

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



Load Type	All Forms, All Contacts
General Purpose	5 Amps @ 250 VAC 4.2 Amps @ 277 VAC
Resistive	10 Amps @ 125 VAC 5 Amps @ 240 VAC 4.2 Amps @ 277 VAC
Motor	1/4 HP 120/240/277 VAC
Tungsten Load	TV-5 @ 120 VAC
Pilot Duty	24 VA @ 24 VAC 125 VA @ 120/240/277 VAC C150 @ 120 VAC

CROSS REFERENCES

Omron G5SB
G5SB Crosses to PC435-1C-12SF-X
Panasonic JQ1
JQ1P-12V-F Crosses to PC435-1C-12S-X
TE PCH
PCH-112D2H,000 Crosses to PC435-1C-12S-X

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 ² , 11 ms
Vibration Resistance	10 - 50 Hz, DA 1.5 mm
Power Consumption	200 mW, 450 mW
Terminal Strength	10N
Solderability	260 °C for 5 seconds
Operating Temperature Class F	- 40°C to 105°C
Operating Temperature Class B	- 40°C to 70°C

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 ⁷ Operations
	Electrical	1 X 10 ⁵ Operations

CHARACTERISTICS CONT.

Storage Temperature	- 40°C 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:	PC435						
Contact Form:	1A, 1C						
Coil Voltage:	3, 5, 6, 9, 12, 18, 24						
Enclosure:	S: Sealed; C: Flux Free						
Insulation System:	Nil: Class B (125°C), F: Class F (155°C)						
Coil Sensitivity:	Nil: Standard .45 W, H: Sensitive .2 W						
RoHS Compliant:	-X						

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

COIL DATA

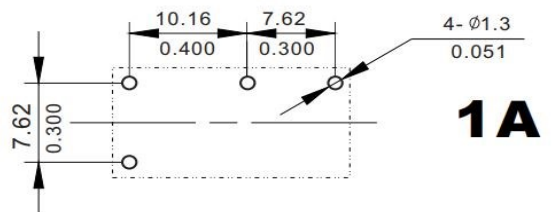
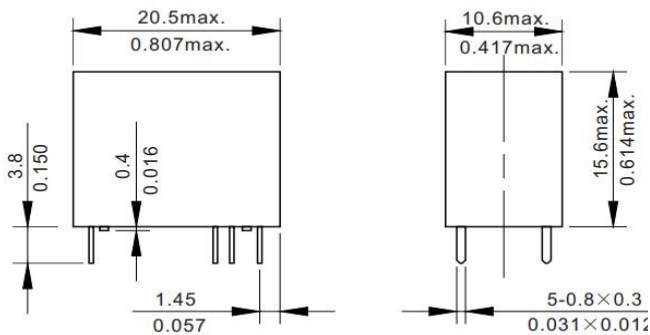
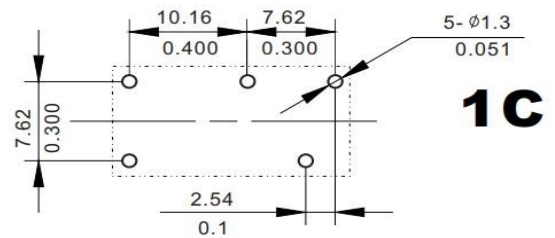
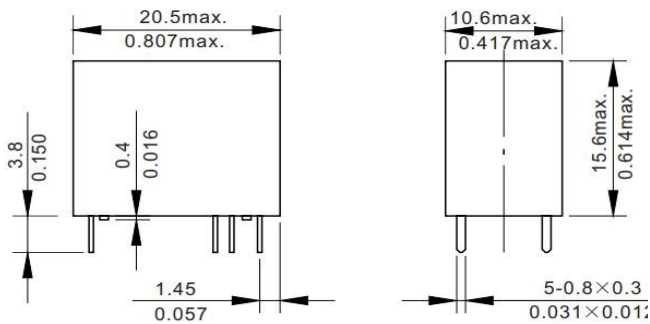
Coil Voltage (VDC)		Coil Power		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
		Resistance ohms ± 10%			
Rated	Max	200 mW	450 mW		
3	3.3	45	20	2.25	0.15
5	5.5	125	56	3.75	0.25
6	6.6	180	80	4.50	0.30
9	9.9	405	180	6.75	0.45
12	13.2	720	320	9.00	0.60
18	19.8	1,620	720	13.50	0.90
24	26.4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

NOTES:

- (1) The use of any coil voltage less than the rated voltage will compromise the operation of the relays.
- (2) Must Operate Voltage and Must Release Voltage listed for test purposes only and is not to be used as design criteria.

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.