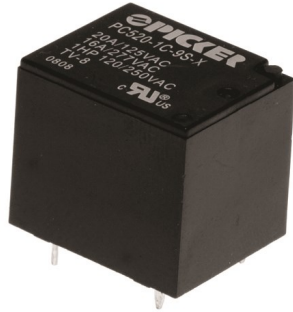


# 20 Amp Subminiature PCB Power Relay

**PC520**



## FEATURES

- 20 A at 125 VAC and 16 A at 277 VAC Contact Rating
- 1 HP at 125 VAC and 250 VAC
- 80 Amp In Rush Current, TV-8 Rated at 125 VAC
- Class "F" Insulation Standard
- Popular "Sugar Cube" Footprint
- Sealed, Immersion Cleanable
- RoHS Compliant



Contact	Normally Open	Normally Closed
Inductive Load	1 HP (16 FLA) at 125 VAC 1 HP (8 FLA) at 250 VAC	1/2 HP (9.8 FLA) at 125 VAC 1/2 HP (4.9 FLA) at 250 VAC
Resistive Load	20 A at 125 VAC 100K Cycles	20 A at 125 VAC 30K Cycles
Tungsten Load	TV-8 at 125 VAC	TV-8 at 125 VAC
General Purpose	16 A at 277 VAC, 10 A at 250 VDC 85C 20K Cycles	

## CONTACT DATA

Maximum Switching Power	3840 VA	
Maximum Switching Voltage	250 VAC	
Maximum Switching Current	20 A	
Material	AgCdO, AgSnO <sub>2</sub> , AgCdO + Gold Plated	
Initial Contact Resistance	100 milliohms max @ 0.1 A, 6 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## CHARACTERISTICS

Operate Time	Less than 15 ms
Release Time	Less than 10 ms
Insulation Resistance	1,000 MΩ min, at 500 VDC
Dielectric Strength	50 Hz 1000 V, Between Contacts
	50 Hz 2500 V, Between Contact and Coil, Surge Voltage: 4kV
Shock Resistance	100/ms <sup>2</sup> , 11 ms
Vibration Resistance	10 - 55 Hz, DA 1.0 mm
Power Consumption	360 mW, 450 mW, 600 mW

Terminal Strength	5N
Solderability	235 °C ± 2°C for 3 s ± 0.5 s
Operating Temperature Class F	- 40 to 105°C
Operating Temperature Class B	- 40 to 85°C
Storage Temperature	- 40 to 155°C
Relative Humidity	93% at 40°C
Weight	10 grams
Material Compliant To	EU RoHS V2, EU REACH V3

## ORDERING INFORMATION

Example: 

PC520	-1C	-12	S
-------	-----	-----	---

			-X
--	--	--	----

Model: **PC520**

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

Coil Voltage\*: **3, 5, 6, 9, 12, 24, 48**

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

Coil Power: **Nil**: .360 W, **0.45**: 0.450 W, **0.60**: 0.600 W;

Insulation System: **Nil**: Class F

Contact Material: **Nil**: AgCdO, **T**: AgSnO, **G**: AgCdO + Gold Plate

RoHS Compliant: **-X**

Note: \* Some Coil Voltages will have Minimum Orders  
Box Quantity 2000: Inner Box 1000

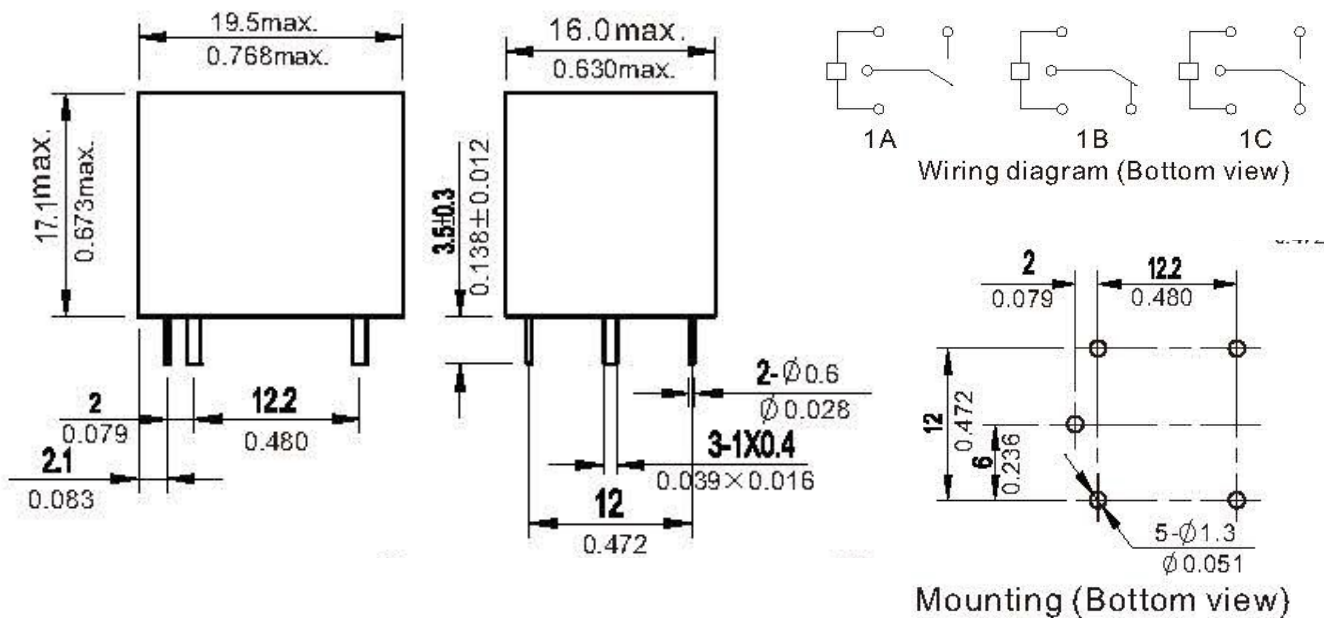
**COIL DATA**

Coil Voltage (VDC)		Coil Power			Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%				
Rated	Max	360 mW	450 mW	600 mW		
3	3.9	25	20	15	2.25	0.3
5	6.5	69	55.6	42	3.75	0.5
6	7.8	100	80	60	4.50	0.6
9	11.7	225	180	135	6.75	0.9
12	15.6	400	320	240	9.00	1.2
24	31.2	1600	1280	960	18.0	2.4
48	62.4	6400	5120	3840	36.0	4.8

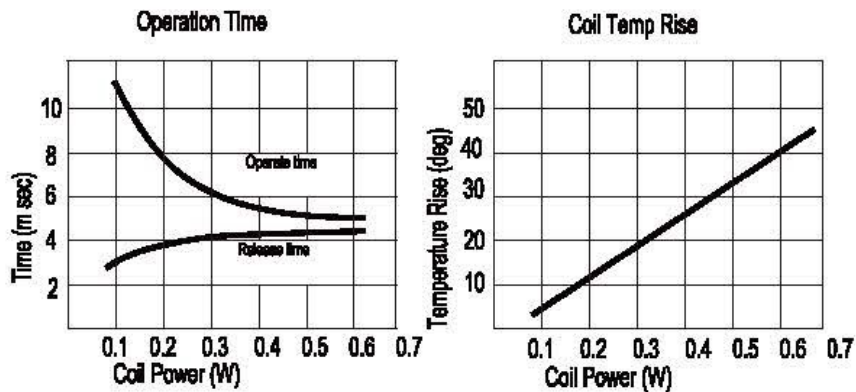
**NOTES:**

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.

**DIMENSIONS (mm/inches)**



**CHARACTERISTIC CURVES**



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