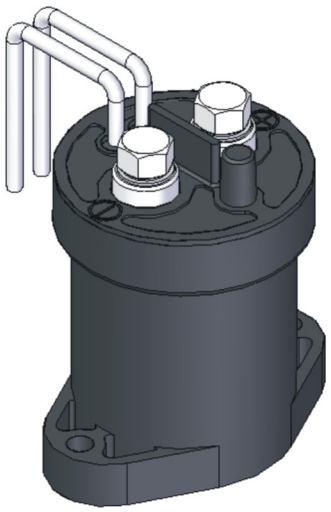
DONGYA

DH100 Series High Voltage DC Contactor

- The design conforms to CCC safety requirement, stable and reliable performance, high contact pressure between the contact, can reach 8KV;
- Small volume, light weight, seal structure for the main contact,working under inert gas protection, high breaking capacity,with no flash, can work continuously in the hostile environments;
- Low coil power consumption, just 7W,effectively reduce the control loss, especially beneficial to be used in battery-powered occasions, extend the life of battery;
- Flexible installation method and various coil voltage for selection, meet the practical demands maximumly;
- With fast and safe connection mode, remarkably improve the installation efficiency and reliability;
- All series products get CCC certificate and comply with RoHS.



Parameters	Unit	Value
Main contact type	/	1NO(SPST-NO-DM)
Rated operating current	A	100
Rated operating voltage	V(DC)	450
Rated breaking voltage	V(DC)	12-900
Max.switching current	A	1000(400VDC)
Electric life(main contact)	Cycle	Refer to curve in next page
Mechanical life	Cycle	300,000
Contact voltage drop(100A)	mv	80
Pick-up time (including bounce time)	ms	25
Contact bounce time	ms	6
Release time	ms	10
Insulation resistance(500VDC)	MΩ	100
Dielectric strength (50/60Hz,1min.)	V	2200VAC(Main contact)
Vibration (Sinusoidal)	Hz	80-2000
Shock (11ms,1/2sine,peak,operating)	g	20
Operating ambient temp.	℃	-40-+85
Weight	Kg	0. 22

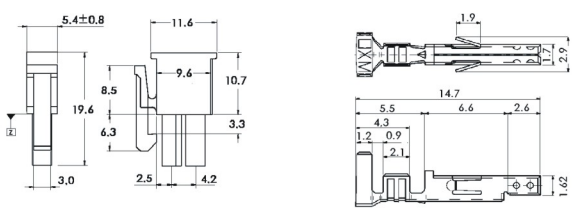
1.The key feature of the end of electrical life is that the main contact insulation resistance does not meet the requirements;
2.No rule of the product installation direction , can be installed arbitrarily ;
3.When the product air-leaking or breaking fault current , please replace it immediately;

Coil Parameters			
Coil operating voltage	12VDC	24VDC	48VDC
Coil operating voltage range	85%-110%*Ue		
Release voltage range	5%-30%*Ue		
Holding current	0. 5A	0. 3A	0. 15A

Part Numbering System DH 100 C 12 A N A

- DH: Seal type high voltage DC contactor
- Rated operating current:100A
- Contact form
  A:Main contact N.O.(stud type)
  C:Main contact N.O.(Screw type)
- Coil voltage
  12V,24V,48V
- Coil Wire Length
  A:390mm; B:150mm
- Terminal type
  N:None; M: Molex terminal
- Install method
  A:Horizontal; H:Crosswise

Terminal outline dimensions and specifications



1. The standard wire terminal type:
   Molex: 39-00-0059
   39-01-2020
   (Recommended terminal type:
   Molex: 39-00-0040
   39-01-2021
2. If you have other special requirements of the terminals, please contact the factory or local office;

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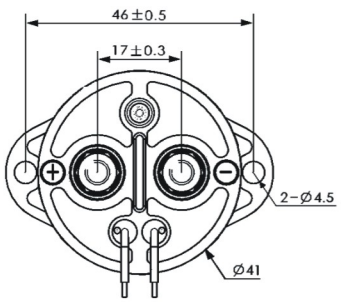
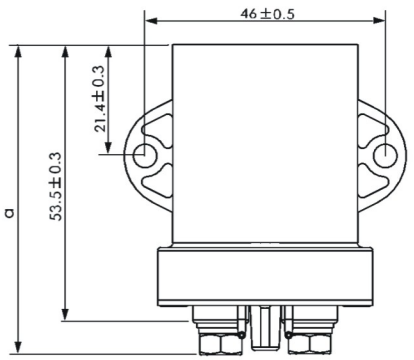
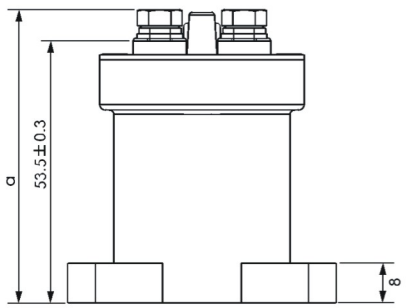
■ Outline dimensions

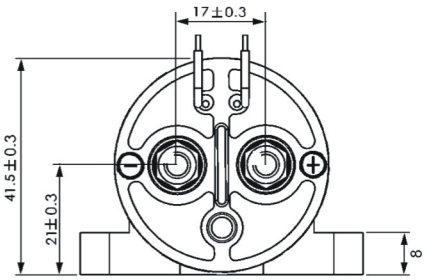




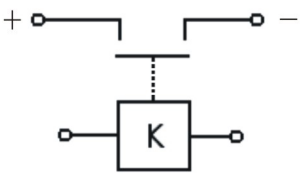
Outline dimensions	a
DH100A	63. 3±0. 5
DH100C	60±0. 5

1.The coil lead-out wire length is 390mm or 150mm;
2.Factory will install the main contact M5 nut or countersunk bolts on the product directly,fixed screws should be prepared by customers themselves.
3.The torque for the fixed nuts (M5):3.5~4.5N.m; Recommended M4 nuts for the installing, recommended torque is 1.7~2.3N.m;
4.If you have other special requirements for the accessories, please contact the factory or local office;

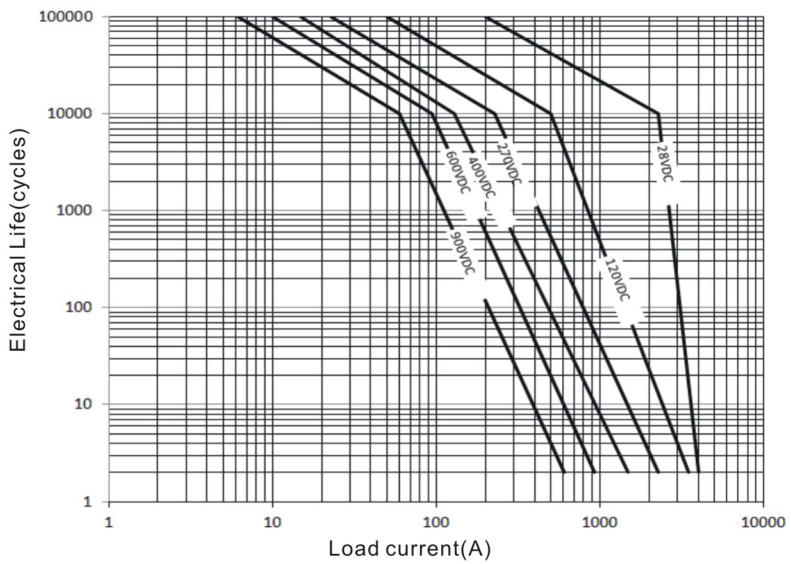




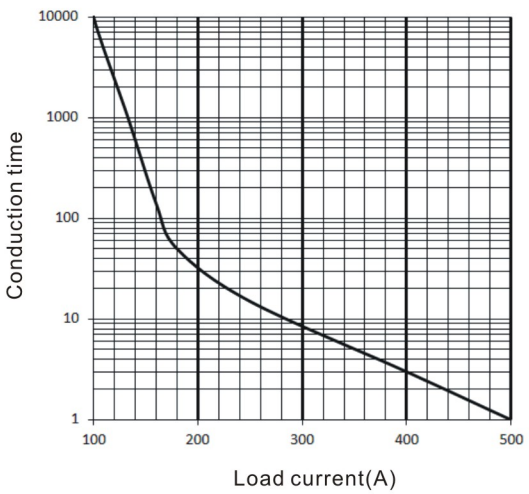
Circuit Diagram



■ Estimated Make & Break Power Switching Ratings



■ Conduction time & Load current curve



1. The rated electrical life is based on resistance load test. The load max inductance≤300μH; If used with inductive load, please do contact the factory first.
2. The above curve is drawn according to the test and infers data, we suggest users confirm in practical use.
3. When the product's dielectric withstand voltage、insulation resistance is less than the product parameters in the table, the product is defined as a life to an end.
4. The max. pick-up current is 300A to avoid contact cold welding.

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