

## FEATURES

- Outline dimension : 30 mm×36 mm×44mm
- 2 Form A (DPST) contact arrangement; GAP> 3.5 mm (output) ; GAP> 0.7 mm (input)
- 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 ~ 55°C	55°C ~ 85°C
3	0.9~3.3	0.9~1.8
6	1.8~6.6	1.8~3.6
9	2.7~9.9	2.7~5.4
12	3.6~13.2	3.6~7.2
24	7.2~26.4	7.2~14.4
48	14.4~52.8	14.4~28.8



UL File NO. UL-CA-2220999-0  
 TUV File NO. R50546557  
 CQC File NO. CQC22002341626

## CONTACT DATA

Contact arrangement	2 Form A (DPST) +auxiliary contact
Contact material	Ag Alloy
Initial contact resistance	100mΩ max(6V DC/1A),(output) 3mΩ max(6V DC/20A)(output) 100mΩ max(input)
Max. switching voltage	480VAC
Max. switching current	40A
Max. switching power	11080VA(output)/277VA(input)
Contact rating(Resistive Load)	40A 277VAC(output), 1A 277VAC(input);
Short-circuit tests	I <sub>p</sub> ≥1.85KA, I <sub>2t</sub> ≥4.5KA <sup>2</sup> S (based on requirements of IEC 62955) I <sub>p</sub> ≥1.5KA, I <sub>2t</sub> ≥6KA <sup>2</sup> S (based on requirements of IEC 62752)
Mechanical endurance	10,000,000 ops Min.(no load)
Electrical endurance	100,00 ops Min.(40A; rated load) 500,00 ops Min.(35A; rated load)

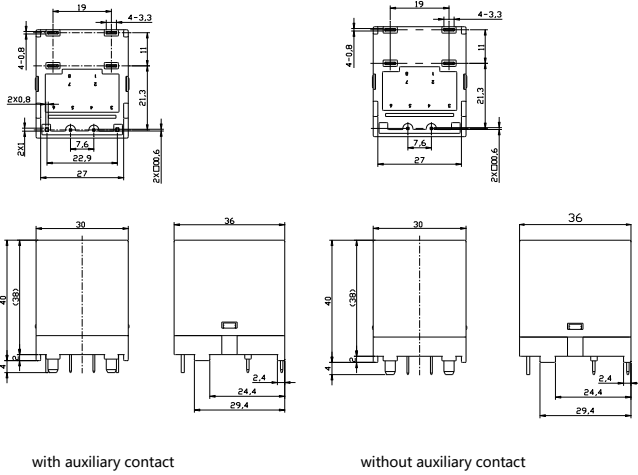
## CHARACTERISTICS

Dielectric strength	Between open main contacts	2000 VAC. 50/60 Hz 1 min
	Between main contacts and auxiliary contacts	5000 VAC. 50/60 Hz 1 min
	Between main contact groups	2000 VAC. 50/60 Hz 1 min
	Between main contacts and coil	5000 VAC. 50/60 Hz 1 min
	Between auxiliary contacts and coil	5000 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 resistance	Destruction	10 Hz~ 55 Hz, 1.5 mm
	Malfunction	10 Hz~ 55 Hz, 1.0mm
Shock resistance	Destruction	980 m/s <sup>2</sup>
	Malfunction	98 m/s <sup>2</sup>
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/11.8mm(Clearance/Creepage)
Weight		Approx. 66g

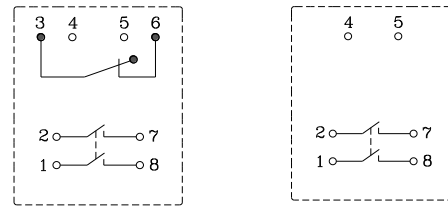
## ORDERING INFORMATION

	CHIB	-40/	12	H	2DA	B	P	,XXX
1. Product Family series: CHIB								
2. load current 40=40A; 35=35A								
3. Rated coil voltage 3 =3 VDC 6 =6 VDC 9 =9 VDC 12 =12 VDC 24 =24 VDC 48 =48 VDC								
4. load voltage H= 277VAC								
5. Contact Arrangement 2DA=Form 2DA(SPDT)								
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								

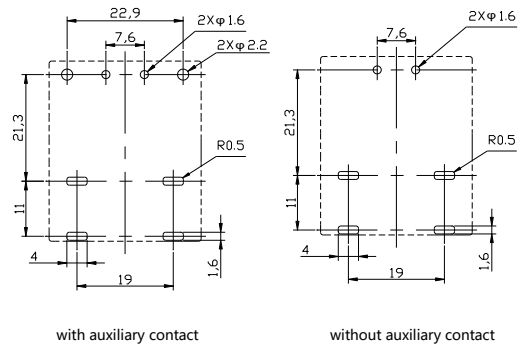
## OUTLINE DIMENSION



## WIRING DIAGRAMS (BOTTOM VIEWS)



## PC BOARD LAYOUTS (BOTTOM VIEWS)



Remark:

- 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  $\pm 0.5\text{mm}$ .
- The reference tolerance for PC Board layout is  $\pm 0.1\text{mm}$ .