

## FEATURES

- 60A Switching Capability
- Single Coil Latching; Double Coil Latching
- 4,000VAC Dielectric Strength(Between Coil and Contact)
- RoHS Compliance
- REACH SvHC Compliance



## APPLICATION

Pre-payment Power Meters  
Charging Pile

## Coil Power

Coil voltage	9-48VDC	
Coil power	Single Coil	1.5W
	Double Coil	3W+3W

## CONTACT DATA

Contact arrangement	1 Form B/1 Form A/1 Form C
Contact material	AgSnO2
Initial contact resistance	2mΩ max.@6VDC,1A
Max. switching voltage	250VAC/30VDC
Max. switching current	60A
Max. switching power	15,000VA
Contact rating(Resistive Load)	60A@ 250VAC/30VDC
Mechanical endurance	100,000 ops Min.(no load)
Electrical endurance	10,000 ops Min(rated load)

## COIL DATA @23°C

Single Coil(1.5W)				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC Max.)	Release Voltage (VDC Max.)
9	167	54	6.8	6.8
12	125	96	9	9
24	63	384	18	18
48	31	1536	36	36

Double Coil(3W+3W)				
Nominal coil voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Operate Voltage (VDC Max.)	Release Voltage (VDC Max.)
9	333	27+27	6.8	6.8
12	250	48+48	9	9
24	125	192+192	18	18
48	63	768+768	36	36

Note: Special ordering for other coil voltage

## CHARACTERISTICS

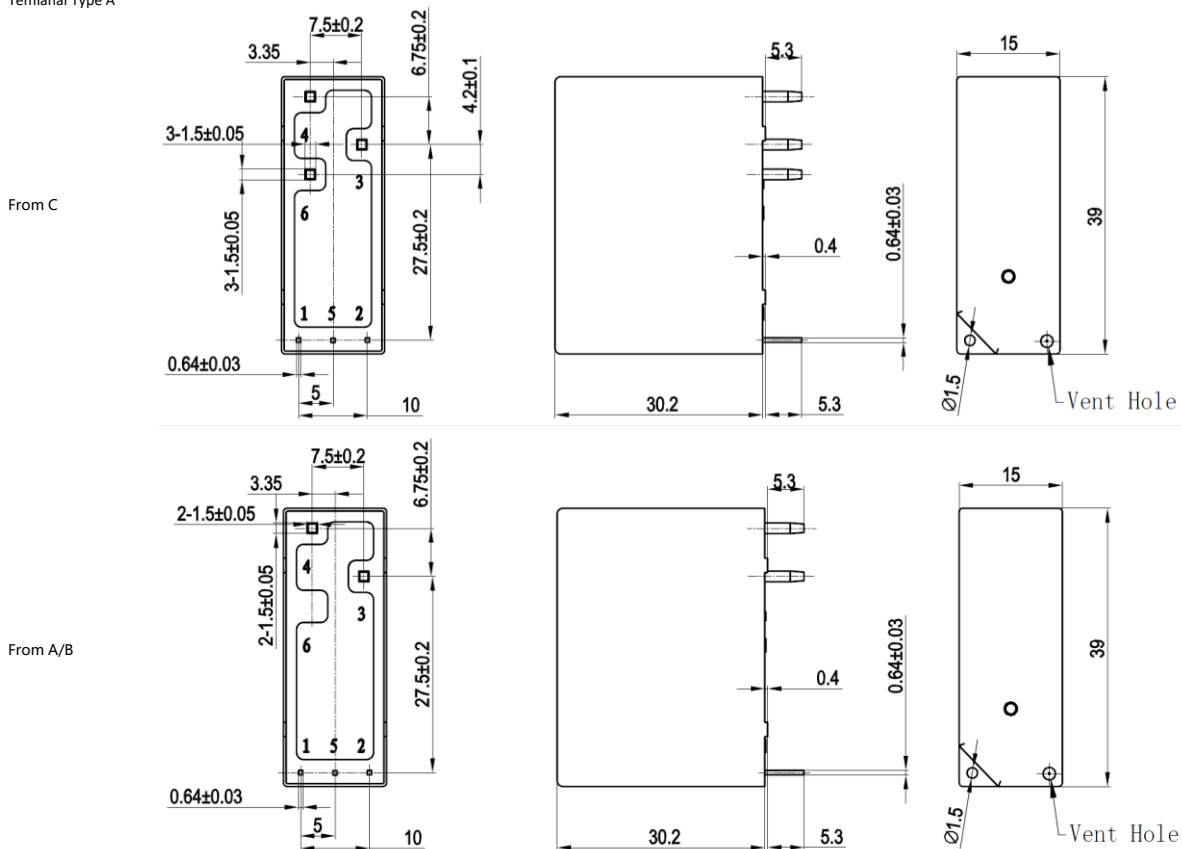
Operate voltage	75% of nominal voltage or less	
Release voltage	75% of nominal voltage or less	
Operate time (At nominal voltage)	20ms max.	
Release time(At nominal voltage)	20ms max.	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	4,000 VAC, 50/60Hz for 1 min
	Between open contacts	1,500 VAC, 50/60Hz for 1 min
Vibration resistance	10 to 55 Hz, 1.5mm double amplitude	
	10 to 55 Hz, 1.5mm double amplitude	
Shock resistance	Destruction	1,000 m/s <sup>2</sup> (100G approximately )
	Malfunction	100 m/s <sup>2</sup> (10G approximately)
Ambient temperature	Operating: -40~ +85°C (without icing or condensation)	
Ambient humidity	Operating: 20% to 85% RH	
Pulse Duration	50ms Min	
Weight	Approx. 34g	

## ORDERING INFORMATION

CHP5	-1A	12	B	N	B	2	-B	60	000
1. Product Family									
CHP5 series									
2. Number of Poles									
1A=1 Form A or 1 Form B    1C=1 Form C									
3. Rated Coil Voltage									
09=9VDC   12=12VDC   24=24VDC   48=48VDC									
4. Coil Type									
S=Single Coil   B=Double Coil									
5. Coil Polarity									
P= Positive   N:Negative ( Refer to "DIAGRAMS Coil Polarity")									
6.Contact Arrangement									
1A: A=Open Contact   B= Close Contact									
1C: B=Close M(4#)contact and C(3#)   A=Open M(4#)contact and C(3#)									
7. Contact Material									
2=AgSnO2									
8.Terminal shape									
A=Terminal Type A									
B=Terminal Type B									
9. Contact Rating									
40=40A   50=50A   60=60A									
10. Additional numbers and / or letters									
A combination of letters and Numbers (or blank),which does not represent electrical changes, only for specific customer requirements									

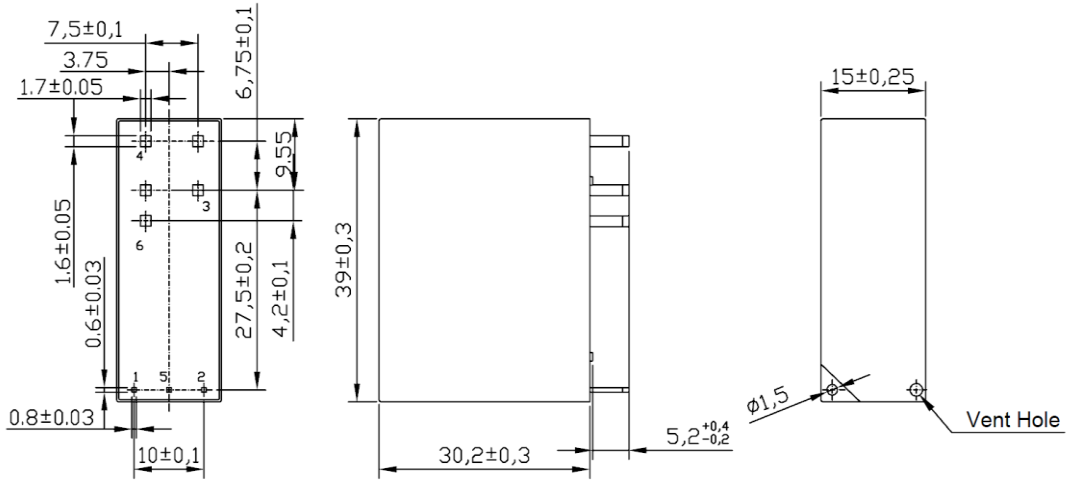
## Typical Outline

Terminal Type A

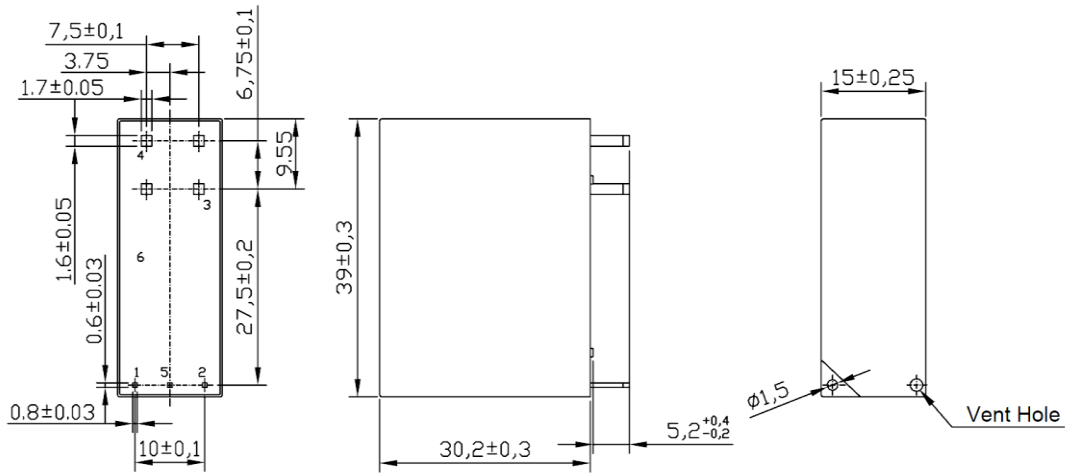


Terminal Type B

From C

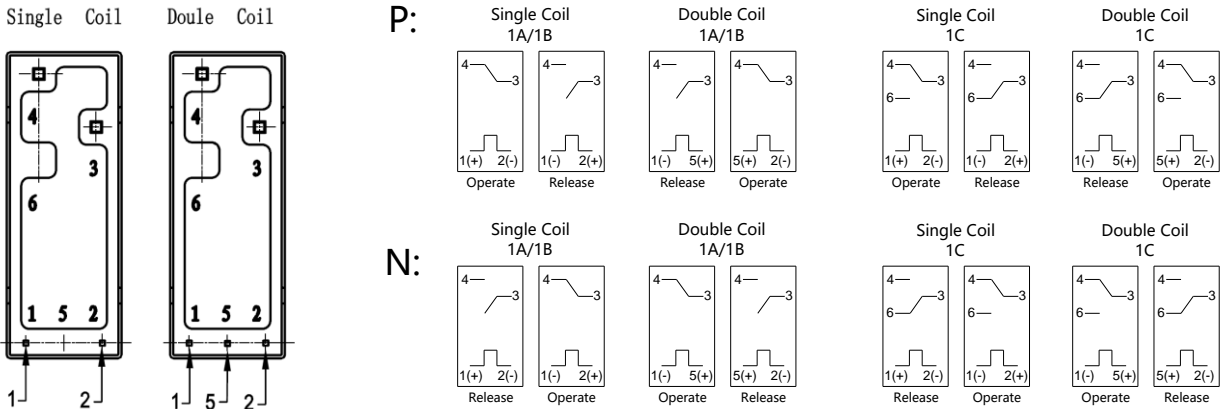


From A/B



- Remark:**
- 1)The reference tolerance in outline dimension:  
 outline dimension  $\leq 1\text{mm}$ , reference tolerance is  $\pm 0.2\text{mm}$ ;  
 outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , reference tolerance is  $\pm 0.3\text{mm}$ ;  
 outline dimension  $> 5\text{mm}$ , reference tolerance is  $\pm 0.5\text{mm}$ .
  - 2)The reference tolerance for PC Board layout is  $\pm 0.1\text{mm}$ .
  - 3) Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application ( connecting the power supply ), please rest the relay to "set" or "reset" status on request.

## DIAGRAMS Coil Polarity



## Operating Instruction

1,Default status of contacts is close(reset). But due to the collision during transportation or assembly, contacts status could be changed. So it's necessary to reset the contacts status before using.

2,This specifications is just reference, reserve the right to change the parameters without prior notice

Disclaimer:

The specification is for reference only, if you need more detail information, please contact Churod. We could not evaluate all the performance and all parameters for every possible application.

And the user should be in a right position to choose the suitable product for their own application. If there is any new need, please contact Churod for the technical service.

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