

Shanghai Liangxin Electrical Co., Ltd.

NDB1Z-63 Moulded Case Circuit-breaker

# Product Specification

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Prepared	朱同雄	Date	2021-09-14
Reviewed	霍志强	Date	2021-09-15
Countersign	刘向前	Date	2021-09-15
	毛远雄		2021-09-15
	张海艳		2021-09-15
Approved	霍志强	Date	2021-09-17

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## 1、Application

- Short circuit protection
- Overload protection
- Isolation
- DC system protection

The NDB1Z-63 series of circuit breakers are applicable to the low-voltage terminal distribution in the industry, civil buildings, energy, communication, infrastructure and other fields.

## 2、Product Pictures



## 3、Model and implication

ND	B	1	Z	—	63	C	16	/	2
Nader	Molded case	Design	DC		Frame	Trip curve	Rated current(A)		Pole
low-voltage	circuit-breaker	code			Rating (A)	B C	1,2,3,4, 5,6,10,16, 20, 25,32, 40,50,63		1=1P,2=2P, 3=3P,4=4P
apparatus					63				

## 4、Main technical parameters

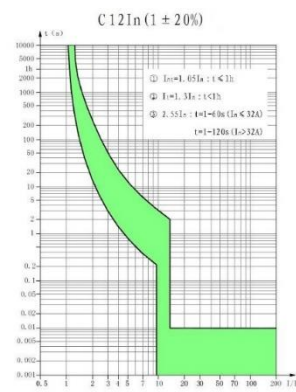
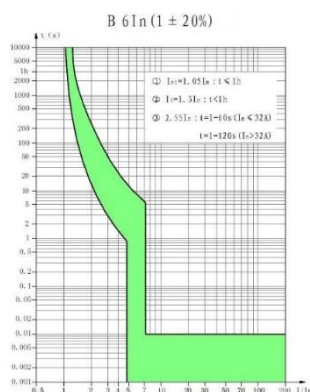
- Electrical parameters
  - Number of poles: 1P, 2P, 3P, 4P
  - Rated working voltage: DC110/125V(1P); DC220/250V(2P); DC440V (3P;4P)
  - Rated working current: 1A, 2A, 3A, 4A, 5A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
  - Rated insulation voltage: 500V
  - Power frequency withstand voltage: DC2670V
  - Rated impulse withstand voltage: 4kV
  - Rated limit short-circuit breaking capacity (Icu): 6kA
  - Rated running short-circuit breaking capacity (Ics): 6kA

- Mechanical and electrical life
  - Mechanical life: 20,000 times
  - Electrical life: 6,000 times
- Isolating function
  - Practical breaking indication
  - The green identification in the inspection window indicates that the contact is in the disconnection position
- Wiring
  - Connection capacity: (1~25) mm<sup>2</sup> conductor
  - Terminal screw: M5, recommended tightening torque: 2.0N.m
- Protection class  
IP20
- Utilization category  
A
- Installation category  
II, III
- Fiducial temperature  
+40°C

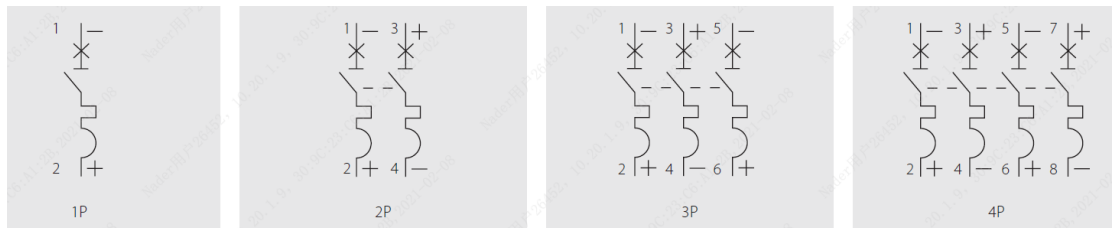
#### 5、Working conditions

- Ambient temperature: -40°C~+70°C
- Stored ambient temperature: -40°C~+80°C
- Heat and humidity resistance: The relative air humidity ≤95% at the temperature of +55°C
- Altitude: ≤2000m, if you want to apply it more than 2000m, you must refer to Miniature Circuit Breaker's reduced capacity table. Also you can refer to GB/T20645 the technological requirement of the low-voltage electrical equipment when it is used on high altitude.
- Pollution degree: 3

#### 6、Time-Current curves



## 7、Outline and installation dimensions



## 8、Installation method

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

## 9、Packaging and 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 + 80 °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、Accessory list and installation

- OF1 Auxiliary Contact Be installed to the left side of NDB1Z-63 to indicate the tripping status of the breaker.
- SD1 Alarm Contact Be installed to the left side of NDB1Z-63 to indicate the fault tripping status of the breaker.
- MX+OF1 Shunt Release Be installed to the left side of NDB1Z-63, remotely controls the breaker opening and indicates the breaker tripping status.
- GQ1A Over&Under Voltage Tripping Device Be installed to the left side of NDB1T-63, used for circuit of work voltage less than AV230V, which has defensive function such as over-voltage protection (G1A)、low-voltage protection (Q1A)、over&low-voltage protection (GQ1A), at the same time, no-tripping when power down;
- FF1 Double Auxiliary Contact Be installed to the left side of NDB1Z-63 to indicate the tripping status of the breaker
- FS1 Auxiliary and Alarm Contact Be installed to the left side of NDB1Z-63 to indicate the fault tripping status of the breaker.

## 11、Notices

- 1、The user should responsible for the quality problem caused by taking the products apart or adjust the tripping parameters without permission.
- 2、Touch the uninsulated bare part is not allowed when breaker is energized state.
- 3、Make sure reliable connection to prevent the abnormal heating of terminals. That can cause fault operation of breakers or terminal damage.