



FEATURES

- Designed to switch motor loads with high in-rush currents
- Interface relay, PCB mountable with quick connect terminals
- Flux tight seal available
- 2 HP 240 VAC UL motor rating at 100,000 cycles, 85°C
- AgSnO₂ contacts for superior performance
- 10 kV surge voltage rating
- RoHS compliant

UL / CUL Ratings



Contact Form	1 Form A Normally Open
Max Switching Current	25 A
Max. Switching Power	6,250 VA
Max. Switching Voltage	277 VAC
Max. Continuous Current	20 A / 250 VAC

ADDITIONAL UL / CUL RATINGS

Load Type	Voltage	Cycles	Temp.	1 Form A
AC General Use & Resistive	277 / 250 VAC	100,000	85°C	25 / 20 A
Motor	240 VAC	100,000	85°C	2 HP

CHARACTERISTICS

Operate Time	20 ms max
Release Time	10 ms max
Insulation Resistance	1,000 MΩ min. at 500 VDC
Dielectric Strength	1,500 V, 50 Hz Between Contacts
	4,500 V, 50 Hz Between Contact and Coil
Surge Voltage	10kV
Power Consumption	900 mW

CROSS REFERENCES

Omron: G4A
Example: G4A-1A-E DC12 crosses to PC379-1A-12-X

CONTACT DATA

Material	AgSnO ₂	
Initial Contact Resistance	30 mΩ max at 1 A/14 VDC	
Service Life	Electrical	1 x 10 ⁵ Operations
	Mechanical	2 x 10 ⁶ Operations

CHARACTERISTICS Continued

Shock Resistance	200 m/s ² 11 ms, Functional
	1,000 m/s ² 11 ms, Survival
Vibration Resistance	10 Hz - 55 Hz DA Functional 1.5
	10 Hz - 55 Hz DA Survival 2.0 mm
Terminal Strength	10 N, 8N
Solderability	235° C ± 2° C 3 s ± 0.5 s
Operating Temperature	-25 to 85°C Class B
Relative Humidity	85% at 40° C
Weight	23 g

ORDERING INFORMATION

Example:	PC379	-1A	-12	S	-X
Model:	PC379				
Contact Form	1A				
Coil Voltage:	5, 12, 24, 48				
Enclosure:	S: Sealed, S1: Flux Tight*				
Terminal Type:	Nil: QC + PC				
RoHS Compliant:	-X				

* Flux Tight relays are constructed such that flux will not enter the relay in an automated soldering process, they are NOT suitable for water washing

Box Quantity: XXX; Inner Box: XXX

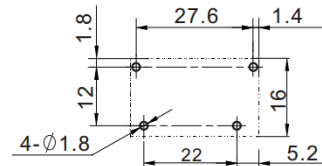
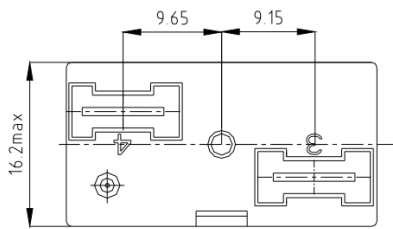
COIL DATA

Coil Voltage (VDC)		Resistance (Ohms ± 10%)	Must Operate Voltage Max (VDC)	Must Release Voltage Min. (VDC)	Coil Power (mW)
Rated	Max				
5	6.0	27.8	3.5	0.5	900
12	14.4	160	8.4	1.2	
24	28.4	640	16.8	2.4	
48	57.6	2560	33.6	4.8	

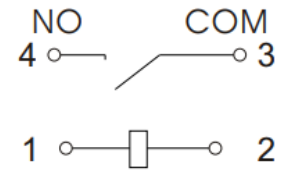
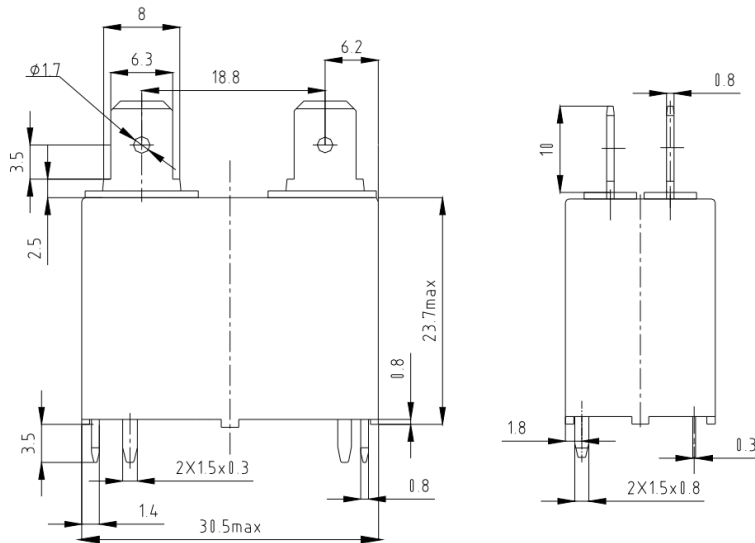
NOTES:

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

DIMENSIONS mm



Mounting (Bottom view)



Wiring Diagram