

80/60 Amp Automotive Plug-In / PCB Maxi ISO Relay

PC695



FEATURES

- Most Popular Automotive Relay
- 1A, 1C Contact Forms Available
- Contact Switching Capacity up to 140 Amps
- 80 Amps @ 14VDC Continuous Carrying Current
- Plain Case with Plastic or Metal Bracket or PCB Options
- Compatible with Socket SC795
- Lead Free and RoHS Compliant

CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 160 A	Make 100 A
	Break 60 A	Break 60 A
Max Switching Power	1,120 W	
Max Switching Voltage	75 VDC	
Max Continuous Current	80 A	60 A
Minimum Load	0.5A @ 12VDC	

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 80A	Make 50 A
	Break 30 A	Break 30 A
Max Switching Power	1,120 W	
Max Switching Voltage	75 VDC	
Max Continuous Current	40 A	30 A
Minimum Load	0.5A @ 12VDC	

CHARACTERISTICS

Operate Time	10 msec Typical
Release Time	7 msec Typical
Insulation Resistance	100 MΩ min @ 500VDC
Dielectric Strength	50 Hz 750V _{RMS} 1 min. Between Contact and Coil
	50 Hz 500V _{RMS} 1 min. Between Contacts
Shock Resistance	294 m/s ² 11 msec
Vibration Resistance	10 - 55 Hz Double Amplitude, 3mm
Terminal Strength	100 N
Solderability	260°C for 5 seconds
Power Consumption	1.6 W, 1.8 W
Relative Humidity	85% at 40°C

* Sealed with 6,12 or 24 VDC, 1.6 and 1.8 Watt Coil Versions.

CONTACT DATA

Material	AgSnO ₂	
Initial Contact Resistance	≤ 20mΩ initial	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

CHARACTERISTICS CONTINUED

Operating Temperature	-40°C to +125°C
Storage Temperature	-40°C to +155°C
Weight	47 grams

ORDERING INFORMATION

Example:

Model: **PC695**

Contact Form: **1A, 1C**

Case Style: **C:** Plug-In; **C1:** Plastic Bracket; **C2:** Metal Bracket

P: PCB; **P1:** PCB w/Plastic Bracket; **P2:** PCB w/Metal Bracket

Coil Voltage: **6, 12, 24**

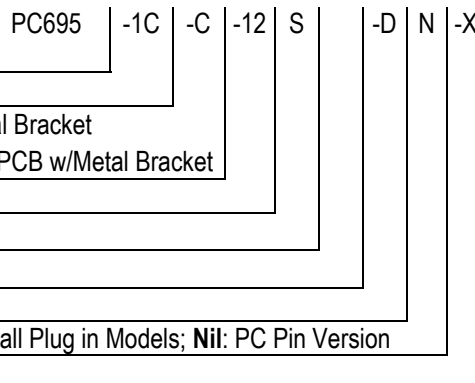
Enclosure: **C:** Dust Cover, **S:** Sealed

Coil Power: **Nil:** 1.8W, **1.6:** 1.6W

Parallel Component: **Nil:** None; **D:** Diode; **R:** Resistor

Terminal Plating **N:** Nickel Plated Terminals Standard on all Plug in Models; **Nil:** PC Pin Version

RoHS Compliant: **-X**

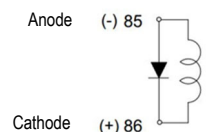


See SC795 for available sockets

Coil Options

Resistor Values:
 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

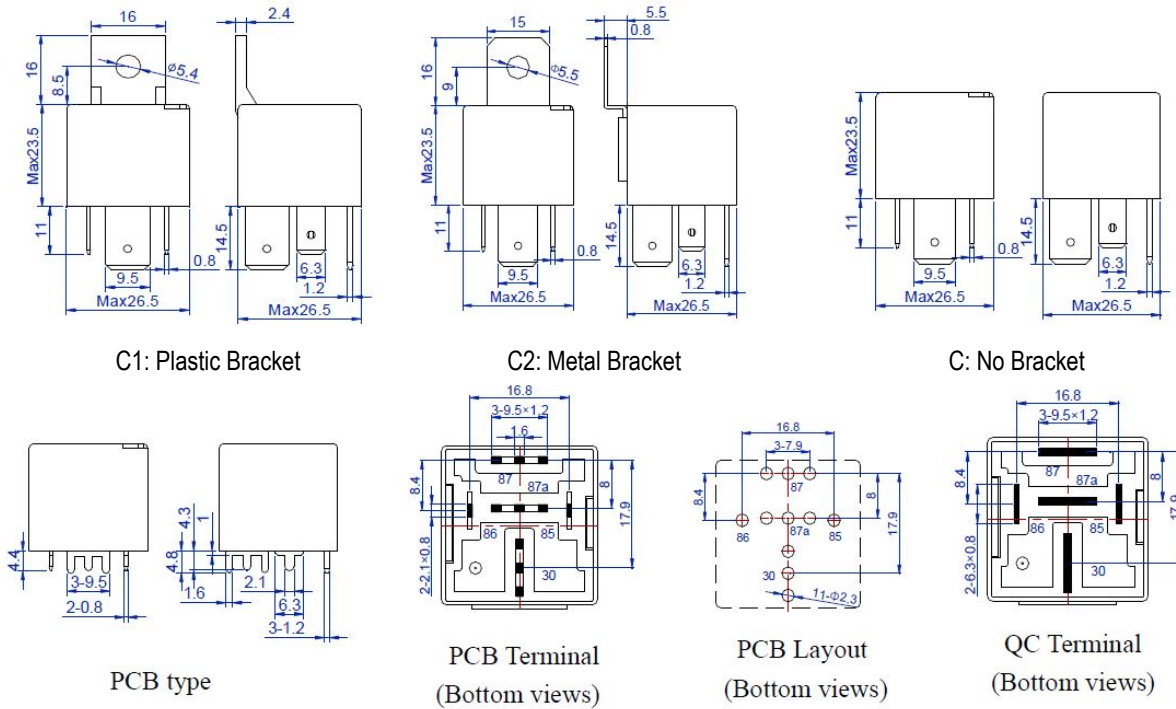
COIL DATA

Coil Voltage (VDC)		Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Resistor Values (Ohms ± 10%)	Coil Resistance (Ohms ± 10%)				Coil Power (W)			
					Without Resistor		With Resistor		Without Resistor		With Resistor	
Rated	Max				1.8 W**	1.6 W	1.8 W**	1.6 W	1.8 W**	1.6 W	1.8 W**	1.6 W
6	7.8	3.9	0.6	180	20	22.5	18	20	1.8	1.6	2	1.8
12	15.6	7.8	1.2	680	80	90	72	79				
24	31.2	15.6	2.4	2700	320	360	286	318				
48	62.4	31.2	4.8	10000	1280	1,440.00	1135	1259				

NOTES:

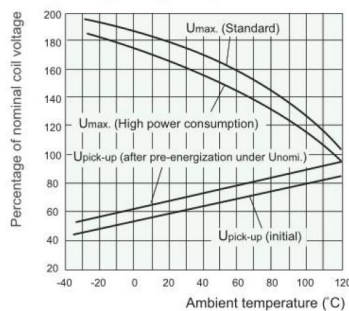
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage and Release Voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm / inches)

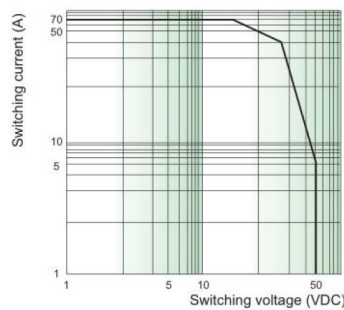


REFERENCE DATA

1. Coil operating voltage range



2. Load limit curve



WIRING DIAGRAM

