

CHDC-D400/500SL/SLA Series DC contactor



FEATURES

- 400A/500A Contact switching capability
- Bistable, initial normally open and normally closed optional, auxiliary contacts optional.
- Meet cULus,CCC Requirements (UL60947-4-1 , IEC60947-4-1 , GB/T 14048.4)
- RoHS compliance
- REACH SvHC compliance



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APPLICATION

Telecommunication equipment, construction machinery, battery car,
Electric forklift, automobile, Train, Ship,
Uninterruptible power supply and other electronic control systems.

CONTACT DATA

TYPE	CHDC-D400SL/SLA	CHDC-D500SL/SLA
Contact arrangement	1A Bridge Form A or Bridge FormB (Initial)	
Contact material	Ag Alloy	
Initial contact resistance	0.5mΩ Max. (6VDC,20A)	
Rated insulation voltage	100VDC	
Max. switching voltage	80VDC	
Max. switching current (Resistive Load)	400A	500A
Max. switching power	32,000W	40,000W
Mechanicalendurance (No Load)	100,000 ops Min.(No Load)	
Electrical endurance (Resistive Load)	6,000 ops Min(Resistive Load)	
Minimum load (reference value)	100mA@ 48VDC	
Auxiliary switch Max. switching voltage	60VDC (Suitable for SLA series)	
Auxiliary switch Max. switching current (Resistive Load)	2A (Suitable for SLA series)	

COIL DATA @23°C

CHDC-D400SL/SLA					
Nominal Voltage (VDC)	Rated Power (W)	Rated Current (A)	coil resistance (Ω)±10%	Operate Voltage (VDC MAX.)	Release Voltage (VDC Min.)
12	Approx. 21 (Standard)	1.75	6.9	9.0	9.0
24		0.88	27.4	18.0	18.0
48		0.44	110.0	36.0	36.0
60		0.35	171.4	45.0	45.0
12	Approx. 24 (High Power)	2.00	6.0	9.0	9.0
24		1.00	24.0	18.0	18.0
48		0.50	96.0	36.0	36.0
60		0.40	150.0	45.0	45.0

CHDC-D500SL/SLA					
Nominal Voltage (VDC)	Rated Power (W)	Rated Current (A)	coil resistance (Ω)±10%	Operate Voltage (VDC MAX.)	Release Voltage (VDC Min.)
12	Approx. 24	2.00	6.0	9.0	9.0
24		1.00	24.0	18.0	18.0
48		0.50	96.0	36.0	36.0
60		0.40	150.0	45.0	45.0

CHARACTERISTICS

Operate voltage	75% of nominal voltage or less	
Release voltage	75% 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	2 MΩ Min. (at 500 VDC)	
Dielectric strength	Between coil and contacts	1,000 VAC, 50/60 Hz (1 Min)
	Between open contacts	1,000 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°C (without icing or condensation)	
Storage ambient temperature	Operating: -40~+75°C (without icing or condensation)	
Ambient humidity	5% to 95%Rh at 20°C	
Mounting Type	Screw installation (M10)	
Protection grade	IP00	
Pollution degree (94V-0 Flammability Ratings)	III(Case)	
Weight	478g	

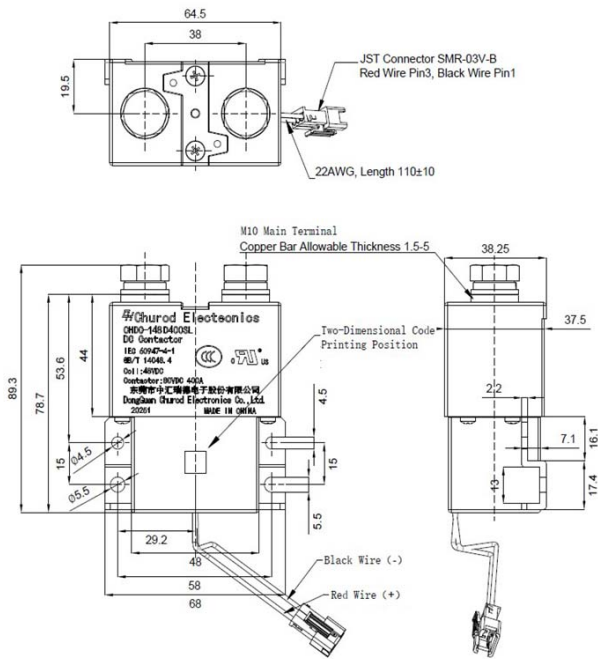
The CHDC-D400SL/SLA series ORDERING INFORMATION

	CHDC	-1	48	D400	S	L	A	G	000
1.Product Family									
2. Number of Poles									
1 pole (Bridge type)									
3. Rated Coil Voltage									
12,24,48, 60VDC									
4.Rated Current									
D400: DC 400A									
5. Terminal Type									
S :Screw Terminal									
6.Relay Tyep:									
L: Latching									
7.Auxiliary Switch:									
A: With The Auxiliary; Blank: With No The Auxiliary									
8.Coil Power:									
Blank indicates standard series,coil power 21W; The letter G indicates high power series, coil power 24W.									
9.Additional numbers and /or letters:									
000~999, AAA~ZZZ or or blank, which does not represent electrical changes, only for specific customer requirements									

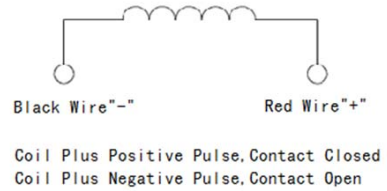
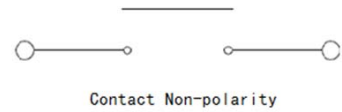
The CHDC-D500SL/SLA series ORDERING INFORMATION

	CHDC	-1	48	D500	S	L	A		000
1.Product Family									
2. Number of Poles									
1 pole (Bridge type)									
3. Rated Coil Voltage									
12,24,48, 60VDC									
4.Rated Current									
D500: DC 500A									
5. Terminal Type									
S :Screw Terminal									
6.Relay Tyep:									
L: Latching									
7.Auxiliary Switch:									
A: With The Auxiliary; Blank: With No The Auxiliary									
8.Additional numbers and /or letters:									
000~999, AAA~ZZZ or or blank, which does not represent electrical changes, only for specific customer requirements									

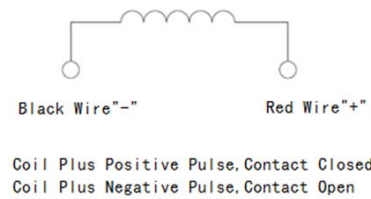
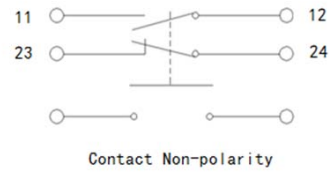
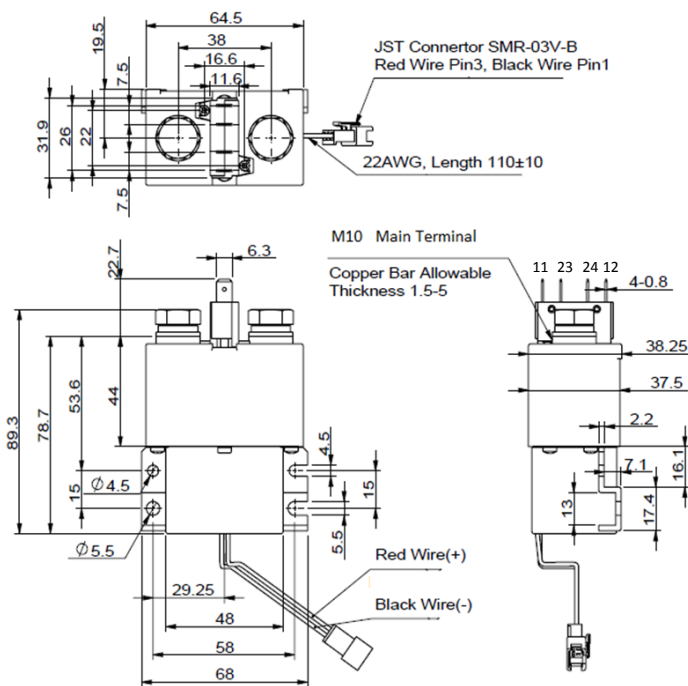
OUTLINE DIMENSION



WIRING DIAGRAMS(BOTTOM VIEWS)



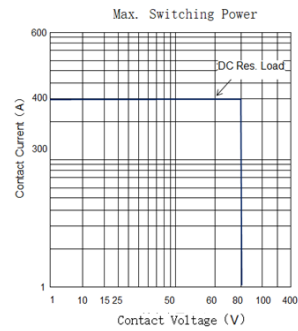
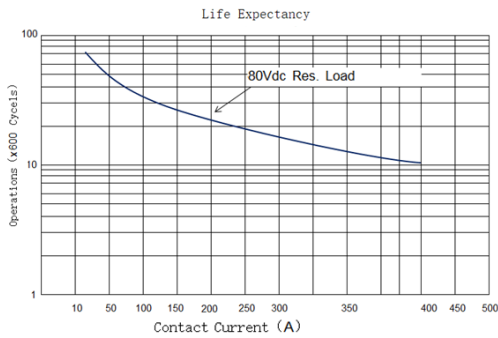
OUTLINE DIMENSION



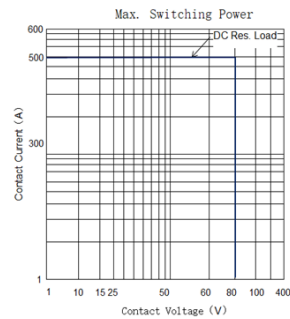
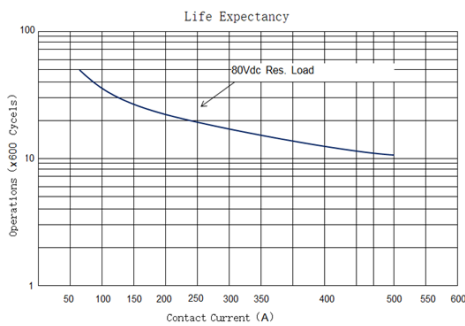
Remark:

- 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 $\pm 0.5\text{mm}$.

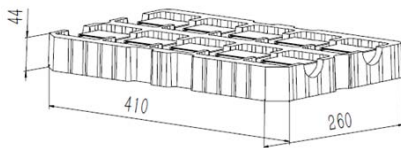
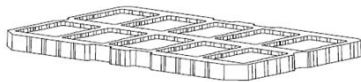
CHDR-D400SL/SLA Series Reference Data



CHDR-D500SL/SLA Series Reference Data



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 ~ 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 coil cannot be energized for a long time. The allowable pulse width is 0.2~1sec..

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.