



1. Application

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

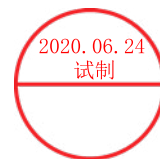
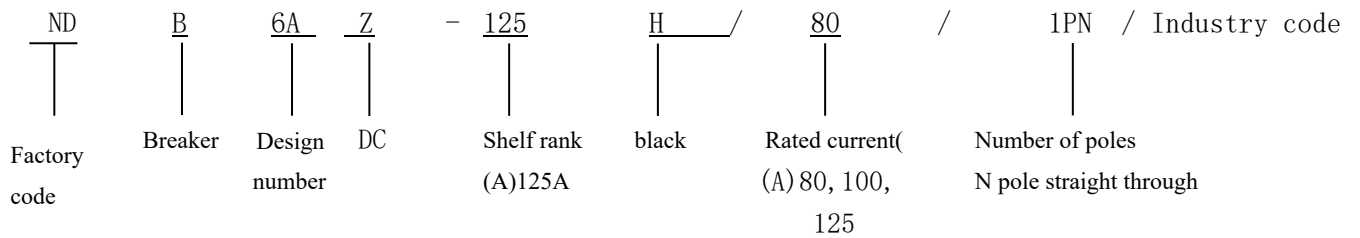
NDB6AZ-125H series products are mainly used in telecommunications equipment rooms or communication cabinets,as isolation,short circuit and overload protection for cabinets,equipment rooms or downstream subscriber lines.

2. Product Pictures (Subject to specific physical effects)



NDB6AZ-125H breaker

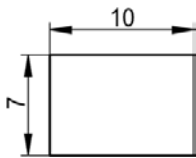
3. Model and implication





4. Main technical parameters

•Electrical and wiring parameter table

Parameter name	Specific parameter description	Parameter name	Specific parameter description
Model	NDB6AZ-125H	Rated voltage (V)	DC80
Rated limit breaking capacity(kA)	10	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 ≤ 0mm, width ≤ 7mm. insulation sleeve or heat shrinkable tube diameter ≤ 12.5mm when ferrul 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
Insertion frame force (N)	≤ 80	Pull out frame force (N)	≤ 70
circuit breaker insertion and removal times	200	cold pressed end Length (mm)	10mm ² : 12~16 16~35mm ² : 16±1

•Comply with UL1077 standard parameter table

Model	Type	UG	FW	Voltage (V)	Current (A)	Hz	TC	OL	SC
NDB6AZ-125H	OC	A,B,D	0	80 Vdc	80~125	2020.06.24 试制	1	0	10kA, U1
				65 Vdc					
				60 Vdc					

5. Working conditions

• Height: ≤2000m, if you want to apply it more than 2000m, you must refer to Miniature Circuit Breaker's derating ratio table:



Altitude H(km)	Rated operating current	Maximum operating voltage	Rated power frequency withstand voltage	Rated impulse withstand voltage	Rated short circuit breaking capacity and electrical life
2	In	Ue	1.00	1.00	1.00
3	0.99In	Ue	0.89	0.89	0.83
4	0.96In	Ue	0.80	0.80	0.71
5	0.94In	Ue	0.73	0.73	0.63

- ambient temperature: -40°C~+70°C
- Can withstand the effects of humid air (Temperature @+40°C and above, air relative humidity does not exceed 50%,allows greater relative humidity at lower temperatures,for example, 95% @+20°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
- temperature correction coefficient table

额定电流(A) 修正电流(A) 环境温度(°C)	80	100	125
-40	105.14	139.33	164.28
-35	103.75	137.20	162.11
-30	102.34	135.04	159.90
-25	100.90	132.84	157.66
-20	99.45	130.61	155.40
-15	97.98	128.34	153.09
-10	96.48	126.03	150.76
-5	94.96	123.67	148.38
0	93.42	121.27	145.97
5	91.85	118.82	143.52
10	90.25	116.32	141.02
15	88.63	113.76	138.48
20	86.97	111.14	135.89
25	85.28	108.47	133.25
30	83.56	105.72	130.56
35	81.80	102.90	127.81
40	80.00	100.00	125.00
45	78.16	97.01	122.13
50	76.28	93.93	119.18
55	74.35	90.75	116.17
60	72.36	87.45	113.07
65	70.00	84.02	109.88
70	68.22	80.44	106.60



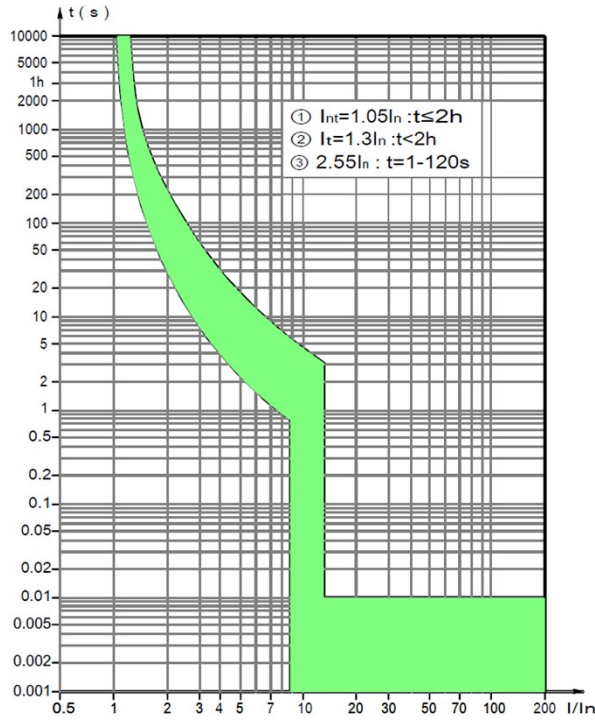
• side by side derating coefficient table

断路器并排数量	1	2~3	4~5	6~9	10
降容系数	1	0.85	0.8	0.75	0.75

6. Time-Current curves

• Direct-current.

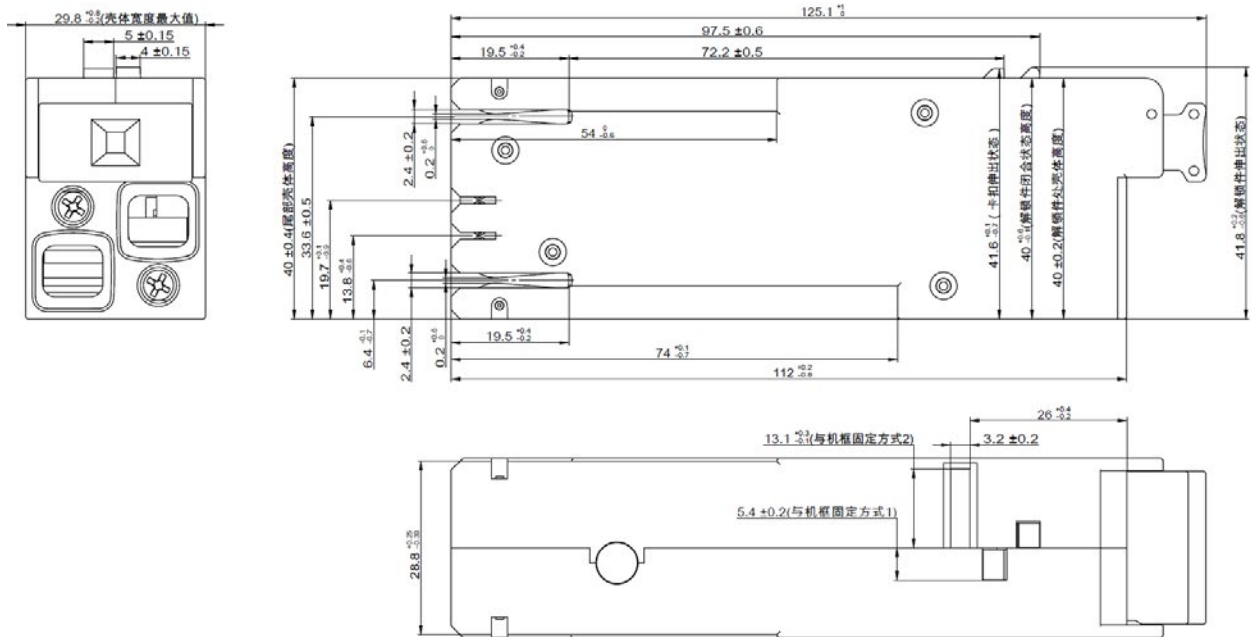
- Protect conventional and distribution cables.
- Rated current: 80A , 100A ,125A.
- Tripping characteristics: instantaneous trip range $11I_n(1\pm 20\%)$



DC $I_i=11I_n (1\pm 20\%)$



7. Outline and installation dimensions

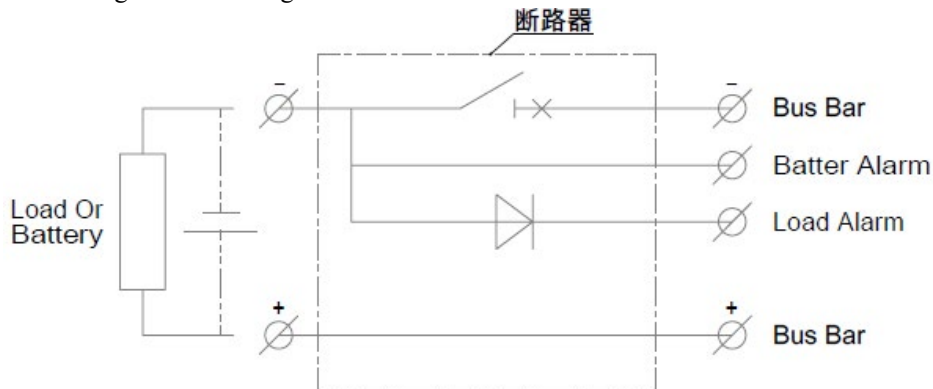


NDB6AZ-125H Outline and installation dimensions

8. Installation method

Plug-in type, the thickness of the rear-end plug in copper row is 2 ± 0.1 mm, signal port copper row thickness is 1 ± 0.1 mm

Signal terminal wiring schematic diagram:



9. Packaging and storage

Maximum number of packages: 4/box, packed in boxes: 24 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 . 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. 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.

