 997-3933 Fax: (972)735-0964

www.PickerComponents.com e-mail: sales@pickercomponents.com

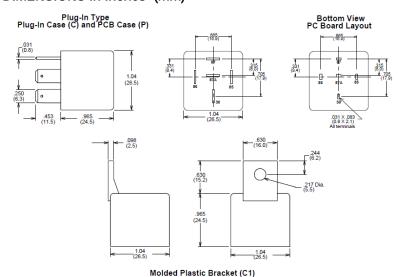
COIL DATA

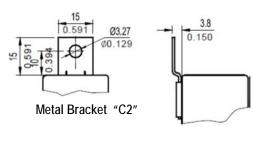
	Voltage /DC)	Resistance	Must Operate Voltage Max	Must Release Voltage Min.	Power Consumption
Rated	Max	(Ohms ± 10%)	(VDC)	(VDC)	(W)
6	7.8	22.5	3.9	0.6	
9	11.7	50.6	5.9	0.9	
12	15.6	90	7.8	1.8	1.6
24	31.2	360	15.6	2.4	
48	62.4	1440	31.2	4.8	

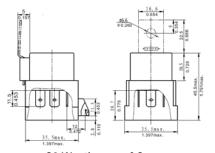
^{*}Contact Pickler Components for Coil Resistance Specification, 1.6 W is industry standard.

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 in Inches (mm)

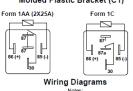






C3 Weatherproof Case

Form 1A

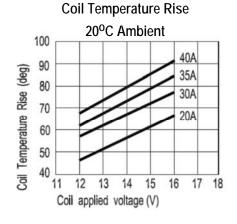


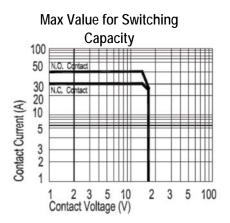
Form 1U (2X25A) 87Б

Wiring Diagrams

Notes: Contact Forms 1A, 1AA, 1C & 1U shown On Contact Form A Pin 87a is Omitted Tolerances + .010 unless otherwise noted

Coil Temperature Rise @ **40A Carrying Current** 100 95 90 85 80 75 Temperature Rise (deg) AT 20 °C AT 85°C 70 65 AT 125 °C 60 55 13 15 16 17 12 14 18 applied voltage (V)







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