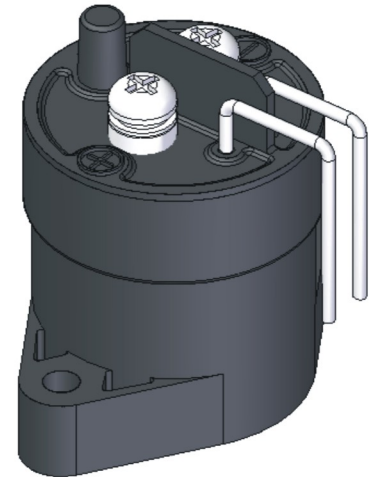


- The design conforms to CCC safety requirement, main contact is with 50A switching with load capacity & max. switching voltage 900VDC;
- Small volume, light weight, seal structure for the main contact, working under inert gas protection, high breaking capacity, with no flash, can work continuously in the hostile environments;
- Low coil power consumption, just 4W, 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	50
Rated operating voltage	V (DC)	450
Rated breaking voltage	V (DC)	12-900
Max. switching current	A	250 (400VDC)
Electric life (main contact)	Cycle	Refer to curve in next page
Mechanical life	Cycle	300,000
Contact voltage drop (50A)	mv	80
Pick-up time (including bounce time)	ms	20
Contact bounce time	ms	4
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.	°C	-40-+85
Weight	Kg	0.13

Coil Parameters			
Coil operating voltage	12VDC	24VDC	48VDC
Coil operating voltage range	85%-110%*Ue		
Release voltage range	5%-30%*Ue		
Holding current	0.32A	0.17A	0.08A

### Part Numbering System

DH 50 C 12 A N A

DH: Seal type high voltage DC contactor

Rated operating current: 50A

Contact form  
C: Main contact normal open (Screw type)

Coil voltage  
12V, 24V, 48V

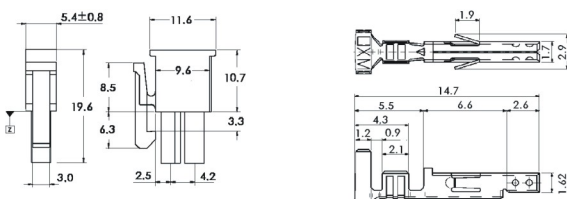
Coil Wire Length  
A: 390mm; B: 150mm

Terminal type  
N: None; M: Molex terminal

Install method  
A: Horizontal

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;

### Terminal outline dimensions and specifications

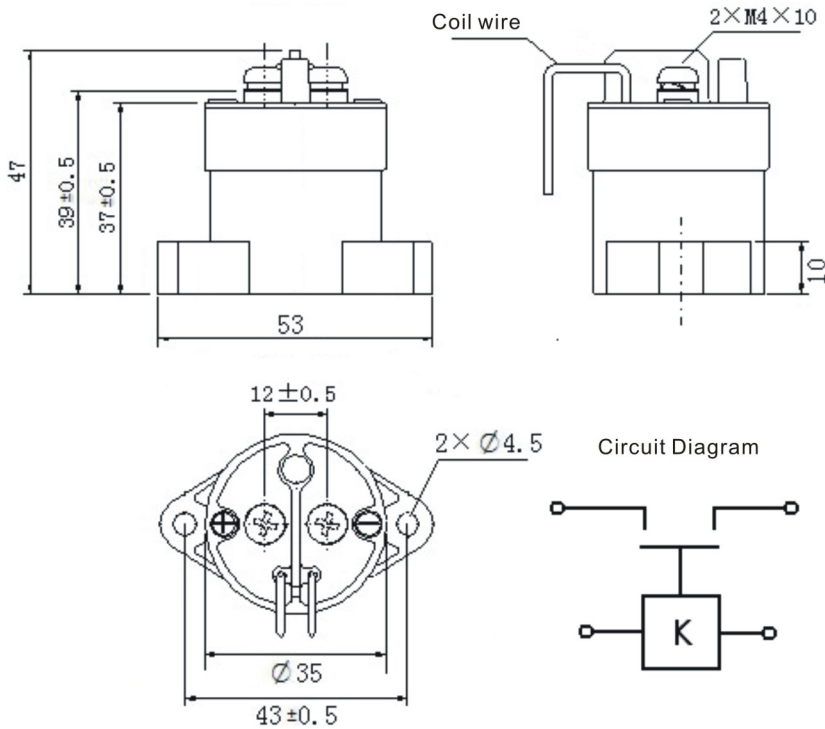


1. The standard wire terminal type:  
Molex: 39-00-0059  
39-01-2020

(Recommended terminal type:  
Molex: 39-00-0040  
39-01-2021

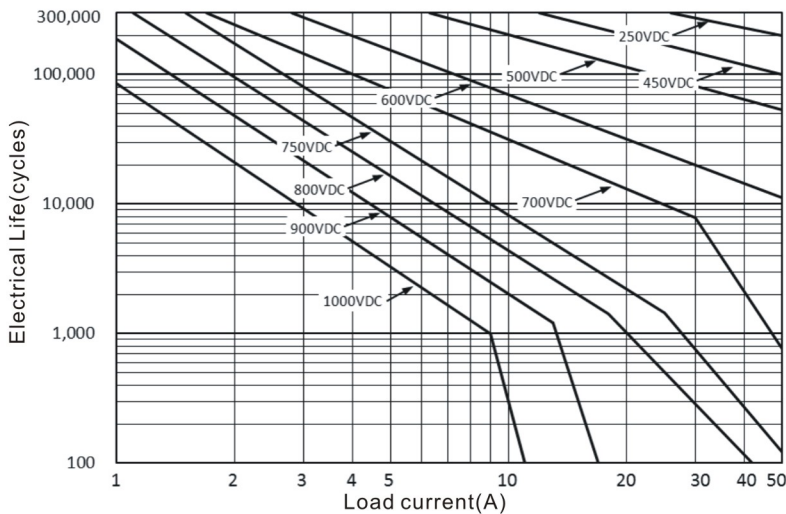
2. If you have other special requirements of the terminals, please contact the factory or local office;

### ■ Outline dimensions

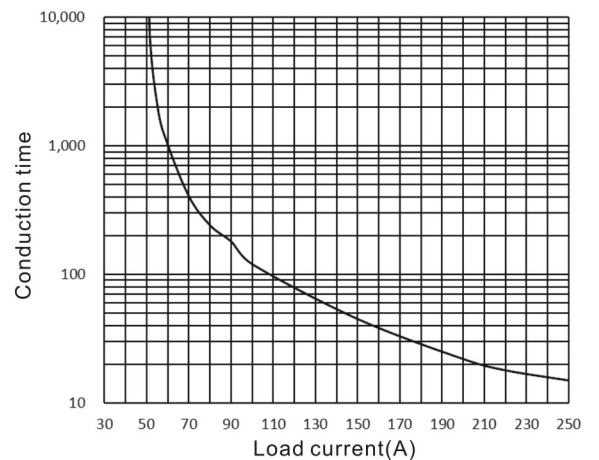


1. The coil lead-out wire length is 390mm or 150mm;
2. Factory will install the main contact M4 countersunk bolts on the product directly, fixed screws should be prepared by customers themselves.
3. The torque for the fixed nuts (M4): 1.2~3N.m; Recommended M4 nuts for the installing, recommended torque is 1.7~2.3N.m;
4. If you have other special requirements for the accessories, please contact the factory or local office;

### ■ 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  $\leq 300 \mu H$ ; 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 250A to avoid contact cold welding.