

Product Specifications

Products Name: Moulded Case Circuit Breaker

Products model: NDB2Z-63

Date: 20160521

Prepare	Review	Approval
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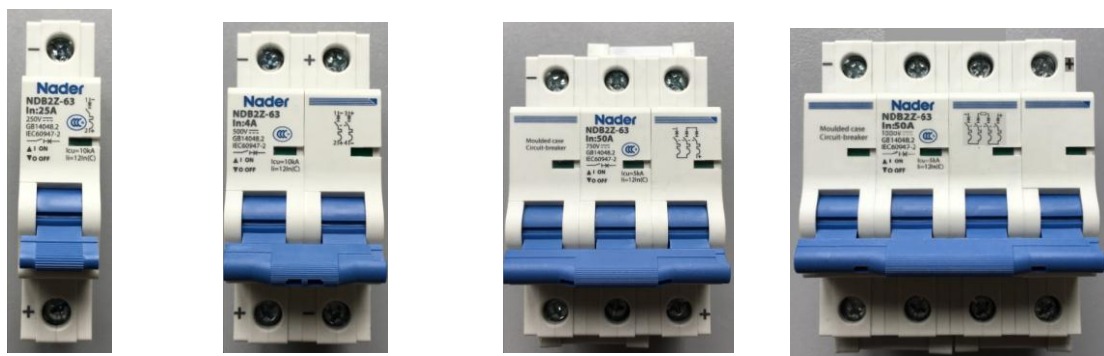
Doc. Code	NDT500324	Version	2	Issue Date	20160521
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1、Applicable scope and purpose

- Short -circuit protection
- Over-load protection
- Control
- Isolation
- DC system protection

NDB2Z-63 dedicated to the low voltage power distribution system of industrial, buildings, energy communications and infrastructure.

2、Picture



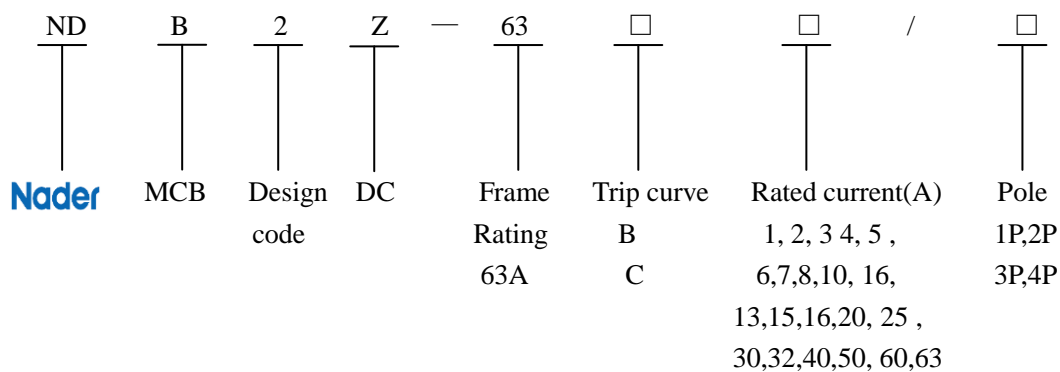
1P

2P

3P

4P

3、Model and implication



4、Main technical specification

●Electrical parameters

- Rated voltage: 1P: DC125/220/250V , 2P: DC250/440/500 V, 3P: DC750V, 4P: DC1000V
- Rated current: 1A, 2A,3A,4A, 5A ,6A, 7A,8A,10A, 12A, 13A,15A,16A,
20A,25A,30A,32A,40A,50A,60A,63A
- Rated ultimate short-circuit breaking capacity: DC125 /220 /250V (1P) , DC250/440/500 V: 10kA
DC750V/ DC1000V: 5 kA

Doc. Code	NDT500324	Version	2	Issue Date	20160521
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- Impulse withstand test voltages: 6kV
- Mechanical & electrical life: 20000 times

● Isolation function

- Practical breaking instructions
- View window within the green identification said contact in the off position

● Tripping characteristic:

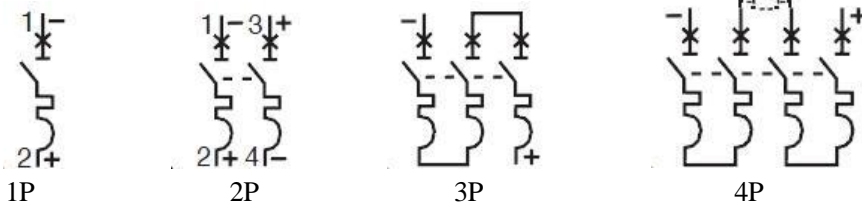
B type curve

- Protection of short circuit current small load
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range $6I_n (1 \pm 20\%)$

C type curve

- Protect normal load and distribution wire cable
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range $12I_n (1 \pm 20\%)$

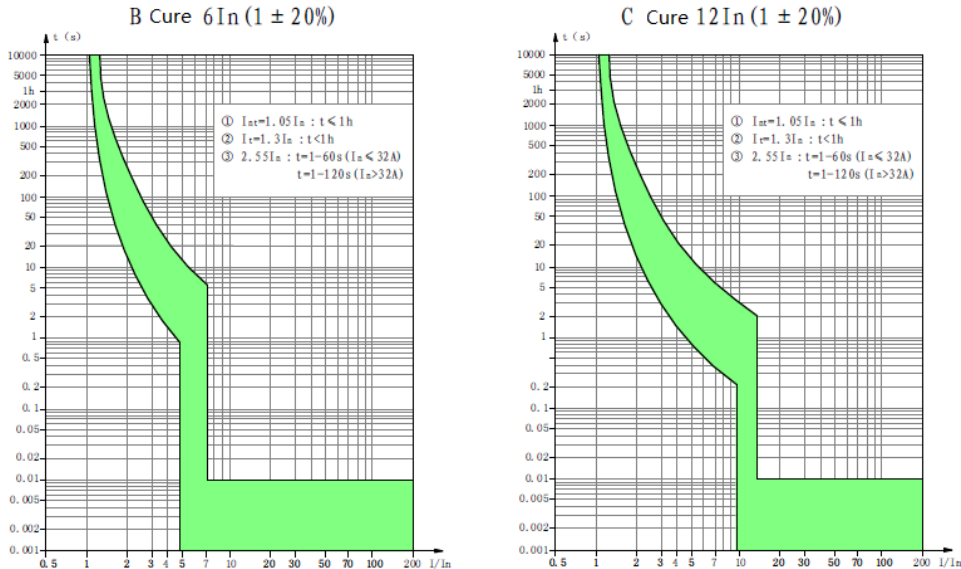
● Wiring diagram:



5、 Normal working environment

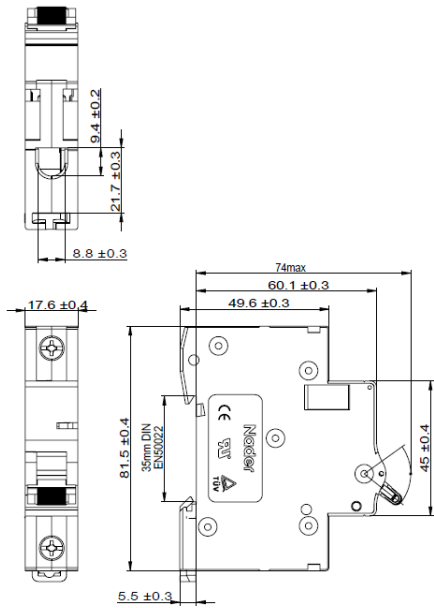
- Ambient temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Air relative humidity: $\leq 95\%$
- Altitude: $\leq 2000\text{m}$
- pollution degree: 3
- Service place without significant vibration and impact

6、 Tripping characteristic

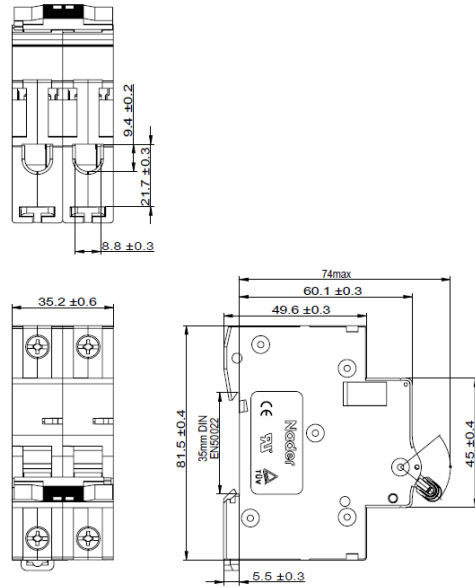


Doc. Code	NDT500324	Version	2	Issue Date	20160521
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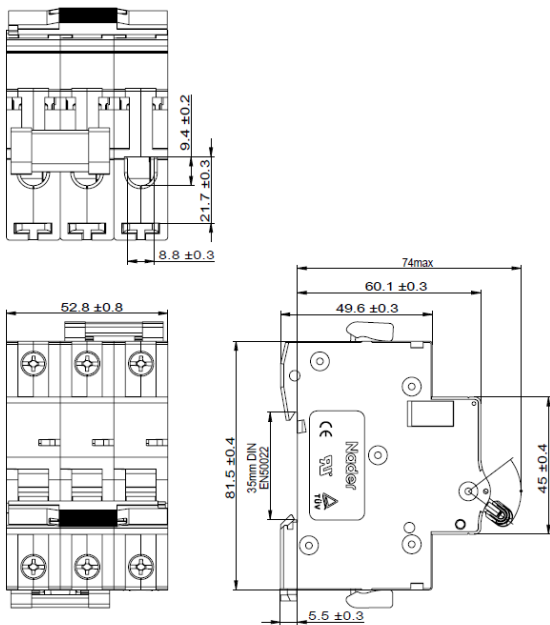
7. Outline dimensions



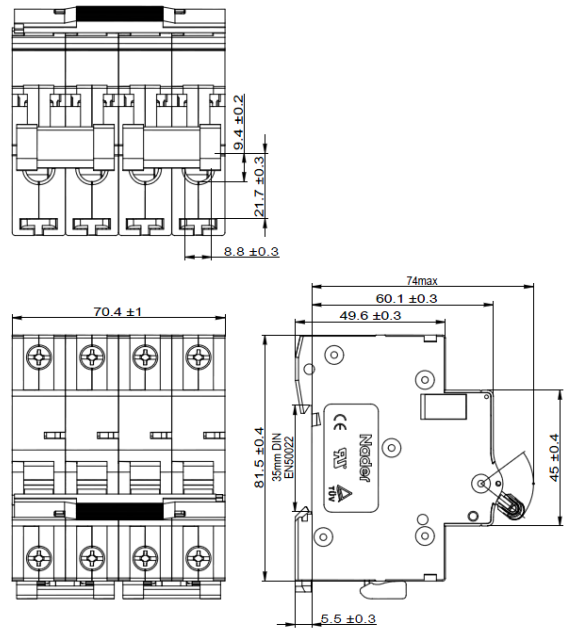
1P



2P



3P



4P

Doc. Code	NDT500324	Version	2	Issue Date	20160521
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8、Mounting

Modular construction, can be installed in EN60715 TH 35mm x 7.5mm standard guide rail.

9、Connect line requirements

- Standard cross-sections of round copper conductors: 1~35mm² 2 AWG,Max
- Terminal screw:M5 ,Rated torque : 2.0N.m

10、Packing storage

Quantity (1P product: 12PCS/box, 2P product: 6PCS/box, 3P product: 4 PCS/box, 4P product: 3PCS/box), Packing boxes of products should be stored in the air circulation and relative humidity is not more than 80% and the temperature is not higher than + 70 °C, Not less than - 40 °C in the air around without acid, alkali or other corrosive gases stored in the warehouse. In the above conditions, the storage period since the production date not more than three years.

11、Accessories list and mounting

- OF2 auxiliary contacts Installed on the left hand of the NDB2Z - 63 circuit breaker, indication circuit breaker on-off state ;
- SD2 indicator contacts Installed on the left hand of NDB2Z - 63 circuit breaker , indication failure tripping status of breaker;
- MX+OF2 shunt trip release Installed on the left hand of NDB2Z - 63 circuit breaker, remote control of the circuit breaker's tripping;

12、Application

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13、Notice

- 1、Customers who disassemble the product without approval shall undertake relevant quality problems by themselves;
- 2、Do not touch the naked part of conductive components when the product is power on;
- 3、Don't test characteristics of the breaker optionally, the manufacturer is irresponsible for such quality problems;
- 4、Keep wiring correct to prevent malfunction or damage of wiring terminals.
- 5、Please open the cover when installing the accessory. Please refer to OF2, SD2, MX+OF2 Instruction for details.