

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



### CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A or 1 Form C				
Contact Form	Normally Open	Normally Closed			
May Quitabing Qurrent	Make 240 A	Make 180 A			
Max Switching Current	Break 80 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				
Form 1U	2 x 25 A @ 14VDC				

### **CHARACTERISTICS**

Operate Time	7 msec Typical					
Release Time	2 msec Typical					
Insulation Resistance	100 MΩ min @ 500VDC					
Dielectric Strongth	50 Hz 500V <sub>RMS</sub> 1 min. Between Contact and Coil					
Dielectric Strength	50 Hz 500V <sub>RMS</sub> 1 min. Between Contacts					
Shock Resistance	147 m/s <sup>2</sup> 11 msec					
Vibration Resistance	10-40 Hz Double Amplitude 1.5mm					
Terminal Strength	8 N, 4N (PC Type)					
Solderability	235°C ± 2°C 3 sec ± 0.5 sec					
Power Consumption	1.8 W, 2.3 W, 2.6 W					
Relative Humidity	85% at 40°C					

### **ORDERING INFORMATION**

Example:

Model: PC79

Contact Form

Case Style: 0

P: PCB; P

Coil Voltage:

Enclosure: C

Coil Power: N

Parallel Com

**Terminal Plat** 

**RoHS Compl** 

### Box Quantity: 400; Inner Box: 100

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### Specifications and Availability subject to change without notice.

## CONTACT RATINGS 28 VDC at 25°C 1 Form A or 1 Form C

Most Popular Automotive Relay

1A, 1C and 1U Contact Forms Available

Plain Case, Bracket or PCB Options

Compatible with Socket SC795

Lead Free and RoHS Compliant

Contact Switching Capacity up to 240 Amps

80 Amps @ 14VDC Continuous Carrying Current

Contract Forms						
Contact Form	Normally Open	Normally Closed				
May Quitabing Current	Make 120 A	Make 90 A				
Max Switching Current	Break 40 A	Break 30 A				
Max Switching Power	1,120 W					
Max Switching Voltage	75 VDC					
Max Continuous Current	30 A 25 A					
Max Continuous Current 24W*	45 A	35 A				
Minimum Load	0.5A @ 12VDC					
Form 1U	2 x 15 A @ 24VDC					

\*Maximum Continuous Current utilizing the High Performance >0.8 mm Contact Gap and 2.6 W Coil for greater contact pressure

### CONTACT DATA

**FEATURES** 

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Material		AgSnO2		
Initial Contact Resistance		≤ 20mΩ initial		
Service Life	Electrical	1 x 10 <sup>5</sup> Operations		
	Mechanical	1 x 10 <sup>7</sup> Operations		

### CHARACTERISTICS CONTINUED

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

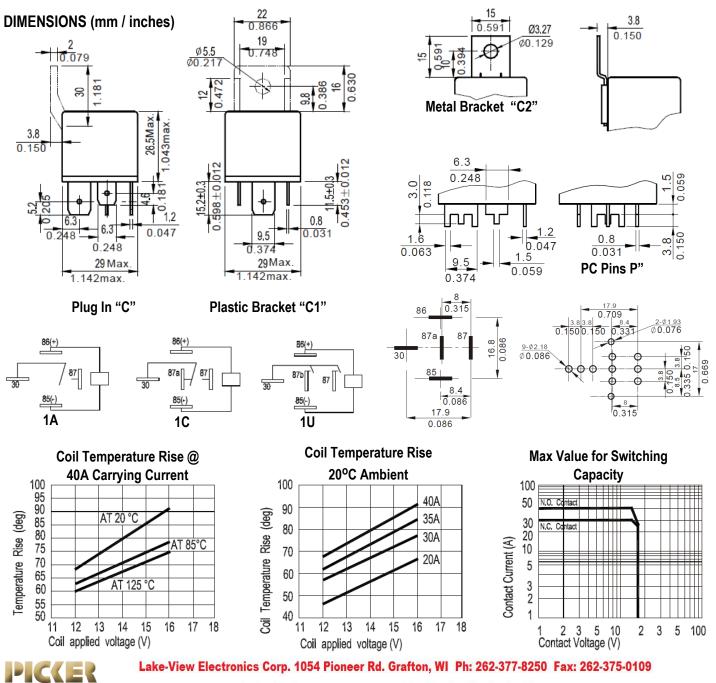
P	C795	-1C	С	-12	S			-X	
95									
m: <b>1A</b> , <b>1C</b> or <b>1U</b> (1 Form A with 2	#87 Te	rminals)							
C: Plug-In; C1: Plastic Bracket; C	<b>C2</b> : Meta	al Bracke	t						
P1: PCB w/Plastic Bracket; P2: P	CB w/M	etal Brac	ket						See SC795 for
: 6, 12, 24, 24W (Form 1A Only,	>.8mm	Contact	Gap)	1					available sockets
<b>C</b> : Dust Cover, <b>S</b> : Sealed					-				
Nil: 1.8W, 2.3: 2.3W, 2.6:2.6W (1	.8W is s	standard)							Resistor Values:
nponent: Nil: None; D: Diode; R:	Resisto	r							6V -180 ohm 12V - 680 ohm
ating <b>N</b> : Nickel Plated Terminals S	Standard	l on all P	lug in M	odels; N	il: PC P	in Versio	on		24V - 2,700 ohm
bliant: <b>-X</b>									Diode: 1N4005
Boy	Ouanti	tv: 400· I	nner Ro	v· 100					-

# PC795 COIL DATA

	Coil Voltage (VDC)		ance (Ohms Coil Power	± 10%)	Must Operate Voltage Max	Must Release Voltage Min.	
Rated	Мах	1.8W	2.3W	2.6W	(VDC)	(VDC)	
6	7.8	20	15.6	13.8	3.9	0.6	
12	15.6	80	62.6	55.4	7.8	1.2	
24	31.2	320	250.4	221.5	15.6	2.4	
48	62.4	1280	1001.6	886.0	31.2	4.8	

### NOTES:

The use of any coil voltage less that 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.



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Dimensions are listed for reference purposes only. PC795 Rev I 11/10/2016