

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

PC796



CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form C			
Contact Form	Normally Open	Normally Closed		
May Switching Current	Make 240 A ⁽¹⁾	Make 180 A ⁽¹⁾		
Max Switching Current	Break 80 A	Break 60 A		
Max Switching Power	1,120 W			
Max Switching Voltage	75 VDC			
May Cantinuous Current	80 A @ 25°C	60 A @ 25°C		
Max Continuous Current	60 A @ 85°C	45 A @ 85°C		
Minimum Load	0.5A @ 12VDC			

CHARACTERISTICS

7 msec Typical
2 msec Typical
100 MΩ min @ 500VDC
50 Hz 500V _{RMS} 1 min. Between Contact and Coil
50 Hz 500V _{RMS} 1 min. Between Contacts
147 m/s ² 11 msec
10-40 Hz Double Amplitude 1.5mm
8 N, 4N (PC Type)
235°C ± 2°C 3 sec ± 0.5 sec
2.3 W

FEATURES

- Designed for H Bridge Motor Drive Applications Utilizing the NC Contact for Dynamic Braking
- Contact Material, Coil Power and Contact Gaps Optimized
- NC Contact Bounce Significantly Reduced
- Contact Switching Capacity up to 240 Amps
- 80 Amps @ 14VDC Continuous Carrying Current
- Plain Case, Bracket or PCB Options
- Compatible with Socket SC795
- **RoHS Compliant**

CONTACT RATINGS 24 VDC at 25°C

Contact Form	1 Form C				
Contact Form	Normally Open	Normally Closed			
May Cuitabing Current	Make 120 A ⁽¹⁾	Make 90 A ⁽¹⁾			
Max Switching Current	Break 40 A	Break 30 A			
Max Switching Power	1,120 W				
Max Switching Voltage	75 VDC				
Max Continuous Current	40 A @ 25°C	30 A @ 25°C			
wax continuous current	30 A @ 85°C	22.5 A @ 85°C			
Minimum Load	0.5A @ 12VDC				

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

CONTACT DATA

Material		AgSnO ₂ , AgSnO ₂ (HV=125) ⁽²⁾		
Initial Contact Resistance		≤ 30mΩ initial		
Service Life	Electrical	1 x 10 ⁵ Operations		
	Mechanical	1 x 107 Operations		

(2)Standard AgSnO₂ contacts have a hardness value (HV) of 95-100

CHARACTERISTICS Continued

	11404
Operating Temperature	-40°C to +125°C
Storage Temperature	-40°C to +155°C
Relative Humidity	85% at 40°C
Weight	47 grams

ORDERING INFORMATION

Example:	PC796	-1C	-C	-12	S	-N	-X	
Model: PC796								
Contact Form: 1C		<u> </u>						
Case Style: C: Plug-In; C1: Plastic Br	acket; C2: Metal I	Bracket						
P: PCB; P1: PCB w/Plastic Brack	ket; P2 : PCB w/M	etal Brac	ket					
Coil Voltage: 6, 12, 24								
Contact Material: Nil: AgSnO ₂ ; H: Ag	SnO ₂ (HV=125)*							
Enclosure: C: Dust Cover; S: Sealed								
Parallel Component: Nil: None; D: Di	ode; R : Resistor;	N: Nickel						

See SC795 for availably sockets

Resistor Values (1/4 Watt): 6V -180 ohm 12V - 680 ohm 24V - 2.700 ohm Diode: 1N4005

Box Quantity: 400; Inner Box: 100

*Standard AgSnO₂ contacts have a hardness value (HV) of 95-100



RoHS Compliant: -X

3220 Commander Drive, Suite 102 Carrollton, TX 75006

Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964

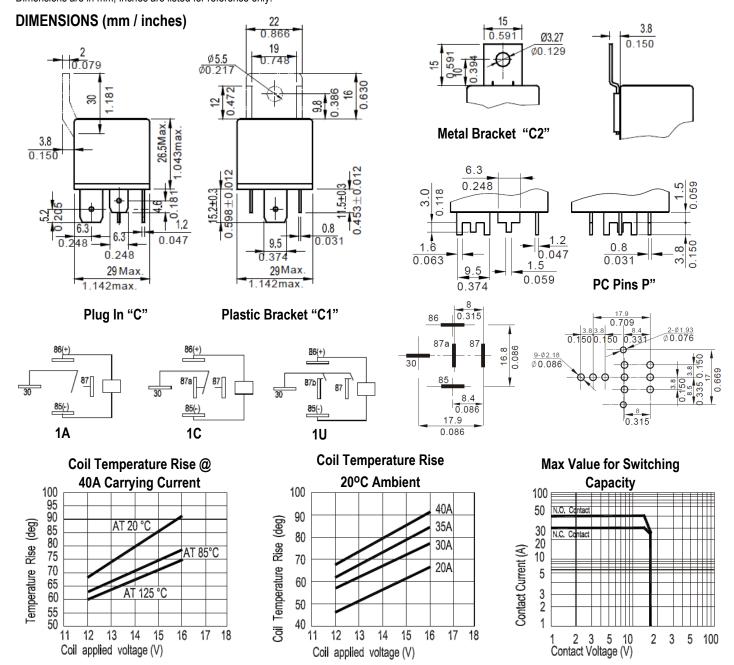
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COIL DATA

Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max	Must Release Voltage Min.	Power Consumption	
Rated	Max	(Onnis ± 10%)	(VDC)	(VDC)	(W)	
6	7.8	15.6	3.9	0.6		
12	15.6	62.6	7.8	1.2	2.3	
24	31.2	250.4	15.6	2.4		

NOTES:

The use of any coil voltage less that 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.





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