NO:2024.11

CHINT ELECTRICS

CB-63DC Series
DC Circuit Breaker

User Instruction

Thank you for purchasing this product. Please read the user manual carefully before installing, using or maintaining the product

Standard: IEC/EN 60947-2

Safety Warning

1. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden. It is strictly prohibited to operate the product with wet hands.
2. You are prohibited from touching the conductive part when the product is operating.
3. It is strictly prohibited to test the performance of the product by the direct contact of the live wire against the grounding device or the direct short circuit of the live wire and the neutral wire.
4. When the product is being installed or maintained, the power must be switched off.
5. The protection features of the product are set by the manufacturer. It is not allowed to open or adjust the circuit breaker at will.
6. The product must be wired and installed by qualified personnel and be checked regularly.
7. It is prohibited to let children play with the product or the package.
8. Prevent foreign objects from falling into the product.
9. Do not install the product in places where gaseous media can corrode metals and damage insulation.
10. Tighten the wiring screws when installing the product to prevent wires from loose or being pulled out. Select wires strictly according to instructions and connect them to proper power supply and load.
11. The product cannot protect people from electric shock or against power imbalances.
12. **When installing, strictly follow the "+" and "-" polarities marked on the product. The polarities cannot be reversed.**

This is the general warning sign. It is used to alert the user to potential hazards. All safety messages that follow this sign shall be obeyed to avoid possible harm.

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1 Purpose of Use

The CB-63DC DC circuit breaker is applicable to circuits with rated current up to 63 A and rated voltage up to 500 V. It provides overload and short circuit protection, and can also be used for infrequent switching of the circuit under normal circumstances.

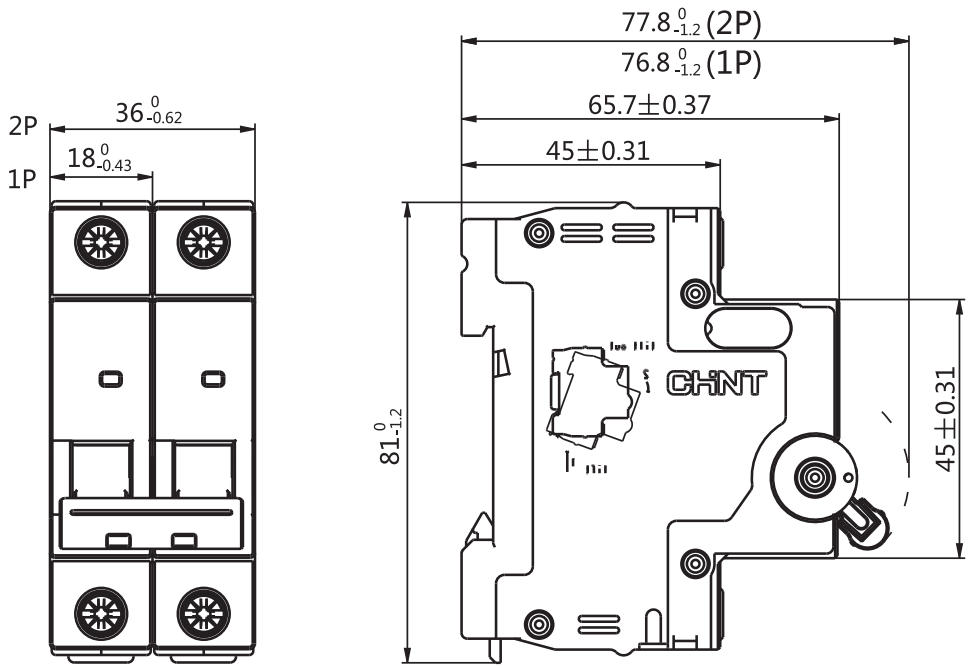
2 Key Technical Parameters

Table 1 Key Technical Parameters

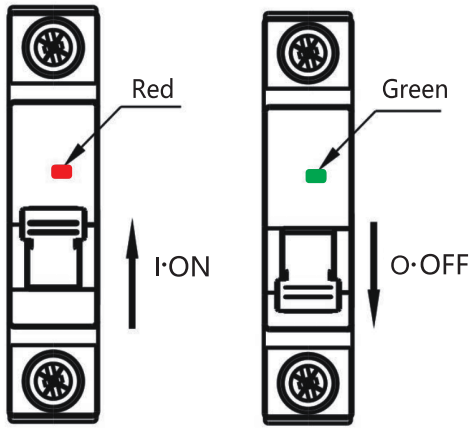
Altitude	≤2000m
Pollution level	Level 3
Installation category	Class II and III
Rated operating voltage Ue(V)	DC 250V (1P) DC 500V (2P)
Rated short-circuit breaking capacity Icu	6kA
Enclosure protection class	IP20

3 Installation

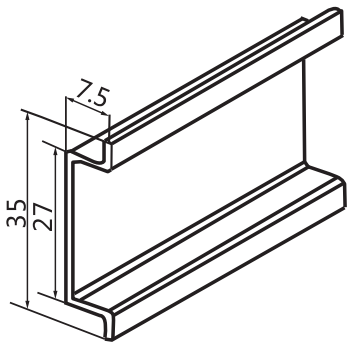
3.1 Outline and installation dimensions (unit: mm)



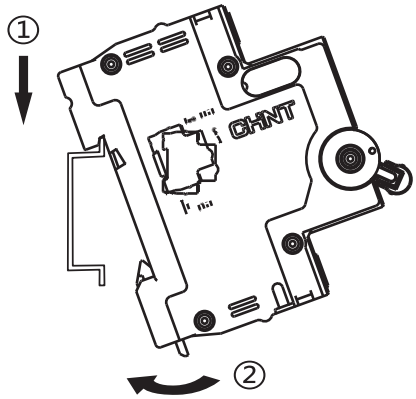
3.2 On-off indication



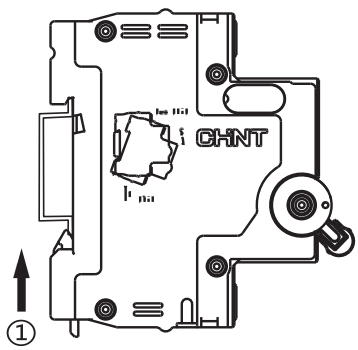
3.3 Installation

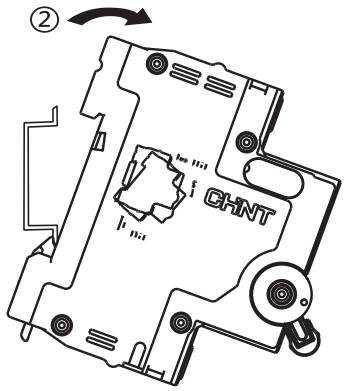


TH35-7.5 type mounting rail



3.4 Disassembly

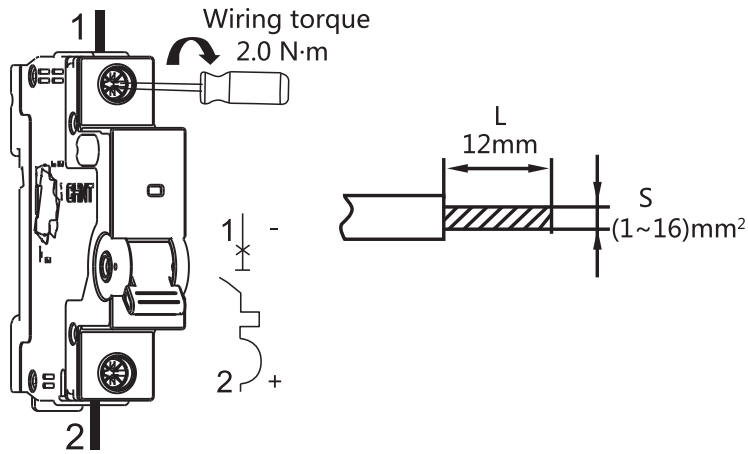


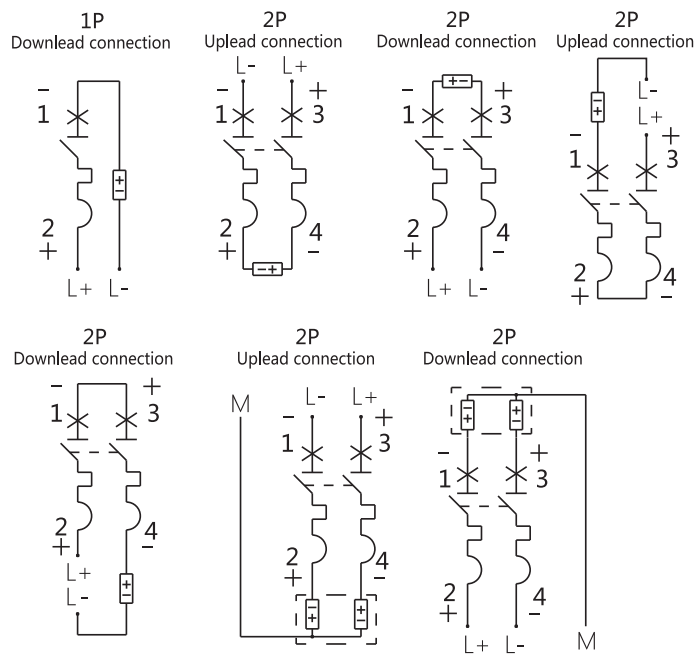


3.5 Wiring: copper wires only

Table 2 Copper wire cross-sectional area

Rated current In (A)	Copper wire cross-sectional area S (mm^2)
1-6	1
10	1.5
16、20	2.5
25	4
32	6
40、50	10
63	16





Notice: 1. L+: Positive pole of power supply, L-: Negative pole of power supply;

2. +: Positive pole of circuit breaker, L-: Negative pole of circuit breaker;

3. ⊣+-⊢ :Load;

4. The DC power supply is usually 'L-' grounded. the pole 'M' of the positive and negative power supply system is grounded.

4 Maintenance

4.1 Check the circuit breaker on a regular basis during operation;

4.2 After the circuit breaker cuts off the overload or short-circuit current, the fault should be eliminated before closing the circuit breaker.

Table 3 Analysis and troubleshooting of common faults

Symptoms	Cause analysis	Troubleshooting method
The lever is unable to close the circuit	Short circuit at load end	Eliminate the fault
	Fault occurs to the operating machanism.	Replace the product
	The rated current of the circuit breaker does not match the load current	Replace the product with one that is of appropriate specifications
Temperature is too high	The wire is loose or not properly fixed by wiring screws	Tighten the wiring screws
	The cross-sectional area of the selected wire is too small	Replace with wire of proper specifications
No power	The length of the stripped wire is too short	Re-strip the wire
	The wire is loose or not properly secured by wiring screws	Tighten the wiring screws

5 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.

CHINT

QC PASS

CB-63DC Series

DC Circuit Breaker

IEC/EN 60947-2

Check 12

Test date:Please see The packing

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CHINT ELECTRICS

CB-63DC Series
DC Circuit Breaker
User Instruction

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