

50/40 Amp Automotive Plug-In / PCB Power 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°C Operating Temperature
- Internal Diodes or Resistors Available
- Plain Case, Metal Mounting Bracket and PC Pins
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 150 A ⁽¹⁾	Make 120 A
	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 24 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 75 A	Make 60 A
	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/s ² 11 msec
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm
Terminal Strength	8 N, 4N (PC Type)
Solderability	235°C ± 2°C 3 sec ± 0.5 sec
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

Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 40°C
Weight	35 grams

⁽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	-N	-X
Model:	PC792C						
Contact Form:	1A, 1C 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						
Parallel Component:	Nil: None; D: Diode; R: Resistor; N: Nickel Plated Terminals						
RoHS Compliant:	-X						

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

Box Quantity: 400; Inner Box: 100

