# **CHDC-D400A Series**



#### FEATURES

- 400A 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





**571**. N8

File NO. E341422



File NO.2020970304001725 File NO.2020970304001722

# APPLICATIO

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

Uninterruptible power supply and other electronic control systems.

# COIL PARAMETER

CHDC-D400AS/BS/ASH				
Nominal Voltage (VDC)	Rated Starting Power (W)	Rated Starting Current (A)	Rated Holding Power (W)	Rated Holding Current (A)
12	Approx. 217.4	18.0	Approx. 5.0	0.42
24	Approx. 217.4	9.0	Approx. 5.0	0.21
48	Approx. 217.4	5.0	Approx. 5.0	0.10
60	Approx. 276.9	4.6	Approx. 5.5	0.09

# CONTACT DATA

TYPE	CHDC-D400AS	CHDC-D400BS	CHDC-D4	400ASH
Contact arrangement	1A Bridge Form A	1B Bridge Form B	1A Bridge Form A	
Contact material	Ag Alloy			
Initial contact resistance	0.7mΩ Max. (6VDC,20A)			
Rated insulation voltage	63VDC		125VDC	125VDC
Max. switching voltage	60VDC		72VDC	80VDC
Max. switching current (Resistive Load)	400A		400A	400A
Max. switching power	24000W		28,800W	32,000W
Mechanicalendurance (No Load)	100,000 ops Min.			
Electrical endurance (Resistive Load)	6,000 ops Min.			
Minimum load (reference value)	100mA@ 48VDC			

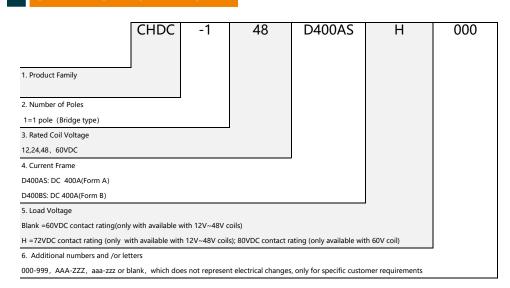
# COIL DATA

CHDC-D400AS/BS/ASH					
Nominal voltage (VDC)	Starting coil resistance (Ω)±10%	Hold coil resistance (Ω)±10%	Max.worki ng Voltage (VDC)	Operate Voltage (VDC Max.)	Release Voltage (VDC Min.)
12	0.7	29.0	14.4	9.0	1.2
24	2.7	114.0	28.8	18.0	2.4
48	10.6	461.0	57.6	36.0	4.8
60	13.0	651.0	72.0	48.0	6.0

# CHARACTERISTICS

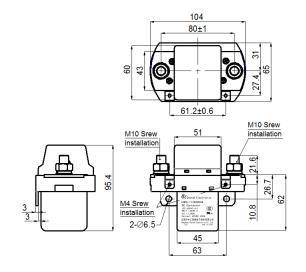
Operate voltage		75% of nominal voltage or less		
Release voltage		10% of nominal voltage or more		
Operate time(	At nominal voltage)	≤30ms		
Release time (At nominal voltage)		≤30ms		
Closed bounce time (rated voltage)		≤3ms		
Insulation resistance		1,000 MΩ (at 500 VDC)		
Dielectric	Between coil and contacts	1,500 VAC, 50/60 Hz (1 Min)		
strength	Between open contacts	1,500 VAC, 50/60 Hz (1 Min)		
Rated impulse	Between coil and contacts	25,000V(1.2/50µs)		
withstand voltage	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°C (without icing or condensation)		
Storage ambient temperature		Operating: -40~+75°C (without icing or condenasation)		
Ambient humidity		5% to 95%Rh at 20℃		
Mounting Type		Bolt terminal installation (M10)		
Protection grade		IP00		
Pollution degree (94V-0 Flammability Ratings)		Ⅲ(Case)		
Weight		650g		

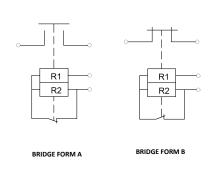
# ORDERING INFORMATION



### OUTLINE DIMENSION

#### WIRING DIAGRAMS(BOTTOM





#### Remark:

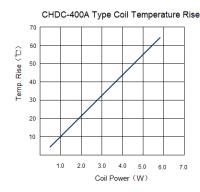
The reference tolerance in outline dimension: :

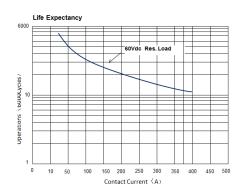
outline dimension  $\leq 1$ mm, reference tolerance is  $\pm 0.2$ mm;

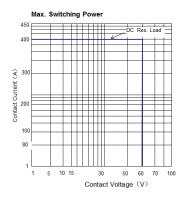
outline dimension > 1mm and  $\leq$ 5mm, reference tolerance is  $\pm$ 0.3mm;

outline dimension > 5mm, reference tolerance is  $\pm 0.5$ mm.

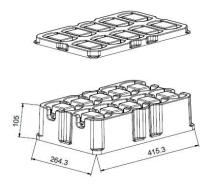
# Reference Date







## **PACKING**



10 pcs inside a box
10 pcs inside a carton

#### Matters needing attention

- 1. When installing contactor, the tightening torque of main circuit connection screw and nut is  $8 \sim 13N.m$ , and the tightening torque of control circuit connection screw and nut is  $1 \sim 1.5N.m$ .
- 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

#### 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.

Http://www.churod.com

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