HIGH VOLTAGE DC CONTACTOR

Product catalog





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母 0086-577-62815722

Https://en.cndongya.com

Dongya specializes in designing, manufacturing and selling High & Low Voltage DC Contactor, Shunt and Hydraulic Circuit Breaker.



About Dongya



Choosing Dongya

- Short L/T
- Quick response
- Product customization service available
- All RoHS material

Product Range & Applications

- Low voltage DC Contactor: 50A~3000A/12VDC~220VDC
- High voltage DC Contactor: 20A~400A/450VDC~1200VDC
- DC Shunt: 1A~12000A/20mV~1000mV
- Hydraulic Circuit Breaker: DC: 0.5A~400A/80V~220V

AC: 0.5A~100A/220V~480V

For an overview of our products, please refer to our product catalogue datasheets, both are available to download from our website https://en.cndongya.com/

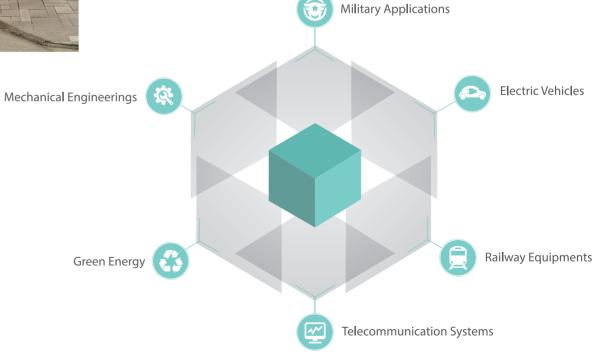
Our complete range of products are available for use in a wide variety of applications, which include:

About Dongya

Dongya was founded in Y1984. We specialize in designing, manufacturing and selling High & Low Voltage DC Contactor, Shunt and Hydraulic Circuit Breaker.

We rely on the expertise gained through many years of experience and a desire to produce pioneering products that meet customer demand. Our products are widely used in Telecommunications, EVs, Mechanical Engineerings, Power Distributions, etc.

We aim to provide world class quality products and services to each of our valued customer.



Dongya Strength

Engineering Process

To support our innovative approach and remain at the forefront of industry technology, Dongya has maintained its investment in the latest 3D CAD and Solidwork systems as well as developing further progressive production techniques and introducing advanced manufacturing systems. We can quickly provide our customers with 3 dimensional data and/or physical samples from our rapid prototyping facilities which enables concepts to be incorporated into their designs for easy visualisation and assessment.

Our approach to customers and their requirements has always been to provide a complete solution. Should our customer require a product developed for a particular application, depending on overall requirements and volume, Dongya can engineer specific designs for customers. These can be a distinct variation of an existing product, or a complete new product range.

Technical Support

Dongya provides a unique service to customers with the provision of our Technical Support teams. Our teams are available to offer advice to assist in choosing the correct product for your application, help resolve problems and to answer any queries which you may have before, during or after your purchase.

Offering our Technical Support to existing and potential customers from the outset ensures the correct product selection is made and assists in preventing issues. Our support service provides vital assistance to our customers who benefit by knowing they have bought the right product to the correct specification for their application.





Standard & Accreditation

Quality and the Environment are key concerns at Dongya. We are accredited with:

IATF 16949:2016 (Quality Management System)
ISO 9001:2015 (Quality Management System)
ISO14001:2015 (Environmental Management System)
OHSAS18001:2007 (Occupational Health and Safety Management System)

Further more, to aid customers, selected products have 3rd party Certification/Recognition, as follows:

Underwriters laboratories:

- UL583 Industrial Truck Accessories, Battery Powered-Component/ AU5128
- UL508 Switches, Industrial Control Component/ E145623
- UL1801 Power Distribution Centers for Communications Equipment Component/E346304
- UL489 Molded-Case Circuit Breakers/ E358988
- UL489A Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures/ E361056
- UL1077 Supplementary Protectors for Use in Electrical Equipment/ E357198

European Directive EN60947-4-1& EN60947-5-1

• CE • TUV

Chinese Standard(GB14048.4(IEC60947-4-1):

• Chinese Compulsory Certification - CCC



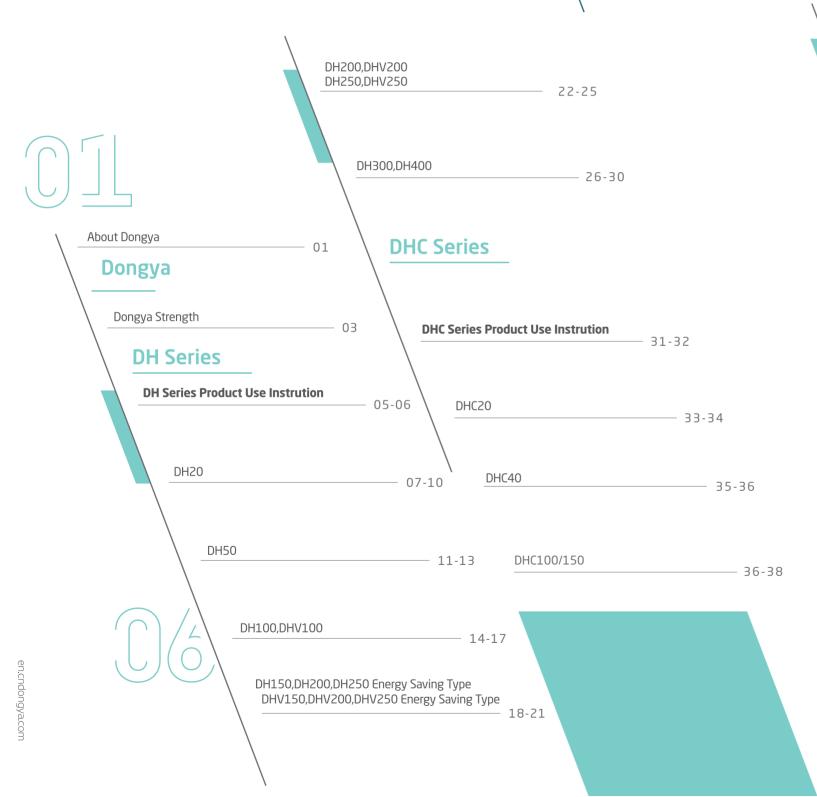








PRODUCT CONTENTS





DH SERIES Product Instruction Vibration(Sinusoid、80 ~ 2000HZ、peak) $(10~500)HZ, \leq 5g$ Shock(11ms,1/2 Sinusoid, peak, pick-up) ≤20g -40 °C ~+85 °C Operating ambient temperature Relative humidity 20%~90% RH Insulation resistance Min. 100MΩ @ 500VDC Dielectric strength 2200VAC 50 Hz/60 Hz (1 minute) (Between Insulated Electric Parts) 1000VAC 50Hz/60Hz (1 minute) (between aux contacts) Mounted direction Any direction Pollution level \prod Working duty Uninterrupted

DH Series Product Use 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:

(M4 countersunk bolts):1N.m~1.5N.m;

(M5 Nut):3.5N.m~4.5N.m

(M5 countersunk bolts):8N.m~10N.m;

(M8 Nut):8N.m~10N.m.

The tor que of installing:

M4 countersunk bolts:2.3N.m max;

M5 countersunk bolts:3.5N.m max;

2. DH polarity series' both coil and main contact are polarized; Please connect coil red wire to "+" polarity& coil black wire to "-" polarity; Connect "+" polarity to the main contact terminal with "A1+" mark, and connect "-" polarity to the main contact terminal with "A2-" mark.

DHV non-polarity series, only coil are polarized, please connect coil red wire to "+" polarity& coil black wire to "-" polarity; While the contact circuit are non-polar and marked "A1","A2" beside the main terminal.

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 endurance

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°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 Nominal 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 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 Rated 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 endurance.

11. The rated Electrical endurance is based on resistance load test. The load max inductance ≤ 300 µH; If used with inductive load, please do contact the factory first.

DH20



Feature

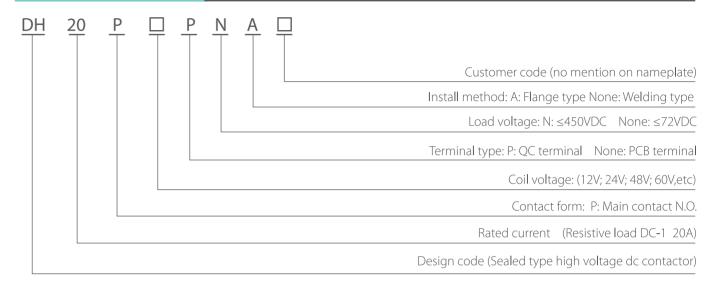
- 20A Contact switch capacity, Small volume
- A set of bridge type N.O.contacts;
 contact circuit has "+", "-" polarity
- Application: New energy vehicles pre-charge

		Performance Data		
Product No.	DH20			
Contact arrangement	1H(SPST-NO)			
Rated load current of contact(At resistive load)	20A(DC-1)			
Load type	450V type	60V type		
Max switching voltage	450V DC	72 V DC		
Max breaking current	35A(450VDC, > 1 cycle)	30A(72VDC, > 1 cycle)		
Max switching power	9kW	1.44kW		
	Switch: 1×10⁴ ops	Switch: 1×105 ops		
Electrical endurance (At resistive load)	(450VDC,20A)	(72VDC,20A)		
	Switch: 5×10 ⁴ ops	Connect: 1×105 ops		
	(450VDC,10A)	(450VDC,20A)		
Contact resistance	≤10mΩ(20A)			
Pick-up time(At rated voltage)	Max. 20ms.			
Drop-out time (At rated voltage)	Max. 7ms.			
Dialo atria atrono ath	Between contacts& coil	3000VAC 50 Hz/60 Hz (1 minute)		
Dielectric strength	Between open contacts	2000VAC 50 Hz/60 Hz (1 minute)		
Current carrying capacity	20A: Uninterrupted / 30A	A: 1h / 40A: 20min		
сапсиссануні д сарасісу	80A: 30s / 120A: 0.6s / 200A: 0.6s			
Mechanical endurance	300,000 ops			

Coil Data

Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Maintain current (A)	Rated power (W)
	12		≤9	≥1	≤0.3	
DH20	24	0.85US-1.1US	≤18	≥2	≤0.15	2.5 - 3.5W
21120	48	0.0303 1.103	≤36	≥4	≤0.1	2.3 3.3 **
	60		≤45	≥5	≤0.06	

Part Numbering System

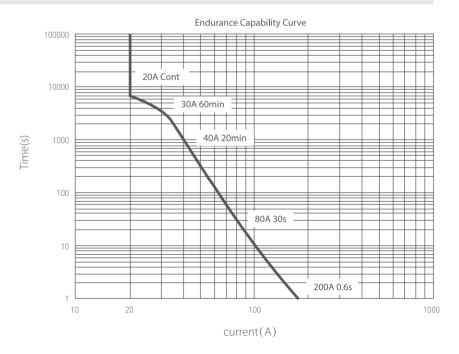


For example:DH20P12PNA means: Sealed type high voltage dc contactor, rated current is 20A with DC-1 load, main contact N.O., Nominal coil voltage is 12VDC, QC terminal(strip type), load voltage≤450VDC, flange type.

Power Switching Capacity for Resistive Load

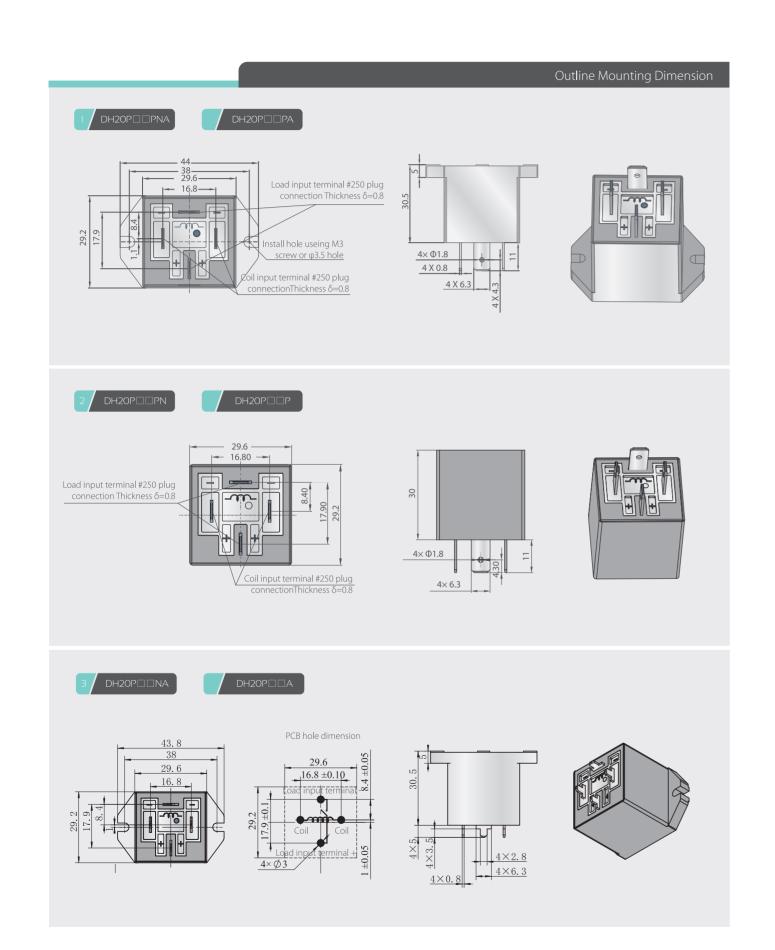
Remarks

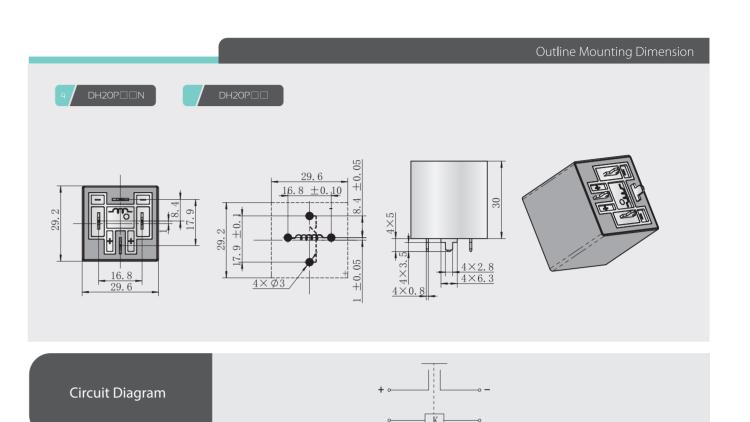
- The above data is tested at the condition of environment temperature of 85 °C and wire cross-sectional area ≥2.5mm².
- 2. The data is for reference only, please do not use for selecting fuse.



>5

 ± 0.4





1-5

±0.3

NOTE:

Dimension (mm)

Tolerance grade not

noted (mm)

 $The \ main \ contact \ are \ polarized; Connect \ "+" \ polarity \ to \ the \ QC \ terminal \ with \ "+" \ mark, and \ connect \ "-" \ polarity \ to \ the \ QC \ terminal \ with \ "-" \ mark.$

<1

 ± 0.2

DONGYA

DH50



Feature

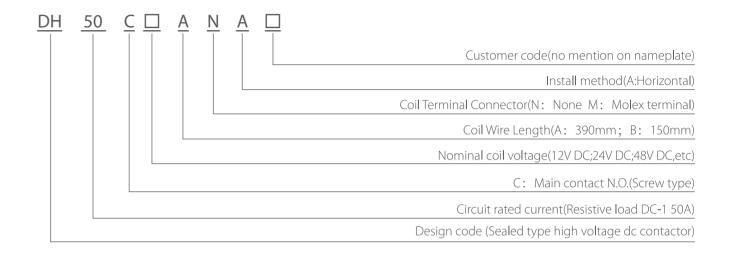
- 50A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts contact circuit has "+", "-" polarity
- The product is sealed and the contact chamber is filled with inert gas.

	Performance Data
Product No.	DH50
Contact arrangement	1H (SPST-NO)
Rated load current of contact(Resistive load)	50A (DC-1)
Max Switch current	250A (320V DC) 1 cycle
Contact voltage drop	≤80mV@50A
Switching voltage	12 ~ 900VDC
Standard pick-up time(including contact bounce)	Max. 30ms.
Contact bounce time	Max. 5ms.
Drop-out time	Max. 10ms.
Electrical endurance	Please refer to diagram of resistance load life
Mechanical endurance	300,000 ops

Coil Data

Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Maintain current (A)	Rated power (W)
	12		≥9	0.6-3.6	0.33	
DH50	24	0.85US-1.2US	≥18	1.2-7.2	0.17	3-5W
	48		≥36	2.4-14.2	0.09	

Part Numbering System

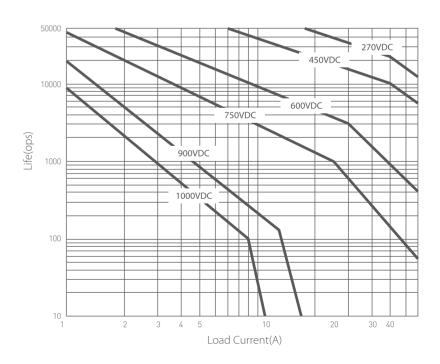


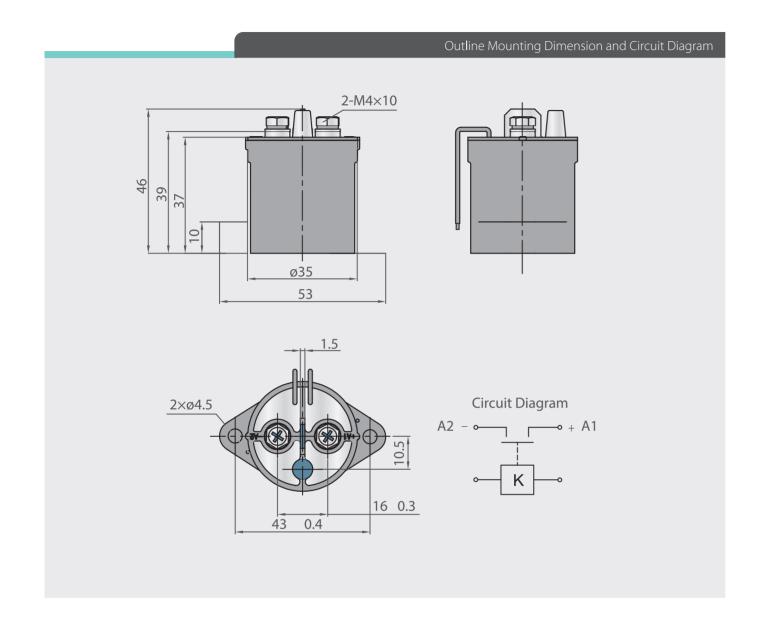
For example:DH50C12ANA means: Sealed type high voltage dc contactor. Rated current is 50A at DC-1 load, main contact N.O.(screw type), Nominal coil voltage is 12VDC,coil wire length is 390mm,horizontal installation.

Power Switching Capacity for Resistive Load

Remarks

- 1. The rated Electrical endurance 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 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.





Dimension (mm)	0-30	30-60	60-100
Tolerance grade not noted (mm)	±0.3	±0.5	±0.1

NOTE:

 $The \ main \ contact \ are \ polarized; Connect "+" polarity \ to \ the \ QC \ terminal \ with "+" mark, and \ connect "-" polarity \ to \ the \ QC \ terminal \ with "-" mark.$

DH100 DHV100



Feature

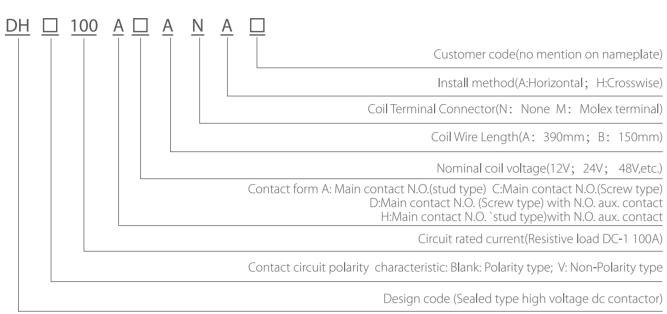
- 100A Contact switch capacity, Small volume
- This series covers both polar and non-polar series. Polar type has a set of bridge N.O. contacts, contact circuit has "+", "-" polarity.
 Non-polar type contact circuit is non-polar and can be connected in any direction.
- The product is sealed and the contact chamber is filled with inert gas.

	Performance Data
Product No.	DH100 DHV100
Contact arrangement	1H(SPST-NO)
Rated load current of contact(Resistive load)	100A(DC-1)
The max switch current	1000A(320VDC) 1cycle
Contact voltage drop	≤80mV@100A
Switching voltage	12 ∼ 900V DC
Pick-up time(including contact bounce)	Max. 30ms.
Contact bounce time	Max. 5ms.
Drop-out time	Max. 10ms.
Electrical endurance	Please refer to diagram of resistance load life
Mechanical endurance	300,000 ops
Aux. Contact arrangement	1NO
Rated load of aux. contact	2A/24V
Min. load of aux. contact	100mA/8V

Coil Data

Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Maintain current (A)	Rated power (W)
D11100	12		≤ 9	≥1	≤0.6	
DH100 DHV100	24	0.85US-1.2US	≤18	≥2	≤0.3	5-7
D111100	48		≤36	≥4	≤0.16	

Part Numbering System

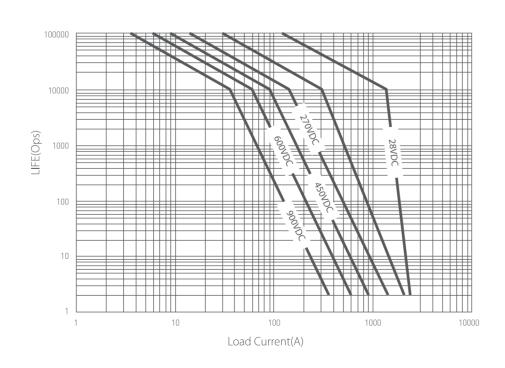


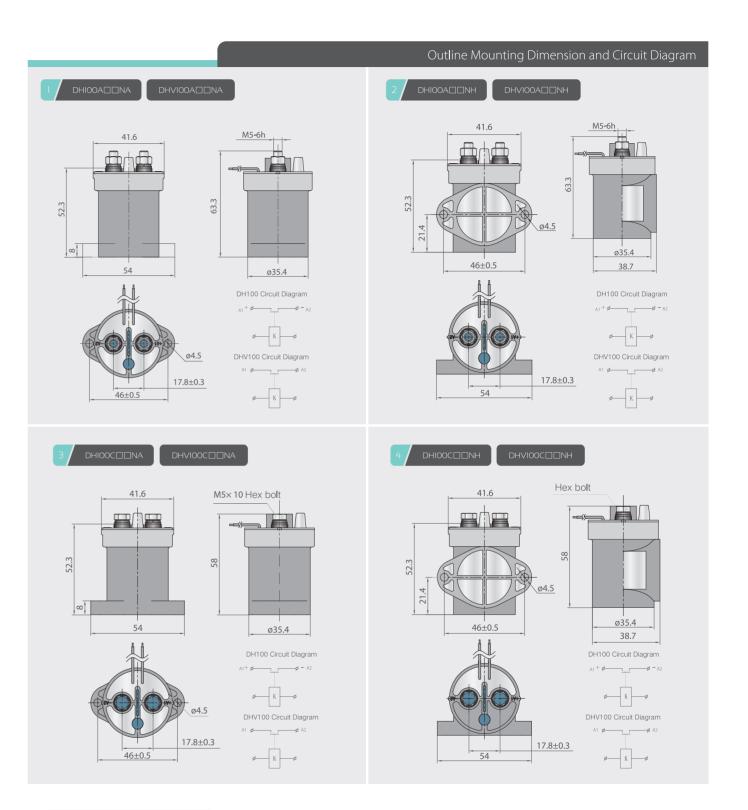
For example:DH100A12ANA means: Sealed type polarity high voltage dc contactor. Rated current is 100A with DC-1 load, main contact N.O.(stud type), Nominal coil voltage is DC12V,coil wire length is 390mm,horizontal installation.

Power Switching Capacity for Resistive Loac

Remarks

- 1. The rated Electrical endurance 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 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 300A to avoid contact cold welding.

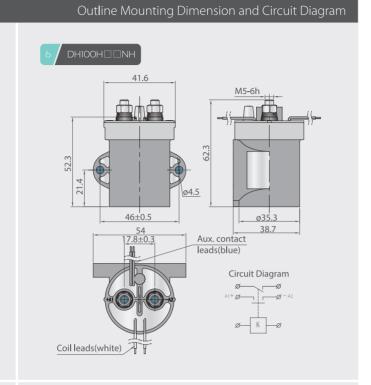


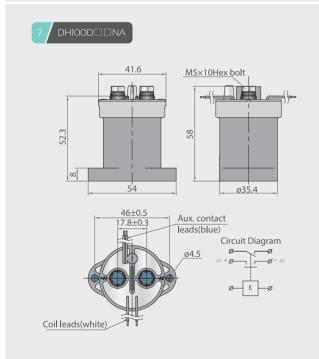


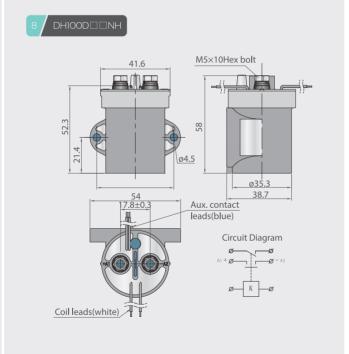
Dimension (mm)	0 ~ 30	30 ~ 60	60 ~ 100	Above 100
Tolerance grade not noted (mm)	±0.3	±0.5	±1	±2

Coil leads(white)

5 DHIOOHDINA 41.6 M5-6h R R R Aux. contact leads(blue) Circuit Diagram







NOTE:

- 1. DH100 polarity series' contact circuit are polarized; Connect "+" polarity to the main contact terminal with "A1+" mark and connect "-" polarity to the main contact terminal with "A2-" mark.
- 2. DHV100 non-polarity series' contact circuit are non-polar, and marked "A1","A2" beside the main terminal.

DH200 DHV200 DH250 DHV250



Feature

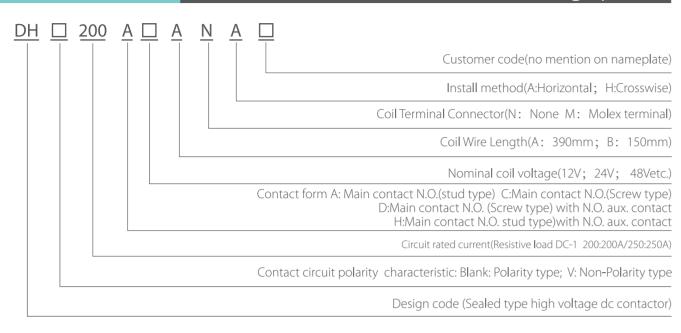
- 200A / 250A Contact switch capacity, Small volume
- This series covers both polar and non-polar series.Polar type has a set of bridge N.O. contacts, contact circuit has "+", "-" polarity.
- Non-polar type contact circuit is non-polar and can be connected in any direction.
- The product is sealed and the contact chamber is filled with inert gas.

		Performance Data		
Product No.	DH200 DHV200	DH250 DHV250		
Contact arrangement	1H(S	PST-NO)		
Rated load current of contact(Resistive load)	200A(DC-1)	250A(DC-1)		
The max switch current	2000A(32	OVDC) 1cycle		
Contact voltage drop	≤80mV@200A	≤80mV@250A		
Switching voltage	12 ~ 900V DC			
Pick-up time(including contact bounce)	Max	Max. 40ms.		
Contact bounce time	Ma	x. 5ms.		
Drop-out time	Max	c. 10ms.		
Electrical endurance	Please refer to diagra	nm of resistance load life		
Mechanical endurance	300,000 ops			
Aux. Contact arrangement	1NO			
Rated load of aux. contact	2A/24V			
Min. load of aux. contact	100	mA/8V		

Coil Data

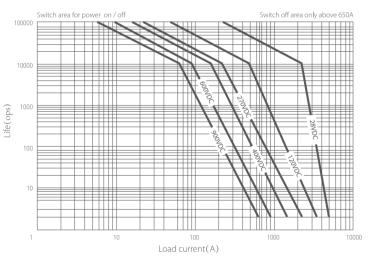
Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Rated power (W)
DUI200 DUI 1000	12		≪9	≥1	
DH200 DHV200 DH250 DHV250	24	0.85US-1.2US	≤18	≥2	12-15
	48		≤36	≥4	

Part Numbering System

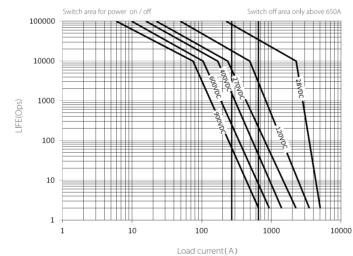


For example:DH200A12ANA means: Sealed type polarity high voltage dc contactor, Rated current is 200A with DC-1 load, main contact N.O.(stud type), without aux. contact, Nominal coil voltage is DC12V, coil wire length is 390mm, horizontal installation.

DH200 DHV200 Power Switching Capacity for Resistive Load

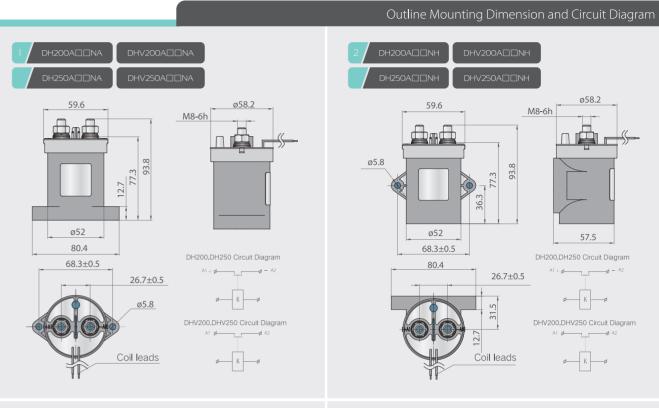


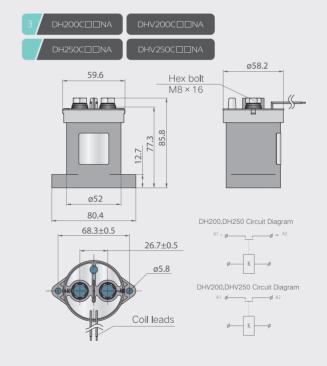
DH250.DHV250 Power Switching Capacity for Resistive Load

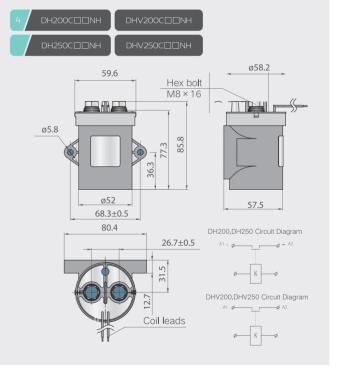


Remarks

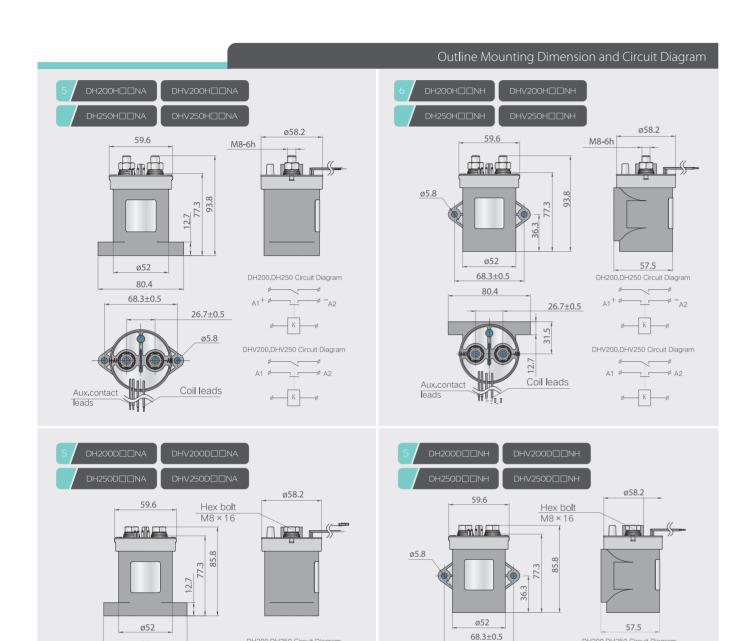
- 1. The rated Electrical endurance is based on resistance load test. The load max inductance≤300µH; If used with inductive load, please do contact the factory first.
- 2. The above curve is drawn according to the test and infer data. Suggest users confirm in practical use.
- 3. When the product's Dielectric 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 650 A to avoid contact cold welding.







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



80.4 68.3±0.5

26.7±0.5

1. DH polarity series' both coil and main contact are polarized; Please connect coil red wire to "+" polarity& coil black wire to "-" polarity; Connect"+" polarity to the main contact terminal with "A1+" mark, and connect "-" polarity to the main contact terminal with "A2-" mark.

DH200,DH250 Circuit Diagram

DHV200,DHV250 Circuit Diagram

2. DHV non-polarity series, only coil are polarized, please connect coil red wire to "+" polarity& coil black wire to "-" polarity; While the contact circuit are non-polar and marked "A1","A2" beside the main terminal.

Energy Saving Type

DH150 DHV150 **DHV200** DH200 DH250 **DHV250**



Feature

- 150A/200A/250A Contact switch capacity, Small volume
- This series covers both polar and non-polar series.Polar type has a set of bridge N.O. contacts, contact circuit has "+", "-" polarity. Non-polar type contact circuit is non-polar and can be connected in any direction.
- Rated power is very low, coil maintain power Max 1.8W
- The product is sealed and the contact chamber is filled with inert gas.

		Perforn	nance Data	
Product No.	DH150 DHV150	0/DH200 DHV200/	/ DH250 DHV25	
Contact arrangement		1H(SPST-NO)		
Rated load current of contact(Resistive load)	150A	200A	250A	
The max switch current	2	2000A(320VDC) 1cycle		
Contact voltage drop	≤80mV@150A	≤80mV@200A	≤80mV@250A	
Switching voltage	12 ~ 900V DC			
Pick-up time(including contact bounce)		Max. 30ms.		
Contact bounce time		Max. 5ms.		
Drop-out time		Max. 10ms.		
Electrical endurance	Please refer	to diagram of resistanc	ce load life	
Mechanical endurance		300,000 ops		
Aux. Contact arrangement		1NO		
Rated load of aux. contact	2A/24V			
Min. load of aux. contact		100mA/8V		

DH200,DH250 Circuit Diagram

DHV200,DHV250 Circuit Diagram

Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Sarting current (A)	Maintain current (A)
DH150 DHV150 DH200 DHV200	9-36	9-36	8-9	5.5-7	3.8	0.18@12V 0.09@24V
DH250 DHV250	32-95	32-95	29-31	23-25	1.3	0.03@48V

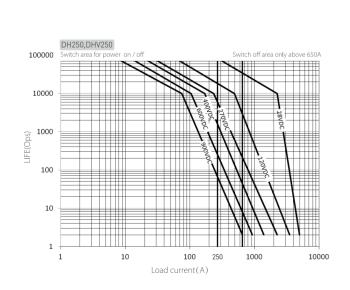
Energy Saving Type

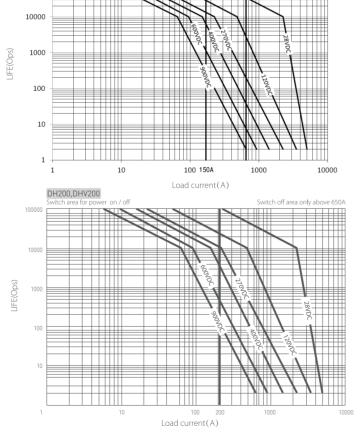
For example:DH200AAANA means: Sealed type polarity high voltage dc contactor. Rated current is 200A at DC-1 load, main contact N.O.(stud type), without aux. contact, Nominal coil voltage is DC 9 \sim 36V, coil wire length is 390mm, horizontal installation.

100000

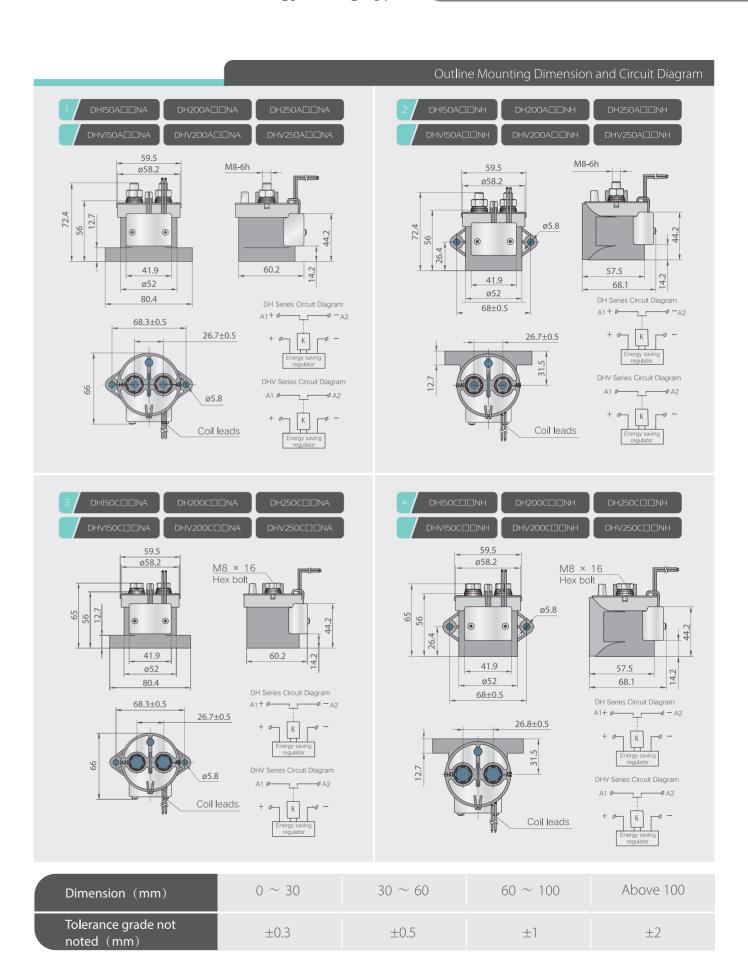
Remarks

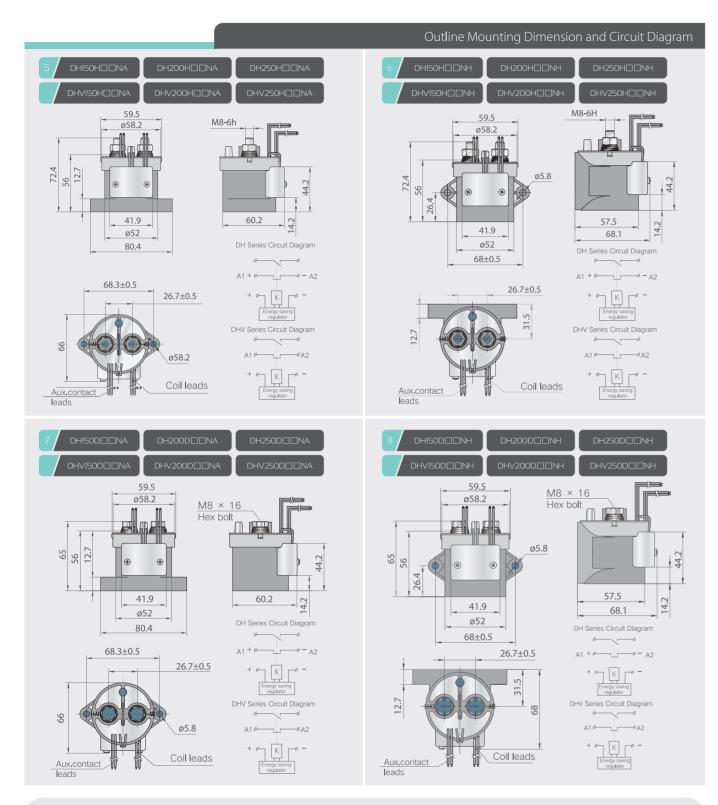
- 1.The rated Electrical endurance is based on resistance load test. The load max inductance≤300µH; If used with inductive load, please do contact the factory first.
- 2. The above curve is drawn according to the test and infer data. Suggest users confirm in practical use.
- 3. When the product's Dielectric 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.





Design code (Sealed type high voltage dc contactor)





Remarks:

- 1. The outline mounting dimensions of products are same whether with or without aux. contact;
- 1. DH polarity series' both coil and main contact are polarized; Please connect coil red wire to "+" polarity& coil black wire to "-" polarity; Connect "+" polarity to the main contact terminal with "A1+" mark, and connect "-" polarity to the main contact terminal with "A2-" mark.
- 2. DHV non-polarity series, only coil are polarized, please connect coil red wire to "+" polarity& coil black wire to "-" polarity; While the contact circuit are non-polar and marked "A1","A2" beside the main terminal.

DH300 DH400



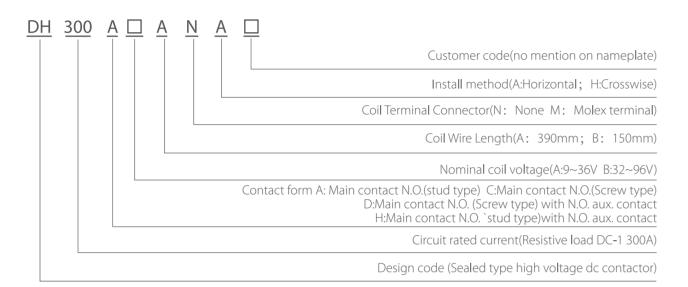
Feature

- 300A/400A Contact switch capacity, Small volume
- A set of bridge type N.O.contacts& a set of N.O. aux contact, contact circuit has "+", "-" polarity
- Rated power is very low, coil maintain power Max 4W

		Performance Data	
Product No.	DH300	DH400	
Contact arrangement	1H(SP	ST-NO)	
Rated load current of contact(Resistive load)	300A(DC-1)	400A(DC-1)	
The max switch current	2500A(320\	VDC) 1cycle	
Contact voltage drop	≤80m\	/@300A	
Switching voltage	12 ~ 9	900V DC	
Pick-up time(including contact bounce)	Max. 40ms.		
Contact bounce time	Max. 5ms.		
Drop-out time	Max. 10ms.		
Electrical endurance	Please refer to diagram of resistance load life		
Mechanical endurance	300,000 ops		
Aux. Contact arrangement	1NO		
Rated load of aux. contact	2A/24V		
Min. load of aux. contact	100mA/8V		

Part No.	Nominal coil voltage (V)	Coil operating voltage(V)	Pick-up voltage (V)	Drop-out voltage (V)	Sarting current (A)	Maintain current (A)
DH300	9-36	9-36	8-9	5.5-7	3.8	0.33@12V 0.17@24V
DH400	32-95	32-95	29-31	23-25	1.3	0.1A@48V

Part Numbering System

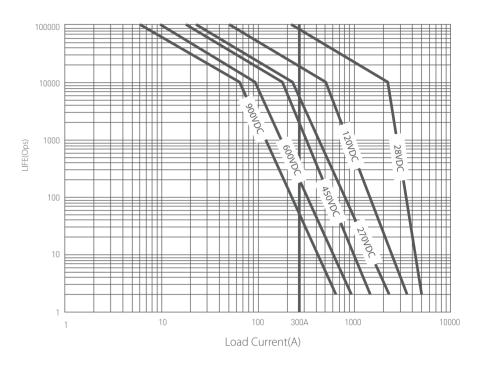


For example:DH300AAANA means: Sealed type high voltage dc contactor. Rated current is 300A at DC-1 load, main contact N.O.(stud type), without aux. contact, Nominal coil voltage is DC 9 \sim 36V,coil wire length is 390mm, horizontal installation.

DH300 Power Switching Capacity for Resistive Load

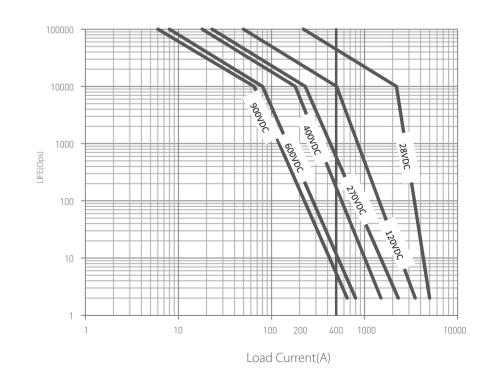
Remarks

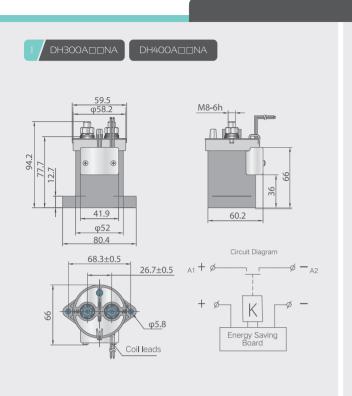
- 1. The rated Electrical endurance is based on resistance load test. The load max inductance ≤300µH; If used with inductive load, please do contact the factory first.
- 2. The above curve is drawn according to the test and infer data. Suggest users confirm in practical use.
- 3.When the product's Dielectric withstand voltage, insulation resistance is less than the product parameters in the table, the product is defined as a life to an end.

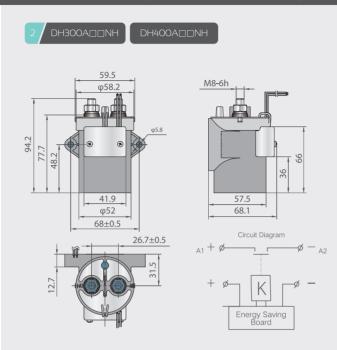


Remarks

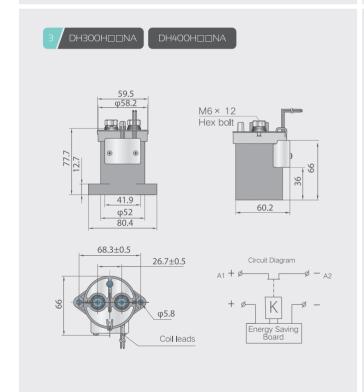
- 1.The rated Electrical endurance is based on resistance load test. The load max inductance ≤300µH; If used with inductive load, please do contact the factory first.
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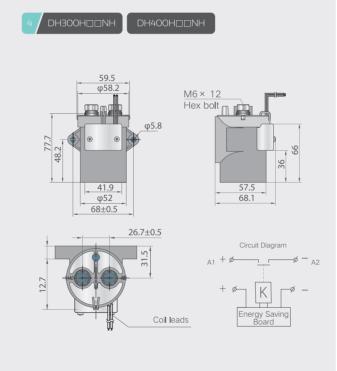




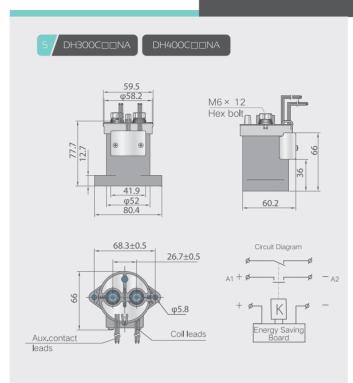


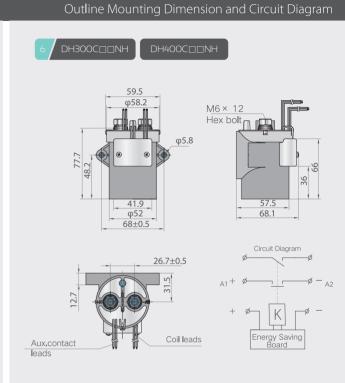
Outline Mounting Dimension and Circuit Diagram

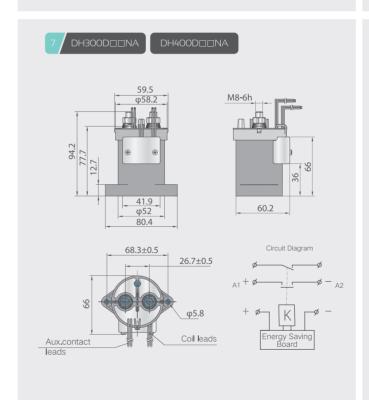


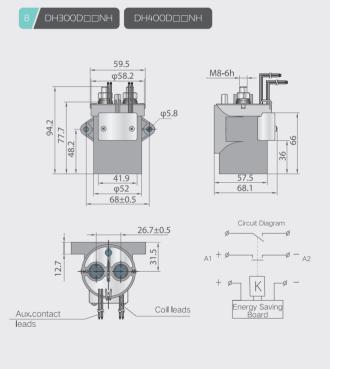


Dimension (mm)	0-30	30-60	60-100	>100
Tolerance grade not noted (mm)	±0.3	±0.5	±1	±2









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 "A1+" mark, and connect "-" polarity to the main contact terminal with "A2-" mark.

DHC SERIES Product Instruction $\geq 100M\Omega(1000VDC)$ Insulation resistance ON: 196m/s² (above 20G) Half-sine shock pulse:11ms Impact Stability Test time:10µs OFF: 98 m/s² (above 10G) resistance Strength Half-sine shock pulse:6ms 590 m/s² (above 50G) 10Hz~500Hz 49 m/s² (above 5G) Vibration resistance Temperature -40°C ~+85°C Conditions of Operating environment, transport usage storage environment. Humidity5%~85%RH(No ice, no condensation) Product installation mode Arbitrarily

Product Use Instructions

1. In order to prevent looseness, please use the gaskets correctly when installing the contactor. Please use suitable screws and locking torque to install the contactor, otherwise the product may be damaged in the case of excessive torque. Please refer to following torsion list:

M4 Screw/Nut; 2N.m~3N.m

M5 Screw/Nut: 3N.m~4N.m

M6 screw/Nut: 6N.m ~ 8N.m

M8 Screw/Nut: 9N.m ~ 11N.m

Insertion and extrPick-up force: (1) Load lead-out pin: 49N;(2) Coil lead-out pin: 49N (Only available for DHC20)

2. Please avoid grease and other foreign matter attached to the terminals. Please use the suitable connection wire; otherwise it may lead to abnormal heating of the terminals. Please refer to following advised connecting wire:

 $DHC20: \ge 4.0 mm^2 \\ DHC40: \ge 10 mm^2 \\ DHC100: \ge 40 mm^2 \\ DHC150: \ge 50 mm^2 \\ DHC200: \ge 60 mm^2 \\ DHC20$

DHC300:≥100mm² DHC400:≥120mm² DHC600:≥200mm² DHC800:≥300mm²

- 3. The contactor is a high-voltage DC switching device. In the final state, it may not be able to connect or cut off. Once the product cannot be cut off, may lead to abnormal heat and smoke, fire or other accidents. Therefore, please avoid the use of the above Performance Datas (including but not limited to coil rating, load ratings and Electrical endurance, etc.). Please use a circuit that can quickly cut off the load in an emergency; To ensure safety, the product should be replaced regularly.
- 4. The contact terminal and coil are including both polarity and non-polarity series, please ensure they would be connected correctly according to the product mark; If the terminals are connected to the opposite direction, the electrical characteristics that are promised in this Performance Data will not be guaranteed.
- 5. Contact rating is the value under resistive load. Please take measure of surge absorption device together with inductive load when using the L/R≥1ms inductive load (L load), otherwise it may lead to the decrease of electrical endurance and defective switch.
- 6. This point only available for contactor blow 150A(DHC20~DHC150)

It is recommended to install the nonlinear resistance (recommend using variable resistance) in order to suppress the reverse electromotive force of coil. But please do not use diode; otherwise it will lead to the decline of contactor performance.

7. This point only available for contactor above 150A(DHC200~DHC400)

This product includes reverse EMF circuit restrained in coil, so there is no need to use surge suppression device. Do not make the voltage rise slowly when testing the pick-up voltage, please drive the coil by the quick rising edge (step power supply), otherwise the contactor will not work. The coil current of the product will be switched automatically after connected about 0.2s, and the repeated on-off operation of < 0.2s will cause the contactor failure.

- 8. It is strictly prohibited to place the contactor for a long time in the environment beyond the operating temperature (-40 °C ~+ 85 °C) of the product.
- 9. Please do not install the product in a strong magnetic field (the periphery of a transformer, or magnet) or near the heating object.
- 10. Please use the specified connector when connecting to the connector
- 11. In principle, please do not use it when the contactor has fallen down.





Feature

- 20A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts; Non-polarity of contact circuit;
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas. The contact does not oxidize, can quickly cut off in the dc high voltage;

			Performance Data
	Contact arrar	ngement	1H(SPST-NO)
	Rated load(Re	esistive load)	20A
	Min applicab	le load (Resistive load)	1A/12VDC
	Max switch v	oltage	1000VDC
Contact Data	Contact volta	ge drop(initial)	≤80mV@20A
Contact Data			20A: continued
	Current carrying capacity(a)		30A: 1h
			40A: 20min
			80A: 30s
			120A: 10s
			200A: 0.6s
	Pick-up time (at 20°C rated volt.)		≤30ms (Excluding contact bounce)
Electrical	Drop-out time (at 20°C rated volt.)		≤10ms
endurance	Contact bou	nce time (at 20°C rated volt.)	≤5ms
cridarariec	Dielectric	Between open contact	3000VAC 1min
	strength	Between contact and coil	4000VAC 1min
	Electrical	20A 450VDC	≥100,000 ops
Ops	endurance	20A 750VDC	≥75,000 ops
	Mechanical e	endurance	≥200,000 ops

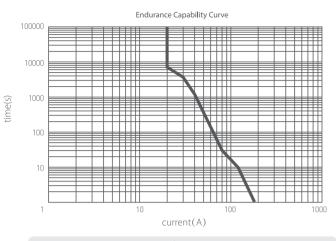
Note: (a): The above data is tested at ambient temperature, connecting wire cross section area≥4mm² (b): Except for special instructions, the Electrical endurance On-off ratio is 1s:9s

Coil Data

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DUCAA	12V DC	≤9V DC	≥1V DC	16V DC	0.25A	3W
DHC20	24V DC	≤18V DC	≥2V DC	32V DC	0.125A	3W

DONGYA

Power Switching Capacity for Resistive Load



Pick-up /Drop-out voltage curve

Pick-up voltage

Pick-up voltage

Pick-up voltage

Drop-out voltage

2

Ambient Temperature(C)

Note: The above data is tested at 85 °C ambient temperature, connecting wire cross section area≥4mm². The data is for reference only; please do not use to select the fuse directly.

Note: The above data are tested by random sampling of coil volt. 12V DC product. The data is for reference only, (test qty: n=3)

±0.3

±0.6

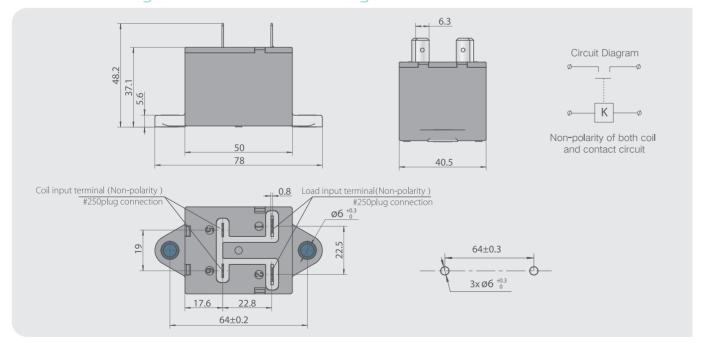
±1.0

Part Numbering System

Tolerance grade not noted



Outline mounting dimension and circuit diagram



<10mm

>50mm

10~50mm

DHC40



Feature

- 40A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts; Non-polarity of contact circuit;
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas. The contact does not oxidize, can quickly cut off in the dc high voltage;

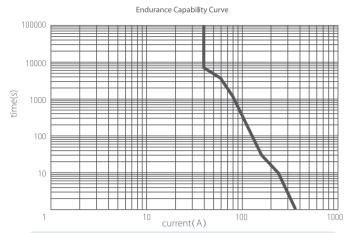
Contact arrangement 1H(SPST-NO) Rated load(Resistive load) 40A Min applicable load (Resistive load) 1A/12VDC		
Min applicable load (Resistive load) 1A/12VDC		
Will applicable load (hesistive load)		
Max switch current 400A(300VDC)1cycle		
Max switch voltage 1000VDC		
Contact voltage drop(initial) ≤80mV@40A	Comtost Data	
Contact Data 40A:continued	Contact Data	
60A: 1h		
Current carrying capacity(a) 80A: 20min		
160A: 30s		
320A: 2s		
400A: 0.6s		
Pick-up time (at 20 °C rated volt.) ≤30ms (Excluding contact bounce)		
Electrical Drop-out time (at 20 °C rated volt.) ≤10ms	Flectrical	
endurance Contact bounce time (at 20 °C rated volt.) ≤5ms		
Dielectric Between open contact 3000VAC 1min	endurance	
strength Between contact and coil 4000VAC 1min		
Electrical 40A 450VDC ≥20,000 ops		
Opsendurance40A 750VDC≥1,000 ops	Ops	
Mechanical endurance ≥200,000 ops		

Note: (a): The above data is tested at ambient temperature, connecting wire cross section area 10mm². (b): Except for special instructions, the electric life On-off ratio is 1s:9s

Coll Data

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
511640	12V DC	≤9V DC	≥1V DC	16V DC	0.45A	5W
DHC40	24V DC	≤18V DC	≥2V DC	32V DC	0.23A	5W

DONGYA



Note: The above data is tested at 85 °C ambient temperature, connecting wire cross section area≥10mm². The data is for reference only; please do not use to select the fuse directly.

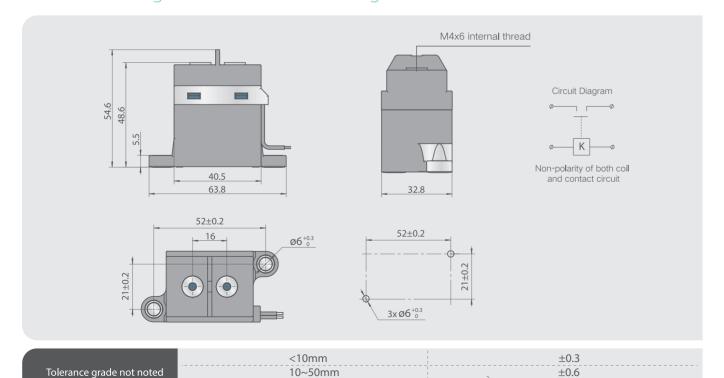
Pick-up /Drop-out voltage curve 120 Ambient Temperature (°C)

Note: The above data are tested by random sampling of coil volt. 12V DC product. The data is for reference only, (test qty: n=3)

±1.0



Outline mounting dimension and circuit diagram



>50mm

DHC100 DHC150



Feature

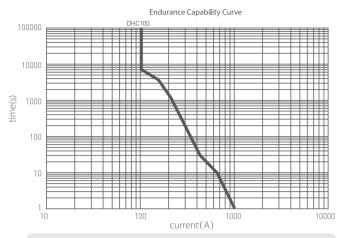
- 100A \ 150AContact switch capacity, Small vol-
- A set of bridge type N.O.contacts; contact circuit has "+", "-" polarity;
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas. The contact does not oxidize, can quickly cut off in the dc high voltage;

			Perfc	ormance Data
	Contact arra	ngement	1H(SPST-NO)	1H(SPST-NO)
	Rated load(F	lesistive load)	100A	150A
	Min applicat	ole load (Resistive load)	1A/12VDC	1A/12VDC
	Max switch o	current	1000A(300VDC)1cycle	1500A(300VDC)1cycle
6 1 15 1	Max switch \	voltage	1000VDC	1000VDC
Contact Data	Contact volt	age drop(initial)	≤60mV@100A	≤60mV@150A
			100A: continued	150A: continued
			120A: 2h	180A: 2h
	Current carry	ving capacity(a)	200A: 10min	300A: 10min
			400A: 2min	600A: 2min
			600A: 30s	900A: 30s
	Pick-up time	(at 20°C rated volt.)	≤30mS(Excluding contact bounce)	≤30mS(Excluding contact bounce)
Electrical	Drop-out tin	ne (at 20°C rated volt.)	≤10ms	≤10ms
endurance	Contact bou	nce time (at 20°C rated volt.)	≤5ms	≤5ms
criadianee	Dielectric	Between open contact	3000VAC 1min	3000VAC 1min
	strength	Between contact and coil	4000VAC 1min	4000VAC 1min
	Electrical	100A 450VDC/150 450VDC	≥3,000 ops	≥3,000 ops
Ops	endurance	100A 750VDC/150 750VDC	≥1,000 ops	≥1,000 ops
	Mechanical (endurance	≥200,000 ops	≥200,000 ops

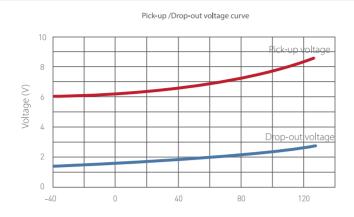
Note: (a): The above data is tested at ambient temperature, connecting wire cross section area DHC100≥40mm², DHC150≥50mm² (b): Except for special instructions, the electric life On-off ratio is 1s:9s

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DHC100	12V DC	≤9V DC	≥1V DC	16V DC	0.55A	6.5W
DHC150	24V DC	≤18V DC	≥2V DC	32V DC	0.26A	6.5W

DHC100 Power Switching Capacity for Resistive Load

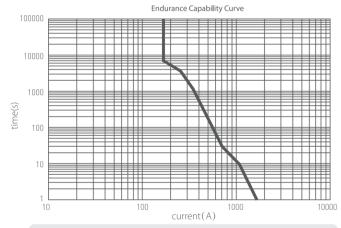


Note: The above data is tested at 85 °C DHC100ambient temperature, connecting wire cross section area≥40mm². The data is for reference only, please do not use to select the fuse directly.



Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

DHC150 Power Switching Capacity for Resistive Load

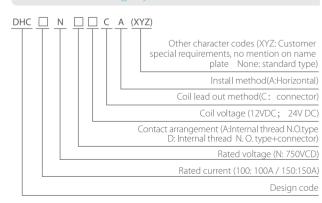


Note: The above data is tested at 85 $^{\circ}$ DHC150ambient temperature, connecting wire cross section area \geq 50mm 2 . The data is for reference only, please do not use to select the fuse directly.

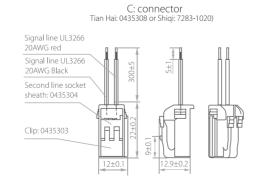
Pick-up /Drop-out voltage curve 8 Pick-up voltage Pick-up voltage Pick-up voltage Pick-up voltage 4 Drop-out voltage 2 Ambient Temperature (C)

Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

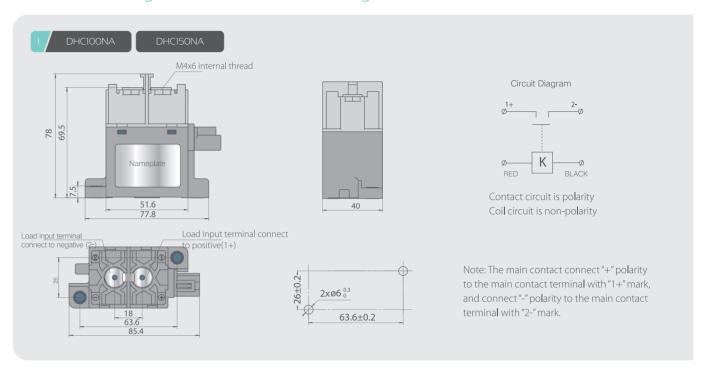
Part Numbering System



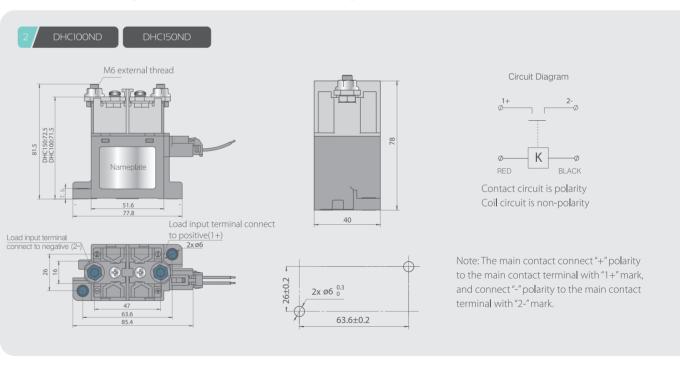
Coil lead-out method



Outline mounting dimension and circuit diagram



Outline mounting dimension and circuit diagram



	<10mm	±0.3
Tolerance grade not noted	10~50mm	±0.6
	>50mm	±1.0

DHC200



Feature

- 200A Contact switch capacity, Small volume;
- A set of bridge type N.O.contacts; contact circuit has "+", "-" polarity;
- Coil with energy saving device, the max holding power consumption is 4.5W.
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas. The contact does not oxidize, can quickly cut off in the dc high voltage;

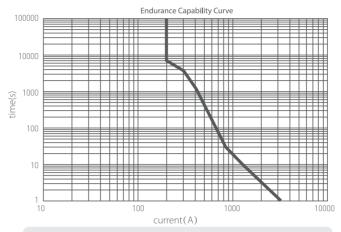
			Performance Data	
	Contact arra	ngement	1H(SPST-NO)	
	Rated load(R	esistive load)	200A	
	Min applicat	ole load (Resistive load)	1A/12VDC	
	Max switch o	current	2000A(300VDC)1cycle	
	Max switch \	voltage	1000VDC	
Contact Data	Contact volt	age drop(initial)	≤80mV@200A	
			200A: continued	
			300A: 60min	
	Current carry	ving capacity(a)	400A: 20min	
			800A: 30s	
			2000A: 0.6s	
	Pick-up time	(at 20°C rated volt.)	≤30ms (Excluding contact bounce)	
Electrical	Drop-out tim	ne (at 20°C rated volt.)	≤10ms	
endurance	Contact bou	nce time (at 20°C rated volt.)	≤5ms	
cridarance	Dielectric	Between open contact	3000VAC 1min	
	strength	Between contact and coil	2500VAC 1min	
	Electrical	200A 450VDC	≥3,000 ops	
Ops	endurance	200A 750VDC	≥1,000 ops	
	Mechanical e	endurance	≥200,000 ops	

Note: (a): The above data is tested at ambient temperature, connecting wire cross section area≥60mm² (b): Except for special instructions, the Electrical endurance On-off ratio is 1s:9s

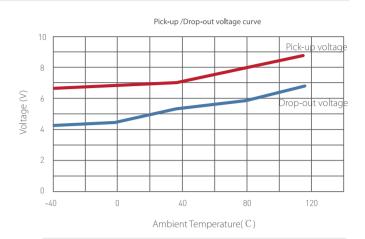
Coil Data

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DHC200	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up: 3.33A Hold-in: 0.333A	Pick-up: 40W(0.2s Pick-up) Hold-in: 4W
DITC200	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up: 1.67A Hold-in: 0.167A	Pick-up: 40W(0.2s Pick-up) Hold-in: 4W

Power Switching Capacity for Resistive Load

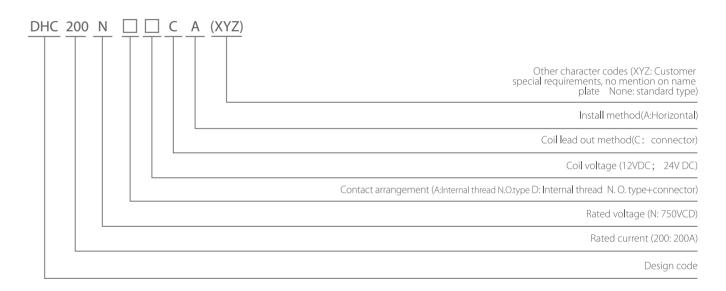


Note: The above data is tested at 85 $^{\circ}$ C ambient temperature, connecting wire cross section area \geq 60 mm². The data is for reference only; please do not use to select the fuse directly.

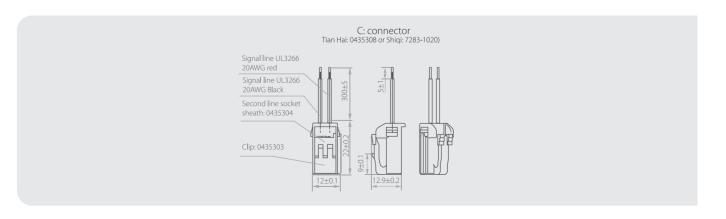


Note: The above data are tested by random sampling of coil volt. 12V DC product. The data is for reference only, (test qty: n=3)

Part Numbering System



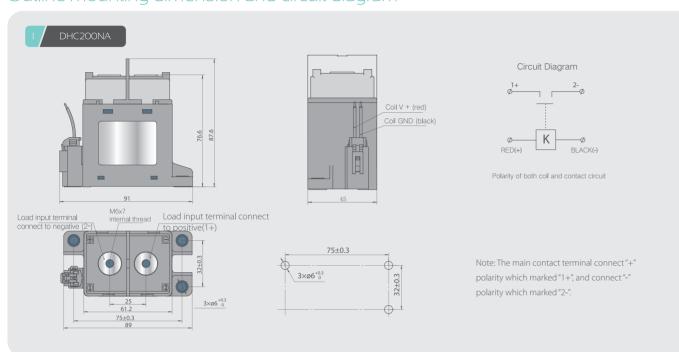
Coil lead-out method



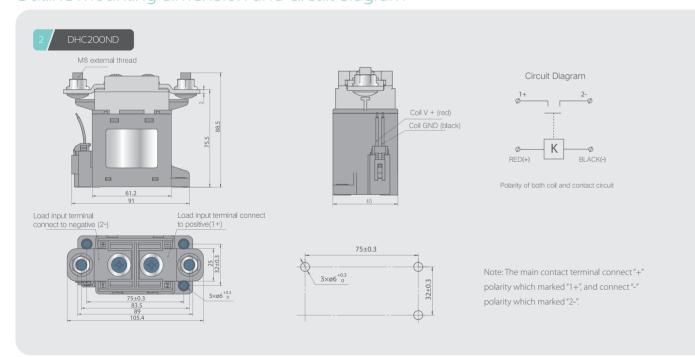
1 DONGYA

DONGYA

Outline mounting dimension and circuit diagram



Outline mounting dimension and circuit diagram



	<10mm	±0.3
Tolerance grade not noted	10~50mm	±0.6
	>50mm	±1.0



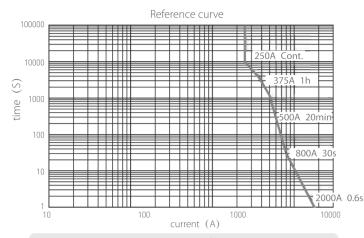


			Performance Data	
	Contact for	m	1H (SPST-NO)	
	Rated load	(Resistive load)	250A	
	Min applica	able load (Resistive load)	1A/12VDC	
	Max switch	current	2000A(300VDC)1 次	
Contact Data	Max switch	voltage	1000VDC	
	Contact vo	ltage drop(initial)	≤80mV@250A	
			250A: continued	
			375A: 1h	
	Current car	rying capacity(a)	500A: 20min	
			800A: 30s	
			2000A: 0.6s	
	C+ - - : :+	Half-sine shock	ON: 196m/s² (> 20G)	
Impact resistance	Stability	pulse:11ms	OFF: 98 m/s² (> 10G)	
	Strength Half-sine shock		490 m/s² (> 50G)	
Vibration resistance			10Hz∼500Hz 49 m/s²(> 5G)	
Product installation mode			Arbitrarily	

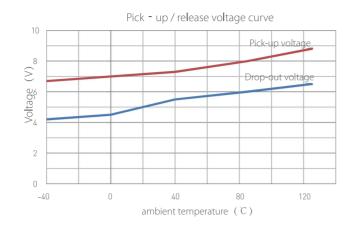
Coil Data

Model	Coil rated volt.	Pick-up volt.	Release volt.	Max operate volt.	Rated current (±10%)	Rated coil power
DHC250	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up:2.92A Hold-in:0.375A	Pick-up:35W(0.2s Pick-up) Hold-in:4.5W
DITC230	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up:1.46A Hold-in: 0.188A	Pick-up:35W(0.2s Pick-up) Hold-in:4.5W

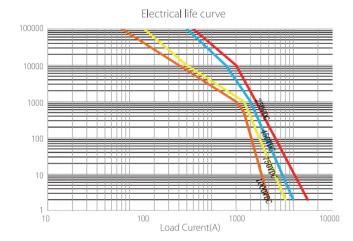
Current tolerance curve



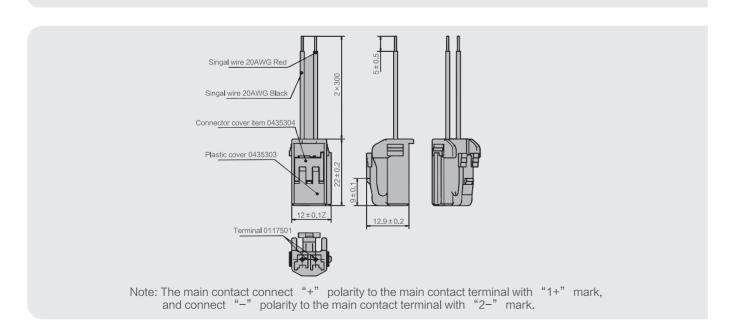
Note: The above data is tested at 85°C ambient temperature, Traverse area≥95mm². The data is for reference only, please do not use to select the fuse directly.



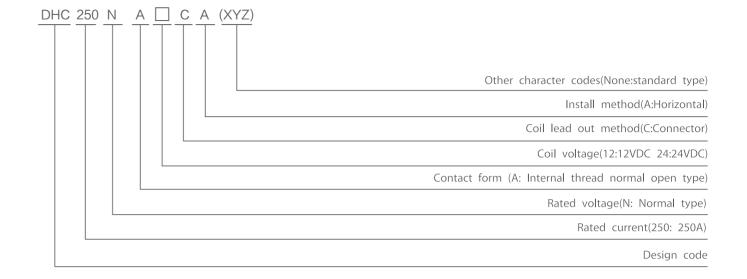
The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)



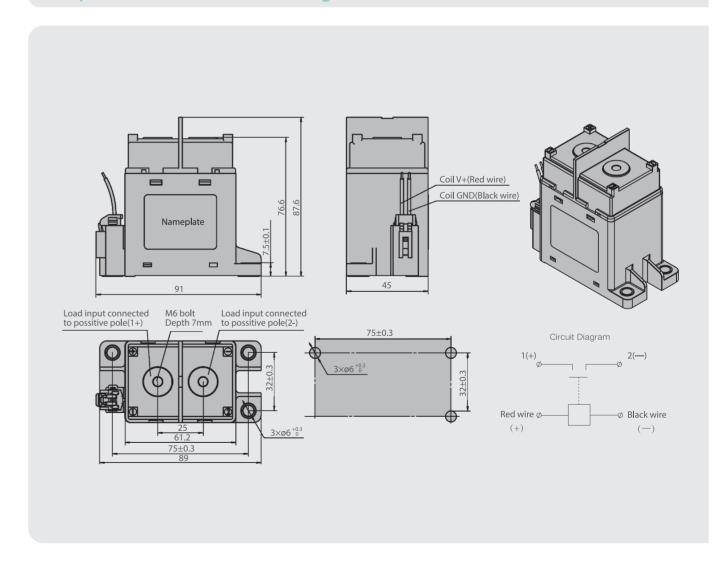
Coil lead out mode (Tianhai: 0435308 or Yazaki: 7283-1020)



Part Numbering System



Shape installation and circuit diagram



DHC300 DHC400



Feature

- 300A、400AContact switch capacity, Small volume;
- A set of bridge type N.O.contacts contact circuit has "+", "-" polarity;
- Coil with energy saving device, the max hold in power consumption is 4.5W.
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas, the contact would not oxidize, can quickly switch off the dc high voltage;

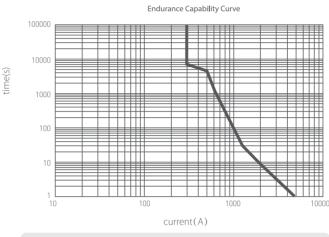
			Perfo	ormance Data
	Contact arra	ngement	1H(SPST-NO)	1H(SPST-NO)
	Rated load(R	esistive load)	300A	400A
	Min applicat	ole load (Resistive load)	1A/12VDC	1A/12VDC
	Max switch o	current	2500A(320VDC)1cycle	2500A(320VDC)1cycle
	Max switch \	voltage	1000VDC	1000VDC
Contact Data	Contact volt	age drop(initial)	≤80mV@300A	≤80mV@400A
			300A: continued	400A: continued
			450A: 60min	600A: 60min
	Current carry	ving capacity(a)	600A: 20min	1200A: 20min
			1200A: 30s	3000A: 30s
			3000A: 0.6s	
	Pick-up time	(at 20°C rated volt.)	≤30mS(Excluding contact bounce)	≤30mS(Excluding contact bounce)
Electrical	Drop-out tim	ne (at 20°C rated volt.)	≤30ms	≤30ms
endurance	Contact bou	nce time (at 20°C rated volt.)	≤10ms	≤10ms
cridarance	Dielectric	Between open contact	3000VAC 1min	3000VAC 1min
	strength	Between contact and coil	4000VAC 1min	4000VAC 1min
	Electrical	300A 450VDC/400 450VDC	≥3,000 ops	≥3,000 ops
Ops	endurance	300A 750VDC/400 750VDC	≥1,000 ops	≥1,000 ops
	Mechanical e	endurance	≥200,000 ops	≥200,000 ops

Note: (a): The above data is tested at ambient temperature, connecting wire cross section area DHC300≥100mm², DHC400≥120mm² (b): Except for special instructions, the Electrical endurance On-off ratio is 1s:9s

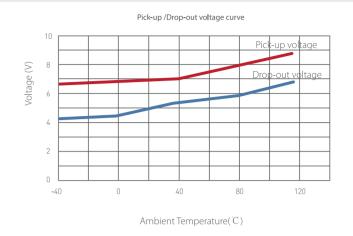
Coil Data

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DHC300	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up: 3.75A Hold-in: 0.375A	Pick-up: 45W(0.2s Pick-up) Hold-in: 4.5W
DHC400	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up: 1.88A Hold-in: 0.188A	Pick-up: 40W(0.2s Pick-up) Hold-in: 4W

DHC300 Power Switching Capacity for Resistive Load

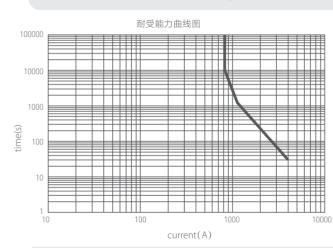


Note: The above data is tested at 85 °C DHC300ambient temperature, connecting wire cross section area≥100mm². The data is for reference only, please do not use to select the fuse directly.



Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

DHC4000 Power Switching Capacity for Resistive Load

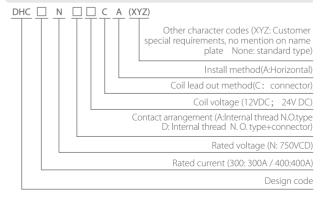


Note: The above data is tested at 85 °C DHC400ambient temperature, connecting wire cross section area≥120mm². The data is for reference only, please do not use to select the fuse directly.

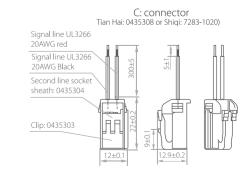
动作释放电压曲线图 Pick-up voltage Drop-out voltage 4 2 Ambient Temperature(C)

Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

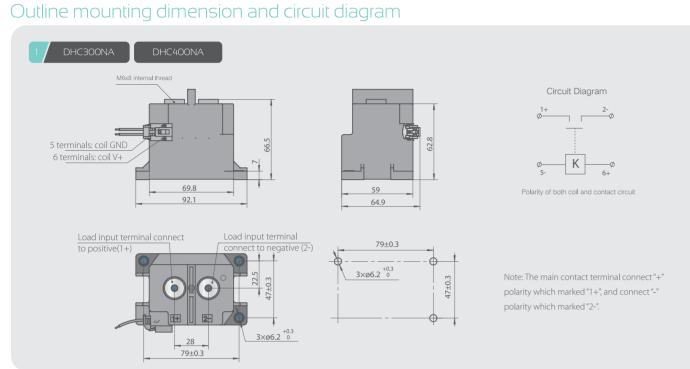
Part Numbering System



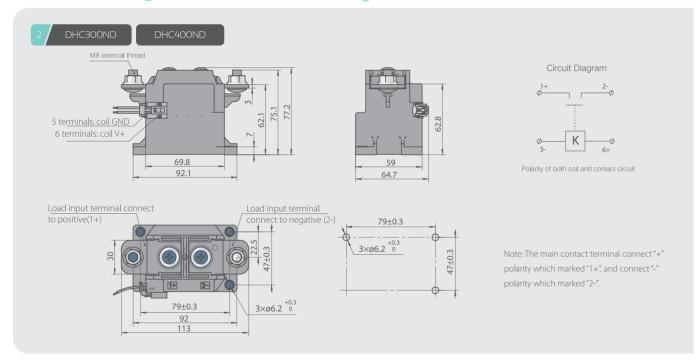
Coil lead-out metho



Outline requisited discounting



Outline mounting dimension and circuit diagram



Tolerance grade not noted	<10mm	±0.3
	10~50mm	±0.6
	>50mm	±1.0





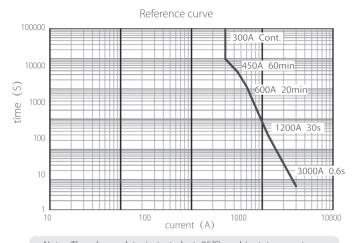
			Performance Data	
	Contact for	m	1H (SPST-NO)	
	Rated load(Resistive load)	300A	
	Min applica	ble load (Resistive load)	1A/12VDC	
	Max switch	current	2000A(750VDC)1 time	
Contact Data	Max switch	voltage	1000VDC	
contact Bata	Contact vol	tage drop(initia l)	≤150mV@300A	
			300A: continued	
	Current car	rying capacity(a)	450A: 60min	
	Current Car	rying capacity(a)	600A: 20min	
	1 1 1 1 1 1		1200A: 30s	
			3000A: 0.6s	
	C. Lili	Half-sine shock	ON: 196m/s² (>20G)	
Impact resistance	Stability	pulse:11ms	OFF: 98 m/s² (> 10G)	
	Strength Half-sine shock		490 m/s² (> 50G)	
Vibration resistance			10Hz~500Hz 49 m/s² (> 5G)	
Product installation mode			Arbitrarily	

Coil Data

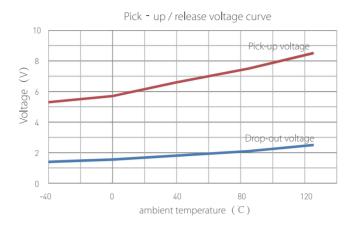
Model	Coil rated volt.	Pick-up volt.	Release volt.	Max operate volt.	Rated current (±10%)	Rated coil power
DHCH300	12V DC	≤9V DC	≥1V DC	16V DC	0.5A	6W
Differisoo	24V DC	≤18V DC	≥2V DC	32V DC	0.25A	6W

49

Current tolerance curve

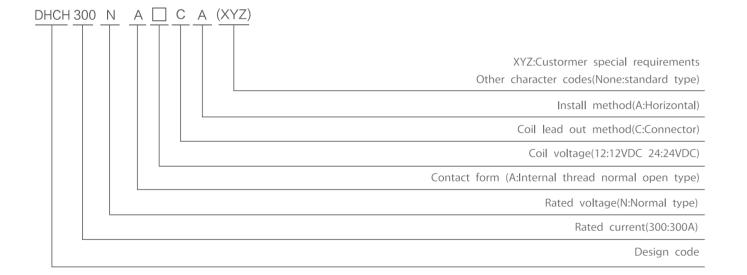


Note: The above data is tested at 85°C ambient temperature, Traverse area≥100mm.The data is for reference only, please do not use to select the fuse directly.

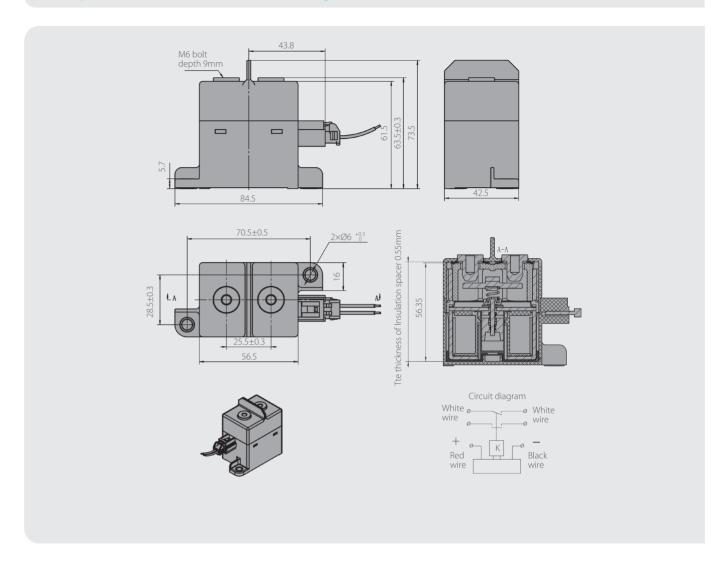


The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

Part Numbering System



Shape installation and circuit diagram



DHC600

Feature

- 600AContact switch capacity, Small volume;
- This product is non-polar type, the contact circuit is non-polar and can be connected in any direction while coil circuit is polar, please conntect coil red wire to "+" & black wire to"-"
- Coil with energy saving device, the max hold in powe consumption is 9W.
- Using ceramic brazing technology, the contact part i sealed with hydrogen gas, the contact would not oxidize can quickly switch off the dc high voltage;

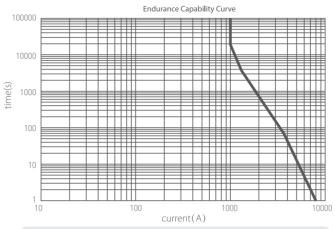
			Performance Data	
	Contact arrar	ngement	1H(SPST-NO)	
	Rated Ioad(R	esistive load)	600A	
Contact Data	Min applicab	le load (Resistive load)	1A/12VDC	
contact bata	Max switch c	urrent	2500A(800VDC)1cycle	
	Max switch v	oltage	1000VDC	
	Contact volta	age drop(initial)	≤120mV@600A	
			600A: continued	
	Current carry	ring capacity(a)	8000A: 20min	
	Current carry	ing capacity(a)	3000A: 4s	
			8000A: 10ms	
	Pick-up time	(at 20°C rated volt.)	≤50ms (Excluding contact bounce)	
Electrical	Drop-out tim	ne (at 20°C rated volt.)	≤30ms	
endurance	Contact bour	nce time (at 20°C rated volt.)	≤10ms	
criadianec	Dielectric	Between open contact	3000VAC 1min	
	strength	Between contact and coil	4000VAC 1min	
	Flootrical	300A 750VDC	≥2,000 ops	
Ops	Electrical endurance	600A 750VDC	≥500 ops	
- 1-3	c.iaaiaiicc	600A 1000VDC	≥100 ops	
	Mechanical e	endurance	≥200,000 ops	

Note: (a): The above data is tested at ambient temperature, connecting wire cross section area≥300mm² (b): Except for special instructions, the electric life On-off ratio is 1s:9s

Coil Data

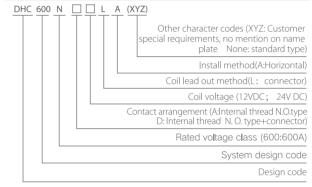
P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DUCCOO	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up: 4.2A Hold-in: 0.75A	Pick-up: 50W(0.2s Pick-up) Hold-in: 9W
DHC600	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up: 2.1A Hold-in: 0.375A	Pick-up: 50W(0.2s Pick-up) Hold-in: 9W

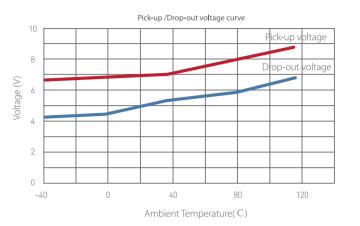
Power Switching Capacity for Resistive Load



Note: The above data is tested at 85 C ambient temperature, connecting wire cross section area≥200mm². The data is for reference only, please do not use to select the fuse directly.

Part Numbering System

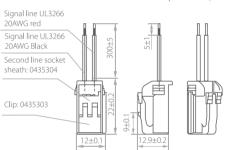




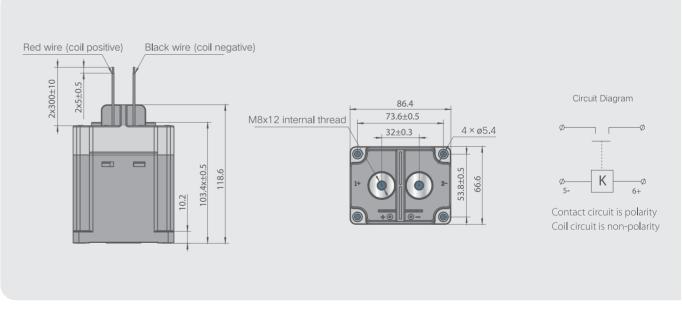
Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

Coil lead-out method

C: connector Tian Hai: 0435308 or Shiqi: 7283-1020)



Outline mounting dimension and circuit diagram



	<10mm	±0.3
Tolerance grade not noted	10~50mm	±0.6
	>50mm	±1.0



Feature

- 800AContact switch capacity, Small volume;
- This product is non-polar type, the contact circuit is non-polar and can be connected in any direction while coil circuit is polar, please conntect coil red wire to "+" & black wire to"-"
- Coil with energy saving device, the max hold in power consumption is 9W.
- Using ceramic brazing technology, the contact part is sealed with hydrogen gas, the contact would not oxidize, can quickly switch off the dc high voltage;

			Performance Data		
	Contact arran	ngement	1H(SPST-NO)		
	Rated load(Re	esistive load)	800A		
Contact Data	Min applicab	le load (Resistive load)	1A/12VDC		
correct bata	Max switch c	urrent	3000A(300VDC)1cycle		
	Max switch v	oltage	1000VDC		
	Contact volta	ge drop(initial)	≤120mV@800A		
			800A: continued		
	Current carry	ing capacity(a)	1000A: 10min		
	carrent carrying capacity(a)		3000A: 4s		
			8000A: 10ms		
	Pick-up time	(at 20°C rated volt.)	≤50ms (Excluding contact bounce)		
Electrical	Drop-out tim	e (at 20°C rated volt.)	≤30ms		
endurance	Contact bour	nce time (at 20°C rated volt.)	≤10ms		
	i	Between open contact	3000VAC 1min		
	strength	Between contact and coil	4000VAC 1min		
Ops	Electrical endurance	300A 750VDC	≥6,000 ops		
		600A 750VDC	≥500 ops		
		800A 1000VDC	≥50 ops		
	Mechanical e	endurance	≥200,000ops		

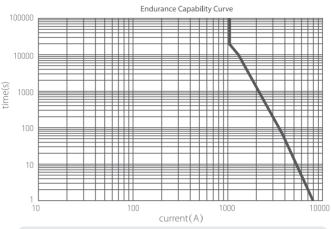
Note: (a): The above data is tested at ambient temperature, connecting wire cross section area≥300mm² (b): Except for special instructions, the electric life On-off ratio is 1s:9s

Coil Data

P/N	Nominal coil volt	Pick-up volt	Drop-out volt	Max operate volt	Rated current (±10%)	Rated power
DIJOOO	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up: 4.2A Hold-in: 0.75A	Pick-up: 50W(0.2s Pick-up) Hold-in: 9W
DHC800	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up: 2.1A Hold-in: 0.375A	Pick-up: 50W(0.2s Pick-up) Hold-in: 9W

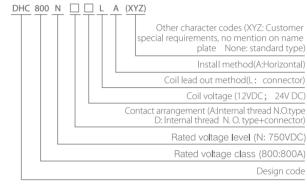
For more information, please visit: www.cndongya.com

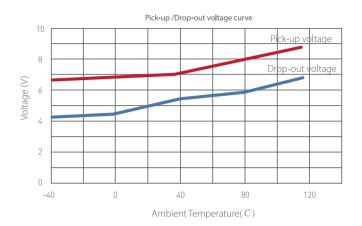
阻性负载下的切换能力



Note: The above data is tested at 85 $^{\circ}$ C ambient temperature, connecting wire cross section area \geq 300mm 2 . The data is for reference only, please do not use to select the fuse directly.

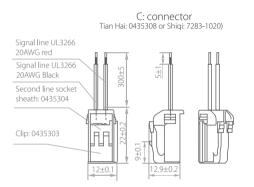
Part Numbering System



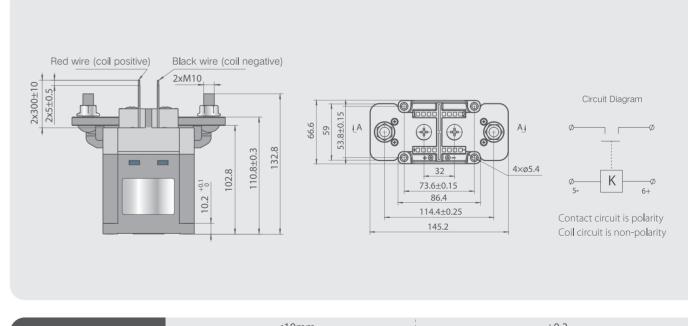


Note: The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

Coil lead-out method



Outline mounting dimension and circuit diagram



	<10mm	±0.3	
Tolerance grade not noted	10~50mm	±0.6	
	>50mm	±1.0	

Declaration: This product catalog is only for customers' reference. The products are constantly updated. If there is any change, no further notice will be given.

DHC350P

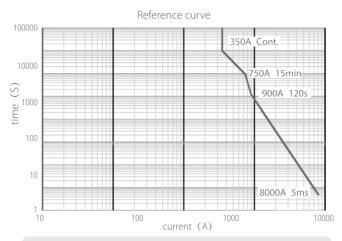


			Performance Data	
	Contact for	m	1H (SPST-NO)	
	Aux. contac	t form	1NO	
	Min load o	f Aux. contact	6VDC/ 0.1A	
	Rated load(Resistive load)	350A	
	Min applica	ble load (Resistive load)	1A/12VDC	
Contact Data	Max switch	current	2500A (800VDC) 1 ops	
	Max switch	voltage	1500VDC	
	Contact vol	tage drop(initial)	≤6mV@20A	
			350A : continued	
	Current car	rying capacity(a)	750A: 15min	
			900A: 120s	
			8000A: 5ms	
Impact resistance	Stability	Half-sine shock pulse:11ms	ON: 196m/s² (> 20G)	
		Test time:10 µ s	OFF: 98 m/s² (> 10G)	
	Strength Half-sine shock pulse:6ms		490 m/s² (> 50G)	
Vibration resistance	2	10Hz~500Hz 49 m/s² (>5G)		
Product installation	mode	Arbitrarily		

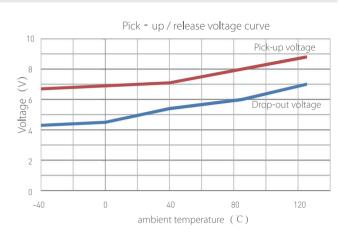
Coil Data

Model	Coil rated volt.	Pick-up volt.	Release volt.	Max operate volt.	Rated current (±10%)	Rated coil power
DHC350P	12V DC	≤9V DC	≥1V DC	16V DC	Pick-up:4.2A Hold-in:0.42A	Pick-up:50W(0.2s Pick-up) Hold-in:5W
DITESSOI	24V DC	≤18V DC	≥2V DC	32V DC	Pick-up:2.1A Hold-in: 0.21A	Pick-up:50W(0.2s Pick-up) Hold-in:5W

Current tolerance curve

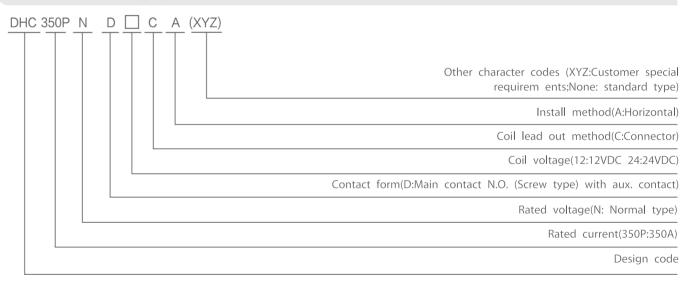




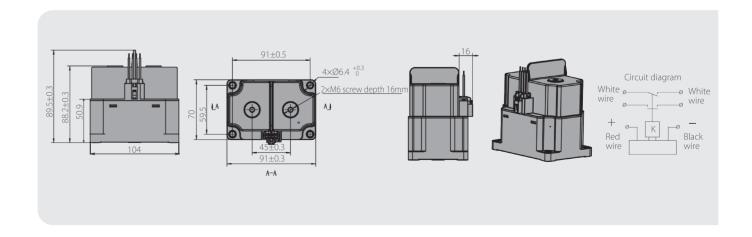


The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

Part Numbering System



Shape installation and circuit diagram



ZLJK-100



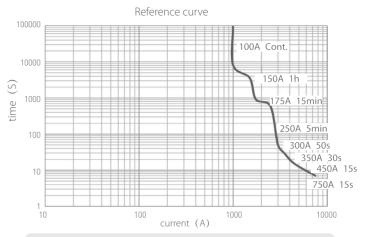
Performance Data

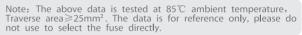
		renormance Dala	
	Contact form	1H (SPST-NO)	
	Rated load(Resistive load)	100A	
	Max switch current	1000A (48VDC) 1 1op	
	Contact voltage drop(initial)	≤75mV@100A	
		100A: continued	
		150A: 1h	
Contact Data		175A: 15 min	
	Current carrying capacity (@65℃)	250A:5 min	
		300A 50 s	
		350A 30 s	
		450A 15 s	
		750A 7 s	
Impact resistance	Stability	ON: Half-sine shock pulse, 15ms, 25G	
	Strength	Half-sine shock pulse, 6ms, 50G	
Vibration resistanc	е	10-1000Hz,2.78G	
Product installation mode		Arbitrarily	

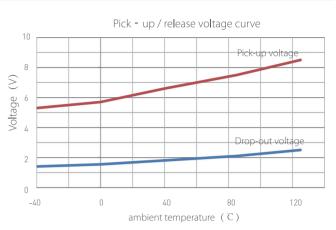
Coil Data

Model	Coil Rated Voltage	Pick-up volt.	Release volt.	Max Working Voltage	Coil Resistance	Rated coil power(W)
	12VDC (Special)	≪9VDC	≥1VDC	16V DC	50 (±10%) Ω	2.9
ZLJK-100	24VDC (Special)	≤18VDC	≥2VDC	32V DC	190 (±10%) Ω	3
	12VDC (Special)	≤18VDC	≥2VDC	32V DC	22 (±10%) Ω	6.5

Current tolerance curve







The above data are tested by random sampling of coil volt. 12VDC product. The data is for reference only, (test qty:n=3)

Part Numbering System



Shape installation and circuit diagram

