

Complete Set Company - Power Control System

>> Low Voltage Power Box



GGD AC Low Voltage Power Distribution Cabinet

About the Product:

GGD AC Low Voltage Power Distribution Cabinet applies to power generation and supply system of three-phase 50Hz AC , rated voltage is 380V, rated current is 3150A and below for the power, power distribution and lighting as well as the power transfer and control. It is widely used in power plants, substation, industrial and mining enterprises. GGD AC Low Voltage Power Distribution Cabinet is a safe, economical and reasonable AC power distribution box which is designed by two design unions in accordance with the majority of the electricity users and the design department.

The products have high breaking capacity and dynamic thermal stability, advanced and reasonable structure, realistic programme and high universality. It can be used as the new generation low voltage series switch equipment product.

The design of this equipment meets the standards of IEC439 《Low Voltage Series Switch and Control Equipment》 , GB7251 《Low Voltage Series Switch Equipment》 and so on.

GGD AC Low Voltage Power Distribution Cabinet of our company had passed national mandatory product identification.

Model Meaning

Basic Electrical Appliance Parameters

model	rated voltage (V)	rated current (A)	rated short circuit breaking current (KA)	rated short-term short current tolerance(IS)(KA)	rated peak value current tolerance (KA)
GGD1	380	A1000	15	15	30
		B600 (630)			
		C400			
GGD2	380	A1500 (1600)	30	30	63
		B1000			
		C600			
GGD3	380	A3150	50	50	105
		B2500			
		C2000			

working and environmental conditions

surrounding air temperature is lower than +40 and is above -5 , average temperature in 24h is lower than +35 , indoor installation and the altitude less than 2000m relative humidity lower than 50% at +40 , higher relative humidity is allowed if the temperature is low. E.g.: 90% at +20 Should consider dew influence which is occasionally caused by the change of temperature The vertical angle is smaller than 5 the equipment should be installed in the places of no fierce vibration and impact and strong corrosion. The user should consult with the manufacturer for special requirements.

GGD AC Low Voltage Power Distribution Cabinet is assembled by the combination of boxes. Its frame is partially welded by the 8MF cold-formed steel and the parts of the frame are offered by the designated manufacturer so as to guarantee the accuracy and quality. The general box spare parts are designed according to the module principles, and have 20mm modulus installation holes, which can be used widely and enable the factory to realize the pre- production. It greatly shortened manufacturing cycle and enhanced work efficiency.

GGD cabinet--According to the modern industry product modeling design requirements and the 0.618 ratio method, we design the cabinet body contour and the division size of each part, which makes the entire cabinet artistic and takes on an entirely new look.

There are different quantities of heat releasing holes in the top and bottom of the cabinet. When the electric components in the cabinet are heated, the hot air will be released through the upper slot holes. Meanwhile, cool air is supplemented continuously from the bottom slot holes. Thus, the sealed cabinet becomes a natural ventilation channel to discharge the heat. The cabinet door adopts a rotary moveable hinge which is connected with the frame. It is easy to install and remove. There is a rubber at the fold of the door. If the door closes, there is a certain distance for compression to prevent direct collision between the door and the cabinet. Therefore, the protection rank is improved.

The lid of the cabinet is removable when necessary, which facilitates the assembly and adjustment of the main generator. There are four rings at the cabinet top corners which are for hoisting and shipping.

The protection rank is IP30. Users can select between IP20 ~ IP40 according to the using conditions.

The meter gate loaded with electrical components is connected with the frame by multi-strands of soft copper wire. The installation parts and the frame are connected by the knurling screws to rectify the cabinet order and make it a complete grounded protection circuit.

The cabinet is painted with orange baked polyester. It is feasible to have plastic powders processed first. Both can guarantee strong adhesion and smooth texture. The whole cabinet presents a matt shade avoiding the blind effect and creating a comfortable visual environment for the worker.

Cautions

This equipment is a low-voltage power distribution cabinet which cannot be installed on the wall and must be operated from one side (the front) and allows double-door maintenance. Only qualified specialists can enter the maintenance access and the cabinet door or start the equipment to operate, inspect and repair.

Air circuit breaker—after several times of open and close, the main contact would be partially burnt and produces carbon materials which would increase the contact resistance. Thus, regular maintenance and repair in accordance with the manual are needed.

Order Information

All products model (includes main circuit programme NO. and each auxiliary circuit programme NO.)

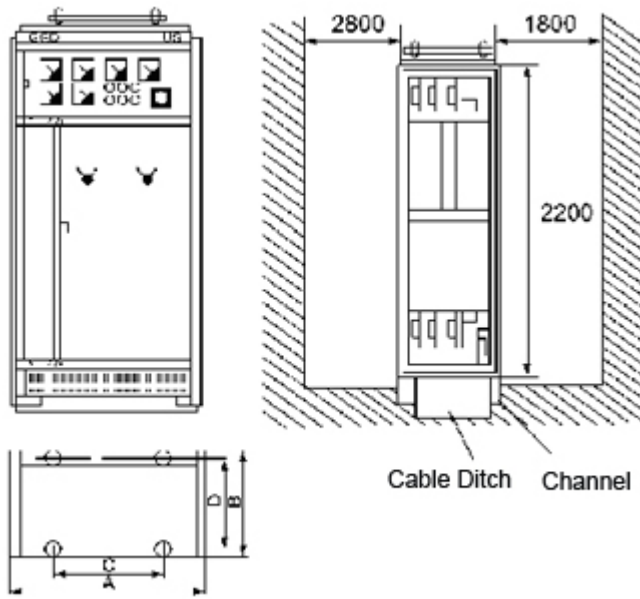
Main circuit system combination order chart

Auxiliary circuit electricity schematic diagram

cabinet components list;

Other special requirements inconsistent with normal condition.

Color of the power box surface (the manufacture standard color is: light tan)
installation diagram



product code	A	B	C	D
TGGD 06	600	600	450	556
TGGD 06A	600	800	450	756
TGGD 08	800	600	650	556
TGGD 08A	800	800	650	756
TGGD 10	1000	600	850	556
TGGD 10A	1000	800	850	756
TGGD 12	1200	800	1050	756