Product Specification of NDB1T-63

(IPD-ENG-DEV-T22 A0 2016-04-20)

Product Name: Moulded Case Circuit Breaker Product type: NDB1T-63 Date: 20160624

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Reviewed	Zhang Yang	Date	2016-06-24
Approved	Duan Hui	Date	2016-06-24

Revision information							
Version	Revised contents and reasons	Date	Prepared	Reviewed	Approved		
0	Initial issue	20160420	Wang Fang	Zhang Yang	Duan Hui		
1	Delete Rated Current:8A/12A/13A; Add Mounting Class IV; Change Time-Current curves Postcode and Stored Ambient temperature	20160624	Li Xiaozhen	Zhang Yang	Duan Hui		

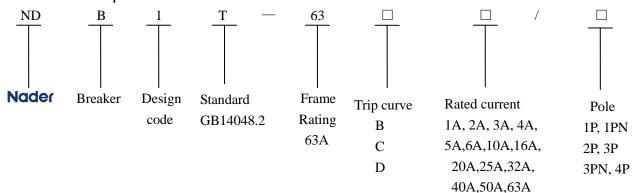
- 1、Application
 - •Short -circuit protection
 - •Over-load protection
 - Isolation

NDB1T-63 dedicated to the low voltage power distribution system of industrial, buildings, energy communications and infrastructure.

2、Product Pictures



3. Model and implication



4、Main technical parameters

• Electrical parameters

•Number of Poles: 1P, 1PN, 2P, 3P, 3PN, 4P

oRated working Voltage: AC230/240V(1P,1PN); AC400/415V(2P,3P,3PN,4P)

oRated Current: 1A,2A,3A,4A,5A,6A,10A,16A,20A,25A,32A,40A,50A,63A

Rated Insulation Voltage: 500V

oRated Frequency: 50/60Hz

Rated Impulse Withstand Voltage: 6KV

Breaking Capacity: 6KA

oInstantaneous Tripping Characteristic: B、C、D

- •Mechanical and Electrical life
- oMechanical Life: 20000 times

•Electrical Life: 10000 times

- Isolation function
- Practical breaking instructions
- \circ View window within the green identification said contact in the off position
- Protection Degree

IP20

•Wire Feeding Mode

Lines in for both up and down ends

• Use Category

А

Mounting Class

II、III、IV

• Tripping characteristic

B type curve

- Protection of short circuit current small load
- rated current: 1A~63A
- \circ tripping characteristic: The instantaneous tripping range $3 In{\sim}5 In$
- C type curve
- Protect normal load and distribution wire cable
- o rated current: 1A∼63A
- \circ tripping characteristic: The instantaneous tripping range $5 In{\sim}10 In$

D type curve

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

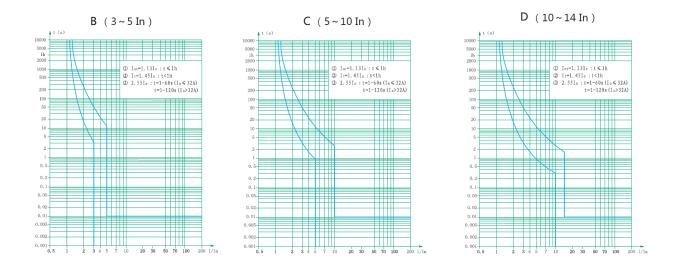
5、Normal Working conditions

- ●Ambient temperature: -35°C~+70°C
- •Stored ambient temperature: -40 $^\circ\!\mathrm{C}$ ~+70 $^\circ\!\mathrm{C}$
- •Heat and humidity resistance: The relative air humidity \leq 95% at the temperature of +55 $^\circ \!\!\! \mathbb{C}$

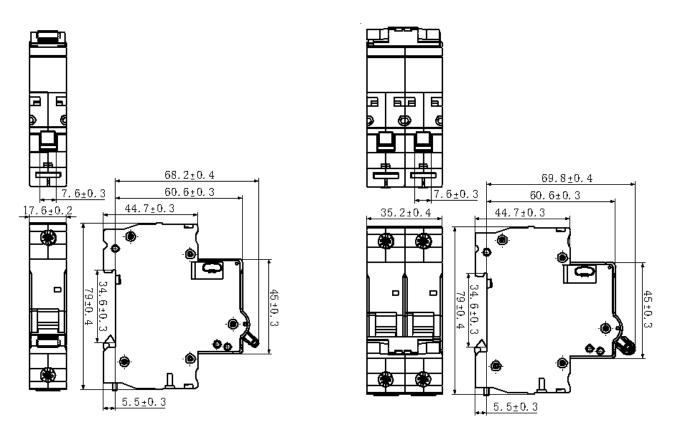
•Altitude: \leq 2000m, if you want to apply it more than 2000m, you must refer to Miniature Circuit Breaker's reduced capacity table. Also you can refer to GB/T20645 the technological requirement of the low-voltage electrical equipment when it is used on high altitude.

- •Pollution degree: 3
- •Free from obvious vibration or shock

6、Time-Current curves

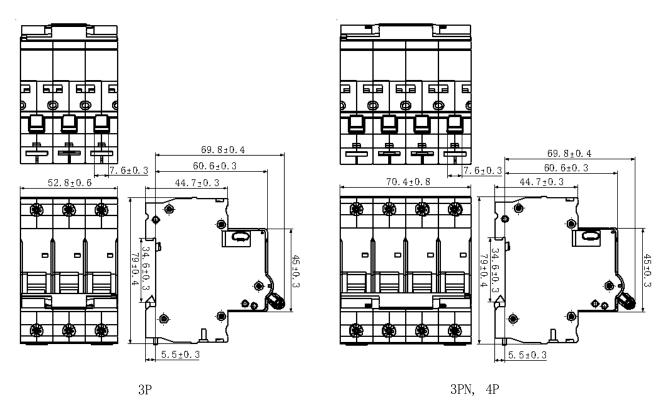


7、Outline and installation dimensions



1P

1PN, 2P



8、Installation method

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

9. Connect line requirements

The wire capacity: $1mm^2 \sim 25mm^2$ conducting wire Terminal screw: M5; Maximum ultimate torque : 3.0N.m

10、Packaging and storage

Quantity (1P product: 12PCS/box, 1PN/2P product: 6PCS/box, 3P product: 4 PCS/box, 3PN/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 $^{\circ}$ C, Not less than - 40 $^{\circ}$ 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、Accessory list and installation

•NDB1TLE-63 residual current operated protective module installed on the right of NDB1T-63 moulded case circuit breaker, is applied to protect direct or indirect earth leakage faults.

12、Notices

 1_{\circ} The user should responsible for the quality problem caused by taking the products apart or adjust the tripping parameters without permission.

 $2_{\scriptscriptstyle \rm N}$ 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.

4. Please remove the cover before installation, details please refer to <NDB1TLE-63 Product Specification>.