Our goal is the sea of stars!

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Giantele®

XL-21

Low voltage power distribution cabinet



www.giant-electric.com

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XL-21

Low voltage power distribution cabinet

Product introduction

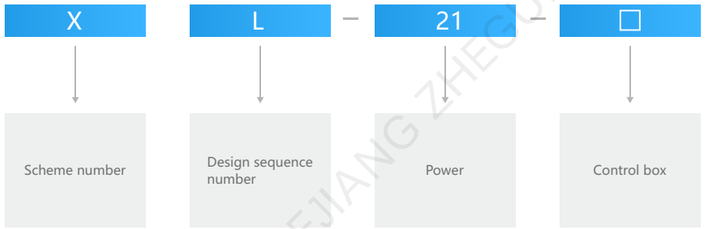
XL-21 low-voltage power distribution cabinet is suitable for power distribution of three-phase four-wire or three-phase five-wire system with AC voltage of 500 volts and below in power plants and industrial and mining enterprises. XL-21 type low-voltage power distribution box is installed against the wall, and the screen is repaired before the installation.





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Model meaning



Environmental condition

- Ambient temperature: -50℃ ~+40℃, and the average temperature within 24h does not exceed +36℃;
- Altitude: no more than 2000m;
- Relative humidity: no more than 50% when the ambient air humidity is +40℃; At lower humidity there can be a higher relative humidity (e.g. 90% at +20 ° C), allowing for moderate condensation taking into account the change in temperature.
- The inclination between the vertical plane and the device should not exceed 5°. The device should be installed in a place without severe vibration, impact, or corrosion.

Structural characteristics

- XL-21 type low-voltage power distribution cabinet is closed, the shell is made of steel plate bending, the knife switch operation handle is installed in the upper right column in front of the box, which can be used as a power switch.
- A voltmeter is installed in front of the distribution box to indicate the voltage of the bus bar.
- There is a door in front of the distribution box. After the door is opened, all the equipment in the distribution box is open for easy maintenance.
- The distribution box adopts domestic self-designed components, with compact structure, easy maintenance, line scheme can be flexibly combined and so on. In addition to air circuit breakers and fuses for short circuit protection, the distribution box is also equipped with contactors and thermal relays, and the front door of the box can be equipped with operation buttons and indicators.

Use, maintenance and overhaul

- After installation or maintenance of the power distribution box, the following checks and tests must be carried out before it is put into operation (the inspection and test after maintenance depends on the quality of its maintenance).
- Check whether the electrical equipment installed inside the power distribution cabinet and the secondary wiring meet the requirements of the drawing.
- Check whether the knife switch and air switch used for operation are flexible, and there should be no clamping pattern.
- Check whether the contact of the installed electrical equipment is good and whether it meets the requirements of the electrical equipment itself.
- Check whether there are other foreign objects in the power distribution cabinet and whether each part of the solid screws are loose.

Order instructions

- The customer shall provide the following information when ordering:
- Single-line plan and single-line system diagram;
- Secondary line expansion system diagram;
- Detailed specifications and data of various electrical equipment in each box;
- The arrangement and layout of the power distribution cabinet shall be provided when ordering the Type B structure.

Technical parameters of the main equipment

Knife fusion combination switch

Model number	Rated current (A)	Melt current rating (A)	Remark
HR3-400/34	400	150,200,250,300,350,400	There is no melt when installing the isolating blade

Current transformer

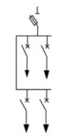
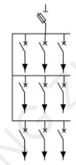
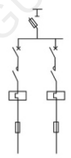
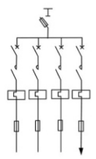
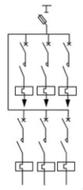
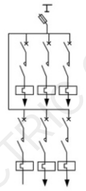
Model number	Rated current (A)	Secondary current (A)	Remark
LM-0.5	75、100、150、200、300、600	5	

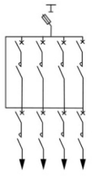
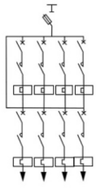
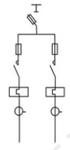
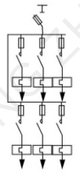
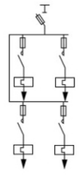
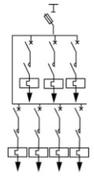
Fuse

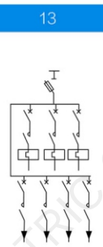
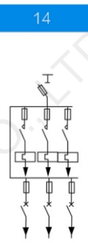
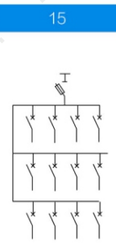
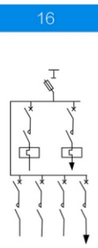
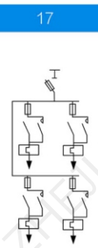
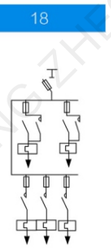
Model number	Fuse	Fuse current rating (A)	Remark
RL1-15	15	2、4、5、6、10、15	
RL1-60	60	20、25、30、35、40、50、60	
RL1-100	100	30、40、50、60、80、100	
RL1-200	200	80、100、120、150、200	
RL1-400	400	150、200、250、300、350、400	

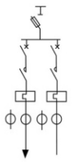
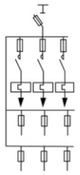
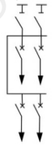
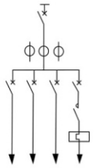
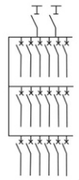
Ac contactor

Model number	Rated current (A)	Suction coil voltage (V)	Remark
CJ10-10	10	Communication 110 220 380	
CJ10-20	20		
CJ10-40	40		
CJ10-80	80		
CJ10-150	150		

Scheme number	01	02	03	04	05	06
Main circuit scheme diagram						

Scheme number	07	08	09	10	11	12
Main circuit scheme diagram						

Scheme number	13	14	15	16	17	18
Main circuit scheme diagram						

Scheme number	19	20	21	22	23	24
Main circuit scheme diagram						

Scheme number	25	26	27	28		
Main circuit scheme diagram	