

# Product Specifications

Products Name: Moulded Case Circuit DC Breaker

Products model: NDB6Z-125

Date: 20180102

Prepare	Review	Approvel
Feng Dai	ZhiQiangHuo	Wei Yang

<b>Nader</b> 良信电器	Name	Product Specifications	Number	NDT500524
	Model	NDB6Z-125 MCCB	Version	4
			Date	20180102

Revision record

Version	Revise contents	Revision date	Reviser
0	Initial issue	20131023	Yang Zhang
2	Change of address	20160126	Heng Ke
3	The new standard	20160906	Heng Ke
4	Perfect wiring diagram	20180102	Feng Dai

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1、Applicable scope and purpose

- Short -circuit protection
- Over-load protection
- Control
- Isolation
- Dc system protection
- Criterion: IEC60947-2、 GB14048.2

NDB6Z-125 DC breaker is also widely used in the final distribution of solar, industry automation, energy, telecom and infrastructure sectors.

2、 Picture :



1P product



2P product

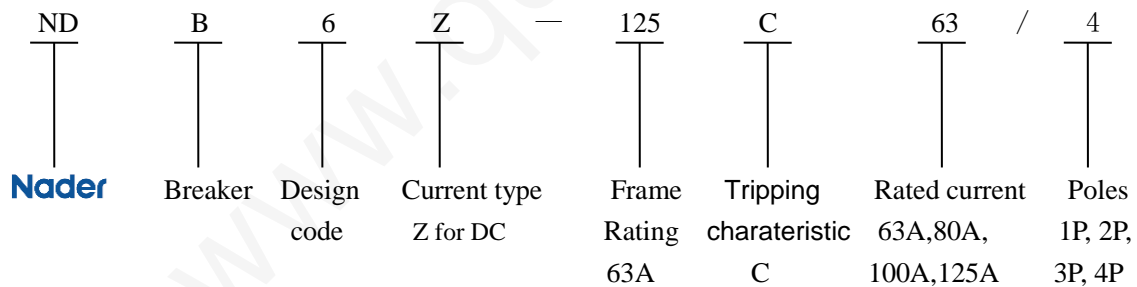


3P product



4P product

3、 Model and implication:



4、 Main technical specification

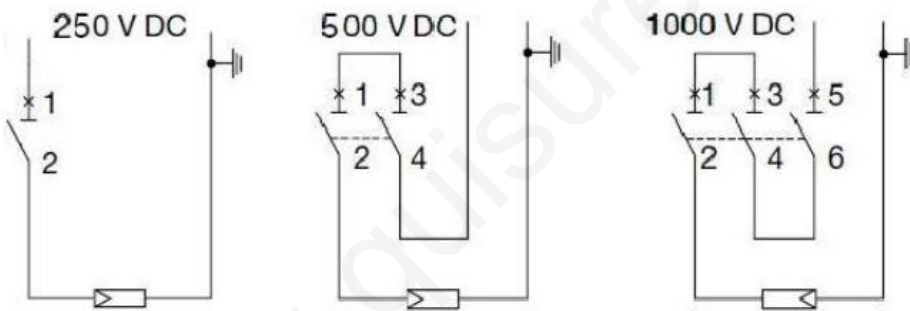
- electric parameter
  - Rated working voltage :DC60/80/125/250/300V(1P), DC500/600V(2P), DC750/1000V(3P), DC1000/1200V(4P)
  - Rated current: 63A, 80A, 100A, 125A
  - Rated breaking capacity : Rated operating short circuit capacity: Ics=6kA(2P-4P),7.5kA(1P)  
Rated ultimate breaking capacity: Icu=6kA(2P-4P) ,15kA(1P)
  - Impulse voltage endurance : 8KV
  - Application category : A

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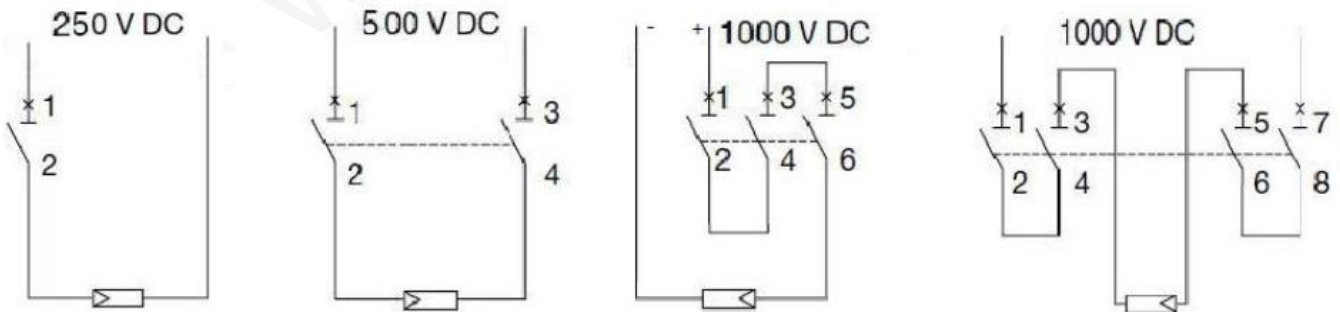
- Isolation function
- Practical breaking instructions
- View window within the green identification said contact in the off position
- Mechanical life: 10000 times;
- Wiring: Tunnel type terminal;
- 10 mm<sup>2</sup> – 50 mm<sup>2</sup> conducting wire.

●Wiring Diagram

接地系统



不接地系统



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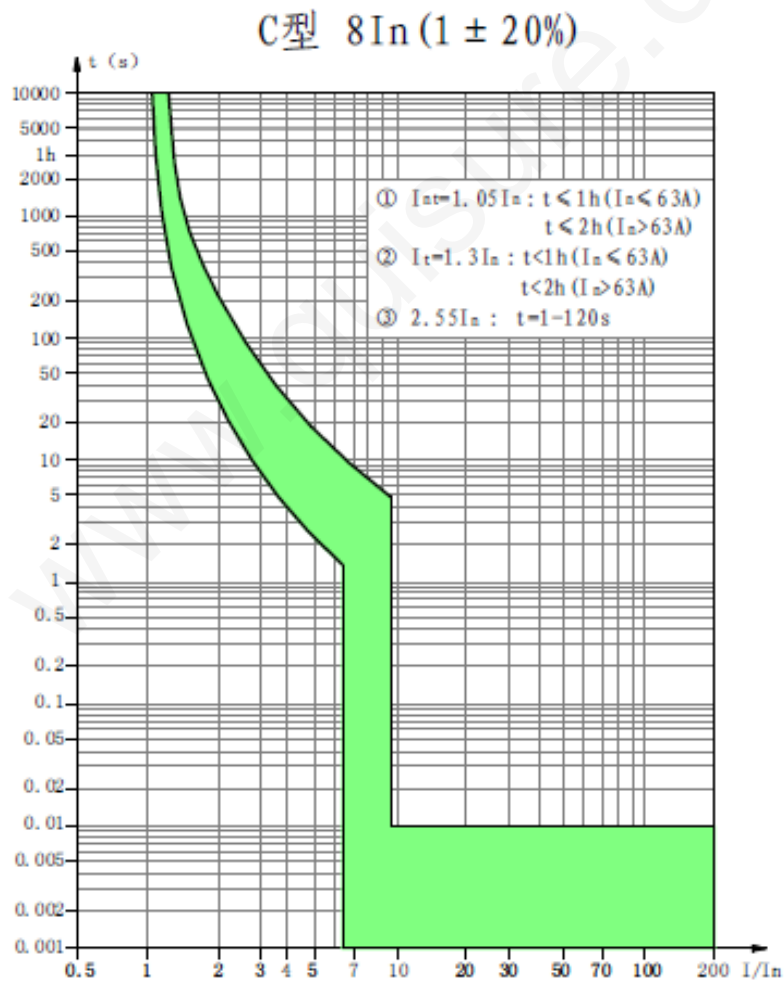
5、Normal working environment

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

6. Tripping characteristic

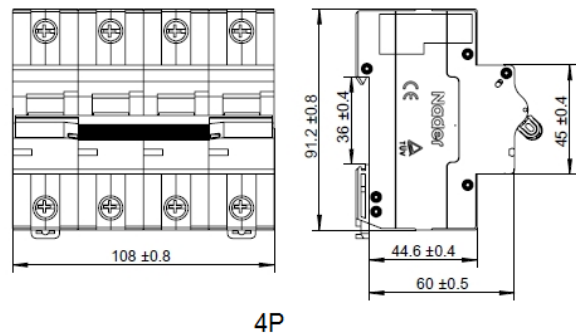
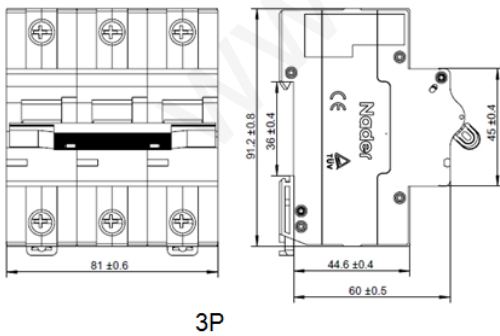
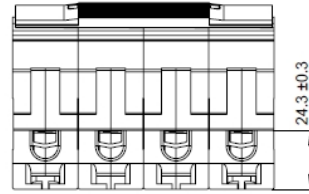
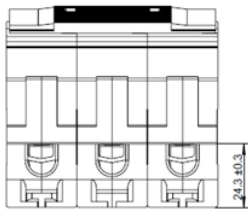
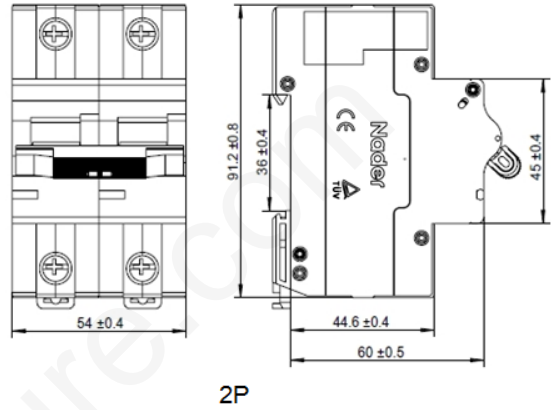
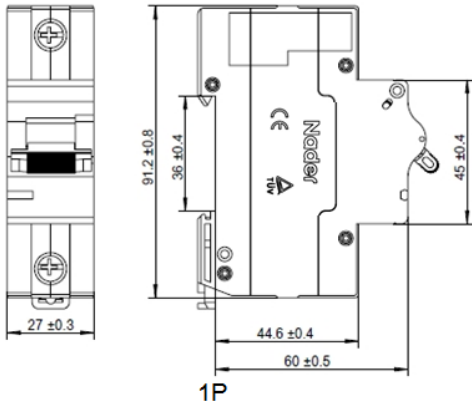
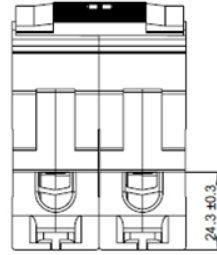
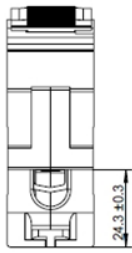
C type curve

- Protect normal load and distribution wirecable
- rated current: 63A、80A、100A、125A
- tripping characteristic: The instantaneous tripping range  $8I_n$  ( $1 \pm 20\%$ )



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7. Outline dimensions



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#### 8、Mounting

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

#### 9、Packing storage

quantity (1P product: 9PCS/box, 2P product: 4PCS/box, 3P product: 3PCS/box, 4P product: 2PCS/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.

#### 10、Accessories list and mounting

N/A

#### 11、 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.