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A CHINT COMPANY



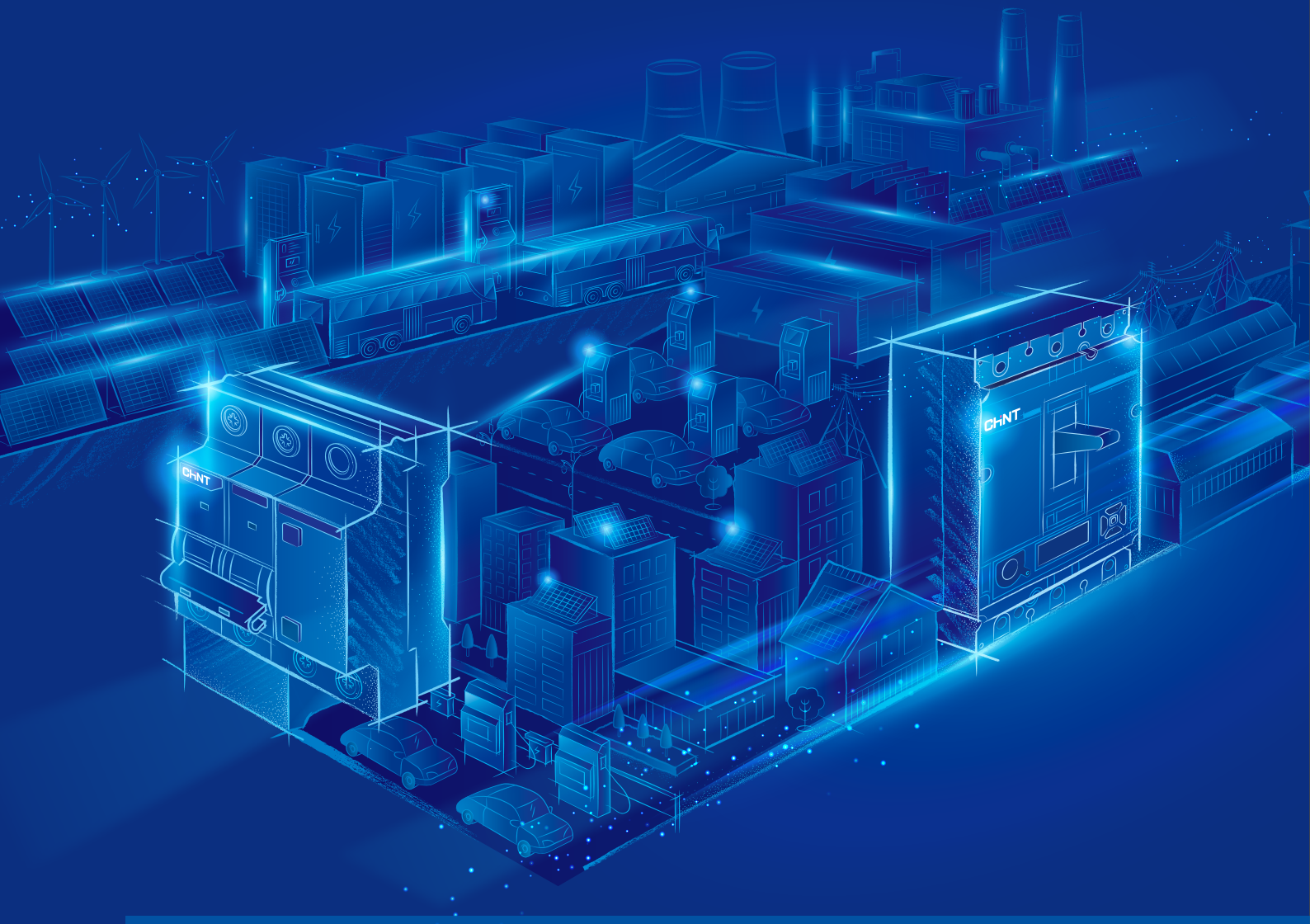
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CHNT

Empower the World



Moulded Case Circuit Breaker Residual Current Operated Circuit Breaker

ABOUT CHINT



CHINT A leading global provider of smart energy solutions

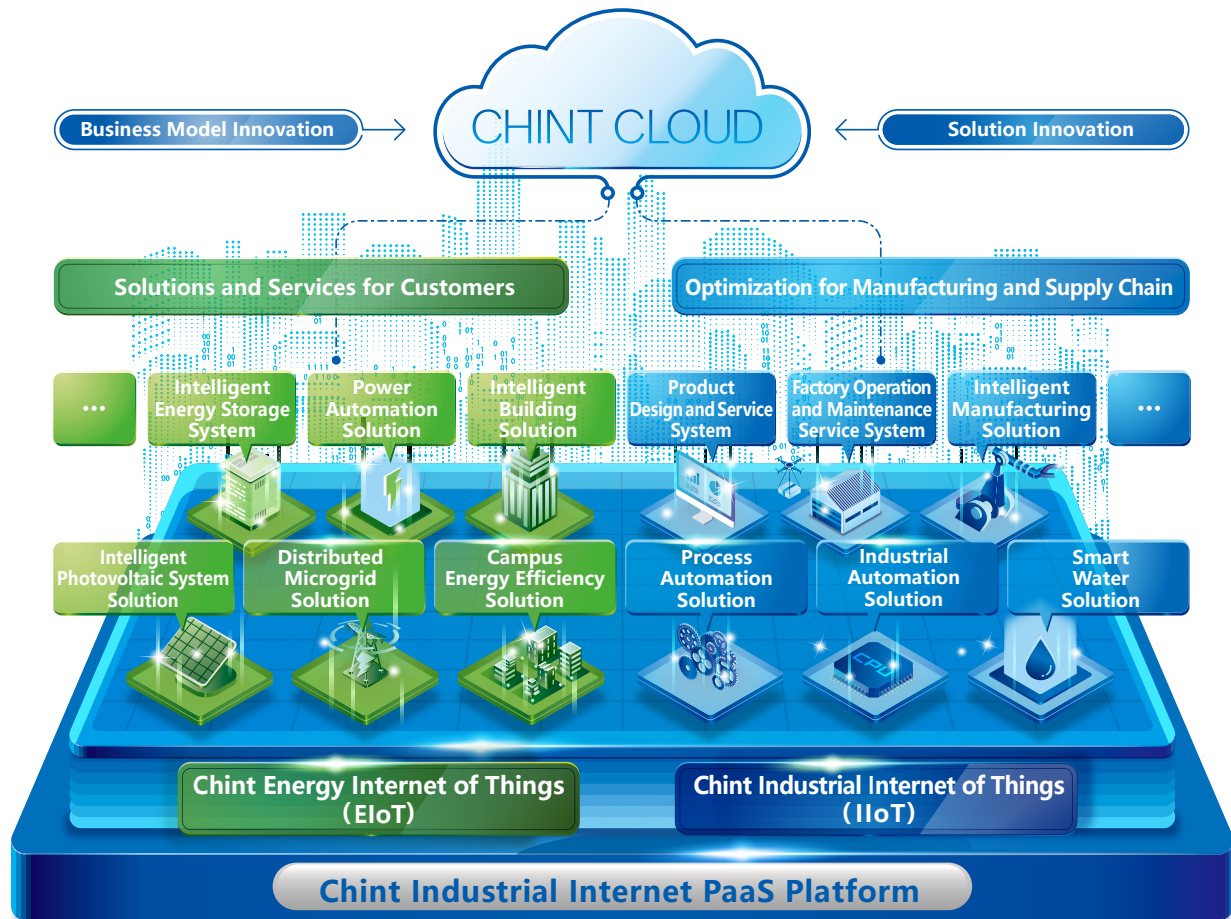
Founded in 1984, CHINT is a leading global provider of smart energy solutions. It is actively deploying “4+1” industrial sectors including smart electrics, green energy, industrial control and automation, smart home and incubator, forming an integrated whole industry chain of “power generation, storage, transmission, substation, distribution, sales and consumption”. And it boasts an extensive business network across over 140 countries and regions as well as more than 30,000 employees and an annual sales revenue of over USD 11.4 billion. CHINT has been ranking among China’s Top 500 companies for 18 consecutive years. Its subsidiary, CHINT Electrics is the first company in China with low-voltage electrics as its main business getting listed on the A-share market as one of the Top 50 Asian listed companies.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted “One Cloud & Two Nets” as the business strategy. CHINT Cloud fulfills digital application and services in both

internal and external as the platform of intelligent technology and data application. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end users, by building a regional smart energy operation ecosystem.

ONE CLOUD & TWO NETS STRATEGY



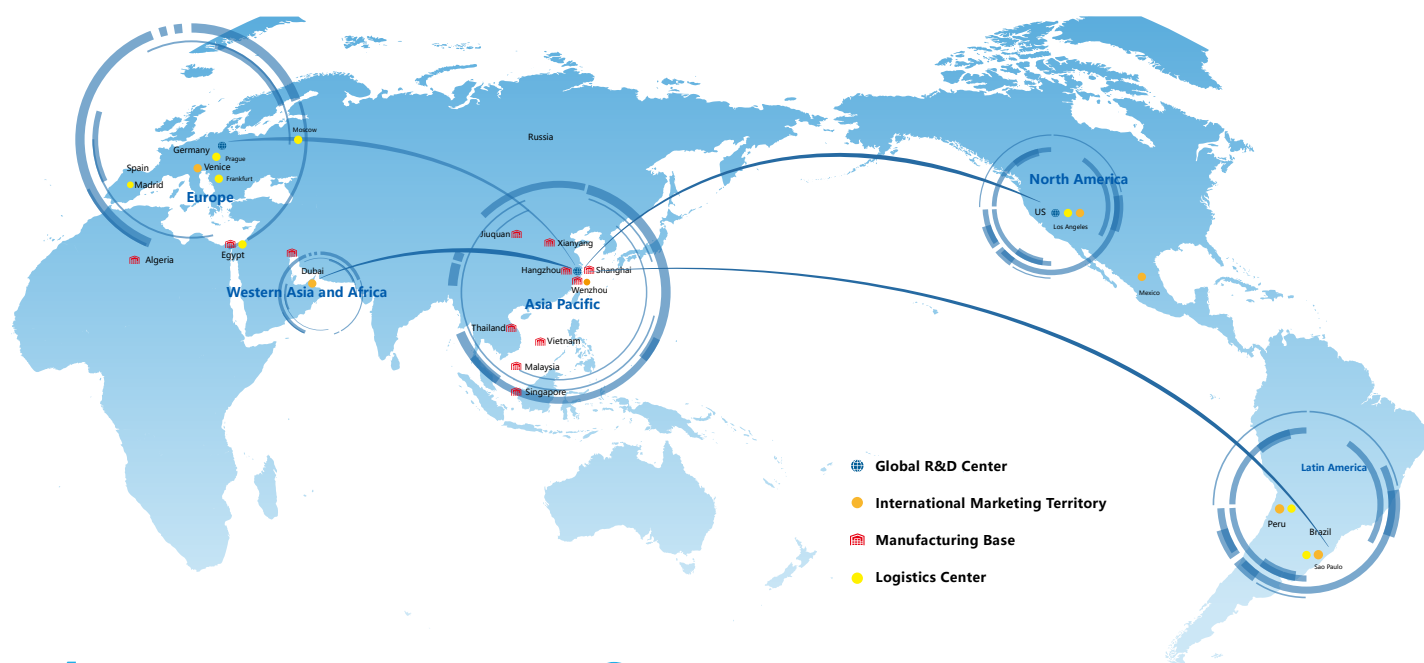
Energy system optimization is an inevitable trend against the background of resource shortage, environmental pollution and climate change – three challenges faced by global energy development. To keep in line with the trend, CHINT actively implements the business strategy of One Cloud & Two Nets, continuously promotes the deep integration of big data, IoT, AI and manufacturing industry in stages to become a platform-based enterprise, and leads the new direction of industry development.

As a medium of smart technology and data applications, CHINT Cloud connects corporate in-house manufacturing with operation and management data, realizing digital applications and services both internally and externally.

As a user-centric multi-energy complementary smart energy system, CHINT EIoT provides a package of energy solutions for governments, industrial & commercial users and end users. Its business includes Smart Energy Efficiency, Smart Power, Smart Home and Smart Clean Energy, etc.

As a smart manufacturing system based on corporate digital transformation, CHINT IIoT constitutes a flexible, high-efficiency and intelligent industrial system. Its business includes Intelligent Manufacturing, Intelligent Industry, Smart Water, Smart Heating, etc.

GLOBAL FOOTPRINT



4 International R&D Centers:
North America, Europe, Asia Pacific, North Africa

6 International Marketing Territories:
Asia Pacific, Western Asia and Africa, Europe, Latin America, North America, China

12 Manufacturing Bases:
China (Wenzhou, Hangzhou, Shanghai, Jiaxing, Xianyang, Ji'nan), Thailand, Singapore, Vietnam, Malaysia, Egypt and Algeria

20+ International Logistics Centers

22 Global Subsidiaries

2000+ Sales Companies

GLOBAL CAPACITY LAYOUT

The industrial manufacturing bases are mainly located in Wenzhou, Hangzhou, Shanghai, Jiaxing and Xianyang. Additionally, CHINIT has set up factories in Thailand, Egypt, Singapore, Vietnam, Malaysia, etc.



Egypt Production Base



Vietnam Production Base



Malaysia Production Base



Thailand Solar Power
Production Base



Singapore Complete Electric
Equipment Production Base



Shanghai Production Base



Hangzhou Production Base



Wenzhou Production Base



Jiaxing Production Base



Xianyang Production Base

R&D, QUALITY, SALES, LOGISTICS

By providing reliable products and service for clients, CHINT puts forward the concept "Great Quality." Quality control and upgrade is divided into four systems: scientific research, quality control, marketing service and logistics distribution. These methods and strategies make a comprehensive upgrade to product quality and services. Emphasis on "prevention first, continuous improvement" is the basis of an effective quality inspection system. Leading the management process of "Great Quality" in the production process controls each link of production accurately and realizes the institutional operation of quality improvement.

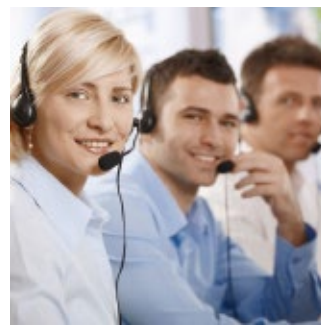
"Great Quality" is not just a slogan, but a belief rooted in each employee's work. High-quality and accuracy are the basic requirement. Starting from a routine operation by each staff to implementing a high-quality of production and service, CHINT is your most reliable partner.

Service Concept

Sincerely care for customers, quality creates value

Service Purpose

Innovative and progressive, satisfying the customers



Integrated Vertical R&D

By gathering the global industry elites to Provide safe and stable energy-saving green and advanced electric products.

5%

At least 5% of revenue is invested in research and development

Great Quality System

Ensuring flaw-free and trouble-free products, the multi-dimensional and multi-level control is conducted through procurement, inspection, quality control and certification.

One-stop Services

CHINT's concept is that it is not difficult to fulfill a high-quality logistics distribution at one time, while it is difficult to stay as accurate and prompt as the first-time. High-efficiency and high-precision accuracy are our requirement.

48-Hour Response

Providing end-to-end one-stop services for customers with complains, business consulting and technical support by solving problems immediately and including any possible problems in advance.



NCZ2

Series DC contactors



NCZ2

1.Product overview

Main purpose and range of application

NCZ2 series high voltage DC contactors are suitable for dc systems with working voltage less than 900V and working current of 50A~350A, which are mainly applied to DC charging piles for Electric vehicle.

Product features

- Products are equipped with polar and non-polar, with auxiliary contact (NO or NC,),without auxiliary contact and other structures.
- Various current specifications, from 50A to 350A,so that customers have more options with the structures.
- Nitrogen-filled protective contact and magnetic steel arc blowing device offers a high voltage DC cutting and a higher protection grade.
- Flame retardant material is able to pass 960° C hot wire test and complies with RoHS standards.

- Epoxy glue seals the whole product within the body cavity and the product is filled with positive pressure gas, thus has strong sealing.
- The product has the characteristics of small volume, high transmission power, environmentally friendly, strong security and high reliability.

Protection grade

Product contact part seal meets IP67 requirements

Application for certification

CCC

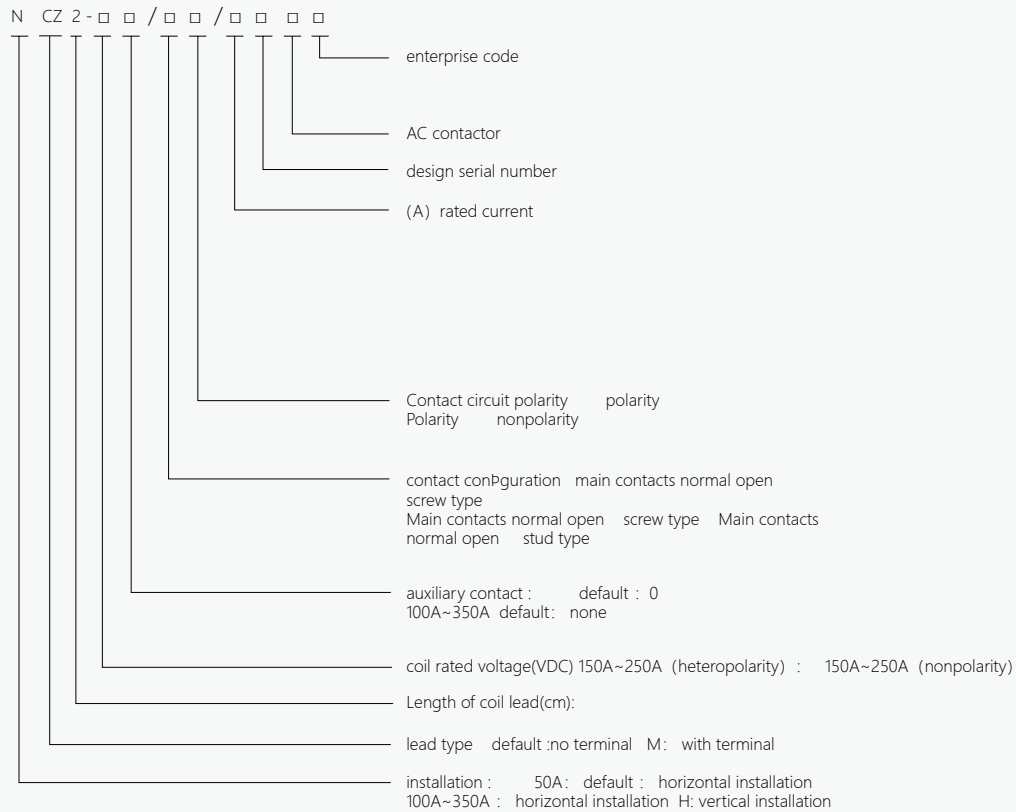
Standard

GB/T 14048.4 and IEC60947-4

Note (1)

For other application requirements, please consult sales hotline or market strategy department first.

2. Specifications and meanings of series models



Note: The 100A non-polar product is only suitable for the series without auxiliary switch
 The ultimate pull-in voltage of 12-36V products is 9-36V
 The ultimate pull-in voltage of 48-72V products is 32-95V

3 Normal use, installation and transportation conditions

3.1 normal conditions of use

Ambient air temperature

The upper limit shall not exceed +85 °C , and the lower limit shall not be less than -40°C

Humidity

When the highest temperature is +40 °C , the relative humidity of the air does not exceed 50%. Higher relative humidity can be allowed at a lower temperature. When the monthly average

minimum temperature is +20 °C , the monthly average maximum relative humidity is 90%. Special measures should be taken for occasional condensation due to temperature changes

Installation location

Within an altitude of 2000m

Pollution level

III

3.2 Installation condition

Use washers to prevent loose screws when installing contactors

The torsion range of tightening screws is specified in Table 1, torsion more than the maximum value may result in product rupture.

5 Vertical installation, the angles between mounting surface and any other directions should be within 5

There should be no significant impact, vibration and conductive dust at the installation place

Table1 Installation torque range

specification (A)	contact torque(N.m)	installation point torque(N.m Max)
50	2 ~ 3 (M4 nut)	2.3
100	3 ~ 4 (M5nut)、 3 ~ 4 (M5screw)	2.3
150 ~ 350	6 ~ 8 (M6 screw) 、 8 ~ 10 (M8 nut)	1.7 ~ 3.5

3.3 transportation condition

Product storage and transportation environment should be dry and ventilated, without significant impact vibration, direct sunlight, rain, dust, chemical gas corrosion and other conditions

model			NCZ2-50	NCZ2-100	NCZ2-150	NCZ2-200	NCZ2-250	NCZ2-300	NCZ2-350
Contact parameter	Contact mode		1H（SPST-NO）						
	Ratedloadcurrent(A)		50	100	150	200	250	300	350
	Minimum applicable load (resistive load)		1A/12VDC						
	Maximum cut-off current		250A (320VDC) 1	1000A (320VDC) 1	1500A (320VDC) 1	2000A (320VDC) 1	2000A (320VDC) 1	2500A (320VDC) 1	2500A (320VDC) 1
	Switching voltage		12~900VDC						
	Contact voltage drop (initial)		≤80mV						
Electrical Performance	Insulation resistance		Above 100MΩ（500VDC）						
	dielectrics voltage-resistance	among disconnect contacts,	2200VAC 50 Hz/60 Hz（1 min）						
		among secondary	/	1000VAC 50 Hz/60 Hz（1 min）					
	actuation time(at 20°at rated voltage)		≤30ms（excluding bouncing time）						
	release time(20°at rated voltage)		≤10ms						
	bouncing time(20°at rated voltage)		≤5ms						
shock resistance	(11ms,1/2Sine wave, peak, suction))		≤20G						
Vibration resistance			10Hz~500Hz 49 m/s ² （above 5G）						
life	electrical life(pure resistance load (b)		above 6,000 times（@50A	above 6,000 times（@100A	above 6,000 times	above 6,000 times（@200A	above 6,000 times（@250A	above 6,000 times（@300A	above 6,000 times（@350A
	机械寿命 Mechanical life		above 300,000 times						
Weight			About 115g	about180g	About 450g(with circuit board products);			About 650g	

Table 3 Coil parameters (single coil products)

Model	coil voltage (V)	coil operating voltage (V)	coil power (w)
NCZ2-50P	12、24、48	0.85Us~1.1Us	3~5
NCZ2-100			5~7
NCZ2-150、200、250			12~15

Table 4 Coil parameters (wide voltage products)

Model	coil voltage (Vc)	starting current (A)	holding current (A)
NCZ2-150、200、250	9~36	3.8	0.160@12V
			0.08@24V
	32~95	1.4	0.04@48V
NCZ2-300、350	9~36	3.8	0.160@12V
			0.08@24V
	32~95	1.4	0.1@48V

FIG. 1
Main technical parameters NCZ2-50 (Load life diagram)

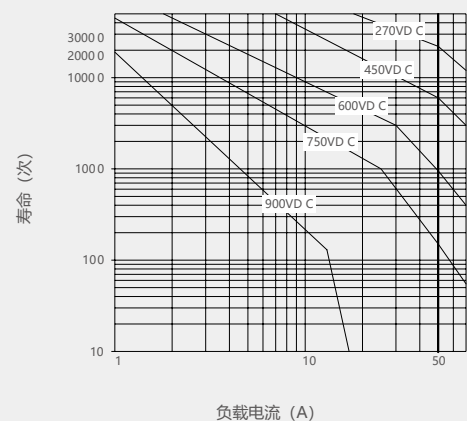


FIG. 2
Main technical parameters NCZ2-100 (Load life diagram)

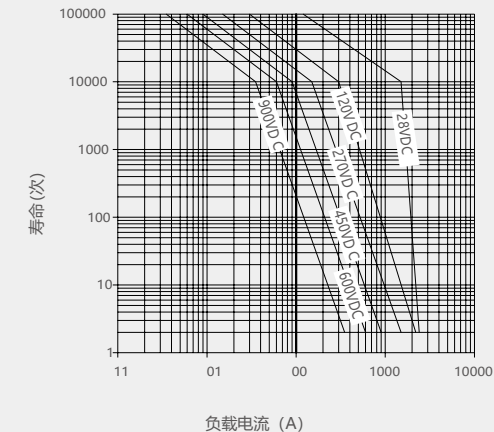


FIG. 3
Main technical parameters NCZ2-150 (Load life diagram)

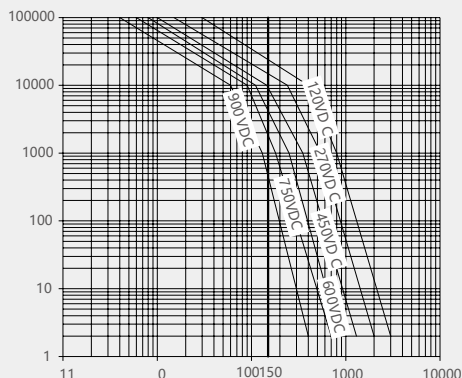


FIG. 4
Main technical parameters NCZ2-200 (Load life diagram)

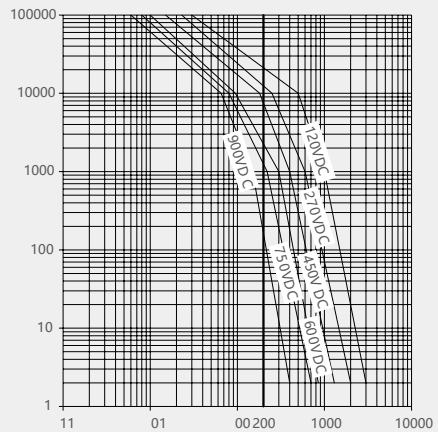


FIG. 5
Main technical parameters NCZ2-250 (Load life diagram)

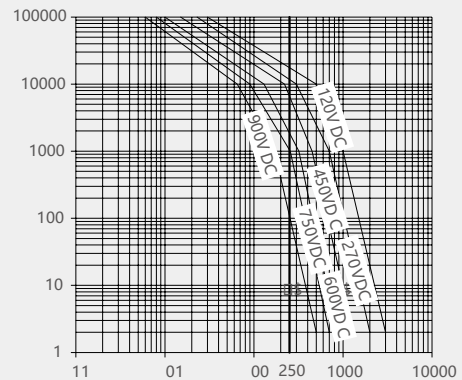


FIG. 6
Main technical parameters NCZ2-300 (Load life diagram)

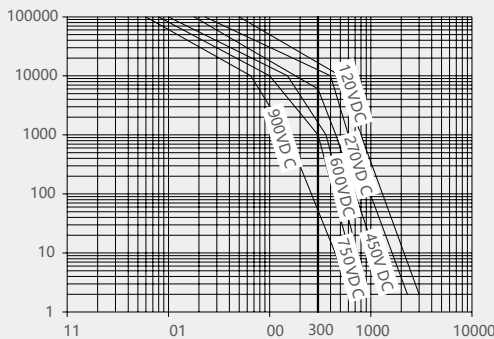
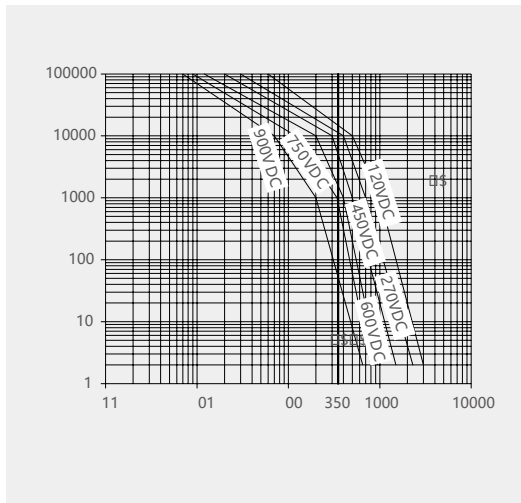


FIG. 7
Main technical parameters NCZ2-150 (Load life diagram)



5 Structural characteristics and working principle

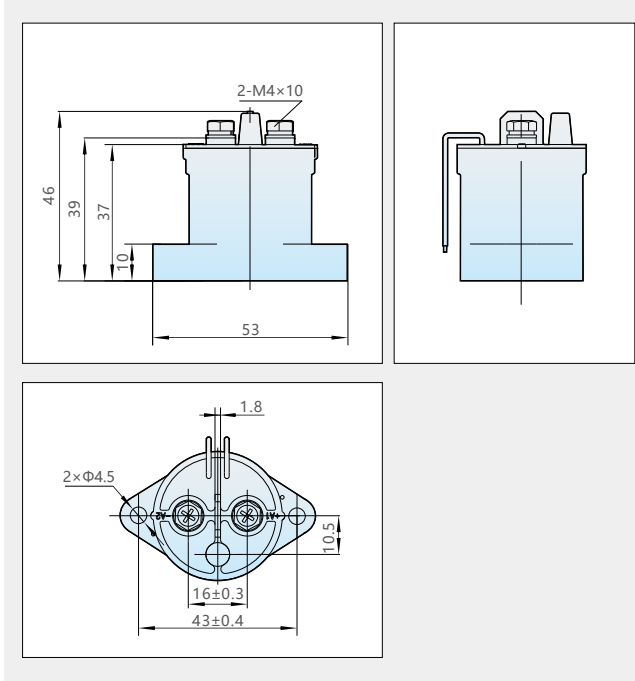


When the coil is energized, the coil current will generate a magnetic field and generate enough electromagnetic suction to overcome the reaction force, so that the static core will generate electromagnetic suction to attract the moving core, and the moving core will push the moving contact until it contacts the static contact, so that the contact is connected. When the coil voltage disappears or the coil voltage decreases to a certain value, which is called the release voltage, the moving core is released by the return spring, and the contact will then be separated.

6. Outline, installation dimensions and circuit schematic diagram

(1) Outline drawings and installation dimension diagrams of NCZ2-50P are shown in Figure 8

FIG. 5
Main technical parameters NCZ2-250 (Load life diagram)



(2) Outline drawings and installation dimensions diagrams of NCZ2-100 are shown in Figure 9 and Figure 10

Fig9
Outline drawings and installation dimension diagrams NCZ2-100 (P)/E/

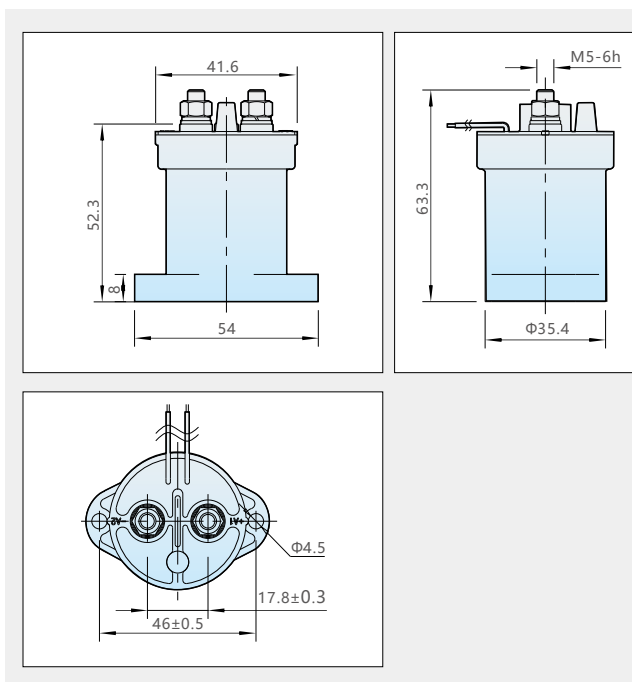


Fig10
Outline drawings and installation dimension diagrams of NCZ2-100 (P)/E/ H

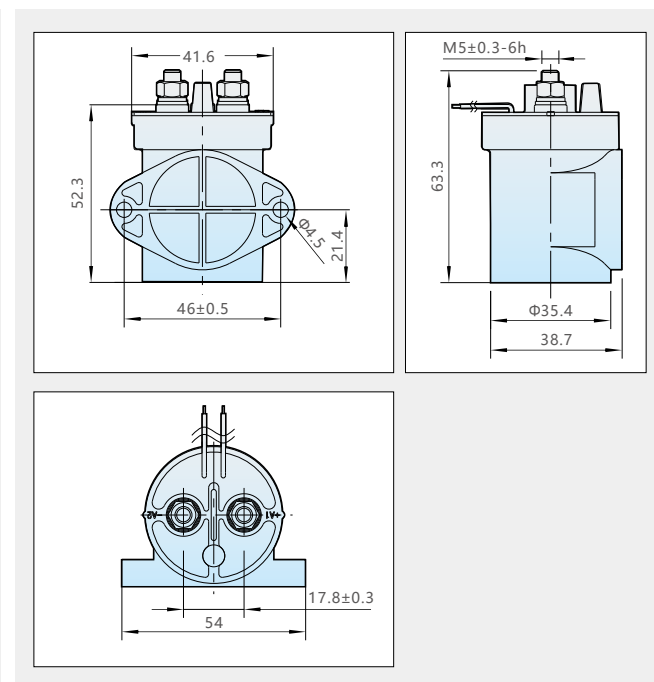


Fig11
Outline drawings and installation dimension diagrams of NCZ2-100P/E/

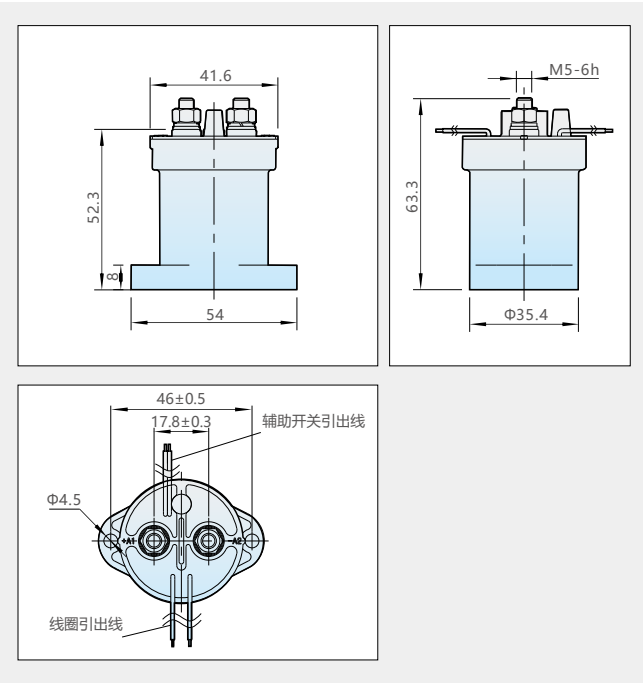


Fig12
Outline drawings and installation dimension diagrams of NCZ2-100P/E/ H

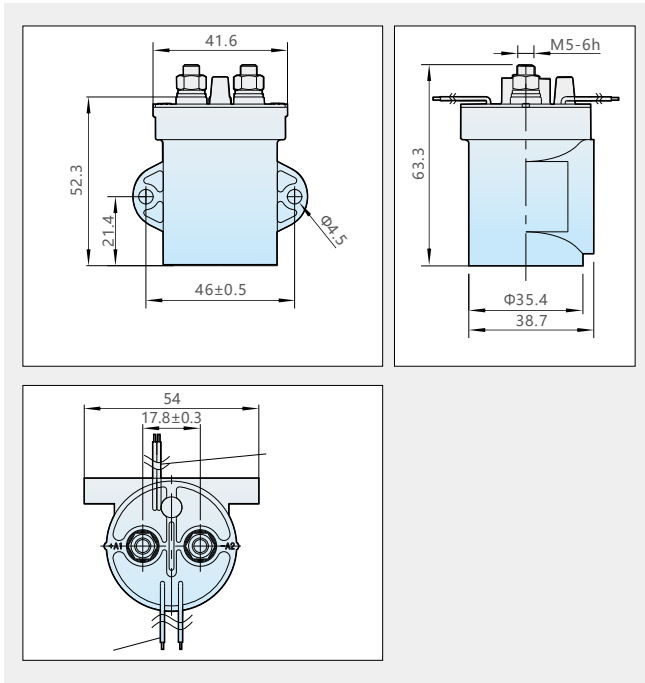


Fig13
Outline drawings and installation dimension diagrams of NCZ2-100 (P)/D/

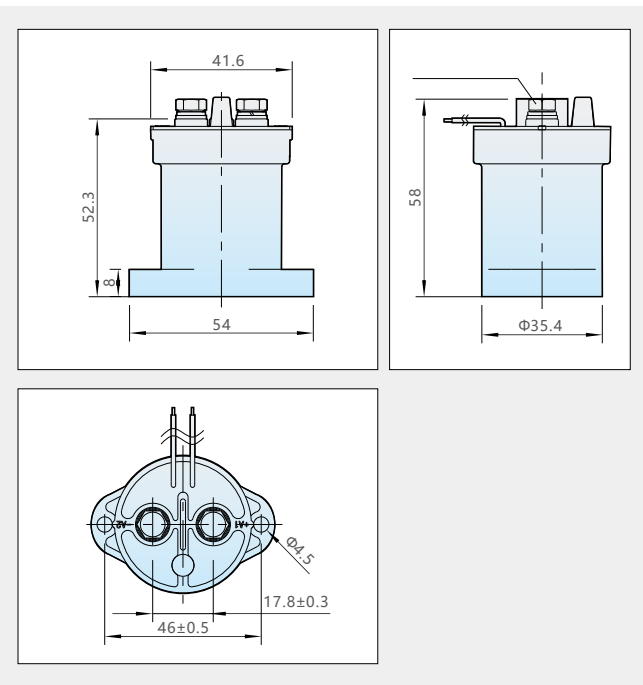


Fig14
Outline drawings and installation dimension diagrams of NCZ2-100 (P)/D/ H

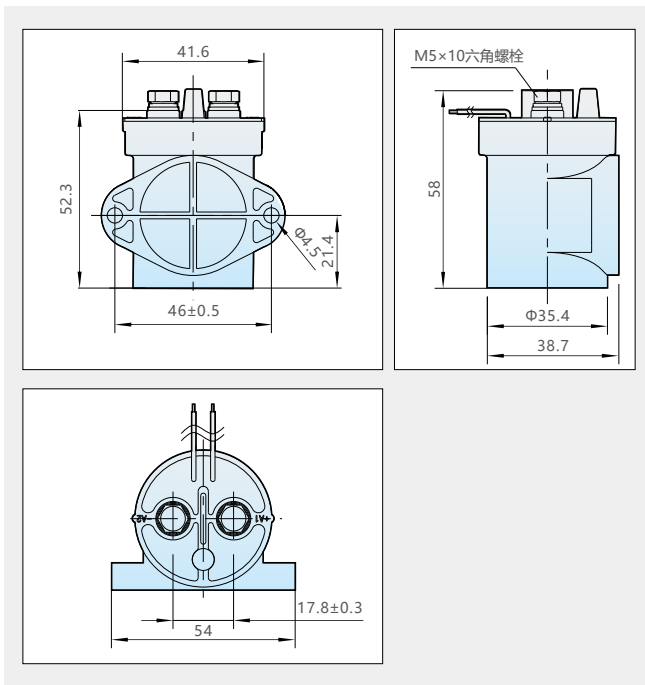


Fig15

Outline drawings and installation dimension diagrams of NCZ2-100P/D/

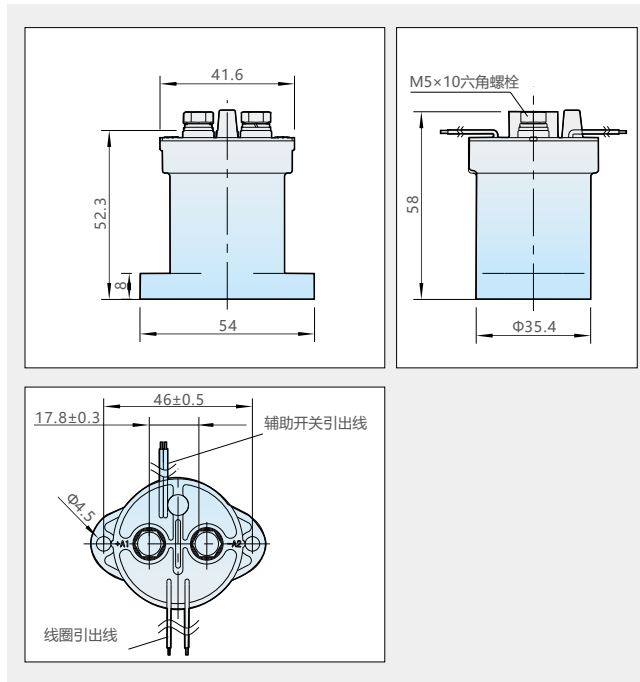
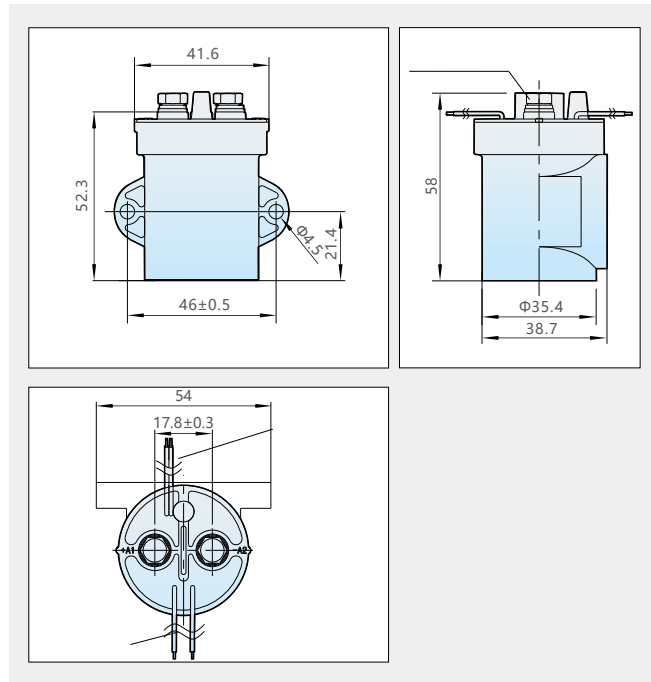


Fig16

Outline drawings and installation dimension diagrams of NCZ2-100P/D/ H



(3) Outlines and installation dimensions of NCZ2-150, 200, and 250 are shown in Fig 17-32

Fig 17

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/A, B

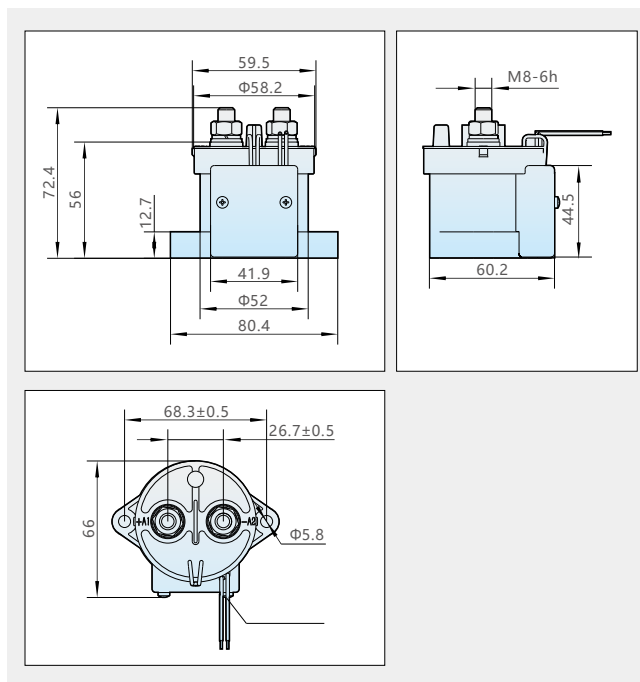


Fig 18

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/ A, BH

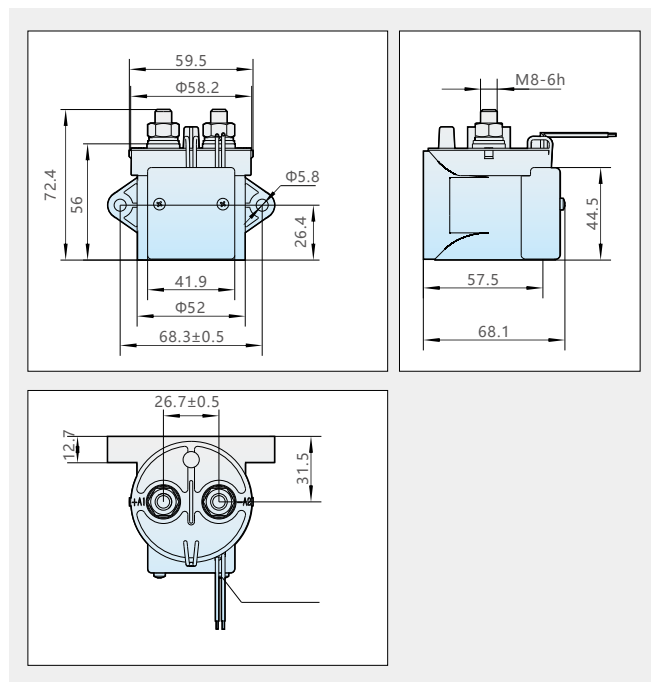


Fig 19
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/ A, B

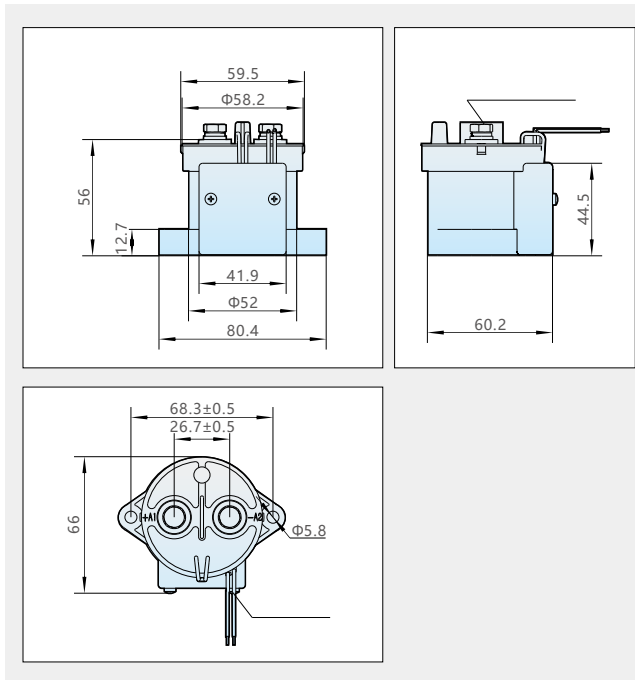


Fig 20
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/ A, BH

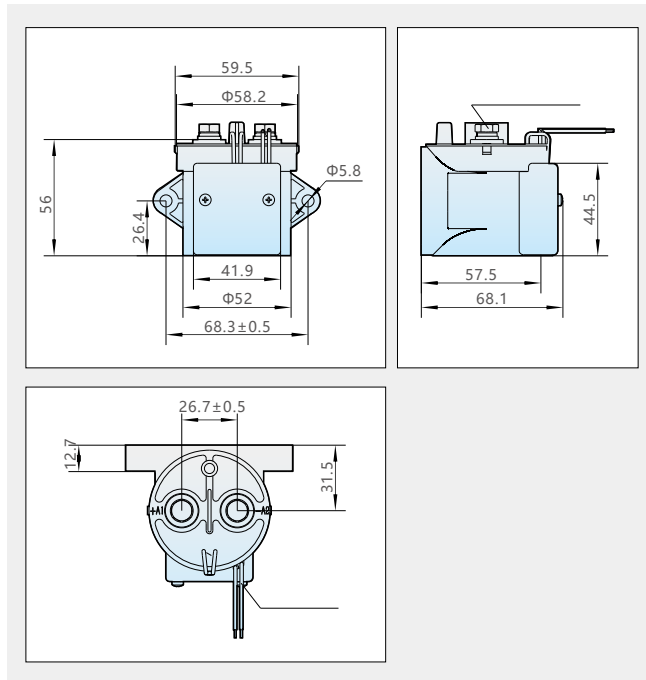


Fig 21
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/ A, B

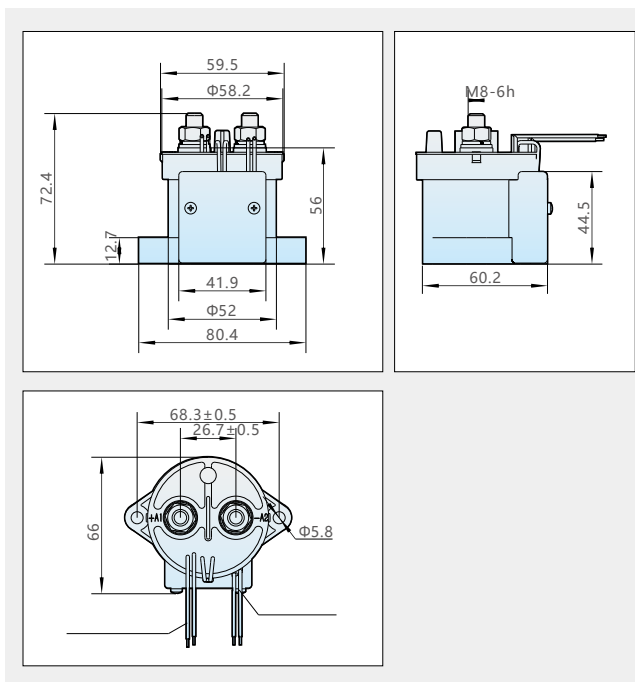


Fig 22
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/ A, BH

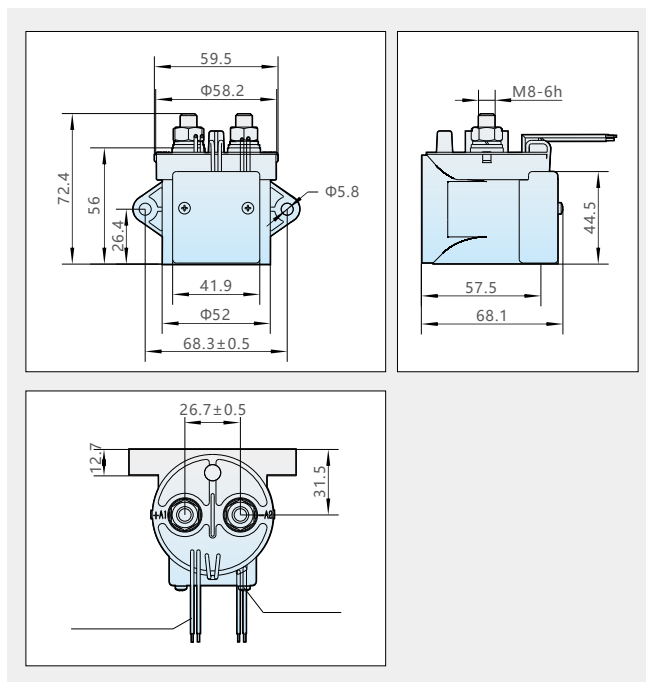


Fig 23
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/ A, B

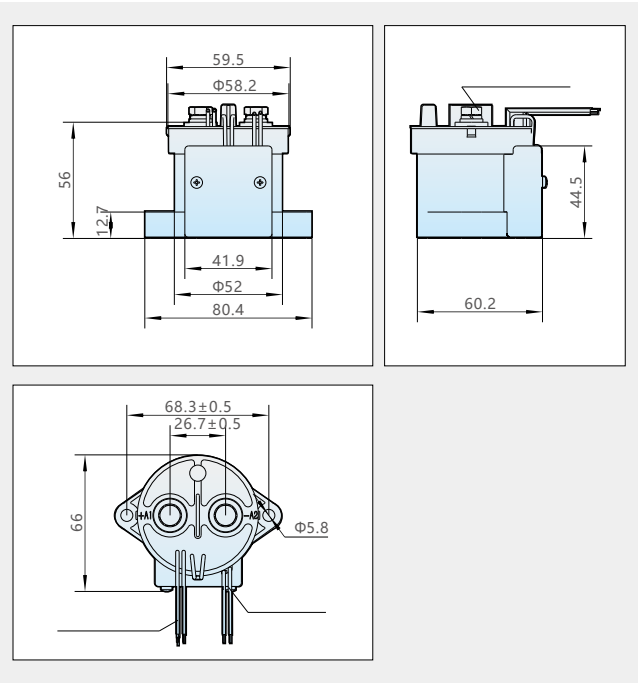


Fig 24
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/ A, BH

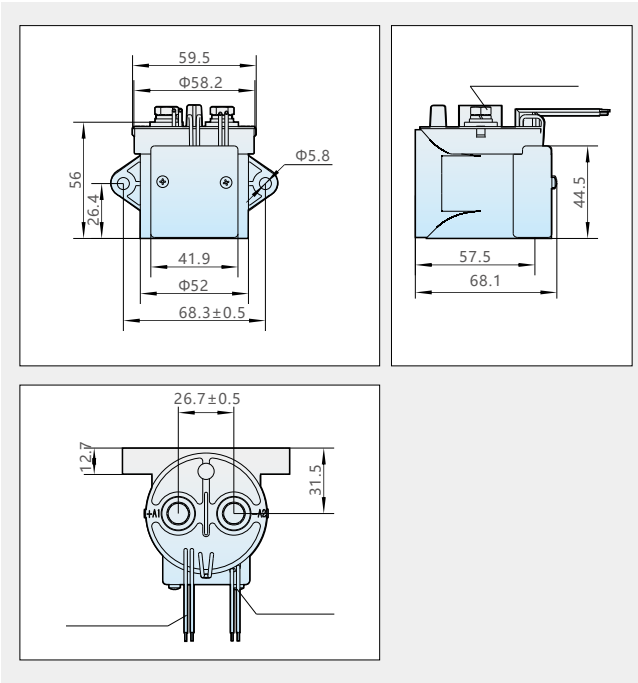


Fig 25
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/ 12, 24, 48

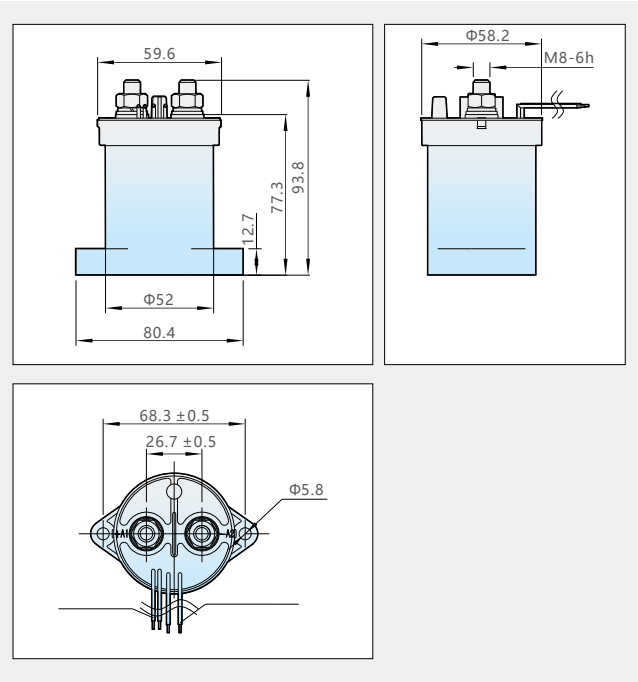


Fig 26
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/ 12, 24, 48H

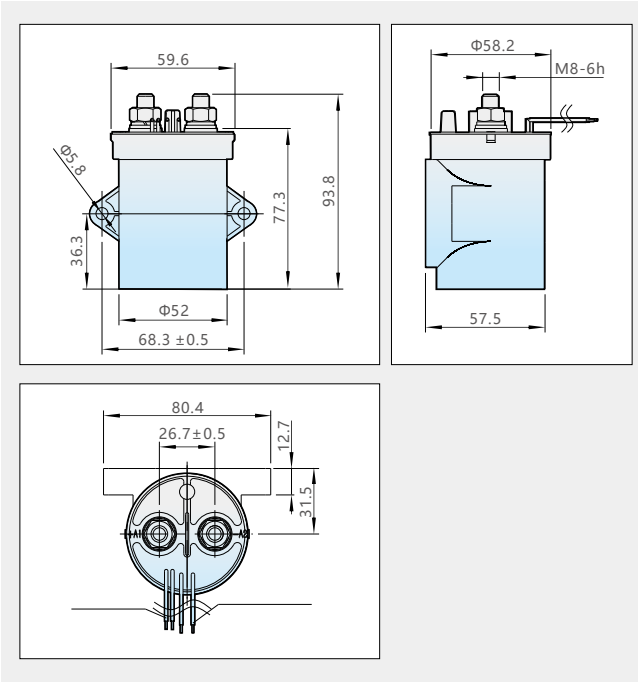
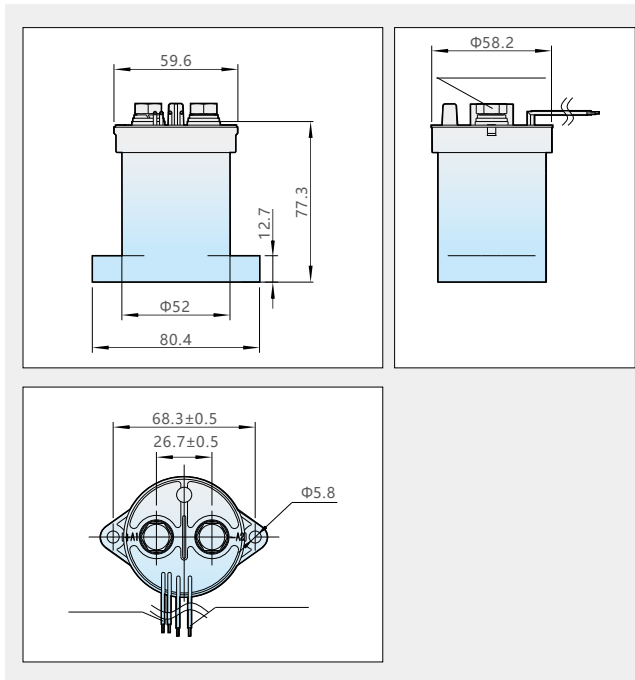
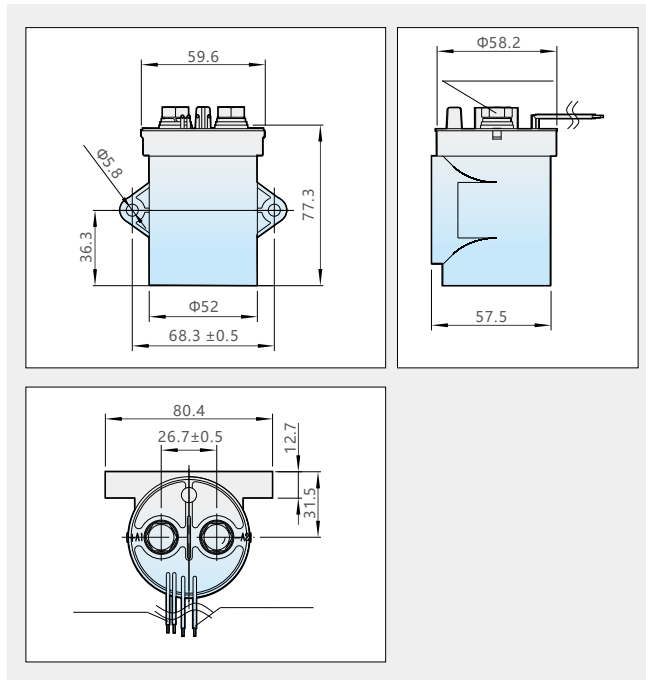


Fig 27

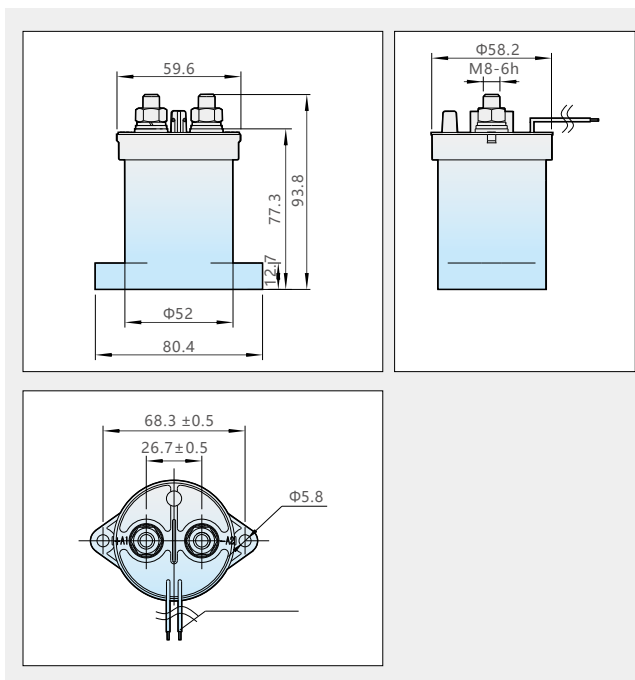
Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/12, 24, 48

**Fig28**

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/D/12, 24, 48H

**Fig 29**

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/12, 24, 48

**Fig 30**

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/12, 24, 48H

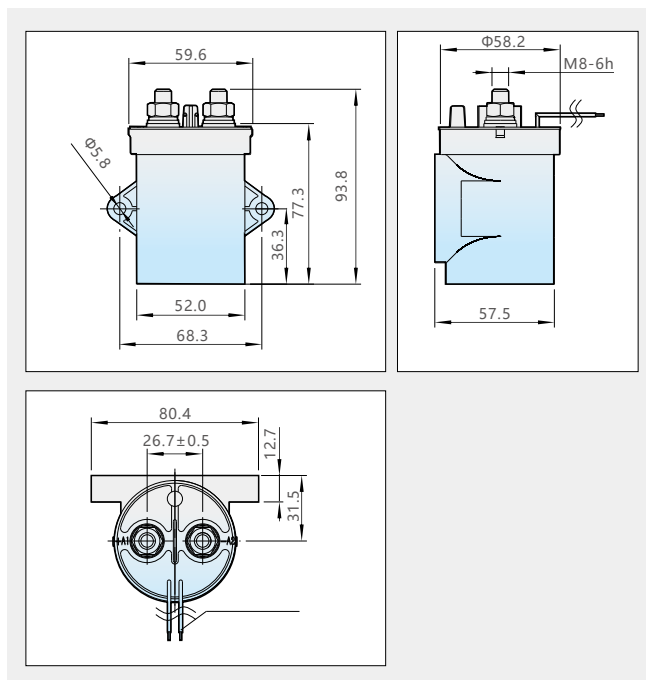


Fig 31

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/12, 24, 48

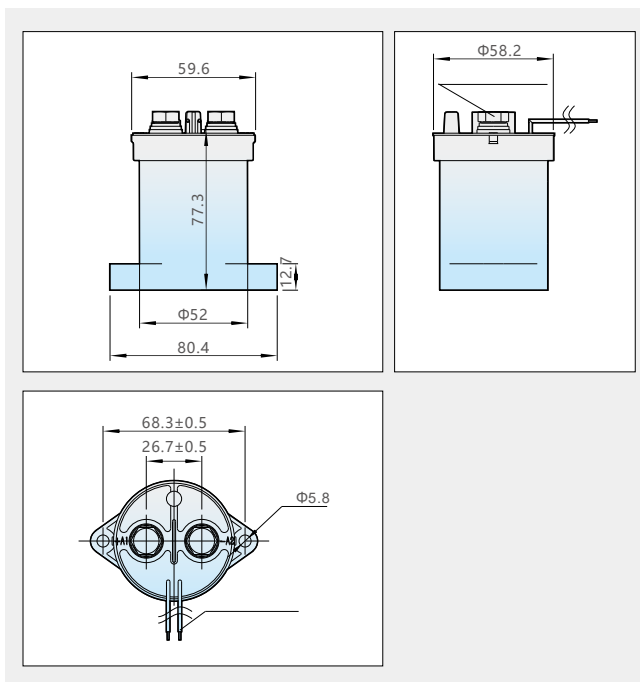
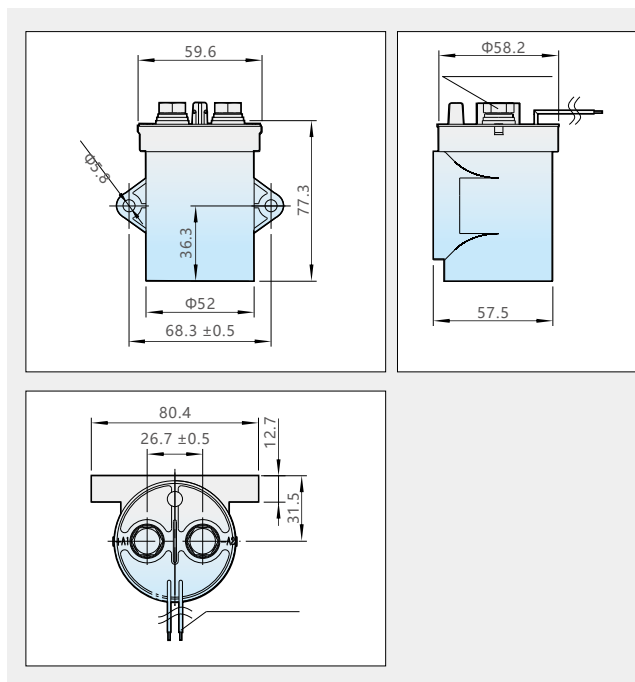


Fig 32

Outline drawings and installation dimension diagrams of NCZ2-150, 200, 250 (P)/E/12, 24, 48H



(4) Outline drawings and installation dimension diagrams of NCZ2-300, 400 are shown in Fig 33-40

Fig33

Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/E/

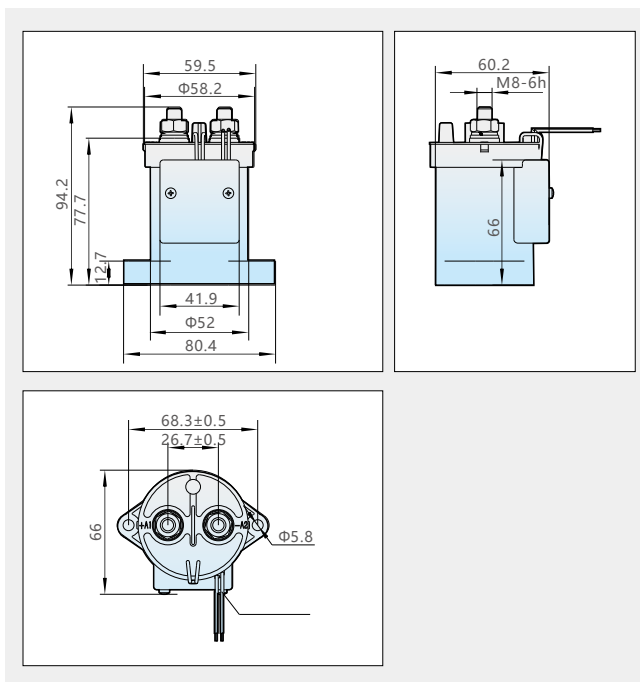


Fig 34

Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/E/ H

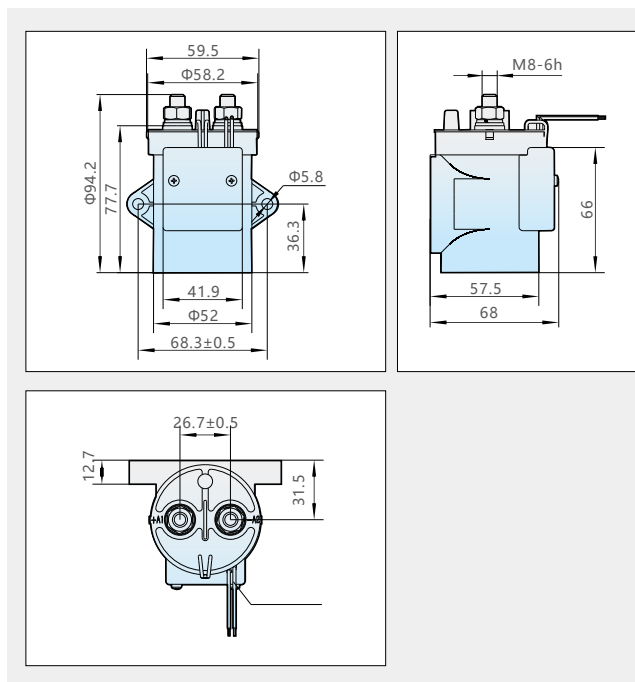


Fig 35
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/E/

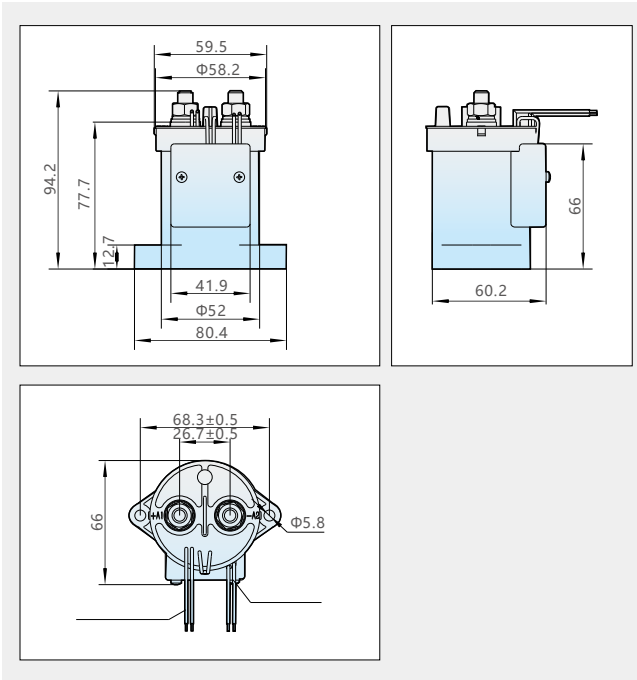


Fig 36
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/E/ H

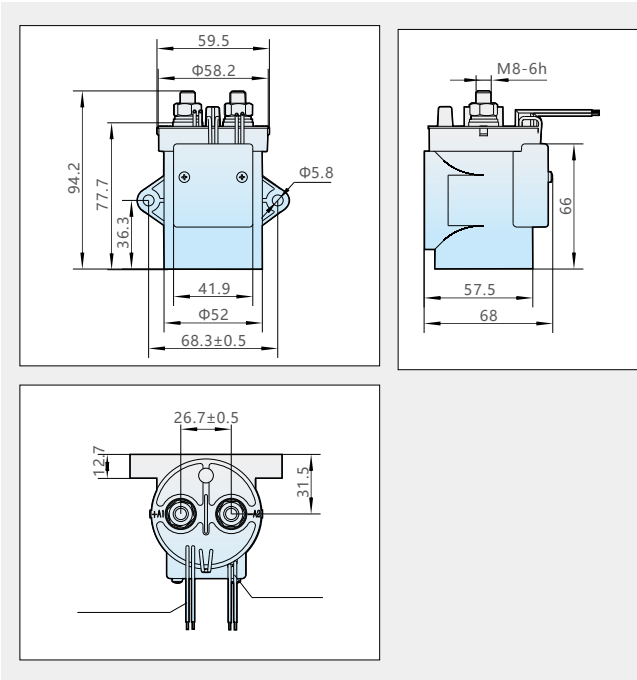


Fig 37
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/D/

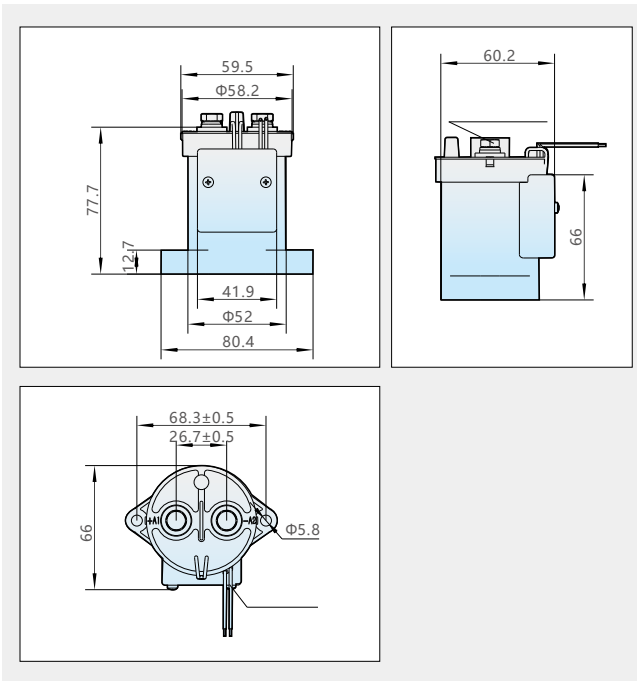


Fig 38
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/D/ H

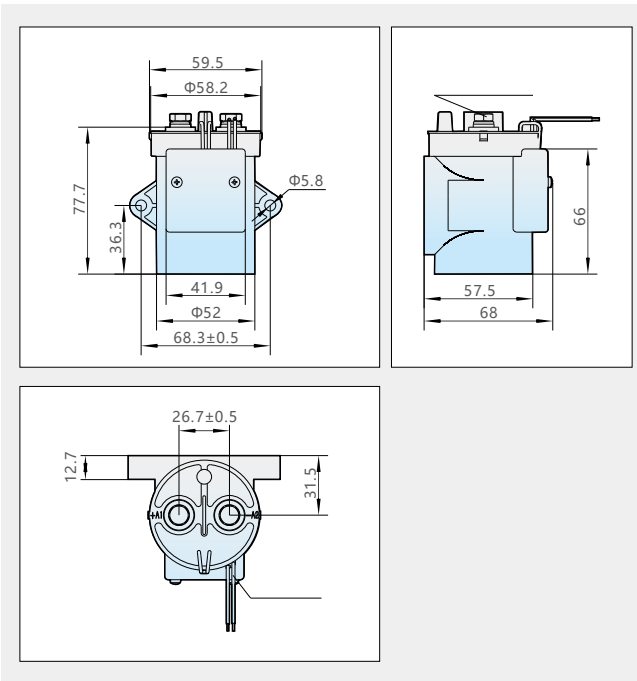


Fig 39
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/D/

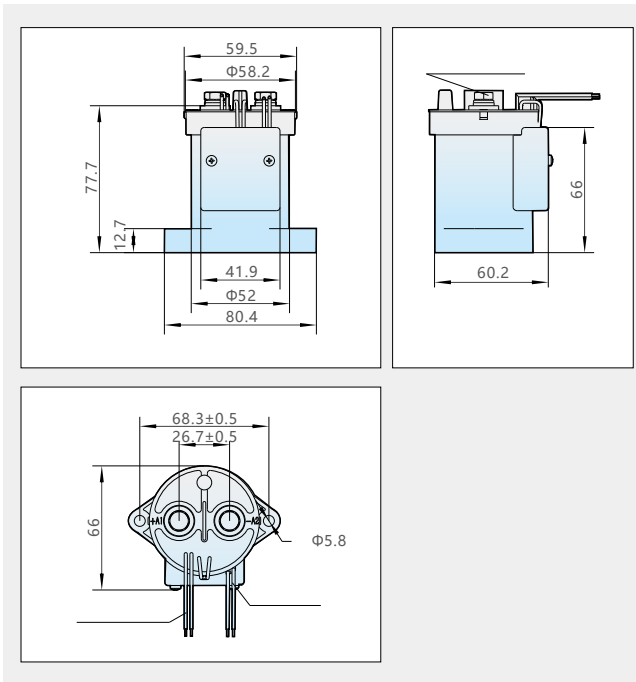
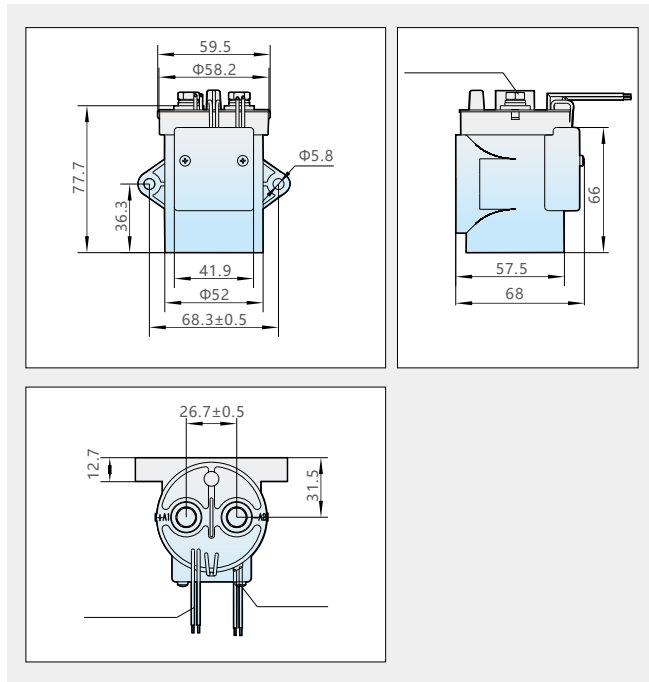


Fig 40
Outline drawings and installation dimension diagrams of NCZ2-300, 350 (P)/D/ H



(5) Circuit schematic diagrams are shown in Figure 41~ figure 44

Fig41
Single coil polar products
circuit schematic diagram

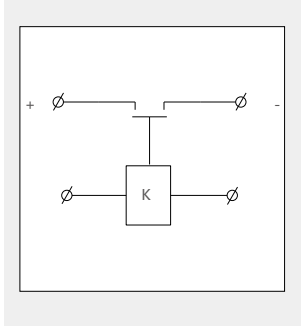


Fig42
Single coil nonpolar products
circuit schematic diagram

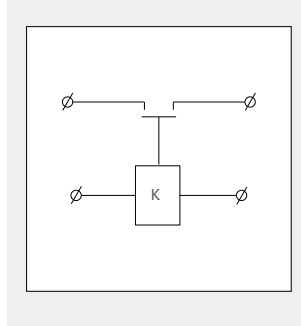


Fig43
Wide voltage polar products
circuit schematic diagram

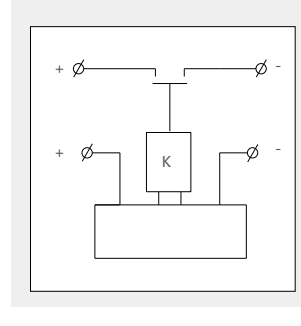
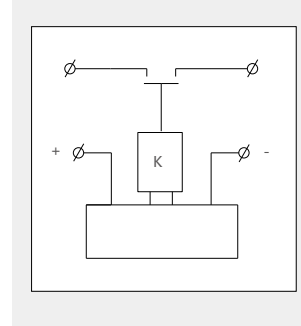


Fig44
Wide voltage nonpolar products
circuit schematic diagram



Note

1. The appearance and installation dimensions of the product with and without auxiliary switch are the same;
2. The red lead wire of the product coil is connected with "+", the black lead wire is connected with "-", and the white lead wire is non-polar;

3. Main contact of product that is marked as +A1 next to terminal should be connected to + pole of loads, main contact of product that is marked as -A2 next to terminal should be connected to - pole of load;

4. Products that labeled "A1" and "A2" next to the main contact terminal are non-polar.

7. Accessory

NCZ2 DC contactor series connector model for products with plug

- Socket model: SM-2Y-HW
- Terminal model: SM-HW
- Adapter plug model: SM-2A-HW
- Model of adapter terminal: SMY-HW

The corresponding relationship between the two pin holes of the connector and the lead wire of the coil

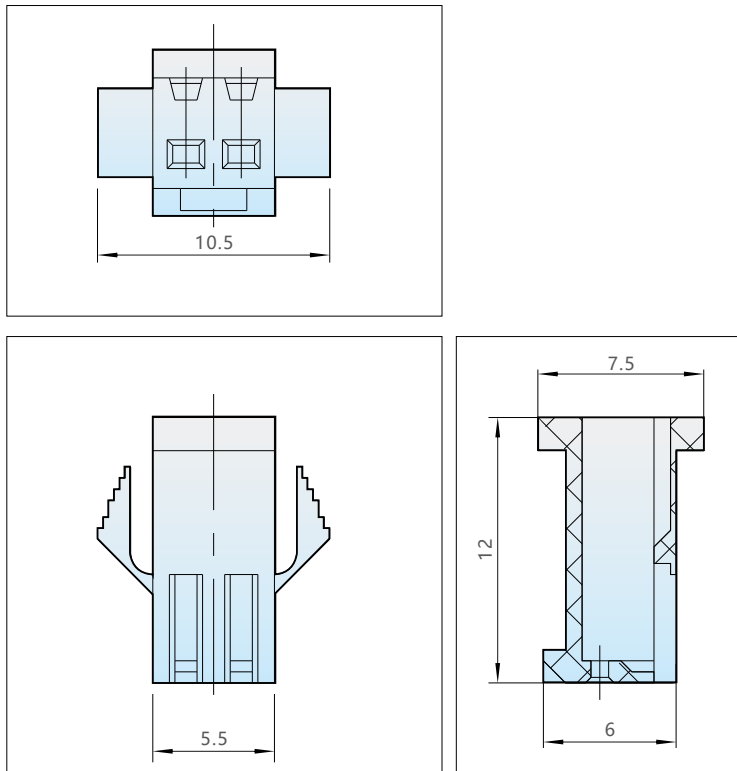
- 1: coil lead wire "+" end, red wire;
2: coil lead wire "-" end, black wire

Note

Plug is optional, not standard.

Fig 45

XX



8 . Installation, debugging and operation

1. Check whether the actual use of the contactor meets its purpose and scope of application, technical parameters and normal working conditions and installation conditions before installation. During installation, attention should be paid to whether the positive and negative polarity of the main contact meets the installation requirements and whether the installation torque is set within the qualified range.

2. When connecting wires to the contactor, use an appropriate screwdriver. Wires should not be loosen or pulled out and copper wires can not be exposed at terminal . After checking the wiring is correct, the coil should be on power and off power for several times to check whether the product action is reliable before it can be put into use.

3. The main contact of the contactor is polar, so when connecting the contact point, it should be connected according to the polarity mark on the end cover of the product.

4. Do not use products that fallen before.

5. Avoid installing the product in somewhere with strong magnetic field (near transformer or magnet), or near objects with thermal radiation.

6. Electrical life:

The contactor is a high voltage DC switch, and in its final breakdown mode, it may lose its cut-off function, so do not use it in a state that exceeds its switching capability and life parameters (please treat the contactor as a product with a specified life and replace it if necessary). Once the contactor loses the ability to disconnect, it may cause combustion of parts around it, so it is necessary to design a good circuit diagram to ensure that the power supply can be cut off within 1 second.

7. Diffusion lifetime of internal gas: the contactor uses sealed chamber contact, chamber is filled with gas, the diffusion lifetime of gas depends on the temperature in the contact chamber (that is, the ambient temperature plus increased contact energized temperature) .Just ensure that the ambient temperature is -40 to +85°C .

8. If the coil and contact of the contactor are connected with rated voltage continuously (or current), after the power is cut off and on immediately, at this time due to the increase of coil temperature, the coil resistance will increase, which will make the pull-in voltage of this product. It may cause pull-in voltage go beyond rated voltage. In this case, the following measures should be taken: Such as reducing the load current, limiting the duration continuous switch-on or using a coil voltage higher than the rated pull-in voltage.

9. In case of resistive load, the rated parameters of main contact are applicable. If inductive load (L load) is used and $L/R > 1$ ms, an inrush current protection device should be connected to the inductive load in parallel.

10. The power of drive circuit of the coil must be greater than or at least equal to the power of the coil, otherwise the cutting off ability of the product will be reduced.

11. Avoid debris and oil stains on the static terminal, and the external terminal must be connected with the main lead end of the product effectively, otherwise it may cause serious heating at the static terminal. At the same time, the lead wire connected to the product must reach a regular conductivity to prevent overheating, which affects the life.

9 .Product selection and ordering instructions

Users should indicate the following contents when choosing NCZ2 series DC contactor, if necessary, offer further indicate the conditions of use, or use requirements

Product name and model
rated operating current and voltage
Static contact loop polarity
Static touch mode
auxiliary touch mode
The coil controls the power supply voltage
Length and type of lead wire of the coil
Installation method

Ordering examples

Ncz2-200p/d10/12I39mh represents: the rated current of the dc contactor is 200A, with polarity, the main contact is normally open (screw type), the auxiliary contact is 1 that means normally open, the rated voltage of the coil is 12VDC, the length of the lead wire of the coil is 39cm, with connection terminals, and the installation mode is horizontal.

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