CHDC-D200AD/ADH Series

FEATURES

- 200A 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

APPLICATION

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

Uninterruptible power supply and other electronic control systems.

CONTACT DATA

TYPE	CHDC-D200ADH
Contact arrangement	1A Bridge Form A
Contact material	Ag Alloy
Initial contact resistance	1.2mΩ Max. (6VDC,20A)
Rated insulation voltage	125VDC
Max. switching voltage	105/80VDC
Max. switching current (Resistive Load)	200A
Max. switching power	21,000W
Mechanicalendurance (No Load)	100,000 ops Min.(Duty cycle:1:1)
Electrical endurance (Resistive Load)	6,000 ops Min.(Duty cycle:1:11:9)
Minimum load (reference value)	100mA@ 48VDC

COIL DATA @ 23℃

CHDC-D200AD/ADH					
Nominal Voltage (VDC)	Rated Power (W)	Coil Resistance (Ω)±10%	Max.working Voltage (VDC)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
12	8.6	16.7	14.4	9.0	1.2
24	8.6	66.7	28.8	18.0	2.4
48	8.6	267.0	57.6	36.0	4.8
60	8.6	417.5	72	45.0	6.0

CHARACTERISTICS

Operate voltage		75% of nominal voltage or less
Release voltage		10% of nominal voltage or more
Operate time (At nominal voltage)		≤40ms
Release time (At nominal voltage)		≤40ms
Closed bounce time (rated voltage)		≤8ms
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 freezing or condensation)
Storage ambient temperature		Operating: -40~+75℃ (without freezing or condenasation)
Ambient humidity		5% to 95%Rh at 20℃
Mounting Type		Bolt terminal installation (M8)
Protection grade		IP00
Pollution degree(94V-0 Flammability Ratings)		Ⅲ(Case)
Weight		430g

Rated marking and breaking capacities	DC-1
Rated insulation voltage	DC125V
Rated impulse wihstand voltage	1500V
Pollution degree	3
Rated conditional short-circuit current	Iq=Ir, 10KA

ORDERING INFORMATION

CHDC	-1	12	D200A	D	H	,000

1. Product Family

CHDC Series

2. Number of Poles

1=1 pole (Bridge type)

3. Rated Coil Voltage

12,24,48,60VDC

4. Current Frame

D200A =DC 200A Single Coil(Form A)

5.Mounting Type

D=Vertical installation or Horizontal installation

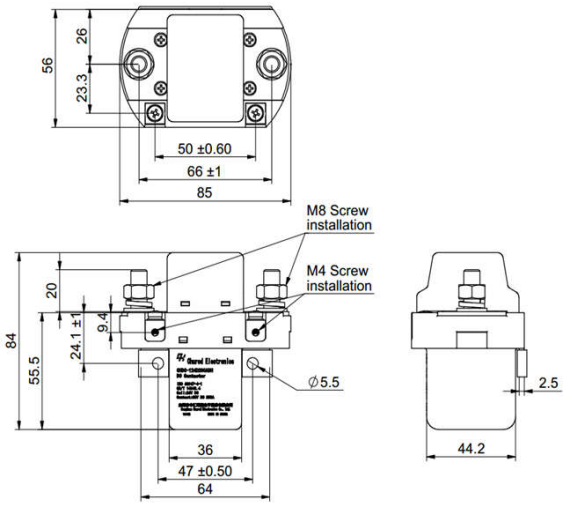
6. Load Voltage

H =105/80VDC contact rating

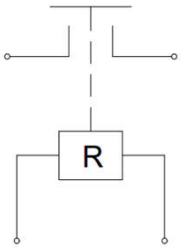
7. Additional numbers and /or letters

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

OUTLINEDIMENSION



WIRING DIAGRAMS(BOTTOM VIEWS)



Remark:

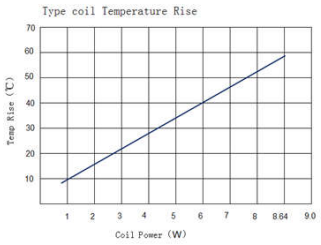
The reference tolerance in outline dimension: :

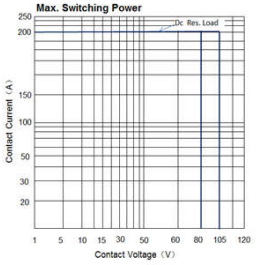
outline dimension ≤1mm, reference tolerance is ±0.2mm;

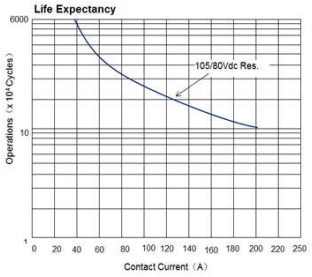
outline dimension > 1mm and ≤5mm, reference tolerance is ±0.3mm;

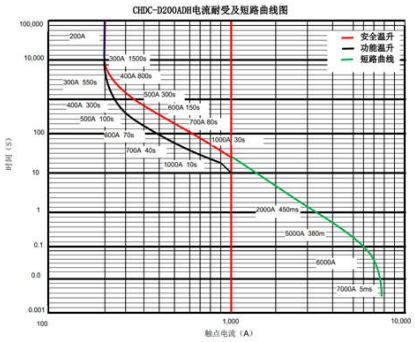
outline dimension > 5mm, reference tolerance is ±0.5mm.

特性曲线





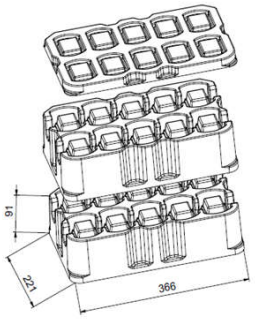




注：

1. 该曲线设定的安全温升温度为180℃，功能温升温度上限为130℃
2. 如产品需处于长时间工作状态，建议温度上限不能超过130℃
3. 环境温度为70℃，导线截面积60mm²
4. ≥2000A以上时，继电器可能会粘接，但不起火。
5. 绿色曲线为继电器短路实力曲线，≥6000A以上时继电器触点会出现弹跳，但不会起火，不爆炸。

PACKING



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 ~ 14N.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
3. The product is non-waterproof. Avoid use in the environment where relay case or terminals may contact water, solvent, or oil.

TYPICAL MODEL

Product description		Featues					
TYPE	Code	Rated Coil Voltage (VDC)	Contactmaterial	Load	Electrical endurance	Safety certification	Remarks
CHDC-1XXD200ADH	000	12,24,48.60	Ag Alloy	200A @80VDC	6,000 ops Min.	UL/cUL/CCC	
CHDC-1XXD200ADH	001	12,24,48.60	Ag Alloy	200A @80VDC	6,000 ops Min.	UL/cUL/CCC	
CHDC-1XXD200ADH	010	80	Ag Alloy	200A @80VDC	6,000 ops Min.		