

GGD

低压开关柜 Low-voltage Switchgear



产品概述

GGD 型交流低压配电柜适用于发电厂、变电站、厂矿企业等电力用户的交流 50/60Hz 额定工作电压 380V、额定工作电流至 3150A 的配电系统，用作动力、照明及配电设备的电能转换、分配与控制之用。

GGD 型交流低压配电柜的柜体采用通用柜的形式，构架用 8MF 冷弯型钢局部焊接组装而成，构架零件及专用配套零件由型钢定点生产厂配套供货，以保证柜体的精度和质量。

通用柜的零部件按模块原理设计，并有以 20mm 为模块的安装孔，通用系数高。可以使工厂实现预生产，既缩短了生产制造周期，也提高了工作效率。

环境条件

1. 运行条件：户内；
2. 海拔高度：≤ 2000m；
3. 地震烈度不大于 8 度；
4. 周围空气温度上限：+40℃；
5. 24 小时平均温度上限：+35℃；
6. 周围空气温度下限：-5℃；
7. 周围环境相对湿度在 +40℃ 时为 50%；
8. 没有火灾、爆炸危险、严重污秽及足以腐蚀金属和破坏绝缘的气体等恶劣场所；
9. 没有剧烈震动、颠簸的场所。

Product Summary

GGD low-voltage switchgear can be applied as power distribution, electromotor control, and other electrical transfer and distribution devices in 3phase AC electrical power system at 380V rated operating voltage 3150A max operating current and 50/60Hz frequency. It can be applied as power distribution, electromotor control, and other electrical transfer and distribution devices.

GGD low-voltage switchgear has universal panel body. Its frame is welded and constituted by 8MF roll formed shape, and frame components will supply by planned shape steel manufacture. So it can ensure the accuracy and quality of panel body.

Components of panel body are modular designed, and its module of install hole is 20mm. So it can decrease the manufacture period and increase efficiency.

Environmental Conditions

1. Operating Condition: Indoor.
2. Altitude: No more than 2000m.
3. Earthquake Intensity: No more than 8 degrees.
4. Ambient Temperature: No more than +40℃ .
5. Average temperature within 24 hours: No more than +35℃ .
6. Ambient Temperature: No less than -5℃ .
7. Relative Humidity: 50% when the temperature is +40℃ .
8. No fire, explosion danger, serious dirt, chemical corrosion and violent vibration for product installed place.
9. No violent vibration, shake and bumpy site.

产品特点

1. 框架具有足够的强度和刚度，能承受安装元件及短路时所产生的机械应力和电动力，同时不因装置的吊装运输等情况而影响装置的性能。
2. 柜体设计时充分考虑到设备运行中的散热问题。在柜体上下两端均有不同数量的散热槽孔，当柜内电器元件发热后，热量上升，通过上端槽孔排出，而冷风不断地由下端槽孔补充进入柜内，使密封的柜体自下而上形成一个自然通风道，达到散热的目的。
3. 装有电器元件的仪表门用多股软铜线与构架连接。柜内的安装件与构架间用滚花螺钉连接，整柜构成完整的接地保护电路。
4. 柜体的顶盖在需要时可拆除，便于现场主母线的装配和调整，柜顶的四角装有吊环，用于起吊和装运。

Product Features

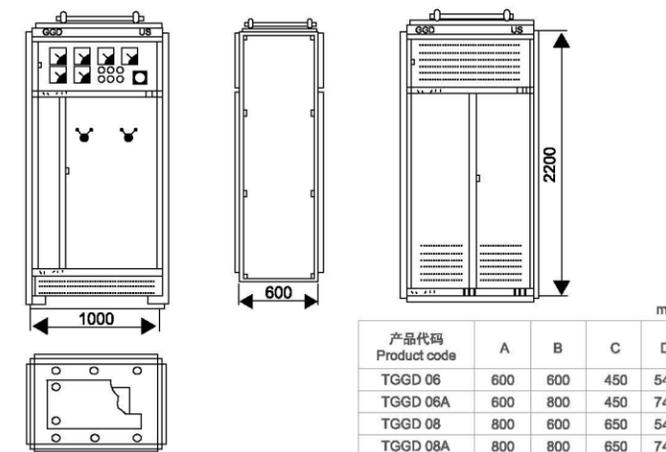
1. The frame should have sufficient strength and rigidity, which can withstand the mechanical stress and electrodynamic force generating from installation components and short circuit, besides, the device performance should not be affected by the device lifting and transportation, etc..
2. The design of cabinet shall give full consideration to the heat dissipation during the equipment operation. Different cooling slots are provided at the upper and lower ends of cabinet. When the electrical components inside the cabinet heats, the heat rises to discharge from the top slot, while the cold air enters the cabinet from the bottom slot, to form natural ventilation from bottom to top in the sealed cabinet, to achieve the cooling purpose.
3. The instrument doors equipped with electrical components are connected with framework by multi-strand soft copper wires. The installation parts in the cabinet are connected with the framework by knurled screws, forming a complete grounding protection circuit in the whole cabinet.
4. The cabinet cover can be removed when necessary, to facilitate the main bus assembly and adjustment in the site. Flying rings are provided at the four corners of the cabinet top for lifting and shipping.

技术参数

序号 Sr	名称 Content	单位 Unit	数值 Value	
1	额定工作电压 Rated Operating Voltage	V	380/690	
2	额定绝缘电压 Rated Insulation Voltage	V	660/1000	
3	额定频率 Rated Frequency	Hz	50	
4	主母线 Main Bus-Bar	额定电流 Rated Current	A	≤3150
		额定短时耐受电流 (1s) Rated Short-time Withstand Current(1s)	kA	≤50
		额定峰值耐受电流 Rated Peak Withstand Current	kA	≤105
5	配电母线 Distribution Bus	额定电流 Rated Current	A	≤1600
		额定短时耐受电流 (1s) Rated Short-time Withstand Current(1s)	kA	≤50
		额定峰值耐受电流 Rated Peak Withstand Current	kA	≤105
6	Imin 辅助回路工频耐受电压 Aux. circuit Frequency Withstand Voltage in 1min	kV	2	
7	额定脉冲耐受电压 Rated Impulse Withstand Voltage	kV	8	
8	防护等级 Protect Degree	IP	至 IP3X To IP3X	
9	电气间隙 Electrical Clearance	mm	≥10	
10	爬电距离 Creepage Distance	mm	≥12.5	
11	过电压等级 Over-voltage Level	-	III / IV	
12	污染等级 Class of Pollution	-	3	

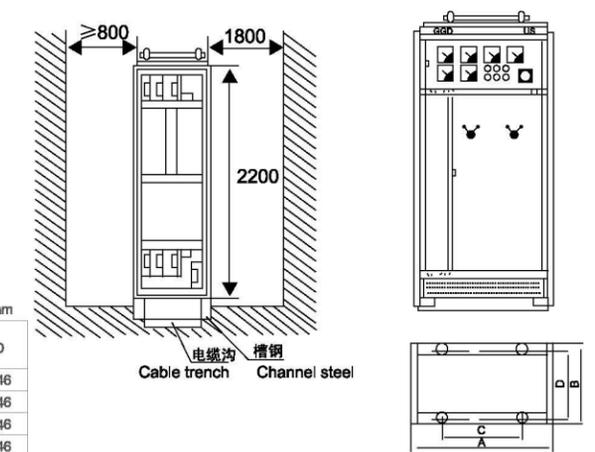
Technical Parameters

开关柜结构尺寸示意图



外形示意图 Outline Sketch Diagram

Structure Dimension and Sketch



安装示意图 Installation Sketch Diagram