

10 Amp & 20 Amp Subminiature PCB Power Relay

PC236

 E93379



FEATURES

- Subminiature Design
- 10 Amps at 125 VAC, 20 Amps at 12 VDC
- 1/2 HP at 125 VAC
- TV-5 Rating
- Both UL and Automotive Approved
- 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 120 A ⁽¹⁾	Make 90 A ⁽¹⁾
	Break 40 A	Break 30 A
Max Continuous Current	40 A @ 25°C	30 A @ 25°C
	30 A @ 85°C	22.5 A @ 85°C
Max Continuous Current 1 Form U and 1 Form AA	2 X 20 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max. Switching Power	630 W	
Minimum Load	0.1A @ 12 VDC	

CONTACT RATINGS 24 VDC at 25°C

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 60 A ⁽¹⁾	Make 45 A ⁽¹⁾
	Break 20 A	Break 15 A
Max Continuous Current	20 A @ 25°C	15 A @ 20°C
	15 A @ 85°C	11.25 A @ 20°C
Max Continuous Current 1 Form U and 1 Form AA	2 X 15 Amps (at 85°C)	
Max Switching Voltage	75 VDC	
Max Switching Power	630 W	
Minimum Load	0.1A @ 24 VDC	

CHARACTERISTICS

Operate Time	7 msec Typical
Release Time	2 msec Typical
Insulation Resistance	100 MΩ Min at 500VDC, 50% RH
Dielectric Strength	500 Hz 500 V Between Contacts
Shock Resistance	147 m/s ² 11ms
Vibration Resistance	10 Hz—40 Hz Double Amplitude 1.5 mm
Terminal Strength	8N 4N (PC type)
Power Consumption	1.6 W

CONTACT DATA

Material	AgSnO ₂ , AgCdO	
Initial Contact Resistance	100 MΩ Max @ 0.1 A 6 VDC	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	1 x 10 ⁷ Operations

Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	31 grams

ORDERING INFORMATION

Example:	PC236	-1C	-12	S	0.8	F	-X
Model:	PC236						
Contact Form:	1A or 1C						
Coil Voltage:	6, 9, 12, 24						
Contact Material:	Nil: AgSnO ₂ ; Cd: AgCdO						
Enclosure:	S: Sealed; C: Dust Cover						
Coil Power:	Nil: 0.6 W; 0.8: 0.8 W						
Insulation System:	Nil: Class B (125°C); F: Class F (155°C)						
RoHS Compliant:	-X						

Box Quantity 2000: Inner Box 1000

COIL DATA

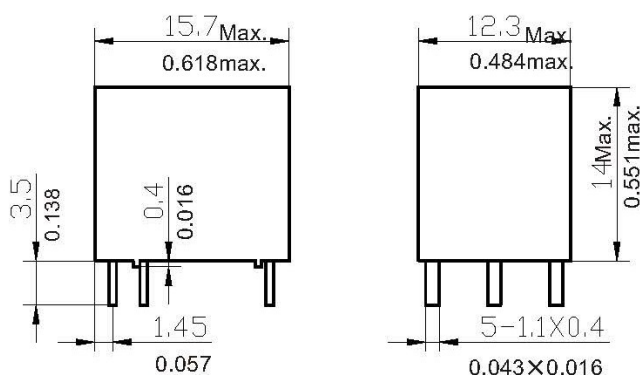
Coil Voltage		Coil Power		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	600 mW (Standard)	800 mW (Large Gap)		
6	6.6	60	45	3.6	.6
9	9.9	135	100	5.4	.9
12	13.2	240	180	7.3	1.3
24	26.4	960	720	14.4	2.4

NOTES:

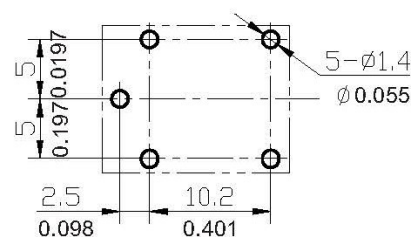
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

Dimensions are in mm, Inches are listed for reference only.

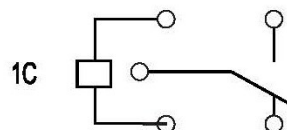
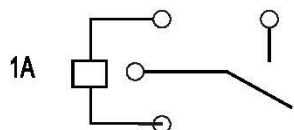
DIMENSIONS (mm/inches)



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

CHARACTERISTIC CURVES

