

FEATURES

- PCB terminal, large current latching contactor, outline dimension (30mm×16mm×25mm)
- Double contact for arc extinguishing structure, Load is non-polarity
- Low contact pressure drop
- Contact arrangement: Main normally close contacts; Auxiliary normally close contacts
- UL,CCC,TUV compliance
- RoHS compliance
- REACH SvHC compliance



File NO. E329801



File NO. R 50545700



File NO. : In process

APPLICATION

5G communication power supply
Charging pile
Other DC load devices

COIL PARAMETER

Coil voltage	12~72VDC
Coil power	3W

COIL DATA @23°C

CHC Standard(3W)				
Nominal coil voltage (VDC)	Nominal Current (A)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Max.)
12	0.25	48	8.40	8.40
24	0.13	192	16.80	16.80
48	0.06	768	33.60	33.60
60	0.05	1200	42.00	42.00
72	0.04	1728	50.40	50.40

CONTACT DATA

Contact arrangement	1 Form A	
Contact material	Ag Alloy	
Initial contact resistance	0.8mΩ Max.@6VDC 20A	
Max. switching voltage	48VDC(CHC-D90)	250VAC(CHC-A90)
Max. switching current	90A	
Max. switching power	4,320W	22,500VA
Main contact rated load (Resistive Load)	90A@ 48VDC	90A@ 250VAC
Auxiliary contact rated load (Resistive Load)	1A@48VDC	
Mechanical endurance	100,000 ops Min.(no load)	
Electrical endurance	6,000 ops Min.(Resistive Load)	
Minimum load (reference value)	Main Contact: 100mA@1VDC	Auxiliary Contact: 10mA@5VDC

CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	75% of nominal voltage or less	
Operate time (At nominal voltage)	≤20ms	
Release time (At nominal voltage)	≤20ms	
Operate bounce time (At nominal voltage)	≤3ms	
Insulation resistance	100 MΩ (at 500 VDC)	
Dielectric strength	Between coil and main contacts	1,000 VAC, 50/60 Hz (1min)
	Between coil and Auxiliary contacts	1,000 VAC, 50/60 Hz (1min)
	Between open main contacts	1,000 VAC, 50/60 Hz (1min)
	Between open Auxiliary contacts	1,000 VAC, 50/60 Hz (1min)
	Between main contacts and Auxiliary contacts	1,000 VAC, 50/60 Hz (1min)
Between Live part and ground electrode	1,000 VAC, 50/60 Hz (1min)	
Rated impulse withstand voltage (Between coil and contacts)	2,500V(1.2/50μs)	
Vibration resistance	Functional	10 Hz ~ 55 Hz, 50 m/s ² (Approx. 5G)
	Destructive	10 Hz ~ 55 Hz, 20 m/s ² (Approx. 2G)
Shock resistance	Functional	500 m/s ² (Approx.50G)
	Destructive	300 m/s ² (Approx.30G)
Ambient temperature	-40~+90°C (without icing or condensation)	
Ambient humidity	5% to 95% RH	
Terminal shape	PCB Terminal	
Protection grade	IP40	
Weight	Approx. 49g	

ORDERING

CHC	-D	90	/ V	B	-12	-L	A	B	, 000
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1.Product Family
CHC Series

2.Load type
A: AC load
D: DC load

3. Rated load current
90: 90A

4. Level of Protection
V: dustproof type
S: dustproof and waterproof type

5. Contactor construction
A: open contact, B: close contact

6. Rated Coil Voltage
12: 12VDC 24:24VDC 48:48VDC 60:60VDC 72:72VDC

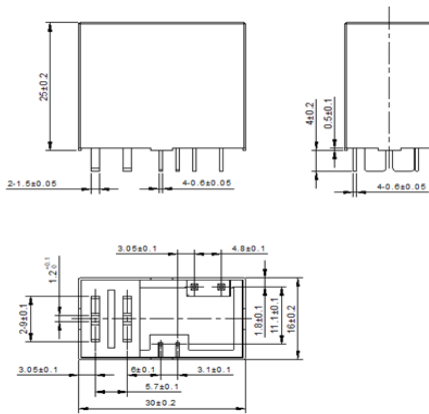
7. Product type
L: Bistable latching

8. Auxiliary normally
Blank: without Auxiliary Contact
A: with one group Auxiliary Contact

9: Auxiliary Contactor construction
A: open contact, B: close contact

10. Character Numbers
000-999, AAA-ZZZ or blank, which does not represent electrical changes, only for specific customer requirements

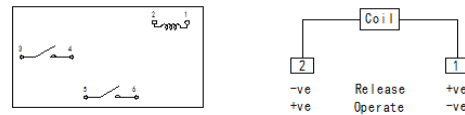
OUTLINE DIMENSION



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.

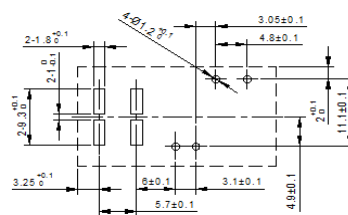
WIRING DIAGRAMS (BOTTOM VIEWS)

Unit:mm



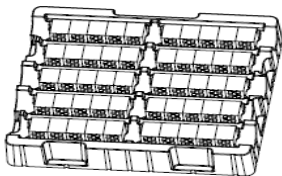
PC BOARD LAYOUTS (BOTTOM VIEWS)

Unit:mm



PACKAGING

1carton



50 pcs inside a box
250 pcs inside a carton

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.