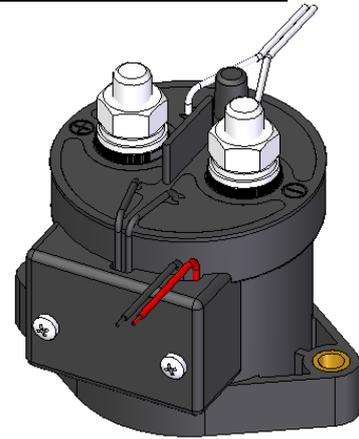


■ FEATURE

- 200A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts& a set of N.O. aux contact, contact circuit has "+", "-" polarity;
- Coil power is very low, coil maintain power Max 1.8W;
- Application: Telecom equipment、Solar system、 Engineering machinery、 Electromobile、 Electric vehicle、 Charging system、 Train、 Ships、 UPS etc.;
- Safety Approvals: UL、 CCC
- Comply with the ROHS



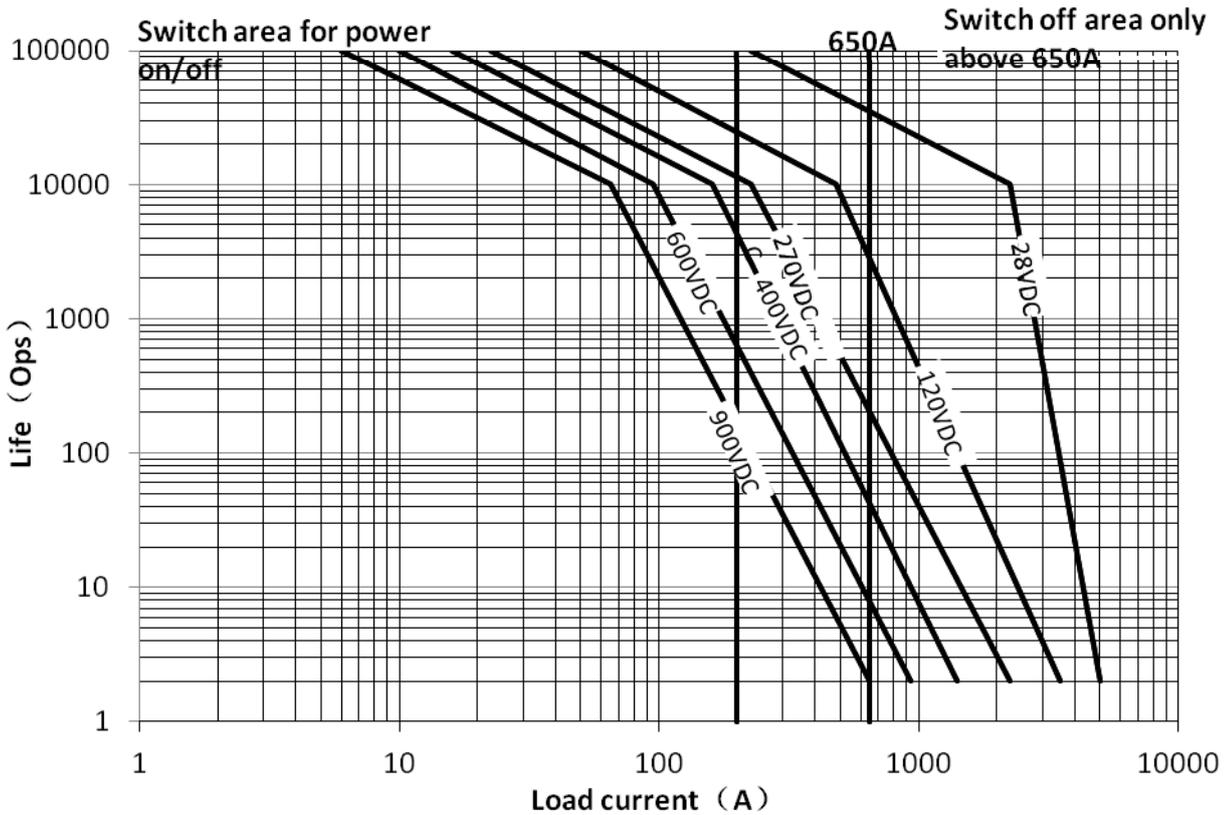
■ SPECIFICATION

Product No.	DH200
Contact type	1H(SPST-NO)
Rated load current of contact(Resistive load)	200A (DC-1)
The max switch current	2000A(320VDC) 1time
Contact voltage drop	≤80mV@200A
Switching voltage	12~900V DC
Standard pick-up time	Max. 30ms.
Contact bounce time	Max. 5ms.
Release time	Max. 10ms.
Vibration (Sinusoid、 80~2000HZ、 peak)	(80~2000)HZ, ≤20g
Shock (11ms,1/2 Sinusoid、 peak、 pick-up)	≤20g
Operating ambient temperature	-40℃~+85℃
Relative humidity	20%~90% RH
Insulation resistance	Min. 100MΩ @ 500VDC
Dielectric strength (Between Insulated Electric Parts)	2200VAC 50 Hz/60 Hz (1 minute) 1000VAC 50Hz/60Hz (1 minute) (between aux contacts) Leak current<1mA
Electrical life	Please refer to diagram of resistance load life
Mechanical life	300,000 times
Aux. contact type	1NO
Rated load of aux. contact	2A/24V
Min. load of aux. contact	100mA/8V
Mounted direction	Any direction
Pollution level	III
Working duty	Continuous
Weight	0.45kg

■ Resistive load life at different voltages

P/N	Coil voltage (V)	Coil operating voltage (V)	Pick-up voltage (V)	Release voltage (V)	Sarting current (A)	Maintain current (A)
DH200	9~36	9~36	8~9	5.5~7	3.8	0.18@12V 0.09@24V

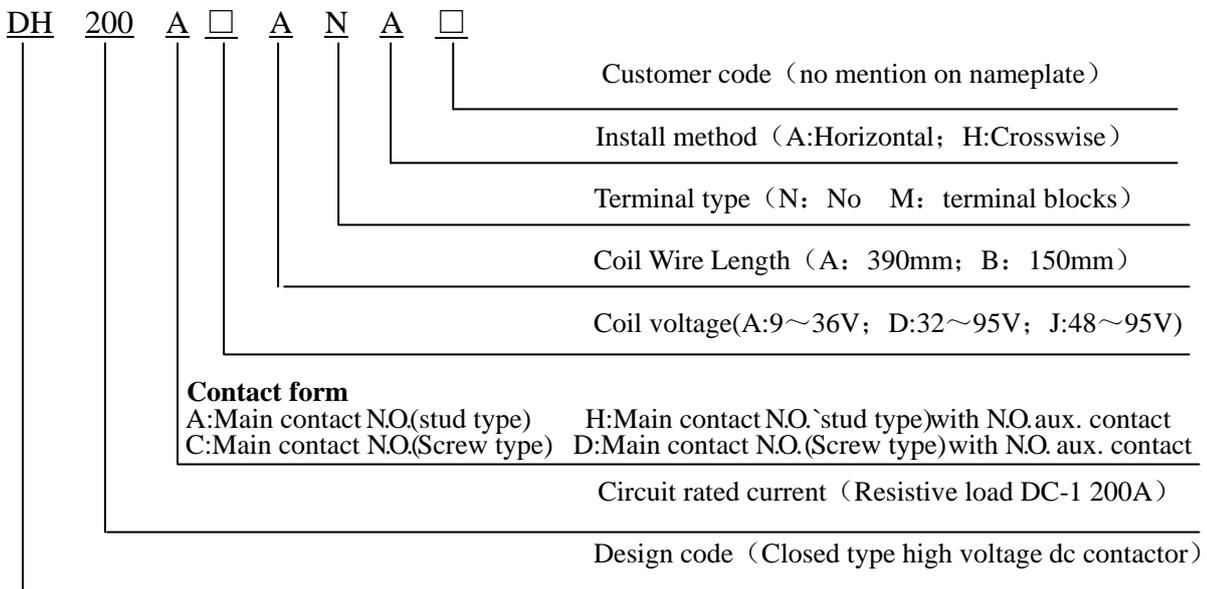
■ Resistive load life at different voltages



Remarks

- 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 infer data. 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、 Product max pick-up current is 650A to avoid contact cold welding.

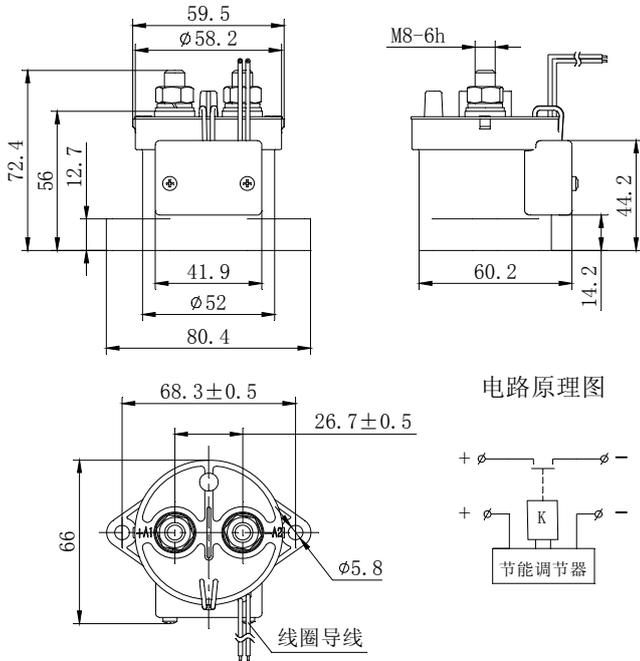
■ PRODUCT MODEL DEFINE



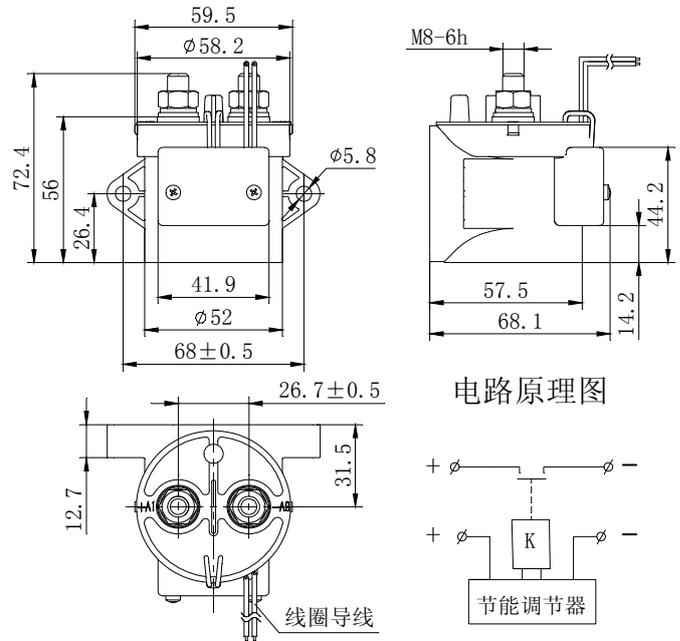
For example:DH200AAANA means: Sealed type high voltage dc contactor. Rated current is 200A at DC-1 load, main contact N.O.(stud type),without aux. contact, coil voltage is DC 9~36V,coil wire length is 390mm,horizontal installation.

■ Outline mounting dimension and circuit diagram

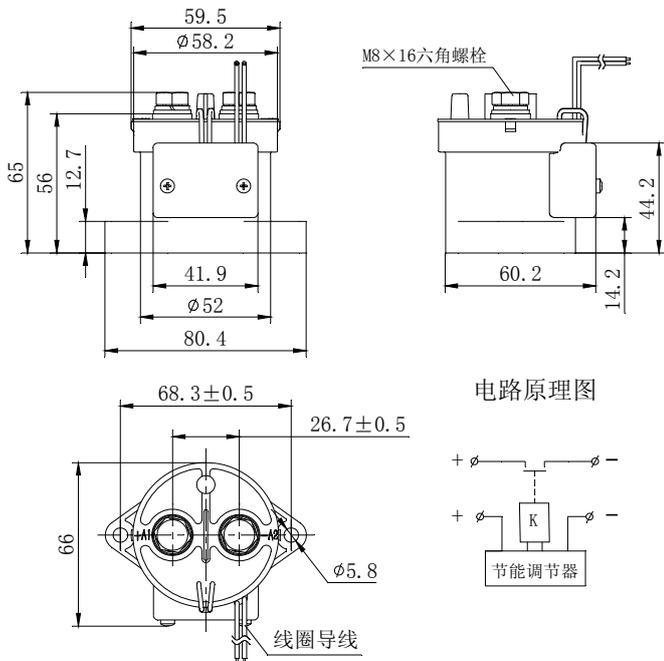
1、DH200A□□NA



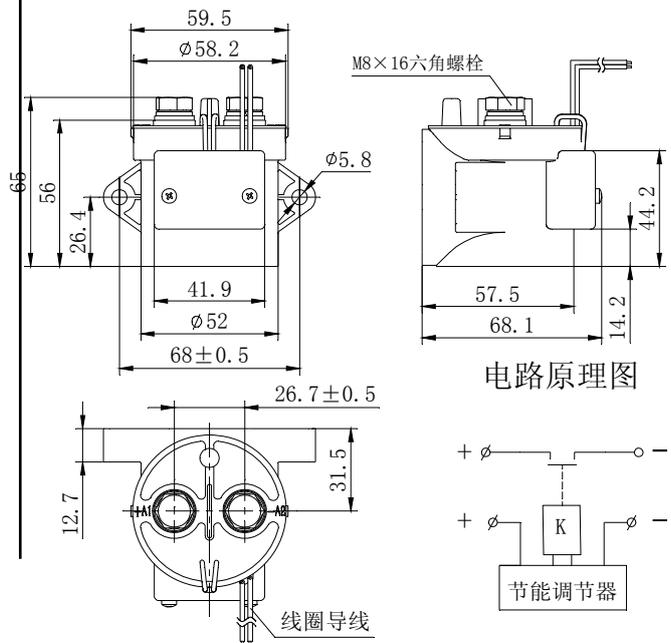
2、DH200A□□NH



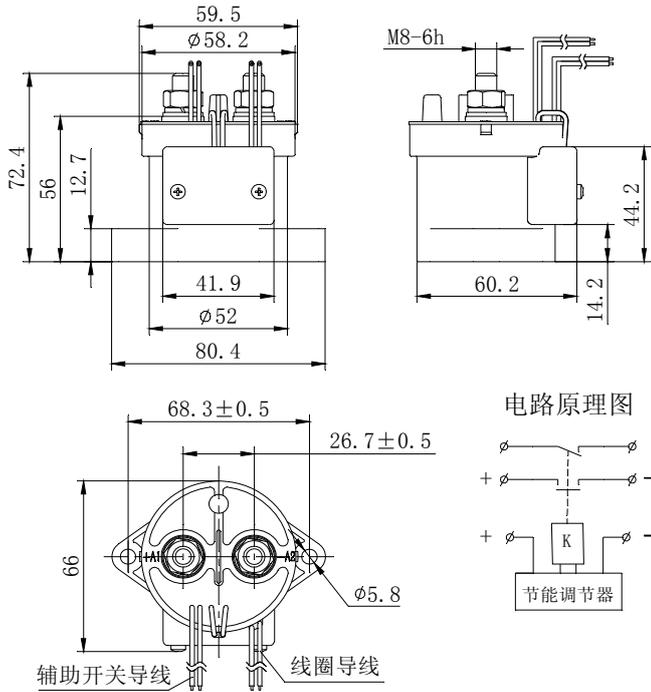
3、DH200C□□NA



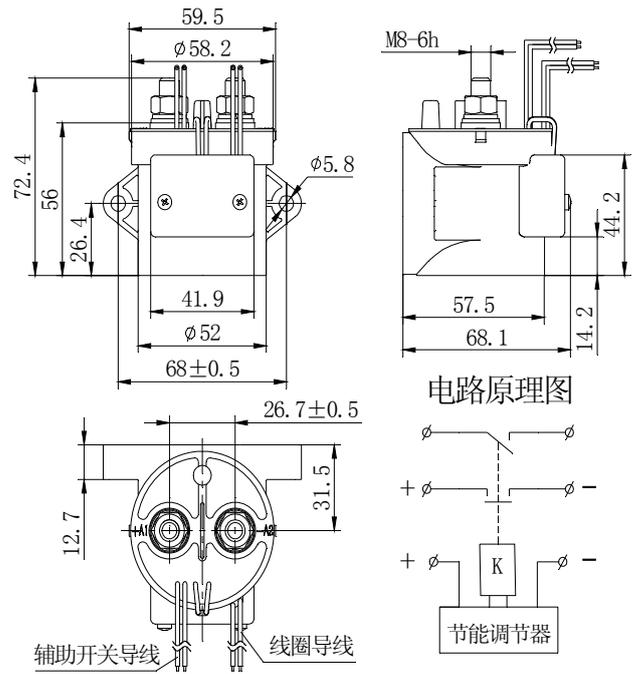
4、DH200C□□NH



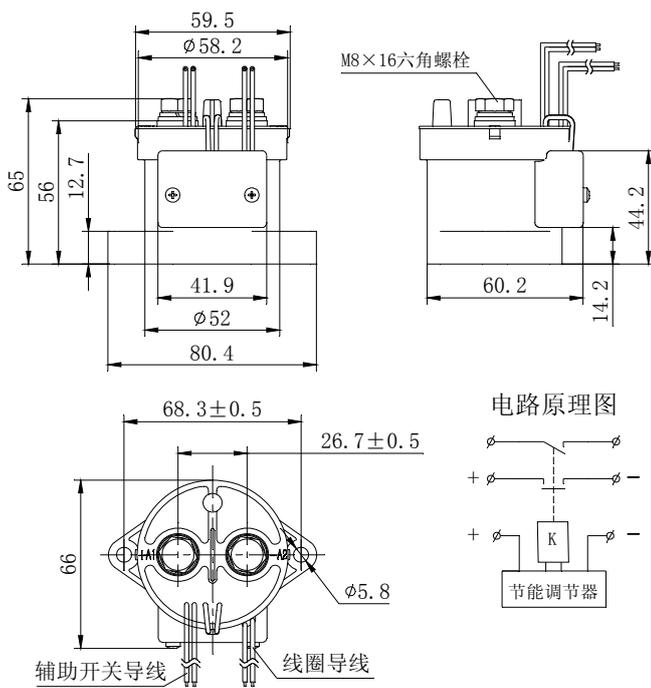
5、DH200H□□NA



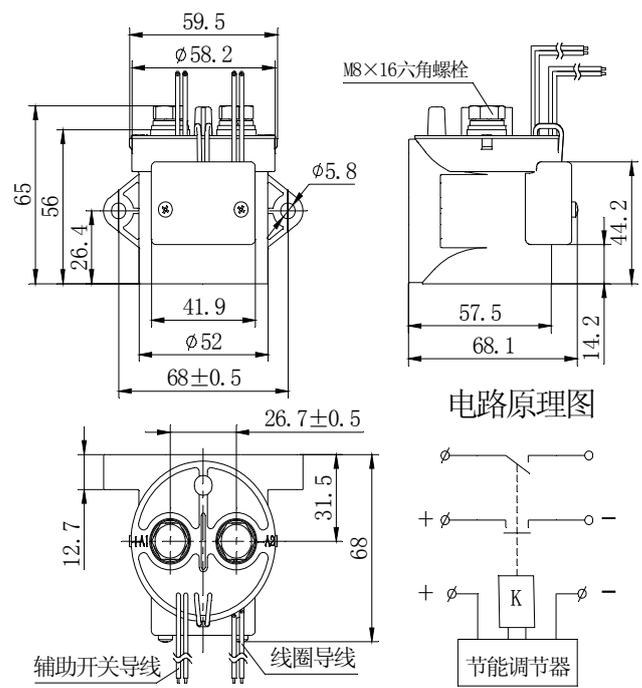
6、DH200H□□NH



7、DH200D□□NA



8、DH200D□□NH



Dimension (mm)	Tolerance grade not noted (mm)
0~30	±0.3
30~60	±0.5
60~100	±1
Above 100	±2

Remarks:

- 1、The outline mounting dimensions of products are same whether with or without aux. contact;
- 2、Both coil and main contact are polarized; The lead-out wire of coil, please connect red wire to“+” polarity& black wire to“-” polarity; Connect “+” polarity to the main contact terminal with “+” mark, and connect “-” polarity to the main contact terminal with “-” mark.

■ Accessory

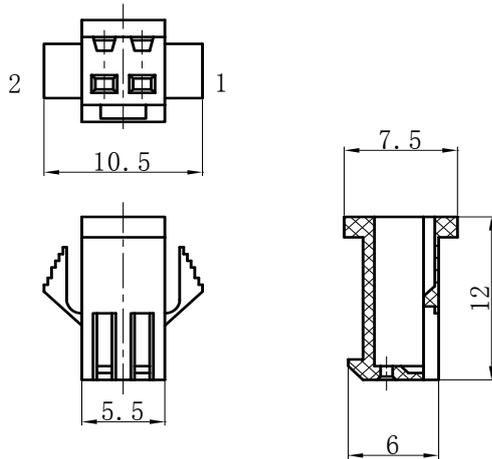
DH200series product with terminal part no is: DH200□□□M□□,the additional code means terminal type

Additional code: M4

Terminal type: SM-2Y-HW

Terminal type: SMA-HW

Terminal dimension figure:



Fitted socket type: SM-2A-HW

Fitted terminal type: SMY-HW

The connector's two pinhole corresponding relationship with the coil lead-out wire:

- 1: Coil lead-out wire “+” terminal, red wire;
- 2: Coil lead-out wire “-” terminal, black wire.

INSTRUCTIONS

- 1、 Do use washer when installing the contactor in case the screw fall off. Refer to the following specified range of tighten screw torque, the products may be broken if exceed beyond the maximum torque:
The torque of contact (M8 nut): 8~10N.m
The torque of installing: 1.7~3.5 N.m
- 2、 The coil is polarized, it should be wired according to the product mark; The contact points are also polarized; it should be also wired according to the product mark. There is a reverse surge absorbing circuit in the energized board, so there is no need to use surge protector any more. We suggest installing a piezoresistor as a surge protector in the contactor which without energized board. However, please avoid using diode, because it will reduce the contactor's switching capacity.
- 3、 Do not use the product which have been dropped off.
- 4、 Avoid to install the products in strong magnetic field (near the transformer or magnet), or close to the thermal radiation of the objects.
- 5、 Electrical life
This contactor is a kind of high-voltage DC switch; it might be lost the function of cutting off in its final breakdown mode. Therefore, do not use in the condition of exceeding its' switching capacity and life parameters (please treat it as a product with a specified life and need to be replaced if necessary). Once the contactor loose the function of disconnect and cutting, it could cause the burning of surrounding parts, so it should have a good design of circuit diagram, ensure the power supply can be cut off in 1 second.
- 6、 The diffusion life of internal gases
This contactor designed with gas-tight silo contact point, there is gas in the silo, the diffusion life of gas is decided by the silo temperature(that is Environment Temperature + Temperature rising of the contact electrical), therefore, please make sure the environment temperature should be between -40°C and $+85^{\circ}\text{C}$.
- 7、 If the contactor's coil and contact point is energized continuously with rated voltage (or current),the power is cut off and turned on immediately, at this time due to the coil temperature increases, the resistance of the coil will increase too, so as to cause the pick-up voltage increased, it may cause beyond the rated pick-up voltage , in this case, please take following measures, such as: Reduce the load current, limited duration electricity or Use the higher coil voltage than the rated pick-up voltage.
- 8、 The main contact rated parameters is available at resistance load, if use inductive load (L load) and at the same time the $L/R > 1 \text{ ms}$, it should be paralleled a surge current protection device for the inductive load.
- 9、 Product coil drive circuit of power must be larger than the product coil power, otherwise it will reduce the product's cutting ability.
- 10、 Be careful not to let the debris or oil pollute the main terminal, and the lead-out wire terminal should be reliable contact with the main terminal, or the terminal would be highly heated. At the same time, the lead wire which connected to the product must achieve its conductive capability, to prevent overheating and impact the electrical life. (The wire sectional area of connecting main contact should be more than 95mm^2).
- 11、 After connect the contactor, the coil will start to switch automatically after around 0.1 second.
The operating frequency should not be more than 6 times/min, otherwise it maybe damages the contactor.