

50/40 Amp Automotive Plug-In / PCB Mini ISO Relay - Ignition Protected

PC792E



FEATURES

- Ignition Protected* | SAE 1171 | UL 1500 | ISO 8846
- Most Popular Automotive Relay Footprint
- Contact Switching Capacity up to 150 Amps
- 50 Amps Continuous Carrying Current
- 125°C Operating Temperature
- Internal Diodes or Resistors Available
- >0.8 mm Contact Gap with 24 VDC
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC and 28 VDC AT 25° C

Contact Form		1 Form A	1 Form AA	1 Form B	1 Form C		1 Form U
		SPST-NO	2-SPST-NO	SPST-NC	SPDT-NO	SPDT-NC	SPST-NO-DM
Max Switching Current	14 VDC	Make 150 A ⁽¹⁾ Break 50 A	Make 2 x 150 A ⁽¹⁾ Break 2 x 50 A	Make 120 A ⁽¹⁾ Break 40 A	Make 150 A ⁽¹⁾ Break 50 A	Make 120 A ⁽¹⁾ Break 40 A	Make 2 x 150 A ⁽¹⁾ Break 2 x 50 A
	28 VDC	Make 75 A ⁽¹⁾ Break 25 A	Make 2 x 75 A ⁽¹⁾ Break 2 x 25 A	Make 60 A ⁽¹⁾ Break 20 A	Make 75 A ⁽¹⁾ Break 25 A	Make 60 A ⁽¹⁾ Break 20 A	Make 2 x 75 A ⁽¹⁾ Break 2 x 25 A
Max Continuous Current	14 VDC	50 A	2 x 50 A	40 A	50 A	40 A	2 x 25 A
	28 VDC	25 A	2 x 25 A	20 A	25 A	20 A	2 x 15 A
Max Switching Voltage	14 VDC	75 VDC					
	28 VDC	75 VDC					
Max. Switching Power	14 VDC	700 W					
	28 VDC	700 W					
Minimum Load	14 VDC	0.1A @ 12 VDC					
	28 VDC	0.1A @ 12 VDC					

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

* Sealed with 6,9,12 or 24 VDC, 1.6 Watt Coil Versions.

ORDERING INFORMATION

Example:	PC792E	-1C	-C	-12	S		-R	N	-X
Model:	PC792E								
Contact Form:	1A, 1AA (1 Form with 2 #87 Terminals), 1B, 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, 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; DR: Diode and Resistor								
Terminal Plating:	Nil: PC Pin Version; N: Nickel Plated Terminals Standard on all Plug In Models								
RoHS Compliant:	-X								

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

*1.6 W Industry Standard Coil

Box Quantity: 400; Inner Box: 100

COIL DATA

Coil Voltage (VDC)		Coil Power (W)				Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)
		Coil Resistance (Ohms ± 10%)					
Rated	Max	1.6 W*	1.9 W	2.3 W	2.6 W		
6	7.8	22.5	19.0	15.6	13.8	3.9	0.6
9	11.7	50.6	NA	NA	NA	5.9	0.9
12	15.6	90.0	75.8	62.6	55.4	7.8	1.8
24	31.2	360.0	303.2	250.4	221.5	15.6	2.4
48	62.4	1440.0	NA	NA	NA	31.2	4.8

*1.6 W Industry Standard Coil

NOTES:

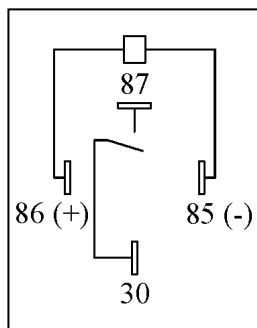
The use of any coil voltage less than the rated voltage will compromise the operation of the relays.
 Must Operate Voltage and Must Release Voltages are for test purposes only and are not to be used as design criteria.

CHARACTERISTICS

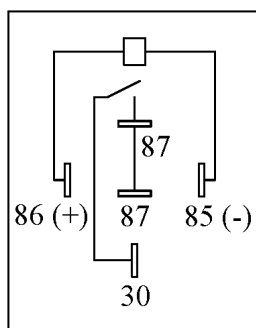
Operate Time	7 msec Typical
Release Time	5 msec Typical
Insulation Resistance	100 MΩ Min at 500VDC
Dielectric Strength	500 V 50 Hz Between Contacts 750 V 50 Hz Between Coil and Contact
Terminal Strength	8N 4N (PC type)
Shock Resistance	147 m/s ² 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.5 mm
Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature	- 40 to 125°C
Storage Temperature	- 40 to 155°C
Weight	31 grams, C1 36 grams
Power Consumption	1.6 W, 1.9 W, 2.3 W, 2.6 W

CONTACT DATA

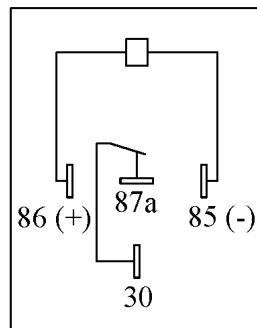
Material	AgSnO ₂	
Initial Contact Resistance	30 mΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations



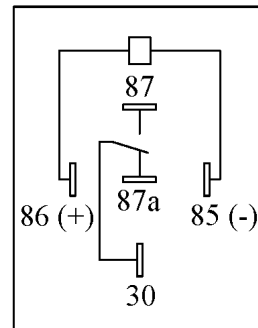
1A



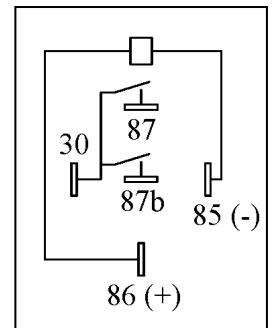
1AA



1B



1C



1U

Wire Diagrams



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Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

DIMENSIONS in Inches/mm

