

Shanghai Liangxin Electrical Co., Ltd.

Product Specification of NDB6A-63H

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

Product Name: Moulded Case Circuit Breaker

Product type: NDB6A-63H

Date: 20220106

Prepared	<u>Shi Nengquan</u>	Date	<u>2022-01-06</u>
Reviewed	<u>Chen Chuang</u>	Date	<u>2022-01-06</u>
Approved	<u>Zhang Jingyang</u>	Date	<u>2022-01-06</u>

Revision information					
Version	Revised contents and reasons	Date	Prepared	Reviewed	Approved
0	Initial release	20190827	Yang Yanqun	Zhang Yang	Yang Hairong
1	Change of cross-sectional area of ferrule; Add MQ series product Pictures、 Model and implication、 Main technical parameters and Outline and installation dimensions; Update packaging and storage content	20191205	Zhou Juan	Zhang Yang	Yang Hairong
2	Update Model and implication.	20200227	Wang fang	Lin Chen	Yang Hairong
3	Normalization Update product shape and installation size picture	20200922	Shi Nengquan	Lin Chen	Yang Hairong
4	Update package storage.	20220106	Shi Nengquan	Chen Chuang	Zhang Jingyang

1、Application

- Short-circuit protection
- Over-load protection
- Isolation protection

NDB6A-63H series products are mainly used in telecommunications equipment rooms or communication cabinets, as isolation, short circuit and overload protection for cabinets, equipment rooms or downstream subscriber lines.

2、Product Pictures(The physical effect shall prevail)



1P



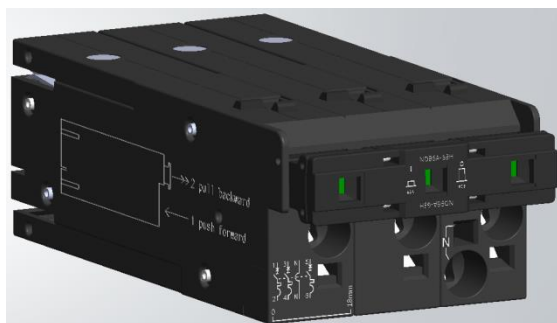
1PN



2P



3P



3PN



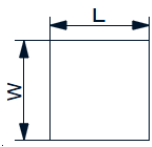
4P

NDB6A-63H series breaker

3、Model and implication

ND	B	6A	-	63	H	/	50	/	3
Nader	Breaker	Design		Shelf	Black		Rated current (A)		Number of poles
Low		number		Rank (A)			6, 10, 16, 20, 25,		1=1P, 1PN=1PN,
voltage				63			32, 40, 50, 63		2=2P, 3=3P,
electrical									3PN=3PN, 4=4P
appliance									

4、Main technical parameters

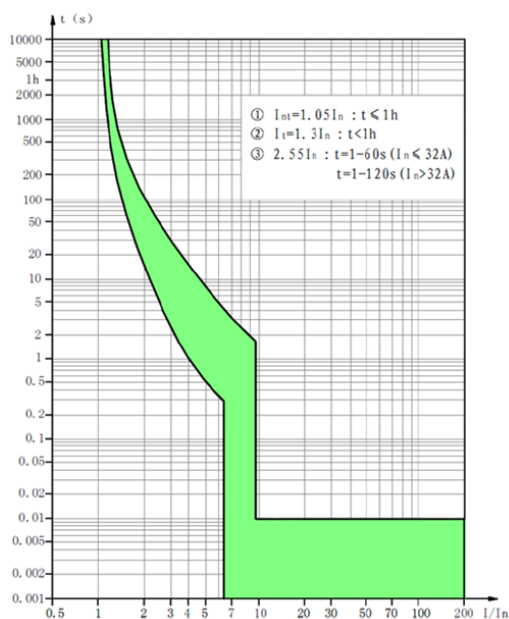
Parameter name	Specific parameter description	Parameter name	Specific parameter description
Model	NDB6A-63H	Rated voltage (V)	AC230/240V (1P/1PN/2P) AC400/415V (3P/3PN/4P)
Rated limit breaking capacity (kA)	6	Electrical endurance (times)	4000
Wiring area (mm ²)	Bare wire:0.75~16 ferrule with plastic sleeve:0.75~10 ferrule without plastic sleeve:16 the schematic diagram of the ferrule's cross-sectional area is as follows:  cross-sectional area of ferrule: 1.3 mm≤L≤6mm, 1.3 mm≤W≤5mm insulation sleeve or heat shrinkable tube diameter≤9.5mm when ferrule is inserted into 25mm depth	Mechanical life (times)	6000
Plug depth (mm)	23~25	Stripping length (mm)	0.75~6mm ² : 12~18 10mm ² : 14~18 16mm ² : 18±1
Unipolar Insertion frame force (N)	≤80	Unipolar Pull out frame force (N)	≤75
circuit breaker insertion and removal times	200	cold pressed end Length (mm)	0.75~6mm ² : 10~16 10mm ² : 12~16 16mm ² : 16±1

5、Working conditions

- Height: $\leq 2000\text{m}$, provide derating parameters at more than 2000 meters
- Ambient temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Can withstand the effects of humid air (Temperature $@+40^{\circ}\text{C}$ and above, air relative humidity does not exceed 50%, allows greater relative humidity at lower temperatures, for example, 95% $@+20^{\circ}\text{C}$)
- Can withstand salt spray for 48 hours
- In a medium without explosion hazard, and the medium does not have enough gas and conductive dust to corrode metal and destroy insulation
- In places where there is no rain or snow

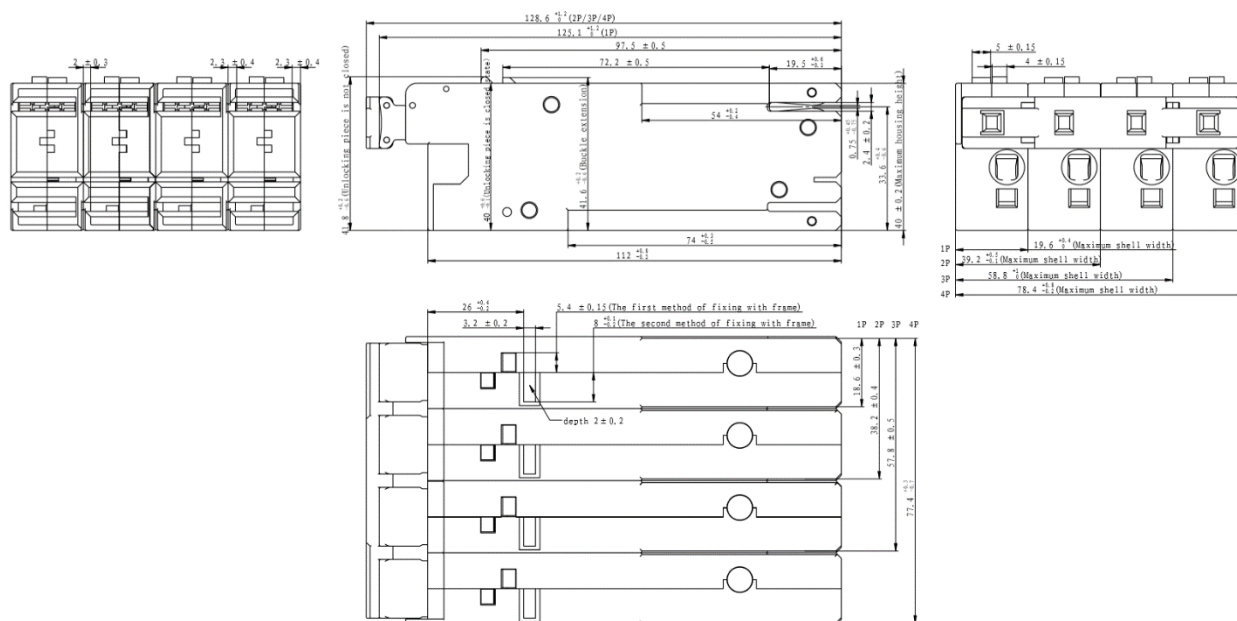
6、Time-Current curves

- Alternating-current
 - Protect conventional and distribution cables
 - Specify ampere rating: 6A、10A、16A、20A、25A、32A、40A、50A、63A
 - Tripping characteristics: instantaneous trip range $8I_n(1 \pm 20\%)$

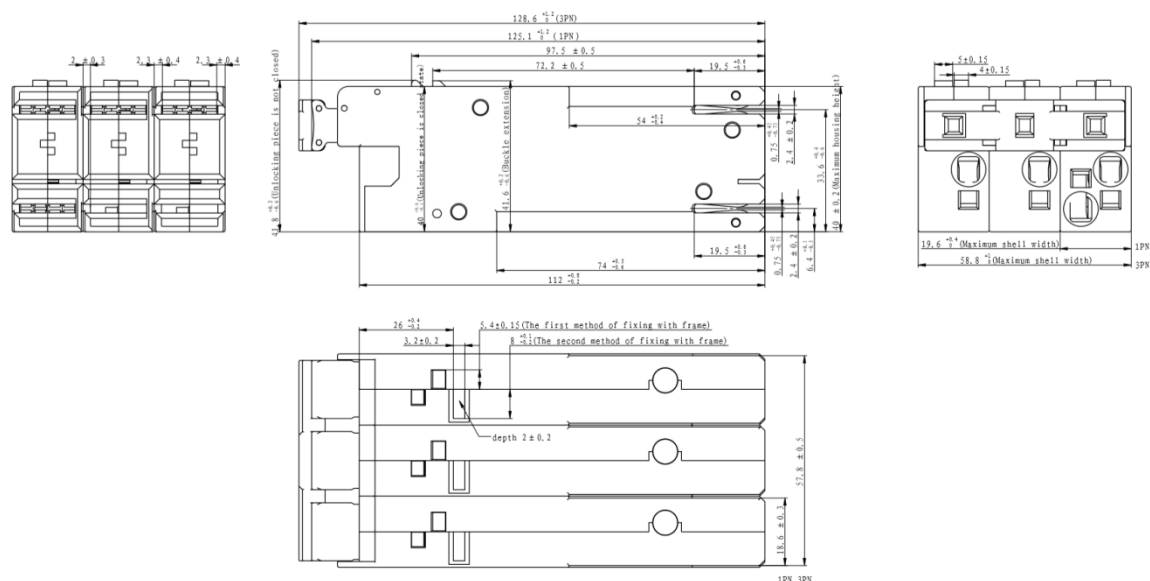


AC $I_i = 8I_n (1 \pm 20\%)$

7、Outline and installation dimensions



NDB6A-63H 1P/2P/3P/4P Outline and installation dimensions



NDB6A-63H 1PN/3PN Outline and installation dimensions

8、Installation method

Plug-in type, the rear end of the copper bar thickness is 2 ± 0.1 mm.

9、Packaging and storage

Maximum number of packages: (1P/1PN:8/box, 2P:4/box, 3P /3PN:2/box, 4P:2/box; packed in boxes:18 boxes/box, it should be stored in a warehouse where air circulation and relative humidity is not more than 80%, temperature is not lower than -40°C but not higher than 80°C . Stored in the warehouse without acid, alkaline or other corrosive gases in the surrounding air.

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Under the above conditions, the storage period shall not exceed 1 year from the date of manufacture.

10、Environment

Product design meets ROHS requirements.

11、Accessory list and installation

None.

12、Notices

1、Take responsibility for yourself if product quality problems caused by unpacking products privately;

2、Do not touch the exposed part of the non-insulated part of the circuit breaker when the work is energized;

3、Please do not arbitrarily debug the characteristics of the circuit breaker. The manufacturer will not be responsible for the product quality problems caused by this;

4、The wiring should be reliable to prevent the breaker from circuit breaker malfunction and terminal burned caused by abnormal heat at the terminals.