

Shanghai Liangxin Electrical Co., Ltd.

NDB6AZ-200H/200/1PN MCCB

Product Specification

(IPD-ENG-DEV-T20 A2 2023-03-14)

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Reviewed	Zhan Lijiang	Date	2023-12-25
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Approved	Chen Chuang	Date	2023-12-25

Revision information					
Version	Revised contents and reasons	Date	Prepared	Reviewed	Approved
0	Initial release	20200724	Chen Chuang	Lin Chen	Tang Rui
1	Update product pictures and increase technical parameters	20210201	Chen Chuang	Lin Chen	Shi Honghua
2	Update packaging and storage、specifications and model description Change from DC to DC/AC general	20220106	Zhan li jiang	Chen Chuang	Zhang jing yang
3	Update Rated limit short circuit breaking capacity from Icn to Icu	20220701	Zhao Yangcan	Chen Chuang	Zhang jing yang
4	Update packaging and storage, Update template	20231225	Zhang Liwen	Zhan Lijiang	Chen Chuang

1、Applicable scope and purpose

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

NDB6AZ-200H 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 picture (Subject to specific physical effects)



NDB6AZ-200H breaker

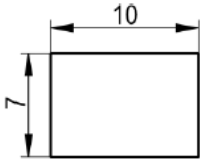
3、Specification model description

ND	B	6A	Z	-	200	H	,	200	/	1PN
Nader	Breaker	Design	DC	Shelf	High	Rated		Rated		Number of
Low voltage		Number	AC	rank	Short-circuit	current		current		poles
electrical			General	(A) 200	Breaking	(A) 200				N pole
appliance					capacitu					straight
										through

4、Main technical parameters

- Electrical parameters
 - Pole number:1PN
 - Rated voltage:DC80V、AC230/240V
 - Rated working current:200A
 - Rated insulation voltage:500V
 - Rated impulse withstand voltage:4kV
 - Power frequency withstand voltage:AC2500V 50Hz 1min
 - Rated limit short circuit breaking capacity I_{cu} :10kA (DC80V), 4.5kA (AC230V/240V)
 - Rated short circuit breaking capacity I_{cs} :7.5kA, 4.5kA (AC230V/240V)
 - Instantaneous trip characteristics: $11I_n(1\pm20\%)$

- Mechanical and electrical endurance
 - Mechanical endurance:6000 times
 - Electrical endurance:4000 times
- Connection

Connection 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:  1.cross-sectional area of ferrule: length≤10mm, width≤7mm 2.insulation sleeve or heat shrinkable tube diameter≤12.5mm when ferrule is inserted into 26mm depth
Plug depth(mm)	24~26
Stripping length(mm)	18
Connecting screw	M5
Standard torque value	2.0Nm

- Protection level
 - Body protection level:IP20
- Use category:Class A
- Installation category:II、III
- Product certification and Executive Standards:
 - CCC GB/T14048.2
 - CB IEC 60947-2
 - CE EN 60947-2
- Environmental requirements
 - The products meet ROHS standard

5、Normal working environment

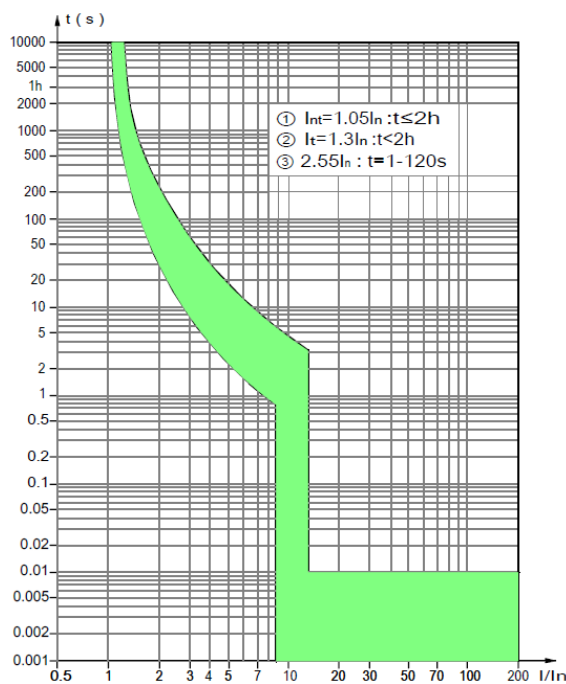
- Operating ambient temperature:-40℃~+70℃
- Storage environment temperature:-40℃~+80℃
- Damp heat resistance:When the temperature is + 40℃ and above, the relative humidity of the air is not more than 50%. A higher relative humidity can be allowed at a lower temperature, for example, 95% at +20℃.
- Altitude:≤2000m, the capacity reduction parameter is provided when it is greater than 2000m.
- Class of pollution:3
- Where there is no significant vibration and impact

- Able to tolerate salt fog for 48 hours

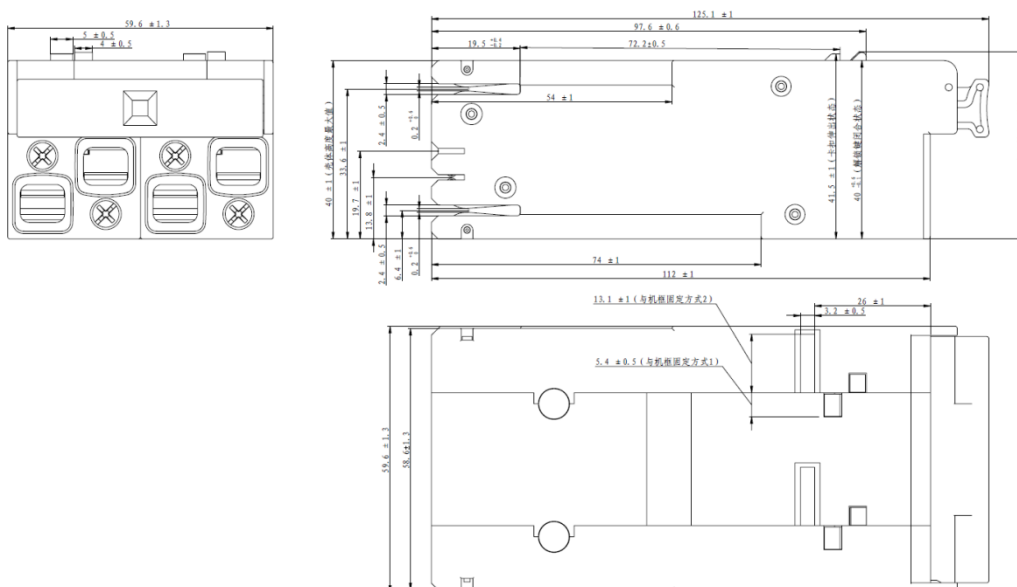
6、Tripping characteristics

●DC

- Protect conventional and distribution cables
- Rated current:200A
- Tripping characteristics:Instantaneous trip range $11I_n(1\pm 20\%)$



7、Product shape and installation size



NDB6AZ-200H Product shape and installation size

8. Installation mode

Plug-in type, the rear end of the copper bar thickness is $2\pm0.1\text{mm}$, signal port copper row thickness is $1\pm0.1\text{mm}$.

9. Packaging and storage

Maximum number of packages:4/box, packed in boxes:16 boxes/box, it should 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 . Store 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. List of accessories and installation

None.

11. Precautions

- 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.