

Shanghai Liangxin Electrical Co., Ltd.

NDB6A-125H Moulded Case Circuit Breaker

Product Specification

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

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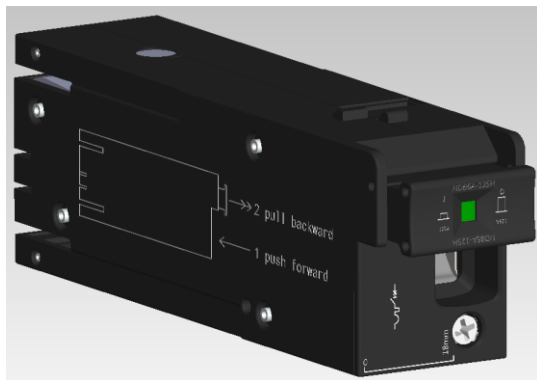
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1. Application

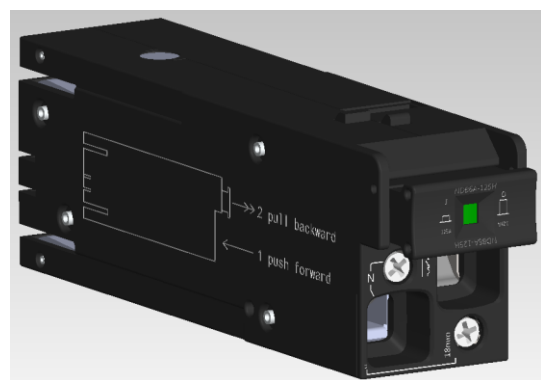
- Short -circuit protection
- Over-load protection
- Isolation protection

NDB6A-125H 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 (Subject to specific physical effects)



1P



1PN



2P



3P



3PN

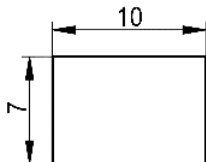


4P

3. Model and implication

ND	B	6A	-	125	H	/	80	/	3
Nader	Breaker	Design		Shelf	Black		Specify amp		Number of poles
Low voltage		number		Rank(A)			rating(A)		1=1P, 1PN=1PN,
electrical				125			80,100,125		2=2P, 3=3P,
appliance									3PN=3PN,4=4P

4. Main technical parameters

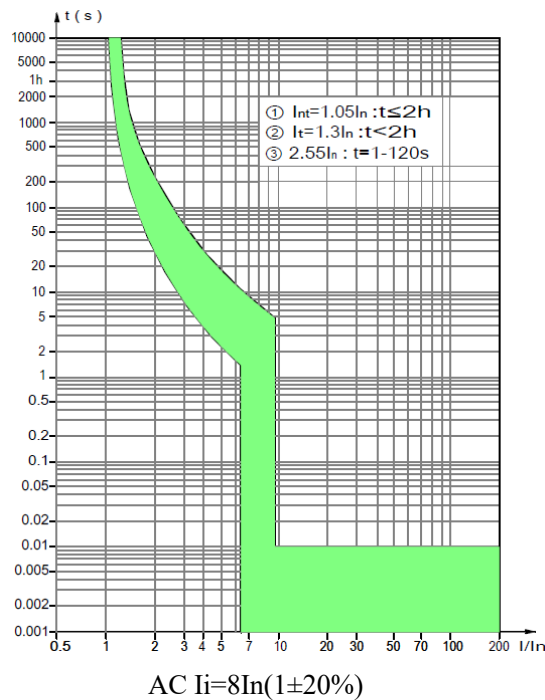
Parameter name	Specific parameter description	Parameter name	Specific parameter description
Model	NDB6A-125H	Rated voltage (V)	AC230/240V (1P/1PN/2P) AC400/415V (3P/3PN/4P)
Rated limit breaking capacity(kA)	6	Electrical endurance (times)	4000
Wiring area (mm ²)	Bare wire : 25 ~ 35 ferrule with plastic sleeve : 10 ~ 25 ferrule without plastic sleeve:35 the schematic diagram of the ferrule's cross-sectional area is as follows:  cross-sectional area of ferrule: length≤10mm,width≤7mm. insulation sleeve or heat shrinkable tube diameter≤12.5mm when ferrule is inserted into 26mm depth.	Mechanical life (times)	6000
Plug depth (mm)	24 ~ 26	Stripping length (mm)	10mm ² : 14~18 16~35mm ² : 18±1
Unipolar Insertion frame force (N)	≤180	Unipolar Pull out frame force (N)	≤170
circuit breaker insertion and removal times	200	cold pressed end Length (mm)	10mm ² : 12~16 16~35mm ² : 16±1

5. Working conditions

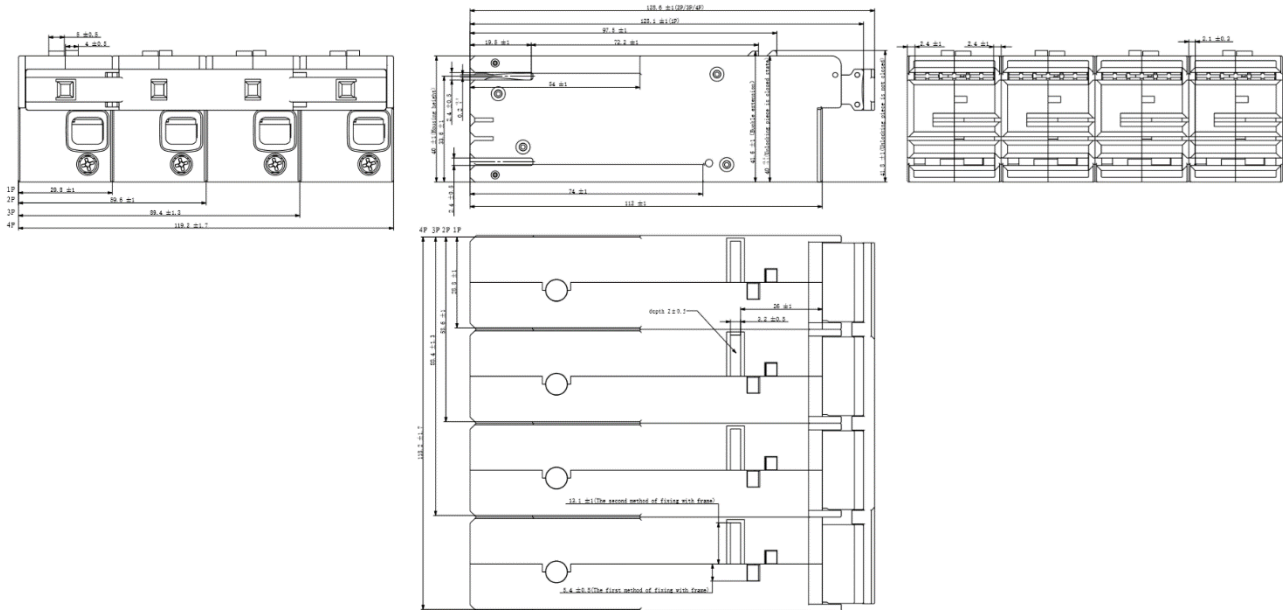
- Height: $\leq 2000\text{m}$, provide derating parameters at more than 2000 meters
- ambient temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Can withstand the effects of humid air (Temperature @ $+40^{\circ}\text{C}$ and above, air relative humidity does not exceed 50%, allows greater 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

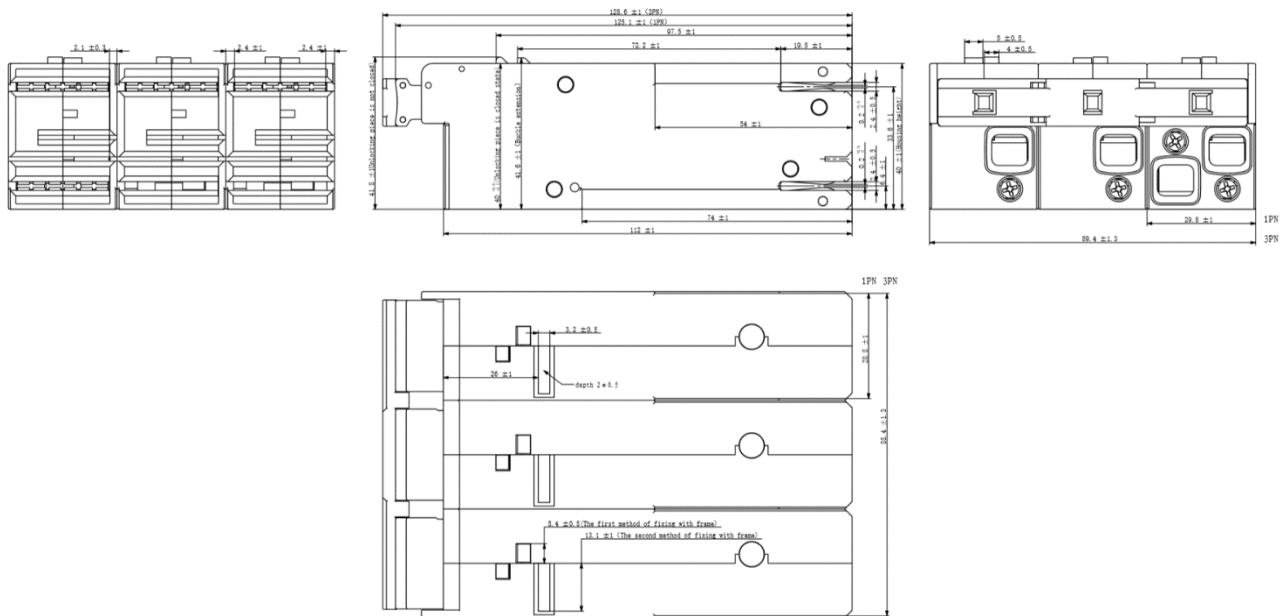
- Alternating-current
- Protect conventional and distribution cables
- Specify ampere rating: 80A, 100A, 125A
- Tripping characteristics: instantaneous trip range $8I_n(1 \pm 20\%)$



7. Outline and installation dimensions



NDB6A-125H 1P/2P/3P/4P Outline and installation dimensions



NDB6A-125H 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, packed in boxes: 12 boxes/box; 3P/3PN/4P: 2/box, packed in boxes: 12 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.

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

N/A.

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.