# Shanghai Liangxin Electric Appliance Co.Ltd.

(NDGR2-1250 disconnector)

# Product specification

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	Revision record					
version	Reason/content of revision	date of enforcement	Compiler	Reviewer	approver	
0	Add	2011-10-21	Li Xingwei	Ding Guohui	Li Shengai	
1	Modification of shape and installation size	2012-06-10	Yu Jinzhen	Ding Guohui	Li Shengai	
2	Modification of CCC certification parameters	2014-11-04	Yao Wei	Wu Yali	Zhou Bo	
3	Update template	2018-11-26	Zhang Jiazheng	Wang Jili	Zhou Bo	
4	Update product dimension.	2019-06-30	Jiang Zhaoyon g	Zheng Lei	Wang Jili	
5	Update product dimension and handle padlock status dimension.	2023-09-26	Fan Cong	Liu Donghui	Hu Qi	

#### 1. Scope of application and use

NDGR2-1250 disconnector fuse set is suitable for low-voltage power distribution or motor network with DC or AC 50Hz, rated working voltage of DC500V, AC400V and AC690V, and rated working current of 1250A, and is used for isolating circuits and lines that are not frequently connected and disconnected. It can provide short circuit and overload protection functions.

Products are widely used in power transmission and distribution and automation systems in construction, electric power, chemical industry and other industries.

2, product pictures



NDGR2-1250

3. Description of specifications and models

ND GR 2 - $1250/3/\Box(\Box + \Box + \Box)$			
1 2 3 4 5 6 7 8 9			
serial number	Serial number description	Model meaning	
1	Enterprise code	ND	
2	model	GR: disconnector fuse set	
3	Design serial number	2	
4	specifications	1250A	
5	number of poles	3: Tripole	
	Auxiliary switch form	No code: without auxiliary switch	
6		F1: with an auxiliary switch (normally open and normally closed)	
6		F2: with two auxiliary switches (two normally open and two	
		normally closed)	
		H-shaped: H-shaped handle	
7	Handle type	H-type+interlock: H-type handle with door interlock function	
		Type B: Type B handle with door interlocking function.	
8	Axial length type	L, L1, L2 (see overall installation dimensions for specific length)	

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9	Fuse body specification	Specific size and current specification are selected according to
		customer's needs.

## 4. Main technical parameters

(1) Electrical characteristics

- ▲ Rated isolation voltage Ui: 1250V V.
- ▲ The rated working voltage UE: AC 400v, AC690V, DC500V.
- ▲ Rated impulse voltage Uimp: 12kV
- Rated working current Ie (A)/ power AC 400V AC-23B A/kW 1250/660 690V AC-23B A/kW 1250/1110

DC500V L/R=15ms DC-23B (A) 1250

- ▲ With fuse link size 4
- ▲ Maximum fuse link 1250A
- ▲ Rated connection capacity 400V AC-23B 12500A
- ▲ Rated breaking capacity 690V AC-23B 10000A
- ▲ Rated on-off capacitive load capacity is 400V V. 830kVAr
- ▲ When rated limiting short-circuit current is 400V, 100kA
- ▲ When rated limiting short-circuit current is 690V, 50kA
- ▲ Allowable load
  - When the ambient temperature is  $40^{\circ}$ C 1250A
  - When the ambient temperature is  $45^{\circ}$ C 1200A
  - When the ambient temperature is  $50^{\circ}$ C 1150A
  - When the ambient temperature is 55°C 1100A
- ▲ Auxiliary switch 380V AC-15 6A
- ▲ Auxiliary switch 220V DC-13 0.6A
- (2) Operating performance
  - ▲ Electrical life: 100 times
  - ▲ Mechanical life: 1000 times
  - ▲ Operating torque 38Nm
- (3) Connection ability
  - Rated current (a)1250Minimum copper cable cross section (mm2)  $2 \times 240$ Maximum copper cable cross section (mm2)  $70 \times 14$ Maximum copper cable width (mm)70Terminal tightening torque (Nm)35-45
- 5. Normal working environment
  - ▲ Altitude:  $\leq 2000$ m;

Ambient temperature:  $25 \,^{\circ}\text{C}$  ~+55  $^{\circ}\text{C}$ ; And the 24-hour average value does not exceed +35  $^{\circ}\text{C}$ , and the volume reduction should be considered when the ambient temperature is higher than  $40 \,^{\circ}\text{C}$ ;

- ▲ Pollution level 3;
- A When the highest temperature is  $+40^{\circ}$ C, the relative humidity of the air does not exceed 50%, and higher

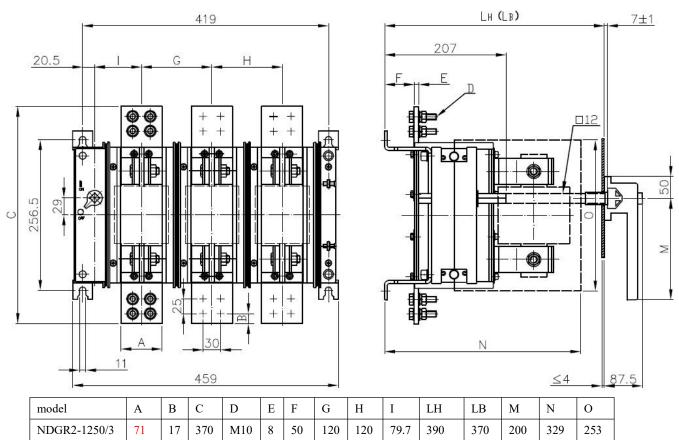
relative humidity can be allowed at lower temperatures, for example, it can reach 90% at +20 °C. Special measures should be taken for the occasional condensation due to temperature changes;

▲ Installation categories III and IV:

▲ It should be installed in a place where there is no obvious shaking, impact vibration and rain and snow. At the same time, the installation site should be free of explosive dangerous media, and there is no gas and dust in the media that can corrode metals and destroy insulation.

#### 6, product appearance and installation size

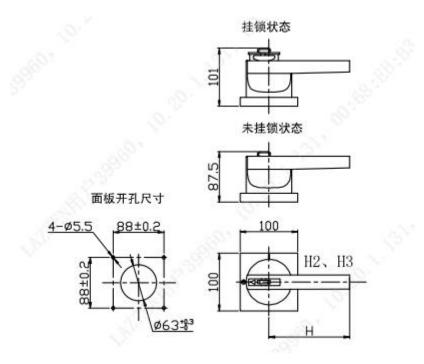
Shape of 3-pole product and installation dimensions of handle outside the cabinet (H-type /B-type)



Note: 1. For the installation dimensions of the handle outside the cabinet (H type /B type), please refer to "3-pole product shape and installation dimensions of the handle outside the cabinet (H type /B type)".

H-shaped handle size and mounting hole size

J LAZZEN 良信



Note: here H=200(H3)

## B-type handle size and mounting hole size



Note: M=180 here.

#### 7. Installation method

Vertical installation, wire feeding mode can be up and down, or down and up.

#### 8. Packaging and storage

The storage temperature of products packed in boxes is  $-50^{\circ}$ C $\rightarrow+80^{\circ}$ C, and the products must not be attacked by rain during transportation.

#### 9. Attachment List and Installation

#### List of accessories for H-handle

serial number	name	unit	quantity	remarks
1	axis	root	1	
2	Coupling (including screws)	set	1	
3	hand shan	set	1	
4	Self-tapping screw for fixing handle	individual	4	
5	Handle pad	piece	1	
6	Adjusting sample	piece	1	
7	H series handle instruction manual	basis	1	

#### List of accessories for type B handle

serial number	name	unit	quantity	remarks
1	axis	root	1	
2	hand shan	set	1	
3	Self-tapping screw for fixing handle	individual	2	

#### 10. Matters needing attention

- ▲ The default standard handle of the product is H-series handle. If B-series handle or cabinet handle is needed, it should be noted that H-series handle and B-series handle can be padlocked, but the cabinet handle has no padlock function.
- ▲ If the required installation depth is beyond the normal given range, the required installation depth should be indicated.