

FEATURES

- Outline dimension : 30 mm×36 mm×44mm
- 2 Form A (DPST) contact arrangement; GAP>3.2 mm (main contacts) ; GAP>0.7 mm (auxiliary contact)
- Designed to meet UL,TUV,CQC requirements
- Category of protection RTII
- 40A contact switching capability
- The holding voltage is applied to the coil,Save power loss
- insulation class F



APPLICATION

- Industrial control charging pile

COIL DATA @23°C

Nominal coil voltage (VDC)	Coil power (W)	Nominal Current (mA)	Coil Resistance (Ω)±10%	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
3	1.88	625	4.8	2.25	0.15
6	1.88	314	19.1	4.5	0.3
9	1.88	209	43.1	6.75	0.45
12	1.88	157	76.6	9	0.6
24	1.88	78	306.4	18	1.2
48	1.88	39	1225.5	36	2.4

HOLDING VOLTAGE

Nominal coil voltage (VDC)	holding voltage (VDC)	
	-40°C~+23°C	+23°C~+85°C
3	1.1~3.3	1.5~1.8
6	2.1~6.6	3.0~3.6
9	3.2~9.9	4.5~5.4
12	4.2~13.2	6.0~7.2
24	8.4~26.4	12.0~14.4
48	16.8~52.8	24.0~28.8

CONTACT DATA

Contact arrangement	2 Form A (DPST) + auxiliary contact
Contact material	Ag Alloy
Initial contact resistance	100mΩ max(6V DC/1A),(main contacts) 10mΩ max(6V DC/20A)(main contacts) 100mΩ max(auxiliary contact)
Max. switching voltage	277VAC
Max. switching current	40A
Max. switching power	11080VA(main contacts)/277VA(auxiliary contact)
Contact rating(Resistive Load)	40A 277VAC(main contacts)、1A 277VAC(auxiliary contact);
Short-circuit tests	$I_p \geq 1.85KA$, $I^2t \geq 4.5kA^2s$ (based on requirements of IEC 62955) $I_p \geq 1.5KA$, $I^2t \geq 6kA^2s$ (based on requirements of IEC 62752) $I^2t \geq 9kA^2s$ (based on requirements of IEC 62052)
Breaking capacity	500A 277VAC (based on requirements of IEC 62955)
Inrush current	230A for 100μs (based on requirements of IEC 61851)
Surge current	3kA for 8/20μs (based on requirements of IEC 62955)
Mechanical endurance	5,000,000 ops Min.(no load)
Electrical endurance	10,000 ops Min.(40A; rated load) 50,000 ops Min.(35A; rated load)

CHARACTERISTICS

Dielectric strength	Between open main contacts	2000 VAC. 50/60 Hz 1 min
	Between main contacts and auxiliary contacts	2000 VAC. 50/60 Hz 1 min
	Between main contact groups	5000 VAC. 50/60 Hz 1 min
	Between main contacts and coil	5000 VAC. 50/60 Hz 1 min
	Between auxiliary contacts and coil	2000 VAC. 50/60 Hz 1 min
	Between open auxiliary contacts	1000 VAC. 50/60 Hz 1 min
Insulation resistance		1000 MΩ (500VDC)
Operate time (At nominal voltage)		≤30 ms
Release time(At nominal voltage)		≤10 ms
Vibration esistance	Destruction	10 Hz~ 55 Hz, 1.5 mm
	Malfunction	10 Hz~ 55 Hz, 1.0mm
Shock resistance	Destruction	980 m/s ²
	Malfunction	98 m/s ²
Ambient temperature		Operating: -40~+85°C (without icing or condensation)
Ambient humidity		5% RH ~85% RH
Terminal		PCB terminals
Enclosure (94V-0 Flammability Ratings)		V: Vented(Flux-tight, RTII)
Insulation distance		Between Form A contact and coil: Min.10.2mm/11.7mm(Clearance/Creepage)
Weight		Approx. 66g

ORDERING INFORMATION

CHIB

-40/

12

H

2DA

B

P

,XXX

1. Product Family

series: CHIB

2. load current

40 = 40A; 35 = 35A

3. Rated coil voltage

03 =3 VDC 06 =6 VDC 09 =9 VDC 12 =12 VDC 24 =24 VDC 48 =48 VDC

4. load voltage

H= 277VAC

5. Contact Arrangement

2DA = Form 2A (DPST)

6. auxiliary contacts

B = with auxiliary contact, Blank = without auxiliary contact

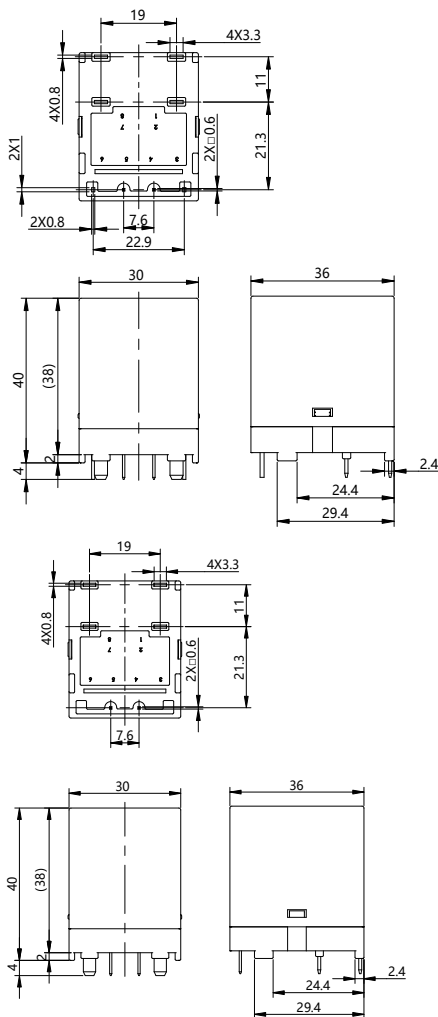
7. auxiliary contacts extraction form

P = PCB

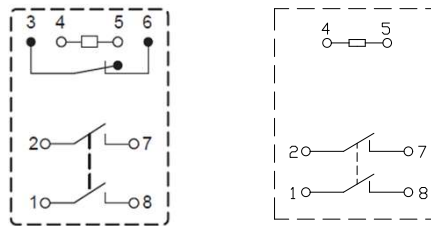
8. Additional numbers and /or letters

000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements

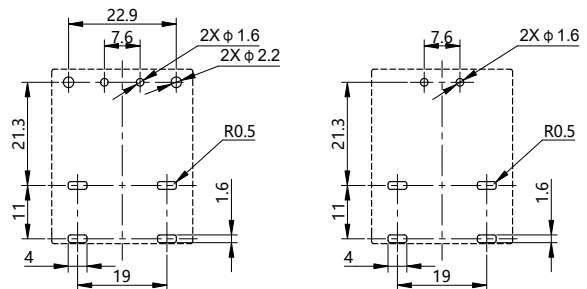
OUTLINE DIMENSION



WIRING DIAGRAMS (BOTTOM VIEWS)



PC BOARD LAYOUTS (BOTTOM VIEWS)



Remark:

1)The reference tolerance in outline dimension:

outline dimension $\leq 10\text{mm}$, reference tolerance is $\pm 0.3\text{mm}$;

outline dimension $> 10\text{mm}$ and $\leq 50\text{mm}$, reference tolerance is $\pm 0.5\text{mm}$;

outline dimension $> 50\text{mm}$, reference tolerance is $\pm 0.8\text{mm}$.

2)The reference tolerance for PC Board layout is $\pm 0.1\text{mm}$.

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.