

FEATURES

- PCB terminal, large current latching contactor, outline dimension (30mm×16mm×25mm)
- Double contact for arc extinguishing structure, Load is non-polarity
- Low contact voltage drop
- Maximum lightning strike surge current: 20KA
- Short-circuit resistance current 10KA, Meet Class 2 grade(With SPCD circuit breaker)
- Main contacts: normally open contacts; Auxiliary contacts: normally open contacts
- UL, CCC compliance
- RoHS compliance
- REACH SvHC compliance



APPLICATION

5G communication power supply
Charging pile
Other DC load devices

COIL PARAMETER

Coil voltage	12-72VDC	
Coil power	Standard	Sensitive
	18W	9W

COIL DATA @23°C

CHC Standard(18W)				
Nominal coil voltage (VDC)	Nominal Current (A)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Max.)
12	1.50	8	6.0	6.0
24	0.75	32	12.0	12.0
48	0.38	128	24.0	24.0
60	0.30	200	30.0	30.0
72	0.25	288	36.0	36.0

CHC Sensitive(9W)				
Nominal coil voltage (VDC)	Nominal Current (A)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Max.)
12	0.75	16	8.4	8.4
24	0.38	64	16.8	16.8
48	0.19	256	33.6	33.6
60	0.15	400	42.0	42.0
72	0.13	576	50.4	50.4

CONTACT DATA

Type	CHC-63	CHC-80
Contact arrangement	Normally Open	
Contact material	Ag Alloy	
Initial contact resistance	0.8mΩ Max.@6VDC 20A	
Max. switching voltage	80VDC	60VDC
Max. switching current	63A	80A
Max. switching power	5040W	4800W
Main contact rated load (Resistive Load)	63A@80VDC	80A@60VDC
Auxiliary contact rated load (Resistive Load)	1A@80VDC	
Mechanical endurance	100,000 ops Min.(no load)	
Electrical endurance (Resistive Load)	6,000 ops Min.	
Minimum load (reference value)	Main Contact: 100mA@ 1VDC Auxiliary Contact: 1mA@ 3VDC	

CHARACTERISTICS

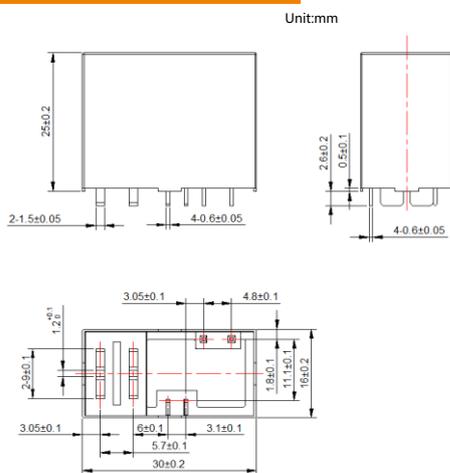
Operate voltage	Standard: 50% of nominal voltage or less Sensitive: 70% of nominal voltage or less	
Release voltage	Standard: 50% of nominal voltage or less Sensitive: 70% of nominal voltage or less	
Operate time(At nominal voltage)	≤30ms	
Release time (At nominal voltage)	≤30ms	
Operate bounce time (At nominal voltage)	≤3ms	
Insulation resistance	> 1,000 MΩ (at 500 VDC)	
Dielectric strength	Between coil and main contacts	1,000 VAC, 50/60 Hz (1 Min)
	Between coil and Auxiliary contacts	1,000 VAC, 50/60 Hz (1 Min)
	Between open main contacts	1,000 VAC, 50/60 Hz (1 Min)
	Between open Auxiliary contacts	1,000 VAC, 50/60 Hz (1 Min)
	Between main contacts and Auxiliary contacts	1,000 VAC, 50/60 Hz (1 Min)
between Live part and ground electrode	1,000 VAC, 50/60 Hz (1 Min)	
Rated impulse withstand voltage	Between coil and contacts	6,000V(1.2/50μs)
Vibration resistance	Functional	10 ~ 55 Hz, 20m/s ²
	Destructive	10 ~ 55 Hz, 50m/s ²
Shock resistance	Functional	300m/s ² (30G Min)
	Destructive	500m/s ² (50G Min)
Ambient temperature	Operating: -40~+90°C (without icing or condensation)	
Ambient humidity	5% to 85%RH	
Terminal shape	PCB Terminal	
Protection grade	V: Dust Protected	
	S: Water Proof	
Weight	Approx. 49g	

ORDERING INFORMATION

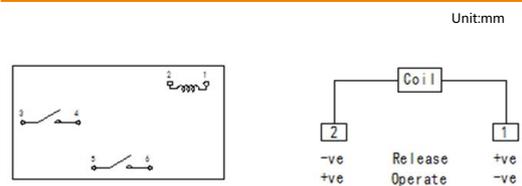
	CHC	-L	63 /	V	B	-60	-L	A	B	,000
1. Product Family										
CHC Series										
2. Coil Power										
None: Standard (18W)										
L: Sensitive (9W)										
3. Rated Load Current										
63: 63A, 80: 80A										
4. Enclosure										
V: Dust Protected										
S: Water Proof										
5. Contact Arrangement										
A: Normally Open, B: Normally Closed										
6. Nominal Coil Voltage										
12: 12VDC, 24: 24VDC, 48: 48VDC, 60: 60VDC, 72: 72VDC										
7. Coil Feature										
L: Bistable Latching Contactor										
8. Auxiliary Contact										
None: Without Auxiliary Contact										
A: With Auxiliary Contact										
9. Auxiliary Contact Arrangement										
A: Normally Open, B: Normally Closed										
10. Additional numbers and /or letters										
000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements.										

Remark: If there is no special requirements, product is shipped with normally closed status, main contacts and auxiliary contacts is in the same status.

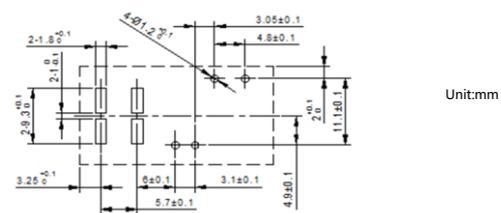
OUTLINE DIMENSION



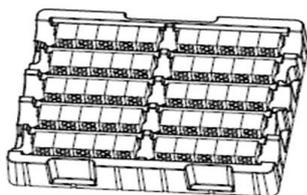
WIRING DIAGRAMS (BOTTOM VIEWS)



PC BOARD LAYOUTS (BOTTOM VIEWS)



PACKAGING



50 pcs inside a box
250 pcs inside a carton

Remark:

The reference tolerance in outline dimension:
outline dimension ≤ 1 mm, reference tolerance is ± 0.2 mm;
outline dimension > 1 mm and ≤ 5 mm, reference tolerance is ± 0.3 mm;
outline dimension > 5 mm, reference tolerance is ± 0.5 mm.
The reference tolerance for PC Board layout is ± 0.1 mm.

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.

[Http://www.churod.com](http://www.churod.com)

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