

Shanghai Liangxin Electrical Co., Ltd.

# Product Specification of NDB2Z-63(PV)

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

Product Name: Moulded Case Circuit Breaker

Product type: NDB2Z-63(PV)

Date: 20210327

Prepared	<u>XuRong</u>	Date	<u>2021-3-27</u>
Reviewed	<u>XuGuo jun</u>	Date	<u>2021-3-27</u>
Approved	<u>ZhangJingyang</u>	Date	<u>2021-3-27</u>

Revision information					
Version	Revised contents and reasons	Date	Prepared	Reviewed	Approved
1	Parameter update	20190404	XuRong	HuoZhiqiang	DuanHui
2	Parameter update	20201130	XuRong	ZhangJingyang	ZhangYang
3	Busbar update	20210327	XuRong	XuGuojun	ZhangJingyang

## 1、Applicable scope and purpose

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

NDB2Z-63 dedicated to the low voltage power distribution system of industrial, buildings, energy communications and infrastructure.

## 2、Picture:



3P(PV)



4P(PV)

## 3、Model and implication:

ND	B	2	Z	—	63	□	□	/	□
Nader	Breaker	Design code	DC		Frame Rating	Trip curve	Rated current(A)		Pole
					63A	B,C	1A,1.2A,1.5A,1.6A, 2A,3A,4A,5A ,6A,7 A,8A,10A,12A,13A ,15A,16A,20A,25A, 30A,32A,40A,50A, 60A 63A		3P(PV) 4P(PV)

## 4、Main technical specification

## ●Electrical parameters

○Rated working voltage and relevant breaking capacity:

Pole		3P	4P	certificate
Rating current(A)		1A, 1.2 A, 1.5 A, 1.6 A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 10A, 12A, 13A, 15A, 16A, 20A, 25A,30A,32A, 40A, 50A, 60A, 63A		
Item		Icu		
Voltage	DC750V	5kA	/	CCC
	DC1000V	/	5kA	CE/TUV

- Impulse withstand test voltages: 4kV
- Mechanical & electrical life: 20000 times
- Isolation function
  - Practical breaking instructions
  - View window within the green identification said contact in the off position
- Tripping characteristic

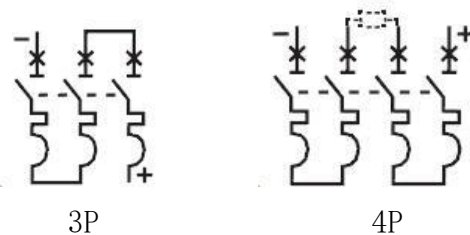
#### B type curve

- Protection of short circuit current small load
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range  $6I_n$  ( $1\pm 20\%$ )

#### C type curve

- Protect normal load and distribution wire cable
- rated current: 1A~63A
- tripping characteristic: The instantaneous tripping range  $12I_n$  ( $1\pm 20\%$ )

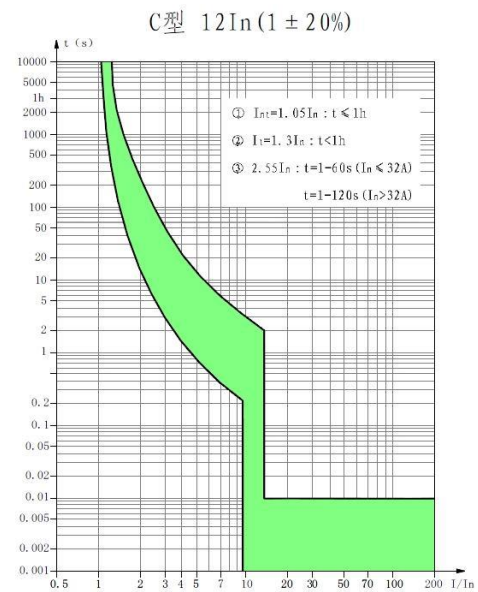
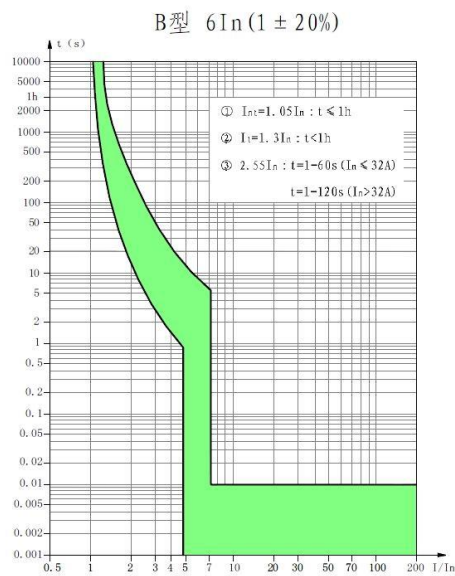
#### ● Wiring diagram:



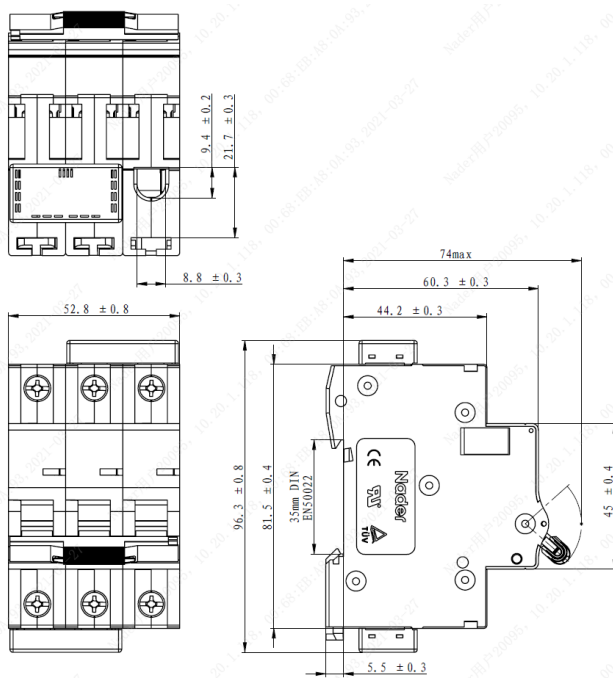
#### 5、Normal working environment

- 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

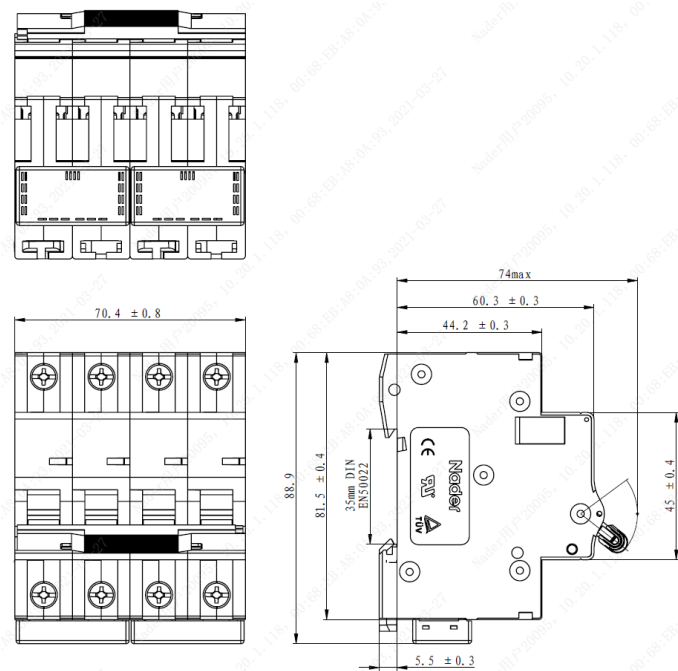
## 6. Tripping characteristic



## 7. Outline dimensions



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: 1~35mm<sup>2</sup>
- Terminal screw: M5 ,Rated torque : 2.0N.m

## 10、Packing storage

Quantity (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 NDB2Z - 63 circuit breaker left, indication circuit breaker on-off state ;
- SD2 indicator contacts Installed on the left hand of NDB2 Z - 63 circuit breaker , indication failure tripping status of breaker;
- MX+OF2 shunt trip release Installed on the left hand of NDB2 Z - 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.