

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

PC792A



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 14 VDC at 25°C

Contact Form	1 Form A, 1 Form AA or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 120 A ⁽¹⁾	Make 90 A ⁽¹⁾
	Break 40 A	Break 30 A
Max Continuous Current	40 A @ 25°C	30 A @ 25°C
	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	

CONTACT RATINGS 24 VDC at 25°C

Contact Form	1 Form A, 1 Form AA or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 60 A ⁽¹⁾	Make 45 A ⁽¹⁾
	Break 20 A	Break 15 A
Max Continuous Current	20 A @ 25°C	15 A @ 20°C
	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	

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

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

Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature 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%.

ORDERING INFORMATION

Example: PC792A -1C -C -12 S -N -X

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

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

RoHS Compliant: -X

Resistor Values (1/4 Watt):
6V -180 ohm
12V - 680 ohm
24V - 2,700 ohm
Diode: 1N4005

Box Quantity: 400; Inner Box: 100

