

# 10 Amp Subminiature PCB Power Relay

**PC435**



## FEATURES

- 10 Amp Continuous Contact Capacity
- 1 Form A & 1 Form C Contact Forms
- Sensitive Coil Version Available
- 4 KV Dielectric Between Coil and Contacts
- 8mm Spacing Between Coil and Contacts
- Sealed, Immersion Cleanable
- Lead Free & RoHS Compliant



Contact	Normally Open	Normally Closed
General Purpose	6 Amps @ 120 VAC	5 Amps @ 120 VAC
	5 Amps @ 250 VAC	3 Amps @ 250 VAC
	4.2 Amps @ 277 VAC	2 Amps @ 277 VAC
Motor	1/4HP @ 277 VAC, 250 VAC, 240 VAC, 120 VAC	
Pilot Duty Ratings	24 VA @ 24 VAC; 125 VA @ 120/240/277 VAC; C150 @ 120VAC; 1/4 HP @ 120/240/277 VAC	
Tungsten Load	TV-5	

## CONTACT DATA

Maximum Switching Power	150 W, 1,250 VA	
Maximum Switching Voltage	30 VDC, 277 VAC	
Maximum Switching Current	10 A	
Material	AgCdO	
Initial Contact Resistance	100 milliohms max @ 1 A, 24 VDC	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

## CHARACTERISTICS

Operate Time	Less than 8 ms
Release Time	Less than 5 ms
Insulation Resistance	100 MΩ min, @ 500 VDC
Dielectric Strength	1,000 V @ 50 Hz, Between Contacts
	4,000 V @ 50 Hz, Between Contact and Coil,
Shock Resistance	100/ms <sup>2</sup> , 11 ms
Vibration Resistance	10 - 50 Hz, DA 1.5 mm
Power Consumption	200 mW, 450 mW

Terminal Strength	10N
Solderability	255 °C ± 2°C for 3 s ± 0.5 s
Operating Temperature Class F	- 40 to 105°C
Operating Temperature Class B	- 40 to 70°C
Storage Temperature	- 40 to 125°C
Relative Humidity	95% at 35°C
Weight	7 grams
Material Compliant To	EU RoHS V2, EU REACH V3

## ORDERING INFORMATION

Example:	PC435	-1C	-12	S	F	-H	-X
Model:	<b>PC435</b>						
Contact Form:	<b>1A, 1C</b>						
Coil Voltage:	<b>3, 5, 6, 9, 12, 18, 24</b>						
Enclosure:	<b>S: Sealed; C: Flux Free</b>						
Insulation System:	<b>Nil: Class B (125°C), F: Class F (155°C)</b>						
Coil Sensitivity:	<b>Nil: Standard .45 W, H: Sensitive .2 W</b>						
RoHS Compliant:	<b>-X</b>						

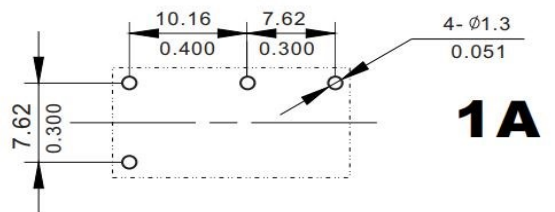
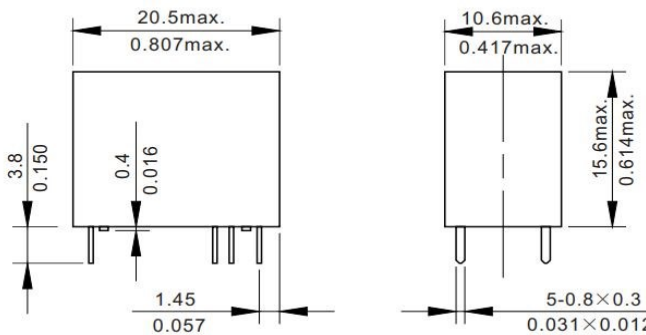
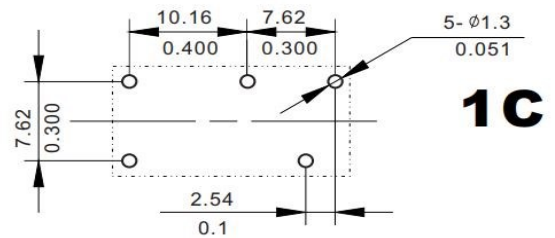
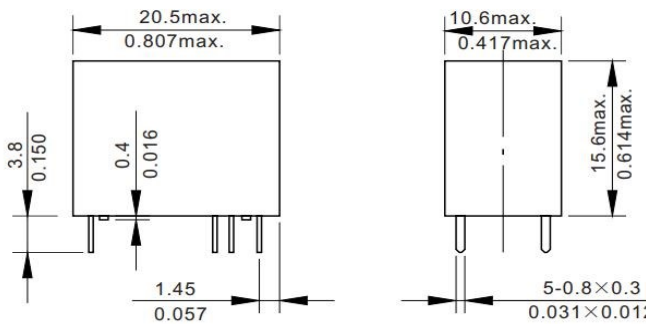
Box Quantity: 2,000; Inner Box: 1,000

COIL DATA

Coil Voltage (VDC)		Coil Power		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	200 mW	450 mW		
3	3.3	45	20	2.25	0.15
5	5.5	125	56	3.75	0.25
6	6.6	180	80	4.50	0.30
9	9.9	405	180	6.75	0.45
12	13.2	720	320	9.00	0.60
18	19.8	1,620	720	13.50	0.90
24	26.4	2,880	1,280	18.00	1.20

Dimensions

mm / inch



Dimensions

Mounting (Bottom view)



Wiring diagram (Bottom view)

- NOTES 1).Dimensions are in millimeters.
- 2).Inch equivalents are given for general information only.