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
- Epoxy Sealed, Non-Washable
- Lead Free & RoHS Compliant

UL / CUL Ratings

c UL us E93379

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/ms², 11 ms
Vibration Resistance	10 - 50 Hz, DA 1.5 mm
Power Consumption	450 mW
Terminal Strength	10N
Solderability	260 ºC 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 | | -X

Model:	**PC435**
Contact Form:	**1A, 1C**
Coil Voltage:	**3, 5, 6, 9, 12, 24**
Enclosure:	**S**: Epoxy Sealed Non-Washable;
Insulation System:	**Nil**: Class B (125°C), **F**: Class F (155°C)
Coil Sensitivity:	**Nil**: Standard 450 mW
RoHS Compliant:	**-X**

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

14680 James Road, Rogers, MN 55374 USA
Sales: (763) 535-2339
www.PickerComponents.com
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

COIL DATA

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

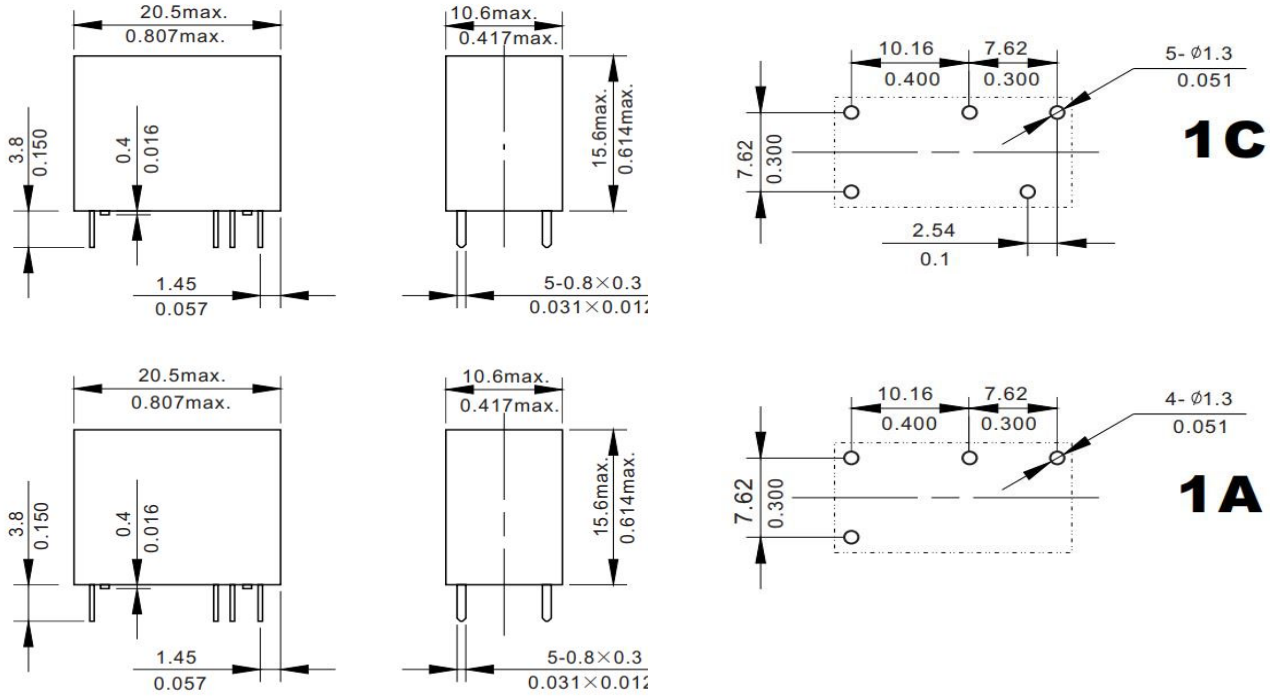
NOTES:

(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.

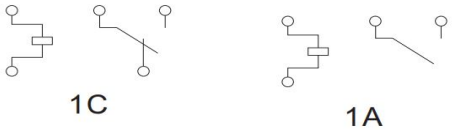
Dimensions

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.