

130 Amp Screw Clamp Automotive Relay

PC776



CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form X SPST/NO Crossbar	
Contact Form	Normally Open	
Max Switching Current	Make 300 A ⁽¹⁾	
Max Switching Current	Break 130 A	
	180 A @ 25°C	
Max Continuous Current	130 A @ 85°C	
	70 A @ 105°C	
Max Switching Voltage	40 VDC	
Max. Switching Power	4,050 W	

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form X SPST/NO Crossbar	
Contact Form	Normally Open	
May Switching Current	Make 150 A ⁽¹⁾	
Max Switching Current	Break 65 A	
	60 A @ 25°C	
Max Continuous Current	65 A @ 85° C	
	35 A @ 105°C	
Max Switching Voltage	40 VDC	
Max. Switching Power	4,050 W	

CONTACT DATA

Material		AgSnO2		
Initial Contact Resistance		30 mΩ Max @ 0.1 A, 6 VDC		
Service Life	Electrical	5 x 10 ⁴ Operations		
	Mechanical	1 x 10 ⁷ Operations		

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

ORDERING INFORMATION

	PC776	-1X	-24	С	-R	-X
Model:	PC776					
Contact Form:	1X: 1X SPST Crossbar	_				
Coil:	12: 12 VDC, 24: 24 VDC		_			
Enclosure:	C: Dust Cover IP54 Rated , S: Sealed					
Snubber Components:	Nil: None, R: Resistor, D: Diode				_	
RoHS Compliant:	X: RoHS Compliant					-

FEATURES

- 130 Amp at 14 VDC Continuous Carry Current at 85°C •
- Max Switching Current of 300 Amps •
- Form 1X Bifurcated Contacts •
- 12 and 24 VDC Versions •
- -40°C to 125°C Operating Temperature •
- Class F Insulation System (180°C) •
- **RoHS** Compliant

CROSS REFERENCES

TE: V23132

Example: V23132-B2002-B200 crosses to PC776-1X-24S-X

CHARACTERISTICS

Operate Time	10 msec Typical		
Release Time	10 msec Typical		
Insulation Resistance	100 MΩ Min @ 500VDC		
Dielectric Strength	50 Hz 1000 VAC, 1 Min Between Contact and Coil		
Dielectric Strength	50 Hz 500 V, 1 Min Between Contacts		
Shock Resistance	6 m/s ² 20 msec		
Vibration Resistance	10-200 Hz Double Amplitude 1.5mm		
Terminal Strength	8 N		
Power Consumption	12V: 3.9 W, 24V: 4.1 W		
Operating Temperature	-40°C to 125°C		
Storage Temperature	-40°C to 155°C		
Weight	220 grams		



Coil Options Resistor Values: TBD

e-mail: sales@pickercomponents.com

Specifications and Availability subject to change without notice.

PC776 COIL DATA

Coil Voltage (VDC)		Resistance	Must Operate Voltage Max	Must Release Voltage Min.	Coil Power	
Rated	Max	(Ohms ± 10%)	(VDC)	(VDC)	(W)	
12	15.6	37	7.2	1.2	3.9	
24	31.2	141	14.4	2.4	4.1	

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.

WIRING DIAGRAMS



Note: 1 Form X contact, two sets of contacts in series in what is commonly called a Crossbar configuration. With the contacts in series they each conduct approximately half the voltage drop and half the power of the load on the relay. Thus they run cooler and the reliability of the relay is increased.

DIMENSIONS (mm)

PC776 Rev B 11/2022







COPICKER¹⁴⁶⁸⁰ James Road, Rogers, MN 55374 USA Sales: (763) 535-2339 Dimensions are listed for reference purposes only.

www.PickerComponents.com e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.