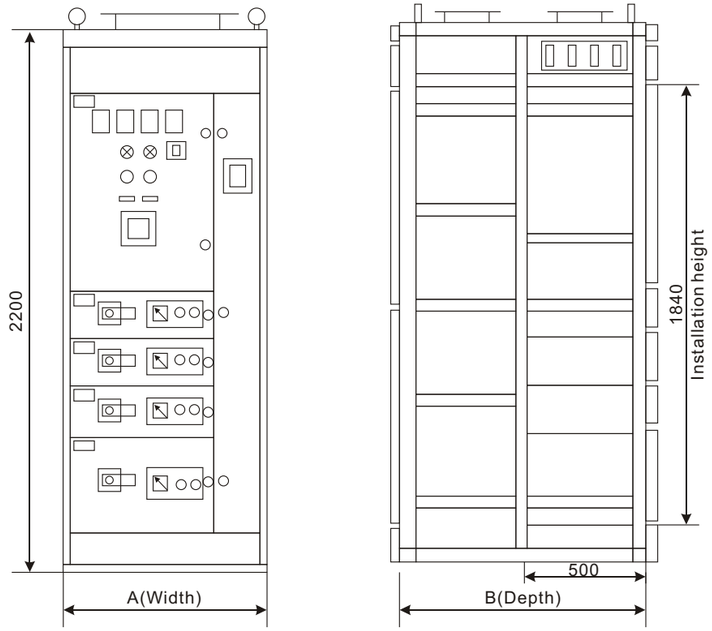
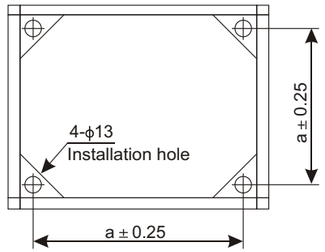
Outline and dimension



Installation dimension:

Dimension A	Dimension B	Dimension a	Dimension b
600	800	490	690
	1000	490	890
800	800	685	690
	1000	685	890
1000	800	890	690
	1000	890	890



GGD Low Voltage Switchgear

Summary

GGD model AC LV Withdrawable applies to power plant, substation industrial enterprise, as motive force in AC 50/60Hz, rated working voltage 380/415V, rated current 3150A and below distribution system. For transferring power energy, distributing and controlling of lightning and distribution. High breaking capacity, rated short time current will reach 50kA. Flexible circuit scheme, convenient combination, novel structure.
This product conforms to IEC60439 LV Switchgear and controlgear, GB7251 LV Switchgear and controlgear etc.

Ambient condition

1. Ambient temperature: -5℃~+40℃, daily average temperature ≤+35℃;
2. Altitude: ≤2000m, indoor type;
3. Ambient relative humidity at highest temperature +40℃ not exceed 50%;
4. Allowed max relative humidity at low temperature, example for +20℃ is 90%, it will occur moderate moist due to temperature change;
5. Vertical installation, gradient: ≤5%;
6. Occasions without flammable and explosive matter, without corrosive chemical and frequent severe vibration.

Model

G G D □ / □ □

- □ □ — Auxiliary circuit scheme code; Main circuit scheme code
- □ — Design serial No.: 1-Breaking capacity 15kA; 2-Breaking capacity 30kA; 3-Breaking capacity 50kA
- D — Electric power panel
- G — Fixed installation and fixed wiring for components
- G — AC LV distribution panel

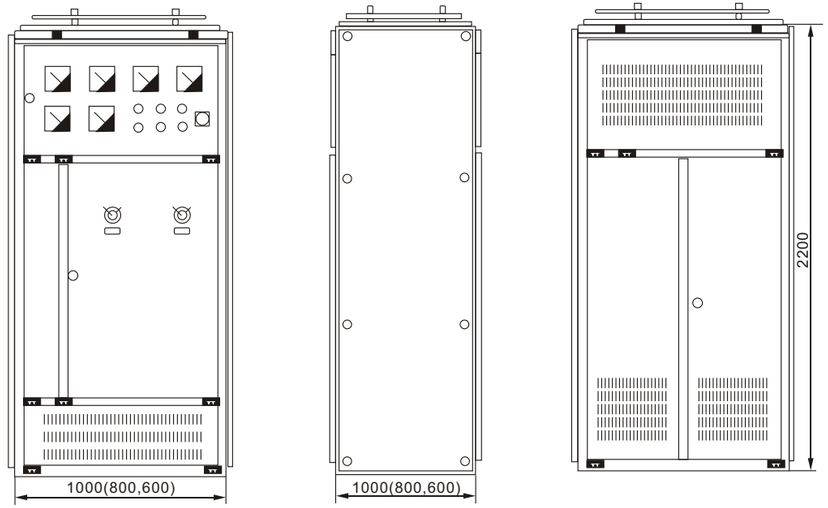
Product feature

1. GGD AC LV distribution panel adopts commonly type, the frame are welded or assembled by 8MF cold bend steel, the components and special fitting of frame are supplied by our company. To keep perfect precision and quality.
2. Commonly panel components are designed reference to module principle, 20 modular, high commonly factor, shorten production cycle and improve production efficiency.
3. We have taken account of heat radiation during operating when got ready to design. There are many heat radiation slotted eye from top to bottom on the body. Heat quantity will displace to direction of upper slotted eye, then the cold wind will be compensated from bottom slotted eye, when the components is heating and increase heat quantity, then form to a natural air channel.
4. GGD panel adopts modern industrial style design, adopts golden section method to design panel outline and section dimension of every parts.
5. The panel door are connected by transfer axle type moving link chain and frame, convenient to install and disassemble.
6. There is a rubber plastic bar in the place of edge and a compress travel between door and frame in closing.
7. Panel finishing coat of instrument door chooses multi strand soft copper line to connect with frame.
8. The installation components and frame are connected by knurled washer to complete earthing protection system.
9. The body finishing coat is choice polyester orange type bake lacquer, also can choose spouting moulding technology, strong adhesive force.
11. The body protection degree is IP 30, allowed scope is from IP 20 to IP 40 according to ambient condition.

Technical specification

Type	Rated voltage (V)	Rated current (A)		Rated short circuit breaking current (kA)	Rated short time withstand current (1s)(kA)	Rated peak withstand current (kA)
GGD1	400	A	1000	15	15	30
		B	600(630)			
		C	400			
GGD2	400	A	1500(1600)	30	30	63
		B	1000			
		C	600(630)			
GGD3	400	A	3200	50	50	105
		B	2500			
		C	2000			

Outline drawing



MCS Intelligent LV Withdrawable Switchgear

Summary

MCS intelligent LV withdrawable switchgear applies to power plant, petrifaction, telecom, light industry, textile, construction and other civil and industrial & mineral enterprise distribution system. It regards to distribution, electromotor centralized control, reactive power factor compensation LV distribution device in the large power plant, telecom system, it combines computer interface to match it. The product conforms to: IEC60439 LV switchgear and controlgear, JB/T9661 LV drawable switchgear, GB7251 LV switchgear and controlgear.

Structure feature

1. The body adopts "c" type to combine it, uniform appearance, high precision, perfect interchange for drawer.
2. MCC panel width is 600mm,wide using capacity, save space.
3. It can equip with different type switch according to different requirement.
4. The device is obligate automatic interface, also install intelligent module on the panel to realize remote message, remote measurement remote control.

Ambient condition

1. Ambient temperature: -5℃~+40℃, daily average temperature ≤+35℃;
2. Altitude: ≤2000m;
3. Relative humidity: ≤90% (20℃);
4. Vertical installation, slant: ≤5 degree;
5. Occasions without flammable and explosive matter, without corrosive chemical and frequent severe vibration.

Basic parameter

1. Electrical performance:
   Rated working voltage: AC380V, AC660V;
   Rated frequency: 50(60)Hz;
   Rated insulation voltage: AC660;
   Max working current of main busbar: 5000A;
   Main busbar short time withstand current(1s): 100kA;
   Main busbar peak withstand current: 220kA;
   Max working current of vertical busbar: 1600A.
2. Protection grade:
   IP30(incoming,PC panel)
   IP40(MCC panel)

Drawer function unit

The drawer function unit is divided into MCC Ⅰ, MCC Ⅱ, MCC Ⅲ.

1. MCC Ⅰ type
   Width of drawer is 600mm, height is 180mm, 360mm, 540mm. Allowed installation height is 1800mm, 10 units are the top quantity according to the dimension of drawer. It is suitable for heavy current motor control centre and feeder loop.
2. MCC Ⅱ type
   Width of drawer is 600/2mm, height is 200mm. Allowed installation height is 1800mm,18 units are the top quantity according to requirement. It is suitable for 100 A or below unit.
3. MCC Ⅲ type
   Width of drawer is 600/2mm, height is 180mm, 360mm, 540mm. Allowed installation height is 1800mm, 20 units are the top quantity. It is suitable for 630A or below.
4. Operating mechanism
   An operating mechanism is used for opening and closing switch in every drawer. Additional of mechanical interlock for prevent from fault operation. MCC Ⅱ, MCC Ⅲ drawer is push and pull type, fixed device and protection measure.