

# Automotive Plug-In / PCB Mini ISO Relay

**PC792E** 



#### **FEATURES**

- 50 Amps Continuus Carrying Current
- Internal Diode or Resistor Option
- Sockets Available



#### **CONTACT RATINGS**

Contact Form  1A SPST N.O. 1C SPDT  Contact Rating  1A 50A @ 14VDC, resistive 20A @ 28VDC, resistive NO 50A @ 14VDC, resistive NC 30A @ 14VDC, resistive NO 20A @ 28VDC, resistive			
Contact Rating  1A 50A @ 14VDC, resistive 20A @ 28VDC, resistive NO 50A @ 14VDC, resistive NC 30A @ 14VDC, resistive NO 20A @ 28VDC, resistive	Contact Form		1A SPST N.O.
20A @ 28VDC, resistive  NO 50A @ 14VDC, resistive  NC 30A @ 14VDC, resistive  NO 20A @ 28VDC, resistive			1C SPDT
1C NO 50A @ 14VDC, resistive NC 30A @ 14VDC, resistive NO 20A @ 28VDC, resistive	Contact Rating	1A	50A @ 14VDC, resistive
NC 30A @ 14VDC, resistive NO 20A @ 28VDC, resistive			20A @ 28VDC, resistive
NO 20A @ 28VDC, resistive		1C	NO 50A @ 14VDC, resistive
			NC 30A @ 14VDC, resistive
			NO 20A @ 28VDC, resistive
NC 15A @ 28VDC, resistive			NC 15A @ 28VDC, resistive

#### **CONTACT DATA**

Maximum Switching Power	700 W		
Maximum Switching Voltage	75 VDC		
Maximum Continuous Current	50 A		
Material	AgSnO <sub>2</sub>		
Initial Contact Resistance	50 m $Ω$ max.		
Service Life Mechanical	1 x 10 <sup>7</sup> operations		
Electrical	1 x 10 <sup>5</sup> operations		

#### **CHARACTERISTICS**

Insulation Resistance	100 MΩ min. at 500 VDC			
Dielectric Strength	500 Vrms, 50 Hz, between contacts			
	750 Vrms, 50 Hz, between coil & contacts			
Power Consumption	1.6W			
Terminal Strength	8N quick connect, 4N PCB pins			
Solderability	260°C 5 s ± 0.5 s			
Operating Temperature	-40°C to 125°C			
Storage Temperature	-40°C to 155°C			
Shock Resistance	294 m/s <sup>2</sup> 11 ms			
Vibration Resistance	10-22.3Hz; 10mm double amplitude			
Weight	35.0g			

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the application. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

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# **ORDERING INFORMATION**

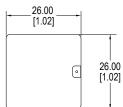
Example	PC792E	-1C	-C	-12	S				-X
Model:	PC792E								
Contact Form:	1A 1C								
Mounting Version:	C = Plug-In C1 = Plastic Bracket C2 = Metal Bracket P = PC Pins								
Coil Voltage:	12 = 12VDC 24 = 24VDC								
Enclosure:	C = Dust Cover S = Sealed S1 = Flux Tight (1)								
Coil Power:	Nil = 1.6W								
Parallel Component:	Nil = None D = Diode (1N4005) D1 = Reverse Diode (1N4005) R = Resistor (680 Ohms for 1		or 24VDC)						
Terminal Plating:	Nil = PC Pin N = Nickel Plated Terminals, standard on all Plug-In models								
RoHS Compliant:	-X								
(1) Elux Tight releva are constructed as	ich that Flux will not enter the relay in an automated sold	oring process they are MC	T quitable for water week o			·			

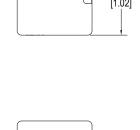
<sup>(1)</sup> Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT suitable for water wash cleaning.

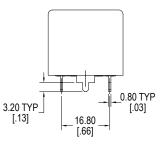
# **COIL DATA**

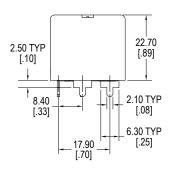
Coil V	Coil Voltage Resistance (Ohms ± 10%)		Pick Up Voltage Max. Release Voltage Min. VDC VDC		Coil Power Operate Time W ms		Release Time ms
Rated	Maximum						
12	15.6	90	7.80	1.20	1.6	-10	≤10
24	31.2	360	15.60	2.40	1.6	≤10	

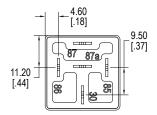
# **DIMENSIONS** mm (inches)



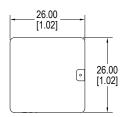


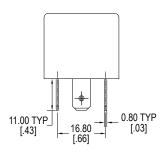


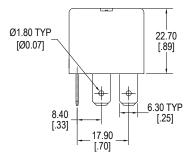


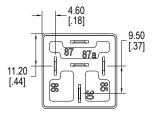


Standard with PC Pins (P)



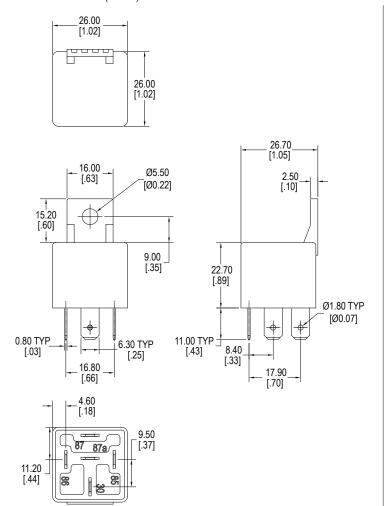




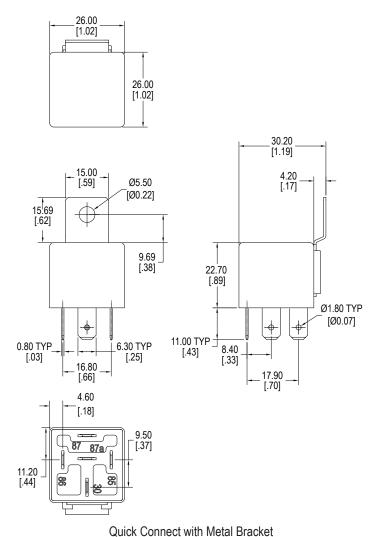


Standard with Quick Connect (C)

# **DIMENSIONS** mm (inches)

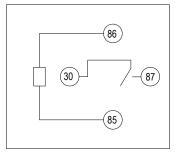


Quick Connect with Plastic Bracket

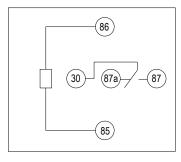


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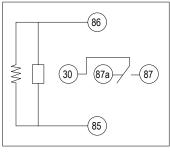
# **SCHEMATICS** Bottom Views



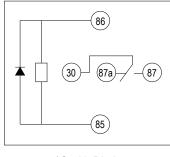
1A



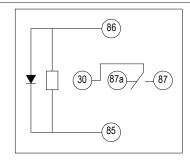
1C



1C with Resistor



1C with Diode



1C with Reverse Diode

# **PC LAYOUT**

