

Shanghai Liangxin Electrical Co., Ltd.

Product Specification of NDB2TS-63

(IPD-ENG-DEV-T22 A1 2016-09-23)

Product Name: Moulded Case Circuit Breaker

Product type: NDB2TS-63

Date: 20210412

Prepared	<u>XuRong</u>	Date	<u>2021-4-12</u>
Reviewed	<u>HuoZhiqiang</u>	Date	<u>2021-4-12</u>
Approved	<u>DuanHui</u>	Date	<u>2021-4-12</u>

Add: No.2000, South Shen Jiang Rd. Pudong District, 2Shanghai, 201315, PRC Tel:(021)68586699
Fax:(021)23025796

1、Applicable scope and purpose

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

NDB2TS-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:

ND	B	2	T	S	—	63	□	□	/	□
Nader	Breaker	Design code	GB/T14048.2 IEC60947-2	Magnetic protection only		Frame Rating 63A	Trip curve B,C,D	Rated current(A) 1A,2A,3A,4A, 6A,10A,16A, 20A,25A,32A, 40A,50A, 63A		Pole 1P 2P 3P 4P

4、Main technical specification

●Electrical parameters

○Rated working voltage and relevant breaking capacity:

Pole		1P	2P	3P	4P	certificate
Rating current		1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A				
Item		Icu				
Voltage	AC230V/240V	10kA	/	/	/	CCC CE TUV
	AC400V/415V	/	10kA			
	DC60/80V	10kA	/	/	/	
	DC80V/DC125V	/	10kA	/	/	

- Impulse withstand test voltages: 4kV
- electrical endurance: 10000 times; Mechanical endurance: 20000 times
- Product certification and implementation standard.:
 - Product certificate: CCC, CE, TUV;
 - Product certification standard: GB/T 14048.2, IEC60947-2;
- Environmental requirements: RoHS
- 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 $4I_n (1 \pm 20\%)$

C type curve

- Protect normal load and distribution wire cable
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range $8I_n (1 \pm 20\%)$

D type curve

- Protect starting current big impact load (Such as motor, transformer)
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping rang $12I_n (1 \pm 20\%)$

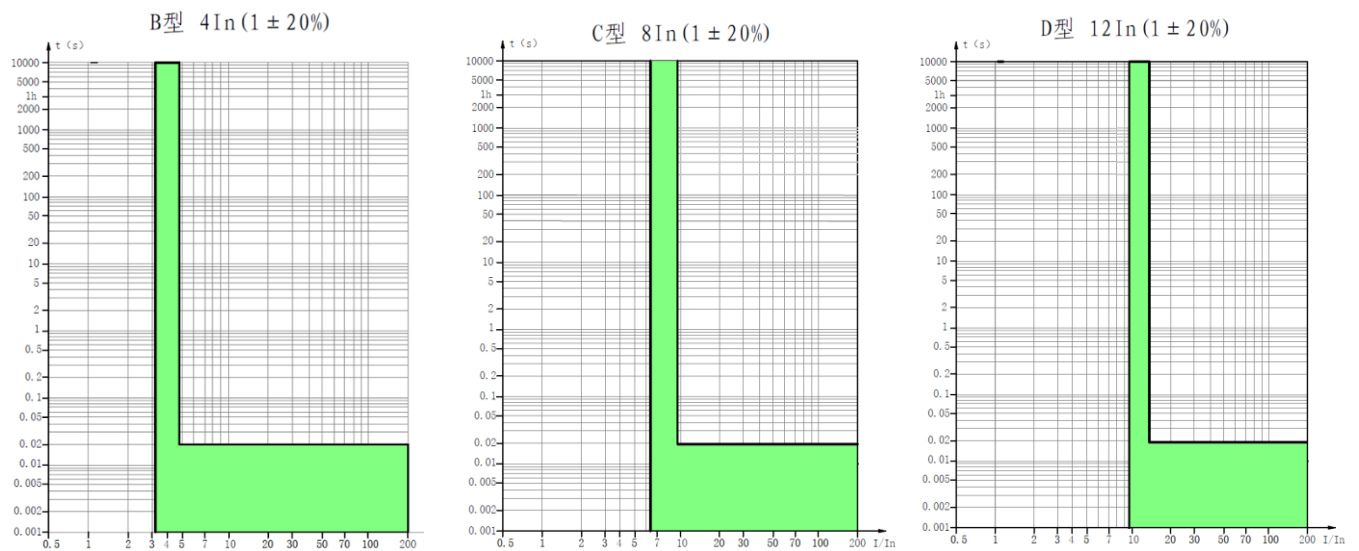
5、Normal working environment

- 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

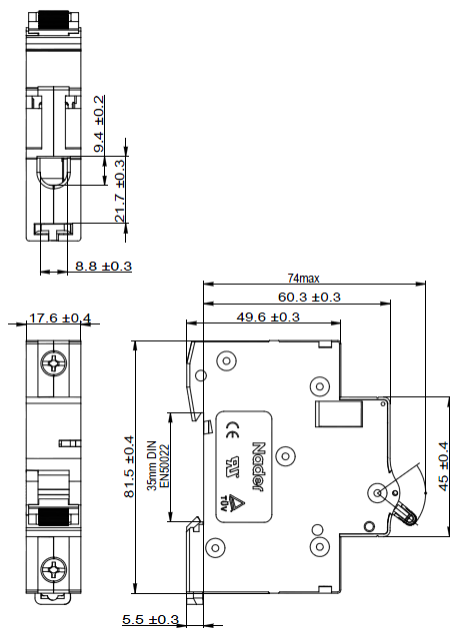
●Lower capacity coefficient table above 2000 meters above sealevel

Height above sea level (km)	Rated current	Rated voltage	Rated frequency voltage tolerance	Breaking capacity	Breaking Capacity and Electrical life
2	I_n	U_e	1	1	1
3	$0.97I_n$	U_e	0.89	0.89	0.83
4	$0.94I_n$	U_e	0.8	0.8	0.71
5	$0.90I_n$	U_e	0.73	0.73	0.63

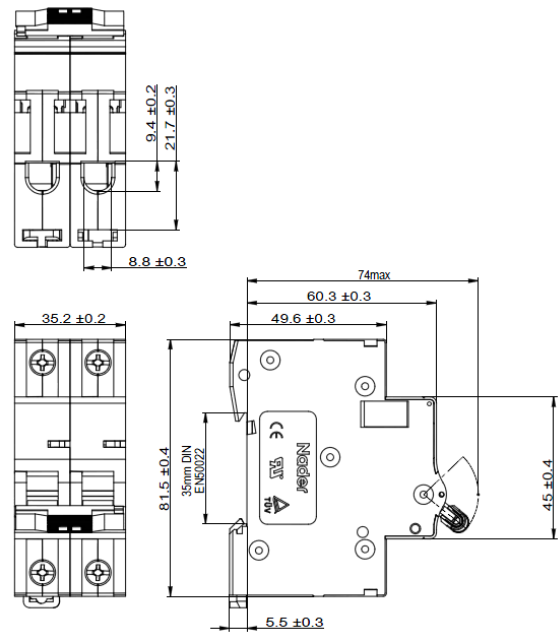
6. Tripping characteristic



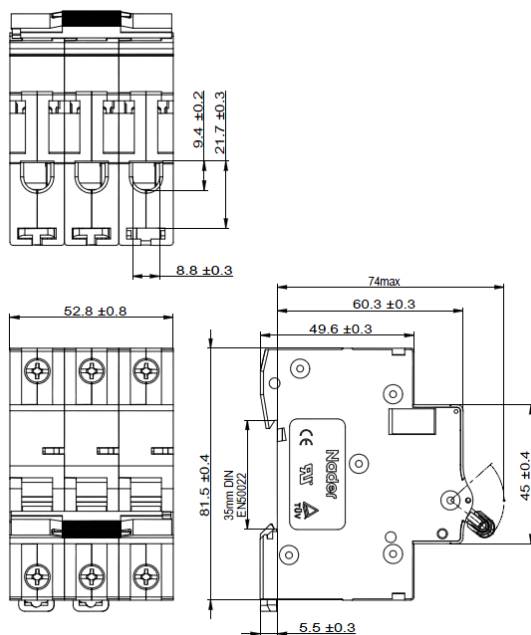
7、Outline dimensions



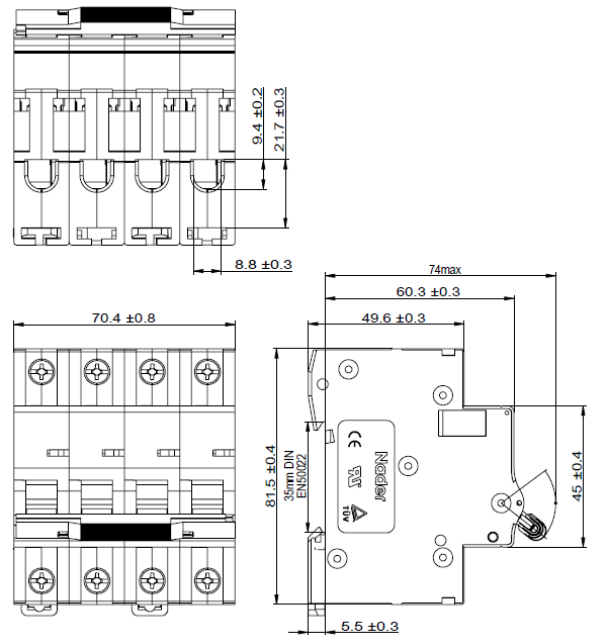
1P



2P



3P



4P

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
- Terminal screw: M5 ,Rated torque : 2.0N.m

10、Packing storage

Quantity(1P product :12 PCS/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 NDB2T - 63 circuit breaker left, indication circuit breaker on-off state ;
- SD2 indicator contacts Installed on the left hand of NDB2T - 63 circuit breaker , indication failure tripping status of breaker;
- MX+OF2 shunt trip release Installed on the left hand of NDB2T - 63 circuit breaker, remote control of the circuit breaker's tripping;

12、 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.