RENLE

Professional Manufacturer of
Smart Grid•New Energy•Electric Drive

GGD型

交流低压配电柜

Low-voltage AC power distributing cabinet



创芯科技 · 智惠全球

股票代码：833586

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Science&Technology Co., Ltd.

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概述 Introduction

GGD型低压固定式成套开关设备适用于发电厂、变电所、工矿企业等电力用户作为交流50Hz，额定工作电压380V，额定电流至3150A的配电系统中作为动力，照明及配电设备的电能转换，分配与控制之用。该产品分断能力高，额定短时耐受电流达50kA。线路方案灵活、组合方便、实用性强、结构新颖等特点。该产品是我国组装式、固定面板开关柜的代表产品之一。

该产品符合GB7251《低压成套开关设备和控制设备》、IEC60439《低压成套开关设备和控制设备》，等标准。

GGD AC low voltage distribution board is applicable to power plant, transformer substations and industrial corporations. It serves as power source, power transformation, distribution and control equipment of illumination and distribution equipment in AC 50 Hz distribution systems which rated voltage is 380V and rated current is not above 3150A. The product has high breaking capacity, and its rated prospective short-circuit withstand current can reach 50kA. Because of its flexible wiring scheme, it provides convenient arrangement, favorable practicability and novel structure. The product features the national assembled and fixable switchboard.

The product is compliant with the Low Voltage Unit Switch Equipment and Control Equipment standard IEC439 and the Low Voltage Unit Switch Equipment standard Gb7251.



使用环境条件 Service Condition

- 环境温度：-5℃~+40℃
  24h内的平均温度不得高于 35℃。
- 海拔高度：2000m及以下。
- 相对湿度：在最高温度为 40℃时不超过50%，在较低温度时允许有交大的相对温度（例如 20℃时为90%）应考虑到由于温度的变化可能会偶然产生凝露的影响。
- 设备安装时与垂直面的倾斜度不超过5° 。
- 设备应安装在无剧烈振动和冲击的地方，以及不足以使电器元件受到腐蚀的场所。
- 用户有特殊要求时可与本公司协商解决。

- The ambient temperature is between –5℃and +40℃, and the mean temperature of 24 hours is not above +35℃.
- Altitude: no more than 2000m.
- Relative humidity is not above 50% when the ambient temperature is not above +40℃. When the temperature is relatively low, higher relative humidity is allowed (for example, the allowed relative humidity is 90% when the ambient temperature is +20℃). Condensation may occur occasionally due to temperature alteration.
- The lean between equipment and vertical plane should not exceed 5% during installation.
- In order to protect the electric components, the equipment should be mounted in a concussion and corrosion-proof site.
- Please consult our company if you have any special requirements.

型号及其含义 Types and Meanings

GGD □-□-□-□

“D”供用电部分	D for power supply and consumption part
“F”发电部分	F for power generation part
辅助电流方案代号	Code for auxiliary current plan
主电路方案代号	Code for main circuit plan
设计序号	Design Sequence
1–分断能力为15kA	1-Breaking capacity is 15kA
2–分断能力为30kA	2-Breaking capacity is 30kA
3–分断能力为50kA	3-Breaking capacity is 50kA
电力用柜	Cabinet for electric power
电器元件固定安装、固定接线	Fixed installation and wiring for electrical components
交流低压配电柜	AC low-voltage power distribution cabinet

开关设备技术参数（见表1） Technical Parameters for Switch Equipment (See the Fig. 1)

表1 Sheet 1

型号 Type	额定电压（V） Rated Voltage (V)	额定电流（A） Rated Current (A)		额定短路开断电流（kA） Rated Short-Circuit Breaking Current (kA)	额定短时耐受电流（Is）（kA） Rated Withstand Current during short circuit (Is) (kA)	额定峰值耐受电流（kA） Rated Withstand Current during peak (kA)
GGD1	380	A	1000	15	15	30
		B	600（630）			
		C	400			
GGD2	380	A	1500（1600）	30	30	63
		B	1000			
		C	600			
GGD3	380	A	3150	50	50	105
		B	2500			
		C	2000			

辅助电路方案

辅助电路的设计分供用电方案和发电厂方案两部分。

主母线

额定电流在1500A及以下时采用单铜排母线。额定电流大于1500A时采用双铜排母线。母线的搭接面均采用搪锡工艺处理。

水平母线选用（见表2）

辅助电路方案中性接地母线选用（见表3）

Auxiliary Circuit Plan

Design for the auxiliary circuit is divided into two parts: use in power supply and power plant.

Main Bus

If the rated current is no more than 1500A, we shall choose the single copper busbar, and if the rated current is more than 1500A, we shall choose the double copper busbar. The contact surface of busbar shall be tin coated.

How to choose the horizontal bus (See the Sheet 2)

How to choose the neutral grounding bus in the auxiliary circuit plan (See the Sheet 3)

表2 Sheet 2

额定电流（A） Rated Current(A)	铜母线规格（mm^2） Spec. of Copper Busbar(mm^2)	选用PE（N）线截面积（mm^2） Choose PE(N) Line Cross Section Area(mm^2)
630	50×6	40×4
1250	80×10	40×5
1600	100×10	50×5
2000	125×10	60×6
2500	2×（100×10）	N:100×10 PE:60×10
3150	3×（100×10）	N:2(80×10) PE:60×10

备注：1、民用建筑项目，N线截面需调整。2、通风型配电室可适当降低。
Remark:1.civil construction project,the section line N need to be adjusted.
2.Ventilated distribution room can be reduced according to needs.

电器元件选择

a. GGD柜主要采用国内已能批量生产的较先进的电器元件。如DW17、DZ20、DW15等。柜架断路器也可选用RNW45、RNW1、AE、M、F等，塑壳断路器选用RNM1、TM30、NS等国内外较先进的电器元件。

b. HD13BX和HS13BX型旋转操作式刀开关是专为满足GGD柜独特结构的需要而设计的专用元件，它改变了机构的操作方式，保留了老产品的优点，是一种实用新型的电器元件。

c. 如设计部门根据用户需要，选用性能更优良，技术更先进的新型电器元件时，因GGD柜具有良好的安装灵活性，一般不会因更新电器元件造成制造和安装方面的困难。

d. 为进一步提高电路的动稳定能力，GGD柜的母线支撑采用专用的ZMJ型组合式母线夹和绝缘支撑件。母线夹由高强度、高阻燃型PPO复合材料热塑成型，绝缘强度高、自熄性能好，结构独特，只需调整积木式间块即可方便地组合成单母线或双母线夹。绝缘支撑是套筒式模压结构，成本低、强度高、解决了老产品爬电距离不够的缺陷。

Selection of the electric components

a. GGD cabinet mainly adopts advanced components that can be produced in large scale in China, such as DW17、DZ20、DW15 and so on. DW45, CW1, AE, M and F types can be selected as the frame circuit breaker. The advanced electric components both in China and foreign countries, such as CM1, TM30, NS type, are selected as the moulded case circuit breaker.

b. HD13BX and HS13BX type rotation operated knife switches are special devices designed for the unique structure of the GGD cabinet. They change the operation method of the mechanism but retain the superiorities of the old model. This type of switch is a practical and new device.

c. If the design department adopts new-type ekectric components with more excellent performance and more advanced technologies according to the needs of the customers, it will be not be difficult for manufacture to install the equipment after the replacement of the components due to the good flexibility of GGD type cabinet.

d. In order to enhance the dynamic stability of the circuit, the ZMJ combined type bus bar clamp and insulation support is adopted as the main bus support in the GGD cabinet. The bus bar clamp is made of PPO composite material with high intensity and flame retardance by the thermoplastic forming process. Therefore the clamp has high insulation strength, self-distinguishing ability and unique structure. It is easy to combine the clamp into single bus bar clamp or double bus bar clamp by adjusting the intermediate block. The insulation support adopts sleeve and moulding structure and has lower cost but higher strength. It solves the problem of a non-sufficient creepage distance from the old products.

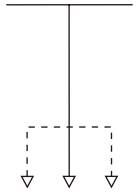
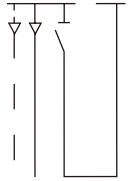
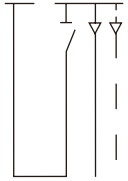
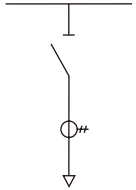
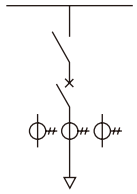
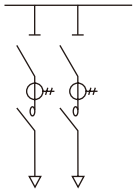
产品特征 Features of Structure

- GGD型交流低压配电成套开关设备的柜体采用通用柜的形式，框架用C型材组装而成，框架零件及专用配套零件由本公司生产配套供货，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20模的安装孔，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。
- GGD柜设计时充分考虑到柜体运行中散热问题。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时，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柜，是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。
- GGD柜按照现代工业产品造型设计的要求，采用黄金分割比的方法设计柜体外形和各部分的分割尺寸，使整柜美观大方。
- 柜门用转轴式活动铰链与构架相连、安装、拆卸方便。门的拆边处均嵌有一根山型橡塑条，关门时门与框架直接的嵌条有一定的压缩行程，能防止门与柜体直接碰撞，也提高了门的防护等级。
- 装有电器元件的仪表门用多股软铜线与框架相连。柜内的安装件与框架间用滚花垫圈连接，整柜构成完整的接地保护系统。
- 柜体表面采用高压静电喷塑粉工艺处理。具有附着力强，质感好。整柜呈亚光色调，避免了眩光效应，给值班人员创造了较舒适的视觉环境。
- 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。
- 柜体的防护等级为IP30，用户也可根据使用环境的要求在IP20~IP40之间选择。

- GGD type AC low-voltage distribution complete switch equipment adopts common cabinet frame, of which is assembled with material type C. The frame components and special completing components are made by Renle itself so the accuracy and the quality of the cabinet is ensured. The cabinet, whose components are designed according to the module theory, has mounting holes of 20mm space. The high universality makes it possible for the factory to conduct pre-production. So the production cycle is shortened and the work efficiency is raised.
- Heat radiation of the cabinet during operation is fully taken into consideration when the GGD cabinet is designed. There are different types of slots at the upper and lower terminals. When the components in the cabinet generate heat, it rises and goes out of the cabinet through the slots. At the same time cold wind continuously enters into the cabinet from the lower slots. So a natural ventilation channel is formed inside the sealed cabinet for the purpose of heat dissipation.
- According to the modeling requirements of modern industrial products, GGD type adopts golden section method to design appearance and size of every section, so the GGD cabinet becomes more beautiful in appearance.
- The cabinet door is connected with the frame by shaft-type movable hinge so it is easy to mount or dismount. There is a mount-like rubber-plastic strip at the door flanging. As there is a compression travel for the strip between the installed pieces and the door when the door is closed, the collision of the door with the cabinet is avoided and the protection degree is increased.
- The instrument door equipped with electric components is connected with the frame by multi-stranded copper wire. The installed components inside the cabinet are connected with the frame by the knurl washer and the whole cabinet constitutes a complete grounding system.
- The surface of the cabinet is treated with high pressure electrostatic powder spray technology. The powder has good adhesion and quality. The cabinet offers matt tone that avoids the effect of dizziness so the operators can have a better visual environment.
- The top lid can be dismounted in necessary for the convenience of on-site installation and adjustment of main bus bar . At the four corners of the cabinet top are rings used for hoisting and transportation.
- The protection degree of the cabinet is IP30. Users may choose between IP20 and IP40 according to the requirements of the environment.

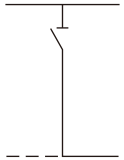
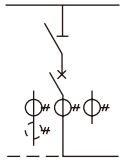
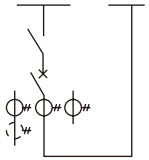
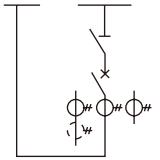
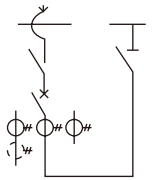
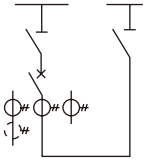
主电路方案 Product outline and installation Size

GGD1型49个方案123个规格（见表4）
There are 49 schemes, namely 123 specifications for the GGD1. (See the diagram 4)

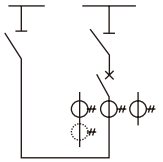
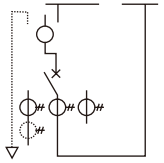
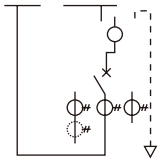
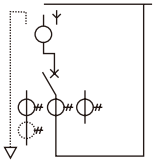
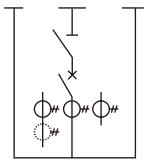
方案号 Scheme No.		01			02			03			04			05			06		
主电路方案图 Main Circuit Plan																			
用途 Usage		受电 Power receive			受电 Power receive			受电 Power receive			受电 馈电 Power receive Power feed			受电 Power receive			受电 Power receive		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-1000/31				1			1			1			1					
	HD13BX-600/31					1			1			1			1				
	HD13BX-400/31						1			1			1			1	2	2	2
	DW15-1000/3[ ]电动 Motor drive													1					
	DW15-630/3[ ]电磁 Electromagnetic														1				
	DW15-400/3[ ]电磁 Electromagnetic															1			
	RNM1-400/3																2		
	RNM1-250/3																	2	
	RNM1-160/3																		2
	LMZ1-0.66[ ]/5										1	1	1	3	3	3	2		
	LMZ3-0.66[ ]/5																	2	2
	(LMZ3D-0.66[ ]/5)																		
柜宽（mm） Cabinet width		600	600	600	1000	800	800	1000	800	800	600	600	600	800	800	800	800	800	800
柜深（mm） Cabinet Depth		600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
辅助电路图图号 Auxiliary Circuit Diagram No.														0101D.0102D.0109D.0110D					
														0115D.0116D.0118D.0119D					
														0127D.0128D.0201D.0202D					
														0204D.0205D.0207D.0208D					
														0501D.0506D					
														0103F.0104F.0209F.0210F					
														0211F.0212F.0203F.0504F					
														0601F.0602F.0603F.0604F					
														0605F.0606F.0634F.0635F					
														0636F.0637F					
备注 Remark														B.C方案柜宽可为600mm Cabinet width for schemes B and C can be 600mm.					

GGD1型 Type GGD1

续表4 Continued Sheet 4

方案号 Scheme No.		07			08			09			10			11			12		
主电路方案图 Main Circuit Plan																			
用途 Usage		受电 Power receive	联络 Contact		受电 Power receive	联络 Contact		受电 Power receive	联络 Contact		受电 Power receive	联络 Contact		受电 Power receive	联络 Contact		受电 Power receive	联络 Contact	
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-1000/31	1			1			1			1			2			2		
	HD13BX-600/31		1			1			1			1			2			2	
	HD13BX-400/31			1			1			1			1			2			2
	RNW1-1000/3[ ]电动 Motor drive				1			1			1			1			1		
	RNW1-630/3[ ]电磁 Electromagnetic					1			1			1			1			1	
	RNW1-400/3[ ]电磁 Electromagnetic						1			1			1			1			1
	LMZ1-0.66[ ]/5				3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)
	(LMZ3-0.66[ ]/5)																		
柜宽（mm） Cabinet width		600	600	600	800	800	800	1000	800	800	600	600	600	800	800	800	800	800	800
柜深（mm） Cabinet Depth		600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
辅助电路图图号 Auxiliary Circuit Diagram No.					0104D.0105D.0112D.0113D			0101D.0102D.0109D.0110D			0101D.0102D.0109D.0110D			0104D.0105D.0112D.0113D			0104D.0105D.0112D.0113D		
					0121D.0122D.0124D.0125D			0115D.0116D.0118D.0119D			0115D.0116D.0118D.0119D			0121D.0122D.0124D.0124D			0121D.0122D.0124D.0125D		
					0130D.0131D.0133D.0134D			0127D.0128D.0201D.0202D			0127D.0128D.0201D.0202D			0130D.0131D.0131D.0134D			0130D.0131D.0133D.0134D		
					0210D.0221D.0213D.0214D			0204D.0205D.0207D.0208D			0204D.0205D.0207D.0208D			0210D.0211D.0213D.0214D			0210D.0211D.0213D.0214D		
					0216D.0217D.0301D.0302D			0103F.0104F.0209F.0210F			0103F.0104F.0209F.0210F			0216D.0217D.0301D.0302D			0216D.0217D.0301D.0302D		
					0304D.0305D.0307D.0308D			0211F.0212F			0211F.0212F			0304D.0305D.0307D.0308D			0304D.0305D.0307D.0308D		
					0310D.0311D.0313D.0314D									0310D.0311D.0313D.0314D			0310D.0311D.0313D.0314D		
					0316D.0317D.0319D.0320D									0316D.0317D.0319D.0328D			0316D.0317D.0319D.0328D		
					0103F.0104F.0209F.0210F									0290F.0210F.0211F.0212F			0290F.0210F.0211F.0212F		
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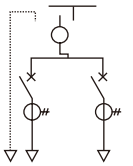
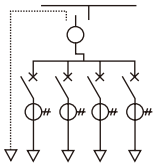
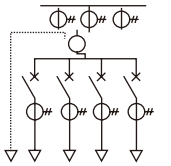
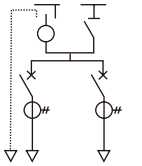
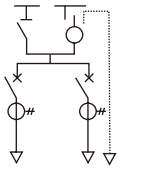
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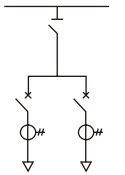
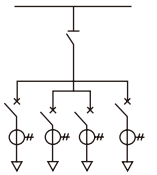
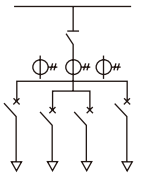
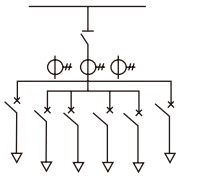
方案号 Scheme No.		13			14			15			16			17			18		
主电路方案图 Main Circuit Plan																			
用途 Usage		受电 联络 Power receive Contact			受电 联络 Power receive Contact			受电 联络 Power receive Contact			受电 联络 Power receive Contact			受电 联络 Power receive Contact			受电 联络 Power receive Contact		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-1000/31	2															1		
	HD13BX-600/31		2															1	
	HD13BX-400/31			2															
	HS13BX-1000/41				1			1			1								
	HS13BX-600/41					1			1			1							
	HS13BX-400/41						1			1			1						
	RNW1-1000/3[ ]电动 Motor drive	1			1			1			1						1		
	RNW1-630/3[ ]电动 Motor drive		1			1			1			1						1	
	RNW1-400/3[ ]电磁 Electromagnetic			1			1			1			1						
	LMZ1-0.66[ ]/5	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)	3(4)					3(4)	3(4)	
	LMZ3-0.66[ ]/5																		
柜宽（mm）Cabinet width		1000	800	1000	800	1000	800	1000	800	1000	800	800					1000	800	
柜深（mm）Cabinet Depth		600	600	600	600	600	600	600	600	600	600	600					600	600	
辅助电路图图号 Auxiliary Circuit Diagram No.		0104D.0105D.0112D.0113D			0107D.0108D			0107D.0108D			0107D.0108D						0101D.0102D.0109D.0110D		
		0121D.0122D.0124D.0125D															0115D.0116D.0118D.0119D		
		0130D.0131D.0133D.0134D															0127D.0128D.0201D.0202D		
		0210D.0221D.0213D.0214D															0204D.0205D.0207D.0208D		
		0216D.0217D.0301D.0302D																	
		0304D.0305D.0307D.0308D																	
		0310D.0311D.0313D.0314D																	
		0316D.0317D.0319D.0320D																	
		0209D.0210D.0211D.0212D																	
备注 Remark																			

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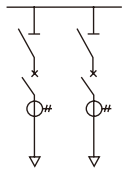
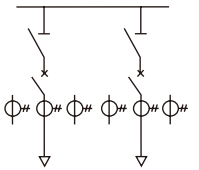
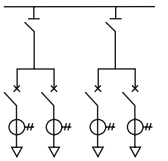
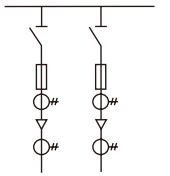
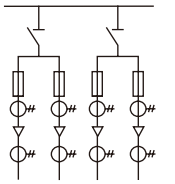
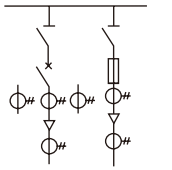
续表4 Continued Sheet 4

方案号 Scheme No.		19			20			21			22			23			24		
主电路方案图 Main Circuit Plan																			
用途 Usage		馈电 备用 Power feed Backup			馈电 备用 Power feed Backup			馈电 备用 Power feed Backup			馈电 备用 馈电 Power feed Backup Power feed			联络 备用 馈电 Contact Backup Power feed			受电 Power receive		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-1000/31										1			1					
	HD13BX-600/31											1			1			1	
	HD13BX-400/31												1			1			
	HS13BX-1000/31(41)							1			1								
	HS13BX-600/31(41)	1			1				1			1							
	HS13BX-400/31(41)		1			1				1			1						
	HS13BX-200/31(41)			1			1							1					
															1				
																1			
	DZ10-/250/3[ ]	2	1	2	4			4			2			2					
	DZ10-100/3[ ]		1			4	4		4	4		2	2		2	2			
	LMZ1-0.66[ ]/5							3	3	3									
	(LMZ3D-0.66[ ]/5)	2	2	2	4	4	4	4	4	4	2	2	2	2	2	2			
											2	2	2						
柜宽（mm）Cabinet width		600	600	600	800	800	800	800	800	800	1000	800	800	1000	800	800	1000	800	800
柜深（mm）Cabinet Depth		600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
辅助电路图图号 Auxiliary Circuit Diagram No.		0514D.0517D			0515D.0518D			0516D.0523D			0514D.0517D0			514D.0517D					
备注 Remark																			

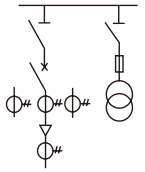
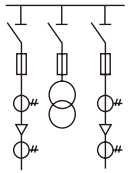
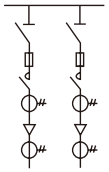
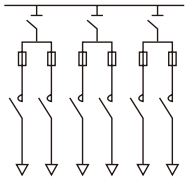
方案号 Scheme No.		25			26			27			28			29			30		
主电路方案图 Main Circuit Plan																			
用途 Usage								联络 Contact			联络 馈电 Contact Power feed			联络 Contact			馈电 备用 Power feed Backup		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-1000/31							1			1			1					
	HD13BX-600/31								1			1			1		1		
	HD13BX-400/31									1									
	HD13BX-200/31																		
	DZ10-600P/3[ ]							1											
	DZ10-250/3[ ]							1	2		4			4					
	DZ10-100/3[ ]									2		4			4		6		
	LMZ1-0.66[ ]/5							1						3	3		3		
	LMZ3-0.66[ ]/5							1	2	2	4	4							
	(LMZ3D-0.66[ ]/5)																		
											2	2	2						
柜宽（mm）Cabinet width								1000	800	800	800	800		800	800		800		
柜深（mm）Cabinet Depth								600	600	600	600	600		600	600		600		
辅助电路图图号 Auxiliary Circuit Diagram No.								0512D.0519D.			0525D0513D.			0520D0509D.			0512D0524D		
								0505F.0506F											
备注 Remark																			

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续表4 Continued Sheet 4

方案号 Scheme No.		31			32			33			34			35			36		
主电路方案图 Main Circuit Plan																			
用途 Usage								联络 Contact			联络 馈电 Contact Power feed			联络 Contact			馈电 备用 Power feed Backup		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-600/31							2			2			2			2		
	HD13BX-400/31	2		2		2			2			2			2			2	
	HD13BX-200/31		2		2		2			2			2			2			
	DW15-630[ ]电磁 Electromagnetic																1		
	DW15-400[ ]电磁 Electromagnetic																	1	
	DZ10-250/3[ ]	2			2			4											
	DZ10-100/3[ ]		2			2			4										
	RTO-[ ]										6	6	6	12	12	12	3	3	
	LMZ1-0.66[ ]/5	2	2		6	6		4	4										
	(LMZ3D-0.66[ ]/5)										2	2	2	4	4	4	4	4	
	LJ-[ ]										2	2	2	4	4	4	2	2	
											2	2	2						
柜宽（mm）Cabinet width		800	600		800	600		800	600		800	800	800	800	800	800	800	800	
柜深（mm）Cabinet Depth		600	600		600	600		600	600		600	600	600	600	600	600	600	600	
辅助电路图图号 Auxiliary Circuit Diagram No.		0512D.0519D			0510D.0522D			0513D.0520D			0507D.0508D			0507D.0508D			0503F.0504F.0507F.0508F		
		0505F.0506F			0503E.0514F.0632F.0633F			0505F.0506F									0601F.0602F.0603F.0604F		
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																	0636F.0637F		
备注 Remark																			

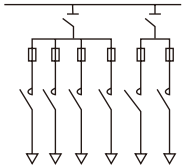
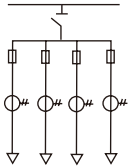
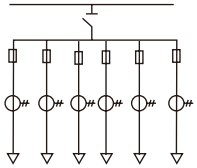
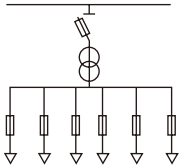
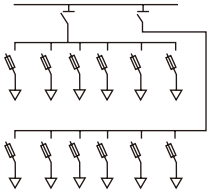
续表4 Continued Sheet 4

方案号 Scheme No.		37			38			39			40			41			42		
主电路方案图 Main Circuit Plan																			
用途 Usage		馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-600/31	1									2								
	HD13BX-400/31		1																
	HD13BX-200/31	1	1		3												3		
	DW15-630[ ]电磁 Electromagnetic	1																	
	DW15-400[ ]电磁 Electromagnetic		1																
	DZ10-250/3[ ]										1								
	DZ10-100/3[ ]										1								
	RTO-[ ]																6		
	LMZ1-0.66[ ]/5	3	3		9						6						18		
	(LMZ3D-0.66[ ]/5)	2(3)	2(3)		2(3)						3								
	LJ-[ ]	3	3		2						2								
		1	1		2						2								
柜宽（mm）Cabinet width		800	600		800						800						800		
柜深（mm）Cabinet Depth		600	600		600						600						600		
辅助电路图图号 Auxiliary Circuit Diagram No.		0512D.0519D.			0510D.0522D			0513D.0520D			0638F.0639F.0641F			0507D.0508D			0648F.0649F.0650F.0651F		
		0505F.0506F.			0503F.0514F.0632F.0633F			0505F.0506F			0642F.0643F.0644F.0645F								
											0646F.0647F								
备注 Remark																			

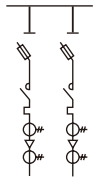
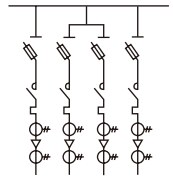
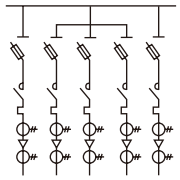
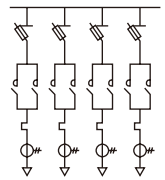
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续表4 Continued Sheet 4

方案号 Scheme No.		43			44			45			46			47			48		
主电路方案图 Main Circuit Plan																			
用途 Usage		馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电 Power feed		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	HD13BX-600/31							1			1								
	HD13BX-400/31	2							1			1					3		
	HD13BX-200/31									1			1						
	HR5-630/31[]													1					
	HR5-400/31[]														1				
	HR5-200/31[]															1			
	HG2-160																		
	CJ20-160/3	2																	
	CJ20-63/3	4																	
	RTO-[]	18						12	12	12	18	18	18	18	18	18			
	SG-[]													1	1	1			
								4	4	4	6	6	6						
	LMZ3-0.66[]/5																		
柜宽（mm）Cabinet width		800						800	800	800	800	800	800	800	800	800	800		
柜深（mm）Cabinet Depth		600						600	600	600	600	600	600	600	600	600	600		
辅助电路图图号 Auxiliary Circuit Diagram No.		0648F.0649F.0650F.0651F						0701D			0701D								
备注 Remark																			

续表4 Continued Sheet 4

方案号 Scheme No.		49			50			51			52			53			54		
主电路方案图 Main Circuit Plan																			
用途 Usage		馈电 Power feed			馈电 Power feed			馈电 Power feed			馈电（电动机）Power feed (Motor)			馈电（电动机）Power feed (Motor)			馈电（电动机）Power feed (Motor)		
主要电器元件 Main electric components	型号规格 Type & Specification	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	RNG1-200/31[]							2											
	RNG1-100/31[]								2										
												4	4		5	5		4	4
	RNM1-160/3							2											
	RNM1-63/3								2			4			2	2		4	4
	RNM1-40/3												4		3			4	
																3			4
	RNM1-150/3D							2											
	RNM1-60/3D								2			4			2	2		2	2
											18		4		3	3		2	2
	(LMZ3D-0.66[]/5)							2	2										
	LJ-[]							2	2		6	4	4		5	5		4	4
															5	5			
柜宽（mm）Cabinet width								800	800		800	800	800		800	800		800	800
柜深（mm）Cabinet Depth								600	600		600	600	600		600	600		600	600
辅助电路图图号 Auxiliary Circuit Diagram No.								0638F.0639F.0640F.0641F			0638F.0639F.0640F.0641F			0638F.0639F.0640F.0641F			0652F.0653F		
								0642F.0643F.0644F.0645F			0642F.0643F.0644F.0645F			0642F.0643F.0644F.0645F					
								0646F.0647F			0646F.0647F			0646F.0647F					
备注 Remark																			

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