

50/30 Amp Automotive Plug-In / PCB Mini ISO Relay

PC692E



FEATURES

- Most Popular Automotive Relay Footprint
- Contact Switching Capacity up to 100 Amps
- 50 Amps Continuous Carrying Current
- Plain Case with Plastic or Metal Bracket or PCB Options
- Internal Diodes or Resistors Available
- Sockets Available
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC and 28 VDC AT 25° C

Contact Form		1 Form A	1 Form B	1 Form C	
		SPST-NO	SPST-NC	SPDT-NO	SPDT-NC
Max Switching Current	14 VDC	Make 100 A ⁽¹⁾	Make 80 A ⁽¹⁾	Make 100 A ⁽¹⁾	Make 80 A ⁽¹⁾
		Break 30 A	Break 20 A	Break 30 A	Break 20 A
	28 VDC	Make 50 A ⁽¹⁾	Make 40 A ⁽¹⁾	Make 50 A ⁽¹⁾	Make 40 A ⁽¹⁾
		Break 15 A	Break 10 A	Break 15 A	Break 10 A
Max Continuous Current	14 VDC	50 A	40 A	50 A	40 A
	28 VDC	25 A	20 A	25 A	20 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, 1.8 Watt Coil

ORDERING INFORMATION

Example:	PC692E	-1C	-C	-12	S	-R	N	-X
Model:	PC692E							
Contact Form:	1A, 1B, 1C							
Case Style:	C: Plug-In; C1: Plastic Bracket; C2: Metal Bracket P: PC Pins ⁽²⁾							
Coil Voltage:	6, 12, 24, 48							
Enclosure:	C: Dust Cover; S: Sealed; S1: Flux Tight ⁽³⁾							
Coil Power:	Nil: 1.8W; 1.6: 1.6W							
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⁾ Minimum Quantities Apply

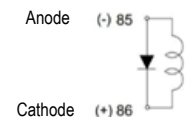
⁽³⁾ Flux Tight relays are constructed such that Flux will not enter the relay in an automated soldering process, they are NOT Suitable for water wash

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

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	1.8 W**	1.6 W		
6	7.8	20	22.5	3.9	0.6
12	15.6	80	90.0	7.8	1.8
24	31.2	320	360.0	15.6	2.4
48	62.4	1280	1,440.0	31.2	4.8

**1.8 W 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.

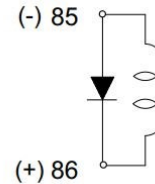
CHARACTERISTICS

Operate Time	10 msec Typical
Release Time	7 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	100 N
Shock Resistance	294 m/s ² 11ms
Vibration Resistance	10 Hz—55 Hz Double Amplitude 3 mm
Solderability	260°C for 5 seconds
Operating Temperature	- 40°C to 125°C
Storage Temperature	- 40°C to 155°C
Weight	C: 30 grams, C1: 35 grams
Power Consumption	1.8W, 1.6W

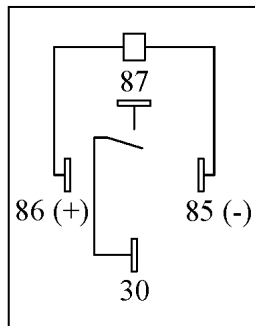
CONTACT DATA

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

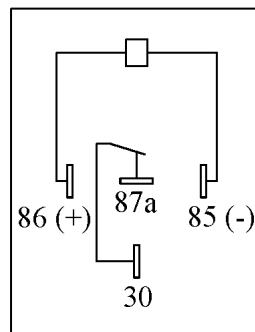
Orientation of Optional Diode



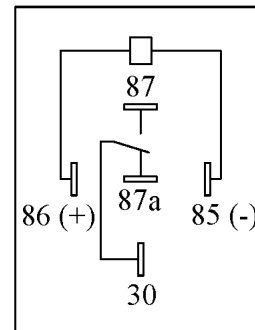
Wiring Diagrams



1A

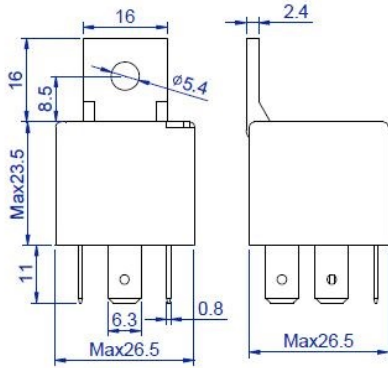


1B

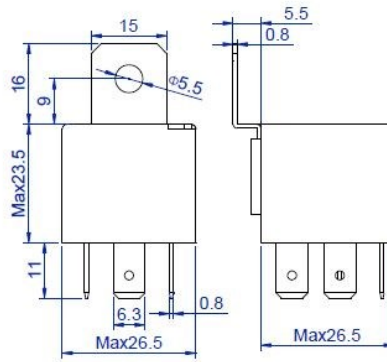


1C

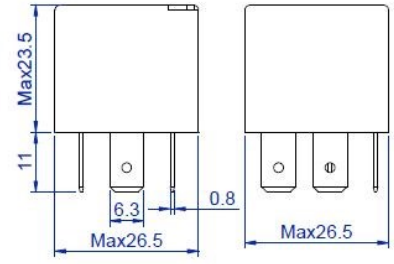
DIMENSIONS in mm



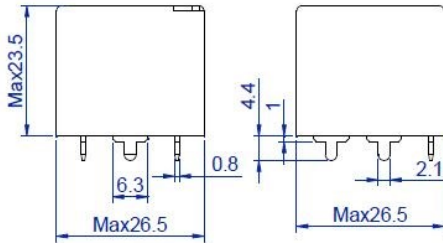
C1: Plastic Bracket



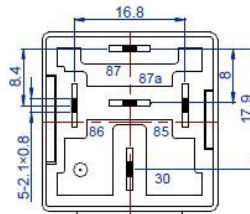
C2: Metal Bracket



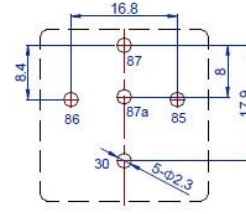
C: No Bracket



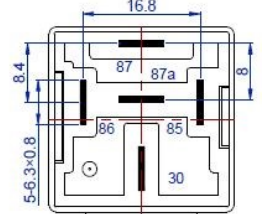
PCB type



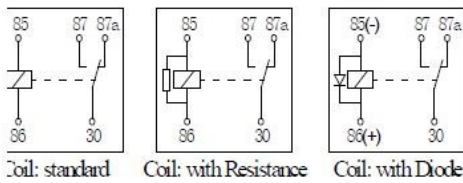
PCB Terminal (Bottom views)



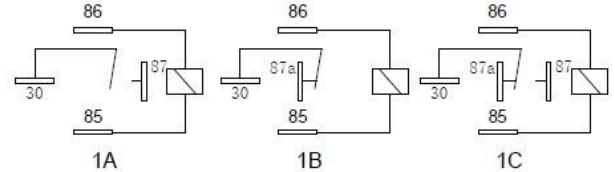
PCB Layout (Bottom views)



QC Terminal (Bottom views)



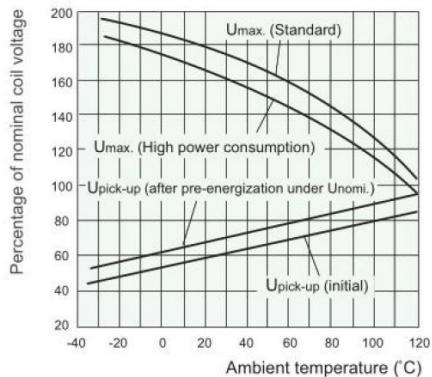
Coil: standard Coil: with Resistance Coil: with Diode



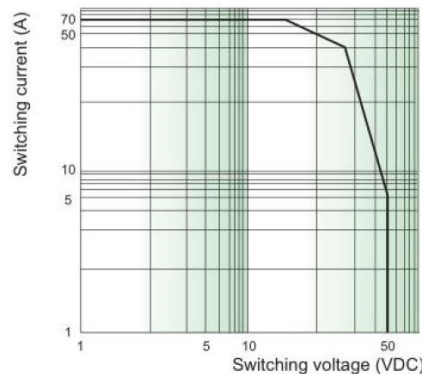
Wiring diagram (Bottom views)

REFERENCE DATA

1. Coil operating voltage range



2. Load limit curve



3220 Commander Drive, Suite 102 Carrollton, TX 75006
 Sales: (972) 713-6272 (888) 997-3933 Fax: (972) 735-0964

www.PickerComponents.com
 e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.