

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

PC792E



FEATURES

- Ignition Protected* | SAE J1171 | 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

CONTACT RATINGS 14 VDC and 28 VDC AT 25° C

011		1 Form A	1 Form AA 1 Form B		1 Form C		
Contact Form	ntact Form		2-SPST-NO SPST-NC		SPDT-NO SPDT-NC		
	141//DC	Make 150 A ⁽¹⁾	(1) Make 2 x 150 A(1) Make 120 A(1)		Make 150 A ⁽¹⁾	Make 120 A ⁽¹⁾	
May Christopina Current	14 VDC	Break 50 A	Break 2 x 50 A	Break 40 A	Break 50 A	Break 40 A	
Max Switching Current	28 VDC	Make 75 A ⁽¹⁾	Make 2 x 75 A ⁽¹⁾	Make 60 A ⁽¹⁾	Make 75 A ⁽¹⁾	Make 60 A ⁽¹⁾	
	28 VDC	Break 25 A	Break 2 x 25 A	Break 20 A	Break 25 A	Break 20 A	
May Cardinuava Cumant	14 VDC	50 A	2 x 50 A	40 A	50 A	40 A	
Max Continuous Current	28 VDC	25 A	2 x 25 A	20 A	25 A	20 A	

CONTACT RATINGS Continued

Max Switching Voltage	75 VDC		
Max. Switching Power	700 W		
Minimum Load	0.1A @ 12 VDC		

CROSS REFERENCES

Song Chuan: 896H				
896H-1AH-S-12VDC Crosses to PC795E-1C-C-12S-X				
896H-1CH-S1-R1-12VDC Crosses to PC792E-1C-C1-12S-RN-X				

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

ORDERING INFORMATION

Example:	PC792E	-1C	-C	-12	S		-R	N	-X
Model:	PC792E								
Contact Form:	1A , 1AA (1 Form 1 A with 2 #87 Terminals), 1B , 1C								
Case Style:	C: Plug-In; C1: Plastic Bracket; P: PC Pins(4)								
Coil Voltage:	6, 12, 24, 48								
Enclosure:	C: Dust Cover; S: Sealed; S1: Flux Tight(2)								
Coil Power:	Nil : 1.6W ⁽³⁾ ; 1.9 : 1.9W; 2.3 : 2.3W; 2.6 : 2.6W								
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								

^[2] Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash

4) Minimum Quantities Apply

Box Quantity 400; Inner Box 100

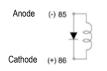
See SC792 for available sockets

Coil Options

Resistor Values (1/4 Watt): 6V -180 ohm

12V - 680 ohm 24V - 2,700 ohm Diode: 1N4005

Orientation of Optional Diode



*Contact Picker if You Require the Opposite Polarity or a Dual Diode

OPICKER

PC792E Rev J 05/30/2019

409 International Parkway, Suite 200 Richardson, TX 75081

Sales: (972) 713-6272

(888) 997-3933

^{*}Sealed with 6,9,12 or 24 VDC, 1.6 Watt Coil

^{1.6}W Industry Standard Coil

COIL DATA

Coil Voltage			Coil Po	Must Operate	Must Release		
(VDC)		С	oil Resistanc	Voltage Max	Voltage Min.		
Rated	Max	1.6 W**	1.9 W	2.3 W	2.6 W	(VDC)	(VDC)
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	1,440.0	NA	NA	NA	31.2	4.8

^{**1.6} W Industry Standard Coil

NOTES:

The use of any coil voltage less that 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.

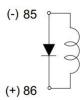
CHARACTERISTICS

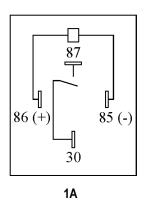
Operate Time	7 msec Typical				
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Release Time	5 msec Typical				
Insulation Resistance	100 $\text{M}\Omega$ Min at 500VDC				
Dielectric Strength	500 V 50 Hz Between Contacts 750 V 50 Hz Between Coil and Contact				
Terminal Strength	8N 4N (PC type)				
Shock Resistance	147 m/s ² 11ms				
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.5 mm				
Solderability	260°C for 5 seconds				
Operating Temperature	- 40°C to 125°C				
Storage Temperature	- 40°C to 155°C				
Weight	31 grams, C1 36 grams				
Power Consumption	1.6 W, 1.9 W, 2.3 W, 2.6 W				

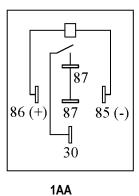
CONTACT DATA

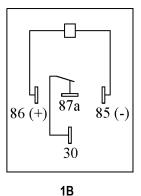
Material		AgSnO ₂		
Initial Contact F	Resistance	30 mΩ Max		
Service Life	Electrical	1 x 10 ⁵ Operations		
Service Life	Mechanical	1 x 10 ⁷ Operations		

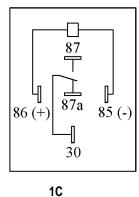
Orientation of Optional Diode

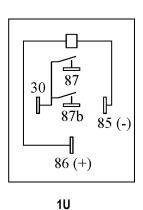












Wire Diagrams

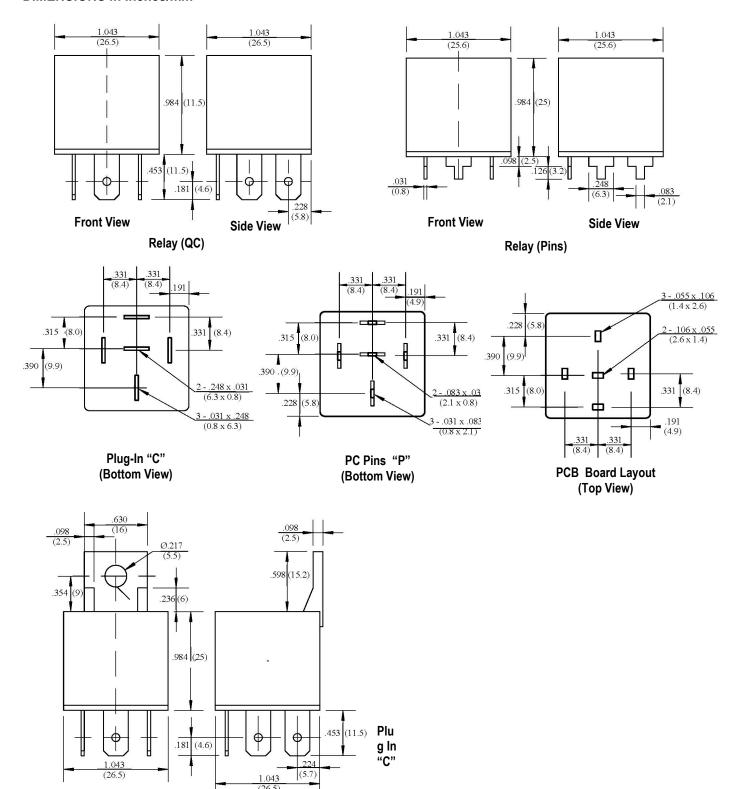


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DIMENSIONS in Inches/mm



Plastic Bracket "C1"

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