

# Product Specifications

Products Name: Miniature Circuit Breaker

Products model: NDB2-63

Date: 20160621

Prepare	Review	Approvel
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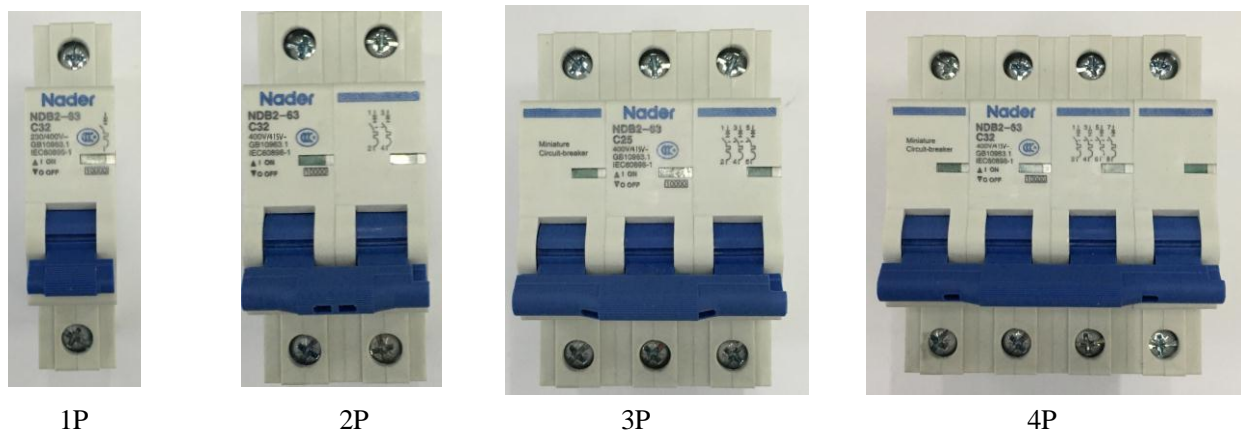
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1、Applicable scope and purpose

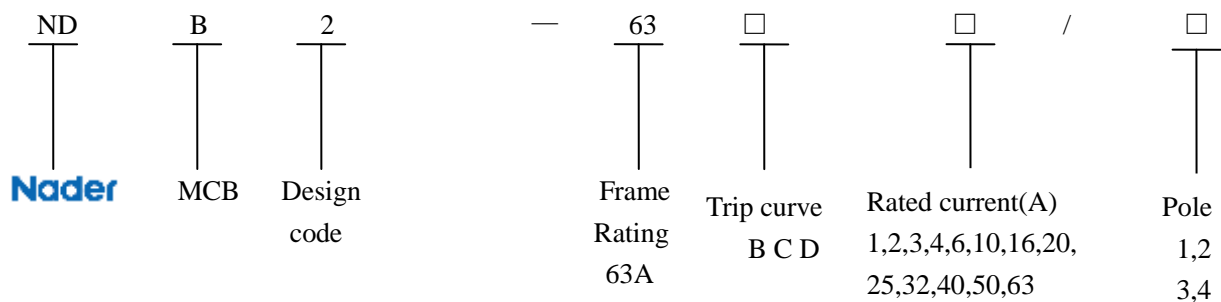
- Short -circuit protection
- Over-load protection
- Control
- Isolation
- DC system protection

NDB2-63 dedicated to the low voltage power distribution system of industrial, buildings, energy communications and infrastructure.

2、Picture:



3、Model and implication:



4、Main technical specification

- electric parameter

Pole		1P	2P	3P	4P	certificate
Rating current		1A,2A,3A,4A,6A, 10A, 16A,20A,25A,32A,40A,50A,63A				
Item		Icn (SC)				
Voltage	AC	230/400	10kA	—	—	CCC TUV
		400/415V	--	10kA		
	DC	80V	10kA	—	—	
		AC	240V	7.5kA	—	—
	277V		5kA	—	—	
	480V		—	7.5kA		
DC	60V	7.5kA	—	—		
	125 V	—	7.5 kA (2 IN SERIES)	—		

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- Isolation function
- Practical breaking instructions
- View window within the green identification said contact in the off position
- Mechanical & electrical life: 20000 times

● Tripping characteristic

B type curve

- Protection of short circuit current small load
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range  $3I_n \sim 5I_n$

C type curve

- Protect normal load and distribution wire cable
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range  $5I_n \sim 10I_n$

D type curve

- Protect starting current big impact load (Such as motor, transformer)
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping rang  $10I_n \sim 14I_n$

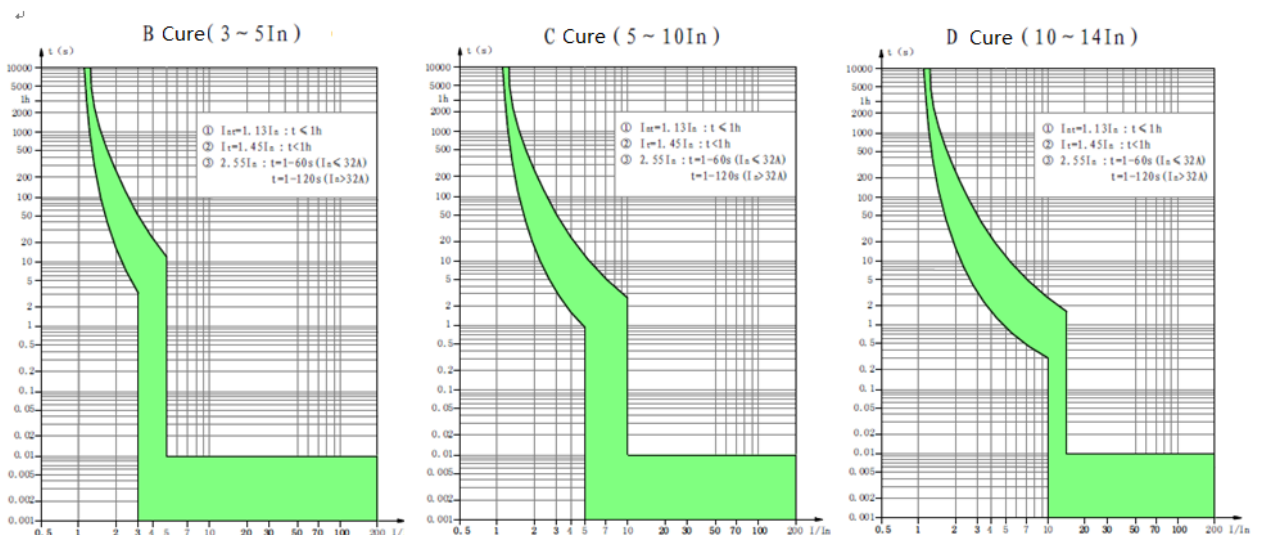
● Wiring

- Adopt tunnel type wiring
- Connection capability:  $1\text{mm}^2$  to  $35\text{mm}^2$

5. Normal working environment

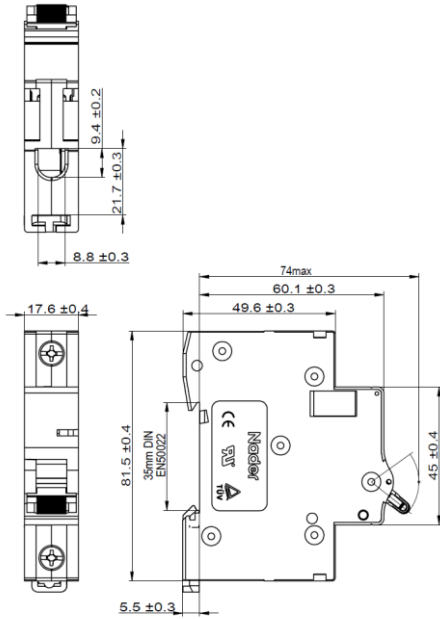
- ambient temperature:  $-40^\circ\text{C} \sim +70^\circ\text{C}$
- Air relative humidity:  $\leq 95\%$
- height:  $\leq 2000\text{m}$
- pollution degree: 2
- Service place without significant vibration and impact

6. Tripping characteristic

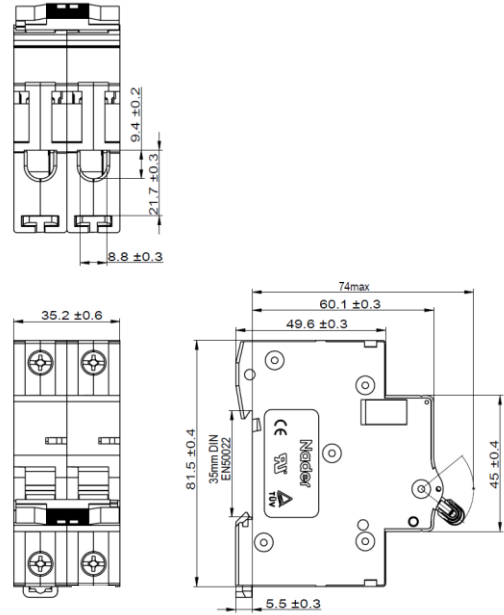


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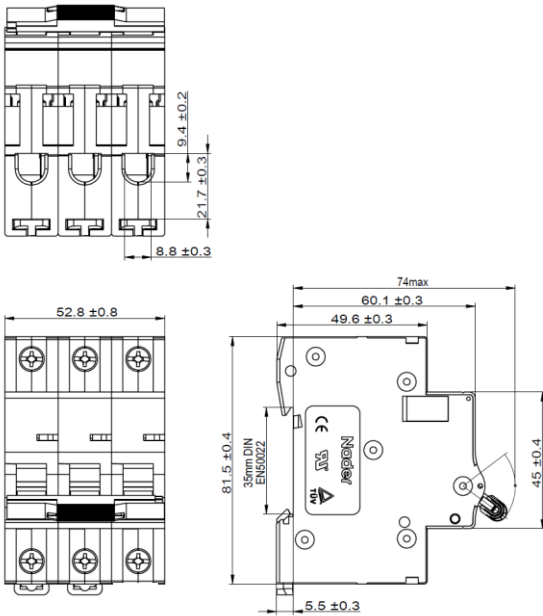
7. Outline dimensions



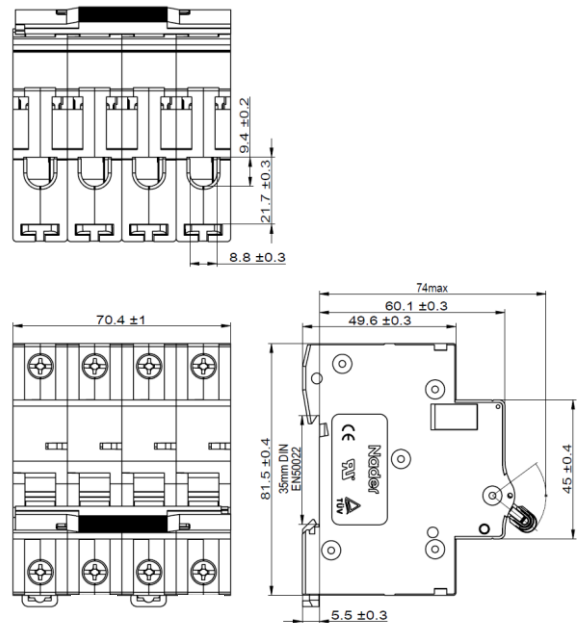
1P



2P



3P



4P

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#### 8、 Mounting

Modular construction, can be installed in TH35mm x 7.5 standard guide rail

#### 9、 .Connect line requirements

The wire AWG: 6-14 Cu

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 NDB2 - 63 miniature circuit breaker left, indication circuit breaker on-off state ;

- SD2 indicator contacts installed on the left hand of NDB2 - 63 miniature circuit breaker , indication failure tripping status of breaker.

- MX+OF2 shunt trip release installed on the left hand of NDB2 - 63 miniature circuit breaker, remote control of the circuit breaker's tripping;

#### 12、 Notice

- 1、 The manufacturer is irresponsible for quality problems caused by disassembling products privately;
- 2、 Do not touch the Non-insulated and exposed parts during the electrified working condition;
- 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.