

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

PC792C



CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C			
Contact Form	Normally Open	Normally Closed		
Max Switching Current	Make 150 A ⁽¹⁾	Make 120 A ⁽¹⁾		
Max Switching Current	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	2 X 30 Amps (at 20°C)			
1 Form U	2 X 25 Amps (at 85°C)			
Max Switching Voltage	75 VDC			
Max. Switching Power	1,120 W			
Minimum Load	0.1A @ 12VDC			

CHARACTERISTICS

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Operate Time	7 msec Typical		
Release Time	2 msec Typical		
Insulation Resistance	100 MΩ Min @ 500VDC		
Dialastria Strangth	50 Hz $$ 500V_{RMS} 1 min. Between Contact and Coil		
Dielectric Strength	50 Hz 500V _{RMS} 1 min. Between Contacts		
Shock Resistance	147 m/s² 11 msec		
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm		
Terminal Strength	8 N, 4N (PC Type)		
Solderability	260°C for 5 seconds		
Power Consumption	1.8 W Standard, 2.3 W & 2.6 W Optional		

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, Plastic Bracket, Metal Bracket or PC Pins
- Compatible with Socket SC792
- Lead Free and RoHS Compliant
- Fully Automated Assembly

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A or 1 Form C			
	Normally Open	Normally Closed		
Max Switching Current	Make 75 A ⁽¹⁾	Make 60 A ⁽¹⁾		
Max Switching Current	Break 25 A	Break 20 A		
Max Continuous Current	25 A @ 25°C	20 A @ 25°C		
Max Continuous Current	18.75 A @ 85°C	15 A @ 25°C		
Max Continuous Current	2 X 15 Amps (at 20°C)			
1 Form U	2 X 12.5 Amps (at 85°C)			
Max Switching Voltage	75 VDC			
Max. Switching Power	1,120 W			
Minimum Load	0.1A @ 12VDC			

CONTACT DATA

Material		AgSnO2		
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		

CHARACTERISTICS Continued

2.3

-D N -X

С

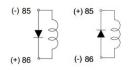
Operating Temperature	-40°C to 125°C
Storage Temperature	-40°C to 155°C
Relative Humidity	85% at 40°C
Weight	46 grams, 48 grams w/Metal Bracket
Flammability	UL-94-VO Meets FMVSS 302

⁽¹⁾With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%

See SC792 for available sockets

Coil Options Resistor Values: 6V -180 ohm 12V - 680 ohm 24V - 2,700 ohm

Orientation of Optional Diode Diode (D) Reverse Diode (D1)



*Contact Picker if you require a dual diode

www.PickerComponents.com

e-mail: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

RoHS Compliant: -X (2) Special coil, Minimum Order Quantities Apply

ORDERING INFORMATION

PC792C

6, 12, 24

C: Dust Cover

Nil: 1.8 W; 2.3: 2.3 W⁽²⁾

Parallel Component: Nil: None; D: Diode; D1: Reverse Diode; R: Resistor

Example:

Contact Form:

Case Style: Coil Voltage:

Enclosure:

Coil Power:

Terminal Plating:

Model:

Box Quantity: 400; Inner Box:100 14680 James Road, Rogers, MN 55374 USA Sales: (763) 535-2339

N: Nickel Plated Terminals Standard on all Plug In Models; Nil: PC Pin Version

PC792C

1A (SPST-NO), 1C (SPDT) or 1U (2 X 1A, 87 & 87b Isolated)

C: Plug-In: C1: Plastic Bracket: C2: Metal Bracket: P: PC Pins

-1C

-C1

-12

Dimensions are listed for reference purposes only.

PC792C

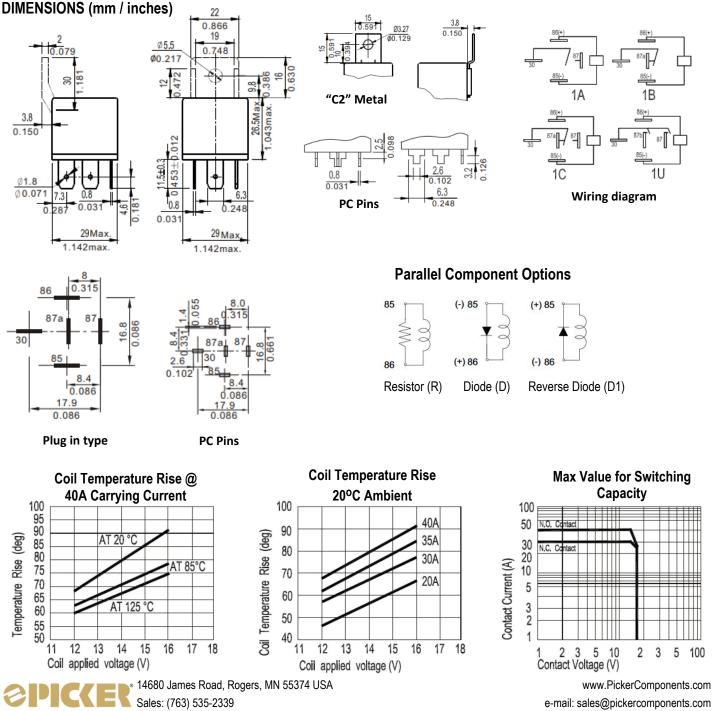
PC792C _ COIL DATA

Coil Voltage		Must Operate	Must Release	Resistor Values	Rated Current (mA)		Coil Resistance (Ohms ± 10%)		Coil Power (W)	
(VDC Rated	,) Max	Voltage Max (VDC)	ć Min.	(Ohms ± 10)	Without Resistor	With Resistor	Without Resistor	With Resistor	Without Resistor	With Resistor
6	7.8	3.9	0.6	180	300	333	20	18		
12	15.6	7.8	1.2	680	150	168	80	71.6	1.8	2
24	31.2	15.6	2.4	2700	75	84	320	286.1		

NOTES:

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

Dimensions are in mm, Inches are listed for reference only.



Dimensions are listed for reference purposes only. PC792C Rev Q 3/23/2020 Specifications and Availability subject to change without notice.