CHDC-D200A/D250A Series

Churod Electronics

FEATURES

- 200A/250A Contact switching capability
- Having a set of normally open/normally closed contacts
- Meet cULus,CCC Requirements（UL508，IEC60947-4-1，GB/T 14048.4）
- RoHS compliance
- REACH SvHC compliance

File NO. E341422

File NO.2020970304001723

File NO.2020970304001720

APPLICATIO

Telecommunication equipment, construction machinery, battery car, Electric forklift，automobile，Train，Ship，

Uninterruptible power supply and other electronic control systems.

COIL PARAMETER

CHDC-D200AS/BS/ASH				
Nominal Voltage (VDC)	Rated Starting Power (W)	Rated Starting Current (A)	Rated Holding Power (W)	Rated Holding Current (A)
12	Approx. 90	7.5	Approx. 2.0	0.17
24	Approx. 120	5	Approx. 3.6	0.15
48	Approx. 177	4	Approx. 4.8	0.10
60	Approx. 192	3	Approx. 5.0	0.08

COIL DATA @23℃

CHDC-D200AS/BS/ASH					
Nominal voltage (VDC)	Starting coil resistance (Ω)±10%	Hold coil resistance (Ω)±10%	Max.working Voltage (VDC)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
12	1.6	69.9	14.4	9.0	1.2
24	4.6	158.8	28.8	18.0	2.4
48	13.0	483.0	57.6	36.0	4.8
60	18.8	747.8	72.0	48.0	6.0

CONTACT DATA

TYPE	CHDC-D200AS	CHDC-D200BS	CHDC-D200ASH	CHDC-D250ASH
Contact arrangement	1A Bridge Form A	1B Bridge Form B	1A Bridge Form A	1A Bridge Form A
Contact material	Ag Alloy			
Initial contact resistance	1.2mΩ Max.（6VDC,20A）			
Rated insulation voltage	63VDC	63VDC	125VDC	80VDC
Max. switching voltage	60VDC	60VDC	80VDC	72VDC
Max. switching current (Resistive Load)	200A	200A	200A	250A
Max. switching power	12,000W	12,000W	16,000W	18,000W
Mechanicalendurance (No Load)	100,000 ops Min.			
Electrical endurance (Resistive Load)	6,000 ops Min.			
Minimum load (reference value)	100mA@ 48VDC			

CHARACTERISTICS

Operate voltage		75% of nominal voltage or less
Release voltage		10% of nominal voltage or more
Operate time (At nominal voltage)		≤30ms
Release time (At nominal voltage)		≤30ms
Closed bounce time (rated voltage)		≤3ms
Insulation resistance		1,000 MΩ (at 500 VDC)
Dielectric strength	Between coil and contacts	1,500 VAC, 50/60 Hz (1 Min)
	Between open contacts	1,500 VAC, 50/60 Hz (1 Min)
Rated impulse withstand voltage	Between coil and contacts	25,000V(1.2/50μs)
	Between open contacts	25,000V(1.2/50μs)
Vibration resistance	Functional	10 ~ 55 Hz.,Acceleration≤2G
	Destructive	10 ~ 55 Hz.,Acceleration≤5G
Shock resistance	Functional	3G Min.
	Destructive	50G Min.
Ambient temperature		Operating: -40~+70℃ (without icing or condensation)
Storage ambient temperature		Operating: -40~+75℃ (without icing or condenasation)
Ambient humidity		5% to 95%Rh at 20℃
Mounting Type		Bolt terminal installation（M8）
Protection grade		IP00
Pollution degree(94V-0 Flammability Rating		Ⅲ(Case)
Weight		420g

ORDERING INFORMATION

CHDC	-1	48	D200AS	H	000

1. Product Family

CHDC Series

2. Number of Poles

1=1 pole (Bridge type)

3. Rated Coil Voltage

12 =12VDC 24 =24VDC 48=48VDC 60=60VDC

4. Current Frame

D200AS: DC 200A(Form A)

D200BS: DC 200A(Form B)

D250AS: DC 200A(Form A)

5. Load Voltage

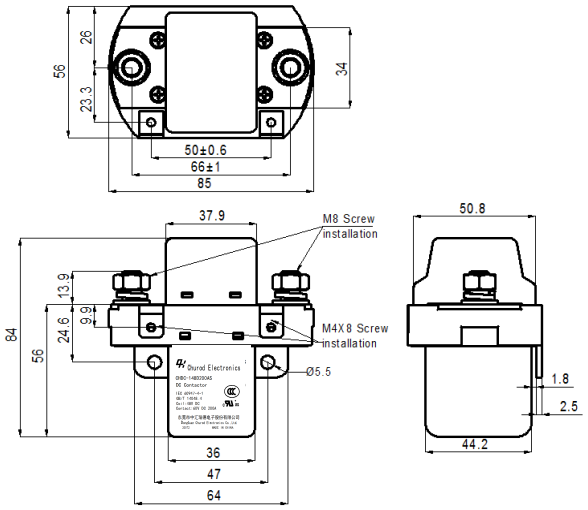
Blank =60VDC contact rating(only with available with 12V~48V coils)

H =72VDC contact rating (only with available with 12V~48V coils); 80VDC contact rating (only available with 60V coil)

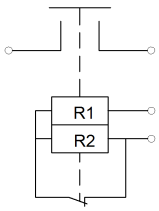
6. Additional numbers and /or letters

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

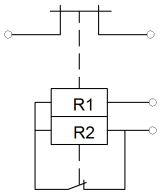
OUTLINE DIMENSION



WIRING DIAGRAMS(BOTTOM



BRIDGE FORM A



BRIDGE FORM B

Remark:

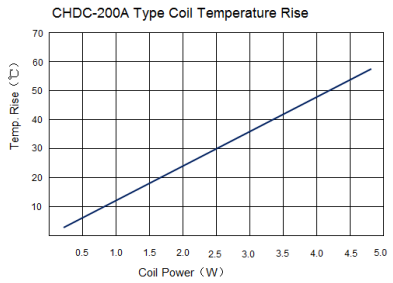
The reference tolerance in outline dimension: :

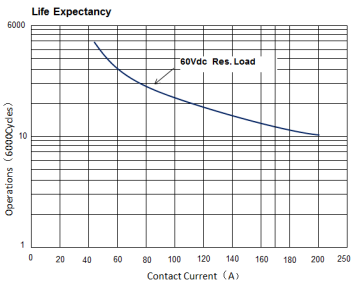
outline dimension ≤1mm, reference tolerance is ±0.2mm;

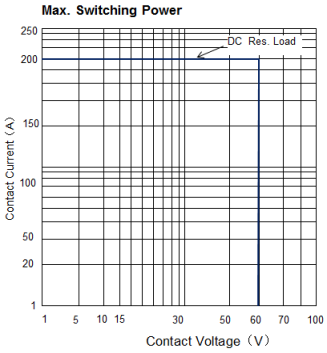
outline dimension > 1mm and ≤5mm, reference tolerance is ±0.3mm;

outline dimension > 5mm, reference tolerance is ±0.5mm.

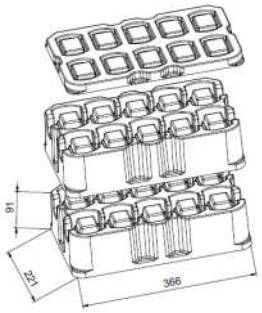
PACKING







Reference Date



10 pcs inside a box

20 pcs inside a carton

Matters needing attention

1. When installing contactor, the tightening torque of main circuit connection screw and nut is 8 ~ 13N.m, and the tightening torque of control circuit connection screw and nut is 1 ~ 1.5N.m.
2. The starting coil power must be no less than the relay coil power. Otherwise, the relay can not operate normally.
3. The product is non-waterproof. Avoid use in the environment where relay case or terminals may contact water, solvent, or oil.
4. The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change witl