NO:2020.04

CHINT ELECTRICS

NB1-63 Series
Miniature Circuit Breaker

User Instruction

Standard: IEC/EN 60898-1

⚠ Safety Warning

1. The product can only be installed and maintained by professionals.
2. Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
3. When the product is being installed or maintained, the power must be switched off.
4. You are prohibited from touching the conductive part when the product is operating.
5. It is prohibited to let children play with the product or the package.
6. 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.
7. The product cannot protect people from electric shock or against power imbalances.
8. Do not install the product at places where gas media can cause metal corrosion and insulation damage.
9. **The product is not suitable for the direct starting of high-inductive and high-capacity loads, such as fans, electric motors, electric heating equipment, capacitor cabinets, etc.**

1 Purpose of Use

The NB1-63 series miniature circuit breakers are applicable to circuits with frequency of AC 50/60 Hz, rated voltage up to 240/415 V and rated current up to 63 A. 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

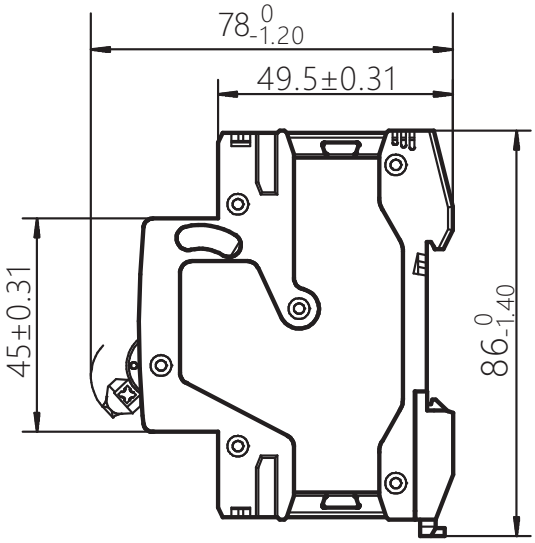
Table 1 Key Technical Parameters

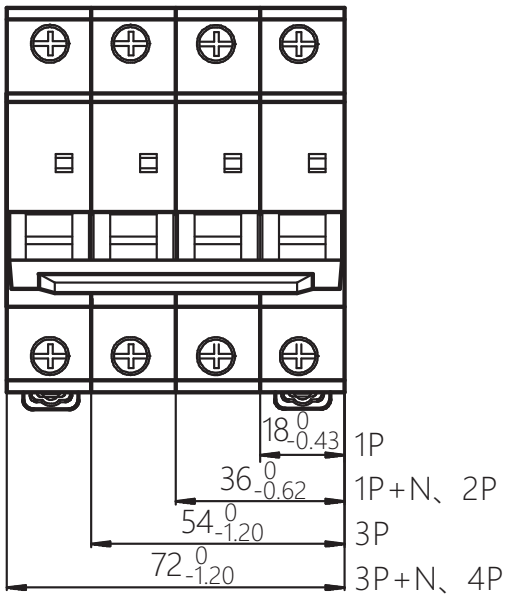
Altitude	≤ 2,000m
Pollution level	Level 2
Installation category	Class II and III
Rated operating voltage Ue(V)	AC 230V/400V or 240V/415V (1P) AC 230V or 240V (1P+N) AC 400V or 415V (2P, 3P, 3P+N, 4P)
Rated short-circuit breaking capacity I_{cn}	6000A, 10000A (NB1-63H)
Enclosure protection class	IP20
Standard	IEC/EN 60898-1

3 Installation

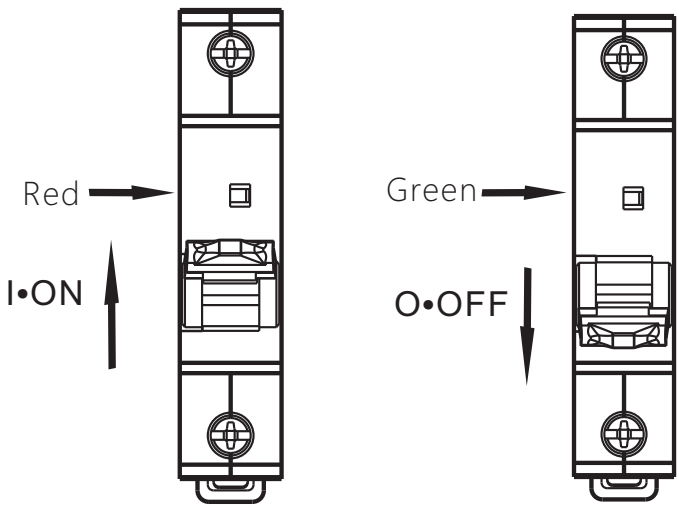
1) Outline and installation dimensions

Unit:mm

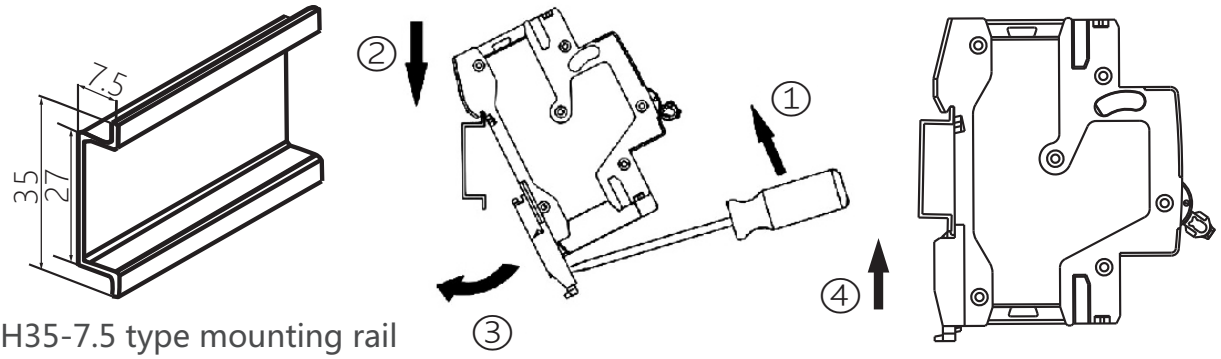




2) On-off indication

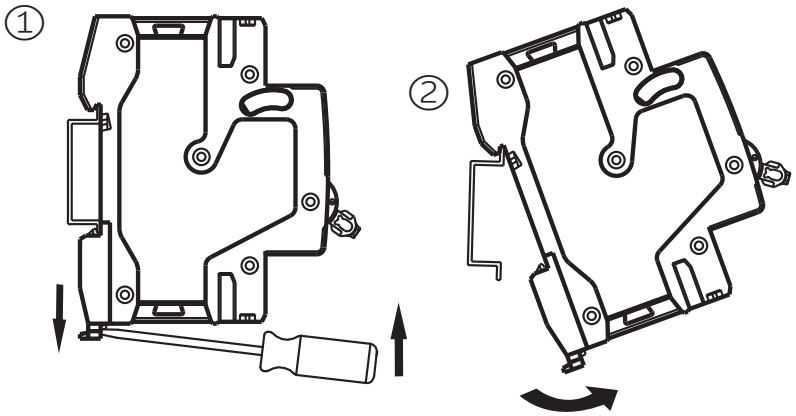


3) Installation



TH35-7.5 type mounting rail

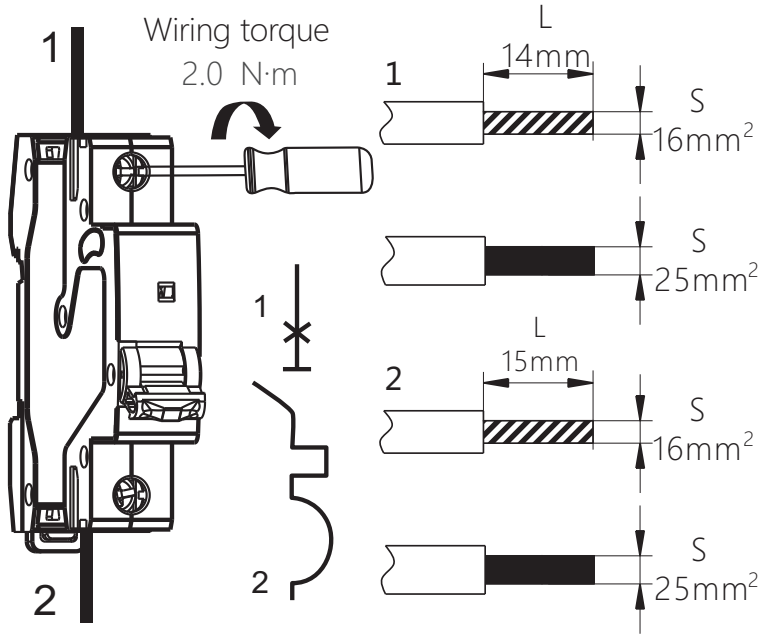
4) Disassembly



5) Wiring: copper wires only

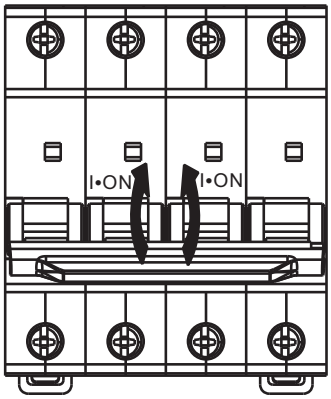
Table 2 Copper wire cross-sectional area

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



6) Operation Instruction

It is recommended to carry out the closing operation from the middle of the handle.



4 Maintenance

1. Check the circuit breaker on a regular basis during operation;

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 handle cannot close the circuit breaker	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 with product of proper 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 wire strip length is too short.	Re-strip the wire
	The wire is loose or not properly fixed 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

NB1-63 Series
Miniature Circuit Breaker
IEC/EN 60898-1

Check 12

Test date: Please see The packing

ZHEJIANG CHINT ELECTRICS CO.,LTD.

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Miniature Circuit Breaker
User Instruction

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