

## 订货须知

订货时用户应提供下列资料：

1. 一次系统图。
2. 二次原理图。
3. 配电柜排列图。
4. 柜内电器设备明细表(包括型号、规格、数量)。
5. 配电室平面布置图。

## Ordering Notice

The following information should be supplied when ordering:

1. Main circuit single-line diagrams.
2. Control and measuring circuit diagrams.
3. The arrangement(s) for sections.
4. The list of equipment in each section, including type, size and quantity.
5. Layout for sections in the power distribution center.

## 镇江默勒电器有限公司

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# MODAN6000

## 模数化智能低压配电系统

MODULAR INTELLIGENT LOW VOLTAGE POWER DISTRIBUTION SYSTEM

## 镇江默勒电器有限公司

ZHENJIANG KLOCKNER-MOELLER ELECTRICAL SYSTEMS CO., LTD.



# MODAN6000

本资料中的产品性能在不断改进中,如有更改,恕不另行通知,本公司拥有最终解释权。



# About Us

## 公司介绍

镇江默勒电器有限公司成立于1993年,是中国低压成套电气领域知名企业,国家级高新技术企业,江苏省示范智能车间,公司注册资本1.3亿元人民币,拥有员工800余名,现代化工厂4万平米,年产能3万台,累计销售额突破260亿元,累计供货50万台套。

成立近30年以来,镇江默勒专注于低压成套配电设备的设计、研发、制造与销售,核心技术源自德国经典设计,技术水平、销售规模居于行业前列。镇江默勒始终秉承服务社会、服务客户的责任,积极参与国家重点重大工程的建设,产品广泛应用于核电、轨道交通、石油化工、能源电力、通讯电子、数字中心、地标建筑、市政工程等领域。面向未来,镇江默勒正在积极推进“智改数转”,以数字化管理、数字化研发、数字化制造为着力点,致力于成为中国低压成套电器领域的先行者和开拓者,为用户提供卓越的产品和服务。

Zhenjiang Klockner-Moeller Electrical Systems Co., Ltd., established in 1993, is a well-known enterprise in Chinese low-voltage switchgear field as the National High-tech Enterprise, and the Intelligent Workshop in Jiangsu Province. ZKM has 800 staffs, the workshop of 40,000m<sup>2</sup>, and annual production capacity of 30,000 sets. ZKM has provided over 500,000 sets products to customers and the cumulative sales reach 26 billion RMB since established.

Since established, ZKM is always focusing on the design, R&D, manufacturing and sales of low-voltage switchgears. The technology and know-how of the core product are derived from the classic design of Germany. The technical level and sales scale are in the forefront of the industry. ZKM always adheres to the responsibilities of service society and customers and participates in the construction of major national key projects. The products are widely used in nuclear power, rail transportation, petrochemical, communication electronics, water treatment, industrial and mining, commercial construction, municipal engineering and other fields. Facing the future, ZKM strives to enhance its innovation capability and committed to becoming a pioneer in the field of low-voltage switchgear in China with promoting intelligent and digital transformation including the management, R&D and manufacturing, in order to providing customers with excellent products and services.



# Product Overview

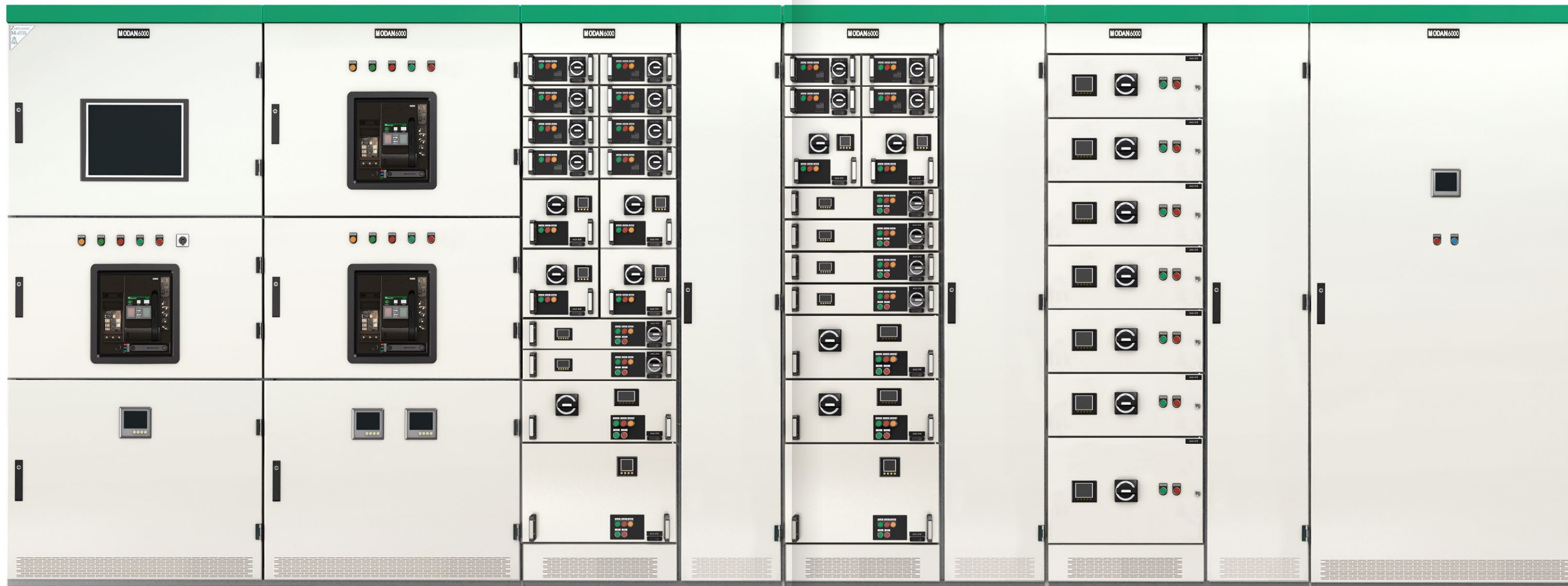
## 产品概述

MODAN6000模数化智能低压配电系统是公司主打产品，源自德国默勒经典设计，具备结构坚固、设计灵活、操作简便等优点，符合IEC61439与GB7251标准，通过型式试验、抗震试验、模拟运输试验和电弧试验，通过CCC、CE、CB、ASTA、中核兴原、船级社等认证，既可用于作配电中心、马达控制中心、又可作为动力照明集中控制系统使用，使用寿命三十年以上。

随着智能化发展趋势，借助于大数据平台与智能化部件的应用，MODAN6000可实现从传统一次设备升级为智能化配电设备，从而更好为用户提供数字化解决方案和服务，保障更安全、可靠的供电。智能化配电柜配置能源管理系统，可对系统能源数据进行实时监测、统计分析、智能调控，实现节能降耗、“双碳”达标。

MODAN6000 is the core product of ZKM with the technology and know-how introduced from Moeller GmbH. MODAN6000 is of firm structure, flexible design and convenient operation according to the standard of IEC61439 and GB7251. It has passed TTA, seismic test, simulated transport and arc test, and obtained CCC, CE, CB, ASTA and other relevant certificates. It shall be used as distribution center, motor control center and lighting control system, whose life is more than 30 years.

With the development of intelligence, and the application of big data platforms and intelligent components, MODAN6000 can realize the upgrade from traditional primary equipment to integrated intelligent power distribution equipment, so as to provide users with digital solutions and services. With the energy management system, the intelligent cabinet can take real-time monitoring, statistical analysis, and intelligent control to achieve energy saving, consumption reduction, carbon peak and neutrality goals.



# Types 多种柜型



MDP固定柜

MDP固定柜

MDMW抽屉柜

MDMF固定分隔柜

MDG固定柜

多种柜型可以满足用户的不同需求

Multiple cabinet types can meet different needs of users

# Technical Data 技术参数

项目 ITEM	参数 DATA	
<b>主母排 Main Busbar</b>		
额定电流 InA	A	630/800/1000/1250/1600/2000/2500/3200/4000/5000/6300
额定短时耐受电流 Icw	kA	65/80/100
额定峰值耐受电流 Ipk	kA	176/220/330
<b>垂直母排 Dropper Busbar</b>		
额定电流 Inc	A	1250/1250*2, 1600, 2*1400
额定短时耐受电流 Icw	kA	65
额定峰值耐受电流 Ipk	kA	143
<b>基本参数 Basic Date</b>		
额定电压 Ue	V	400/690
额定绝缘电压 Ui	V	1000AC/1200DC
额定频率 fn	Hz	50/60
短时耐压 Impact withstand voltage	V	3000/1min
冲击耐压 Uimp	kV	12
内部分隔 Internal Partitions	/	Form1~4b
柜体颜色 Color	/	RAL7035 (按用户要求 Confirmed by customers)
门板厚度 Steel thickness	mm	≥2mm
耐腐蚀性 Corrosion resistance	/	耐10%酸碱腐蚀
门开启度 Door angle when open	/	~180°
安装条件 Installation Conditions	/	户内
环境温度 Ambient temperature	°C	-5~40
相对湿度 Relative humidity	/	93% (40°C)
防护等级 Degree of Protection	/	IP30~54
产品标准 Product Standard	/	IEC61439/GB7251
<b>尺寸 Dimension</b>		
宽度 Width	mm	400/600/800/1000/1200
高度 Height	mm	2200 (可另加100mm高的底座)
深度 Depth	mm	600/800/1000 (侧出线); 1000/1200 (后出线)



# Features 产品特点

## 系统灵活

- 元件安装标准化, 工程设计便利
- 可背靠背安装, 占用空间小, 空间布局更合理
- 可进行抽出式、插入式或固定分隔式单元的混装
- 设备更新换代、优化改进、设备增容更方便
- 进出线方式灵活, 可采用母线槽, 电缆从柜顶或柜底进出
- 母线系统可直接与母线槽用螺栓进行插接, 安装便捷

## Flexible System

- Standard installation of components with convenient engineering
- Back-to-back installation only occupy small space and the layout is more reasonable
- Withdrawable unit, pull-in unit or fixed-mounting unit can be installed in one cabinet
- Convenient replacement, improvement and capacity increased of equipment
- Flexible incoming and outgoing method with busbar or cable from top or bottom
- The busbar can be conveniently connected to the outside busbar trunking system by bolts



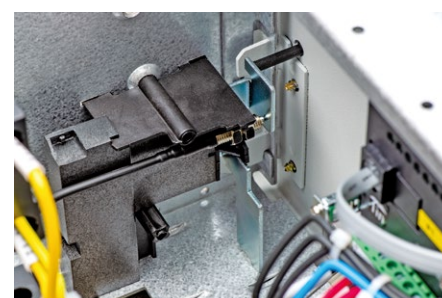
抽出式单元 Drawer Unit



母线槽进出线 Busbar Outgoing

## 安全可靠

- 产品的防护等级可达到IP54
- 分隔形式可以根据用户需求, 最高可以实现Form4b
- 具有防电弧设计, 通过燃弧试验, 最大限度确保运行人员安全
- 能满足抗地震、抗震荡和抗冲击的特殊要求, 通过IE级抗震试验
- 具有专利技术的抽屉联锁机构, 防止在开关合闸状态时误操作
- 可带电更换抽屉单元, 抽屉功能板带有自动活门, 抽屉拔出活门自动关闭



抽屉联锁机构 Drawer Mechanical Interlock

## Safe & Reliable

- The protection level can be up to IP54.
- The functional unit isolation can meet Form 4b requirement.
- With anti-arc design, and passed the arc test, ensure the safety of operators.
- Meet the special requirements of anti-earthquake, anti-vibration and anti-shock, and pass IE-level seismic test.
- The drawer interlock mechanism prevents misoperation when the switch is closed.
- The drawer unit can be replaced with power, the drawer function board has an automatic shutter, and the drawer pull-out valve is automatically closed.



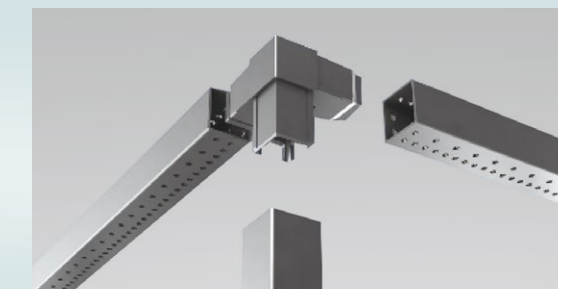
抽屉自动活门 Automatic Shutter

# Basic Structure 基本结构

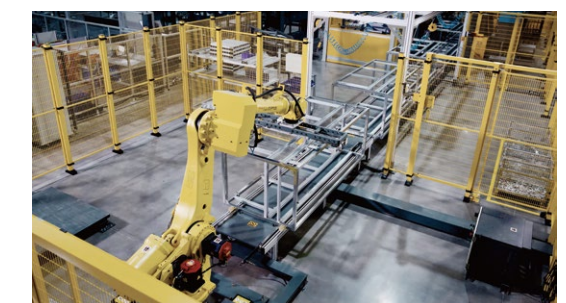


MODAN6000采用一体化框架结构, 无缝方钢管、合金三通连接器形成完美结合。

MODAN6000 has integrated frame structure for the perfect combination of the square seamless steel pipe, alloyconnector and screw.



- 主框架由方钢管通过专用三通连接器连接而成, 结构坚固, 有利于长途运输。
- 方钢管设有模数化孔, 便于各种系统迅速可靠连接。
- 有效的防护等级和内部分隔, 最大限度保障操作安全。
- 柜体现场安装可用螺栓固定, 也可用点焊方式。
- 独特结构充分利用空间, 便于设备的增容和扩展。
- 框架组装环节采用机器人全自动装配, 产品制造精度与品质得到保证。



框架机器人装配线  
Frame Robot Assembly Line

- This integrated frame structure can ensure the reliability during long-distance transportation.
- The square steel tube has modular holes, which permit rapid and reliable links to various systems.
- Effective degree of protection and internal partition can ensure the safe operation.
- The cabinet can be installed by bolts or spot-welding.
- The special structure can ensure enough installation space and it is convenient to add more devices.
- The frame is assembled by robots which ensure the manufacturing quality.



# Function Area 功能区

MODAN6000 通过隔板将空间分隔为四个独立的区域，分别是主母线区、垂直母线区、元件区及电缆接线区。

MODAN6000 can be divided into four separate areas by the partition including the main bus area, the vertical bus area, the component area and the cable connection area.



- 主母线区①：位于柜顶或柜后，用于安装主母线
- 垂直母线区②：位于柜体中部，用于安装垂直母线
- 元件区③：位于柜体前部，用于安装各类功能单元
- 电缆接线区④：侧出线位于柜体侧前部，后出线位于柜体后部，用于进出线电缆及各功能单元之间的接线

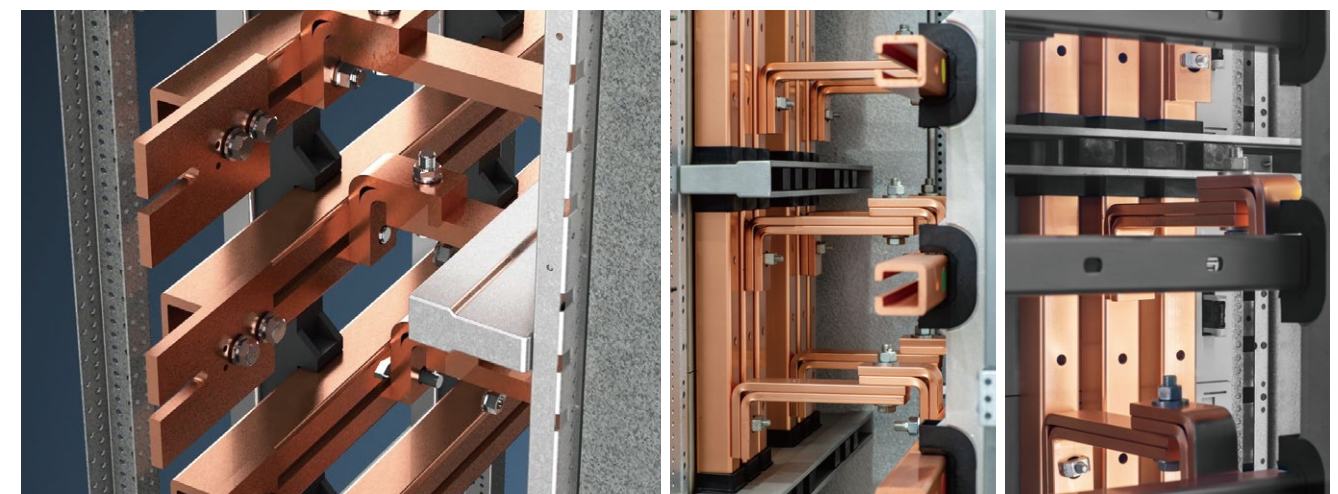
- Main bus area: located on the top of the cabinet or behind the cabinet for installing the main bus.
- Dropper busbar area: located in the middle of the cabinet for installing dropper bus.
- Component area: located in the front of the cabinet for installing various functional units
- Cable connection area: located in the front of the cabinet (side-outgoing), or at the rear of the cabinet (rear-outgoing) for the cable between the incoming and outgoing cables and between the functional units.

# Busbar System 母排系统

MODAN6000 采用独特的母线系统，使用 C 型钢排，相较于其它厂家的产品，其具备突出的性能。

MODAN6000 is using special busbar system with the C-profile bar, which has excellent performance comparing with other products.

- 载流能力强
- 机械强度高
- 散热性能好
- 可实现无孔连接
- High current carrying capability
- High level of mechanical strength
- Good heat radiation
- Without-hole connection



母排无孔连接  
Without-Hole Connection

主母排  
Main Bar

垂直排  
Dropper Bar

# Busbar System

## 母排系统

MODAN6000 主母排位置可根据系统出线方式设置，其中侧出线时主母排设置于柜后，后出线时主母排设置于柜顶。

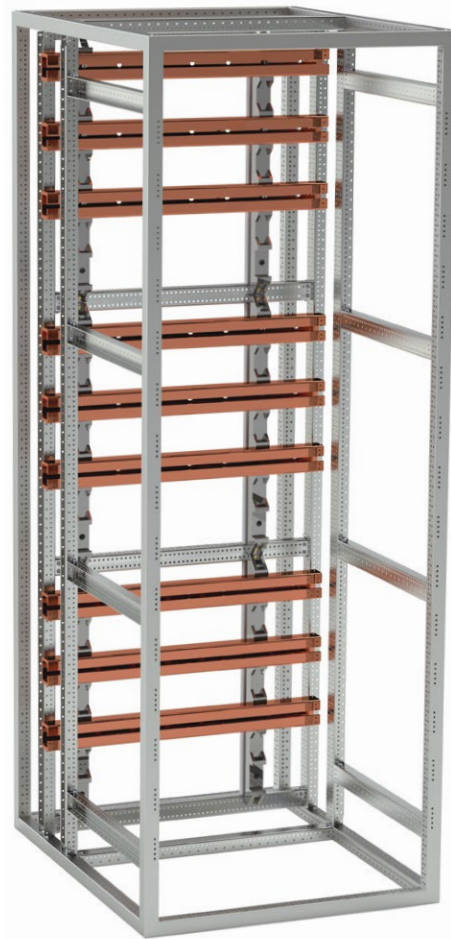
### 侧出线方案

- 主母排位于柜后时，可分为上、中、下三组位置，母排位置灵活，可以满足多种配电需求。
- 主母排电流等级从 630A 到 6300A，可满足用户的不同需求。
- PE (PEN) 位于柜底或柜顶的前部。
- 垂直母排的相序从左到右依此为 N-L1-L2-L3。

### SIDE-OUTGOING DESIGN

- The busbar can be set on the top, middle or bottom positions when it is at the rear of the cabinet to meet needs of various requirements.
- The current of the main busbar is from 630A to 6300A, which can meet different requirements of customers.
- PE(PEN) bus is in the front bottom or top of the cabinet.
- The sequence of dropper busbar is N-L1-L2-L3 from left to right.

项目 Item	额定电流 Rated Current	铜排规格 Copper Bar	柜体深度 Cabinet Depth
主母排 Main Busbar	630A	50*8	600/800/1000mm
	800A	50*8	600/800/1000mm
	1000A	50*10	600/800/1000mm
	1250A	50*12	600/800/1000mm
	1600A-2000A	C40*40	800/1000mm
	2500A-3200A	C70*50	800/1000/1200mm
	4000A	2*C40*40	1000/1200mm
	5000A-6300A	2*C70*50	1000/1200mm
抽屉柜垂直排 Dropper bar of the withdrawable section	1600A	C40*40	
	2X1400A	2*C40*40	
固定分隔柜垂直排 Dropper bar of the fixed mounting section	≤800A	50*6	
	1000A	50*10	
	1250A	50*6*2	
	1600A	50*10+50*5	



The main busbar position of MODAN6000 can be set according to the system outlet mode. It is located at the rear of the cabinet for side-outgoing and located at the top of the cabinet for rear-outgoing.

### 后出线方案

- 主母排位于柜顶时，每相按电流等级有 1 根、2 根或 3 根母排，同一相序的母排上下排列。
- 主母排的电流等级从 630A 到 5000A，可满足用户的不同需求。
- N 排位于柜顶部（与 ABC 相位于同一区域）或柜底后部，PE/PEN 位于柜底后部。
- 垂直母排的相序从左到右依次为 N-L1-L2-L3。

### REAR-OUTGOING DESIGN

- Each phase of main busbar has 1, 2 or 3 bars. The copper bars are arranged vertically from top to bottom in the same phase.
- The current of the main busbar is from 630A to 5000A, which can meet different requirements of customers.
- N bus is located at the top (in the same area with ABC phase) or the rear bottom of the cabinet. PE/PEN bus is at the rear bottom of the cabinet.
- The sequence of dropper busbar is N-L1-L2-L3 from left to right.

项目 Item	额定电流 Rated Current	铜排规格 Copper Bar	柜体深度 Cabinet Depth
主母排 Main Busbar	630A	40*6	1000mm
	800A	50*6	1000mm
	1000A	60*6	1000mm
	1250A	60*10	1000mm
	1600A-2000A	C40*40	1000mm
	2500A	C70*50	1000mm
	3200A-4000A	2*C40*40	1000/1200mm
	5000A-5000A	3*C40*40	1000/1200mm
抽屉柜垂直排 Dropper bar of the withdrawable section	1600A	C40*40	
	2X1400A	2*C40*40	
固定分隔柜垂直排 Dropper bar of the fixed mounting section	≤800As	50*6	
	1000A	50*10	
	1250A	50*6*2	
	1600A	50*10+50*5	





# Drawer Units

## 抽屉单元

抽屉单元可根据回路属性灵活选用不同抽屉模数。

柜后母排方案：高度以 125mm 为一个模数，最高 4 个模数即 500mm 高，单柜有校安装高度为 1875mm，最多可安装 30 个抽屉单元。

柜顶母排方案 1：高度以 125mm 为一个模数，最高 4 个模数即 500mm 高，单柜有校安装高度为 1750mm。

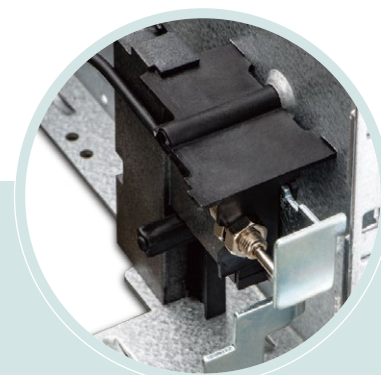
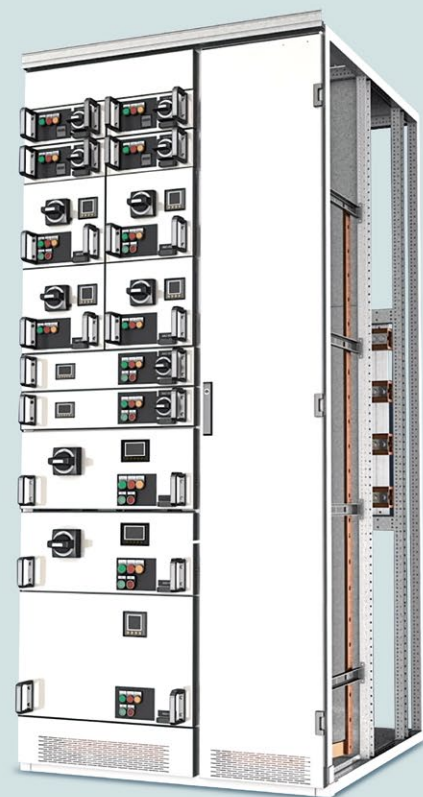
柜顶母排方案 2：高度以 100mm 为一个模数，单元抽屉最小为 2 个模数即 200mm 高，最高为 5 个模数即 500mm 高，单柜有效安装高度 1800mm。

The drawer unit can flexibly select different modules according to the circuit.

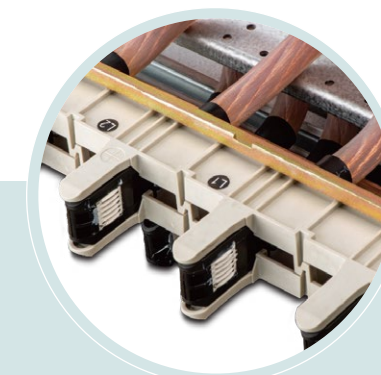
Solution with busbar in rear position: Height of min. drawer unit is 125mm (1HE) and the max. Unit is 500mm (4HE). The mounting height of one cabinet is 1875mm and 30 units can be mounted in one section.

Solution with busbar in top position 1: Height of min.drawer unit is 125mm(1HE)and the max.unit is 500mm(4HE). The mounting height of one cabinet is 1750mm.

Solution with busbar in top position 2: The height of one modulus is 100mm. The min.height of one drawer unit is 200mm(2HE) and the max.height of one unit is 500mm(5HE). The mounting height of one cabinet is 1800mm.



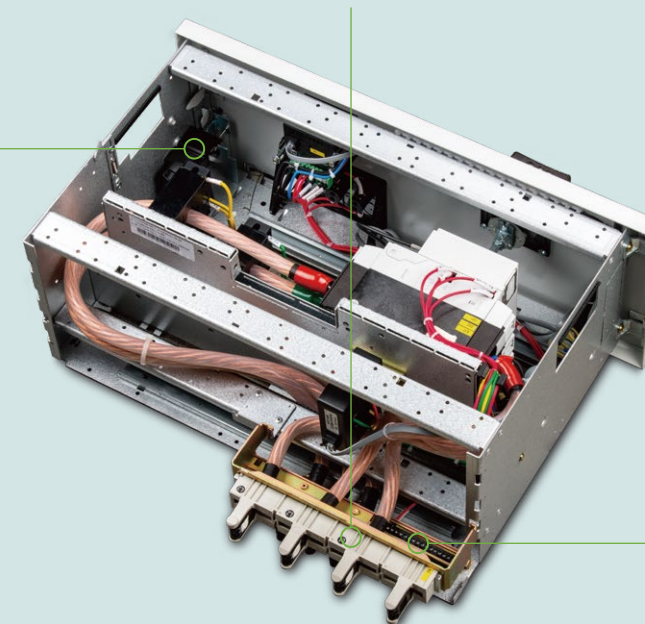
机械连锁  
Mechanical Interlock



一次触头  
Main Contact



二次触头  
Control Contact



抽屉单元符合 IEC61439 标准，具备高安全性设计，可靠的机械连锁，确保当开关处于分闸位置时，抽屉单元才能抽出或插入。抽屉单元有运行、试验、抽出和隔离四个位置，各个位置均有机械限位装置，不会因外力作用导致位置变化。

The drawer is meeting the standard of IEC61439 with the reliable mechanical interlock, which can ensure that the drawer could be operated only when the breaker is in off position. The drawer has four positions including connected, test, disconnected and removable position, the limit part can ensure the position will not be changed by outside pressure.



抽屉触头连接位置示意图  
Connected Position of the Drawer

抽屉单元选用独特的琴键式铍铜合金一次触头。

The drawer has special key-type beryllium copper alloy main contact.

- 铍铜合金具有最优的抗压能力及弹性性能，
- 琴键式结构使抽屉插拔灵活，与垂直排接触更可靠；
- 银质迭片导电性能最优，标准触头载流量达到 896A，安全裕度极大。
- 一次触头在连接位置形成一个良性循环：电流越大，热度越高，插头膨胀，接触更加可靠。
- 抽屉单元二次触头及控制端子采用知名品牌定制产品，确保了二次导线的可靠连接。

- The beryllium copper alloy has excellent anti-pressure and elasticity performance;
- The key-type structure ensures the drawer can be pull or plug smoothly and more reliable connecting to the dropper busbar.
- The silver lamination has good conductivity and the carrying capacity of one standard contact can reach 896A, so it is very safe.
- Connecting reliability of the main contact can be ensured because of the special design: Higher current, higher heat, plug expansion, more reliable connection.
- The cabinet use reliable control contact and terminals produced by well-known manufacturers ,which ensures reliable connection of control cables.

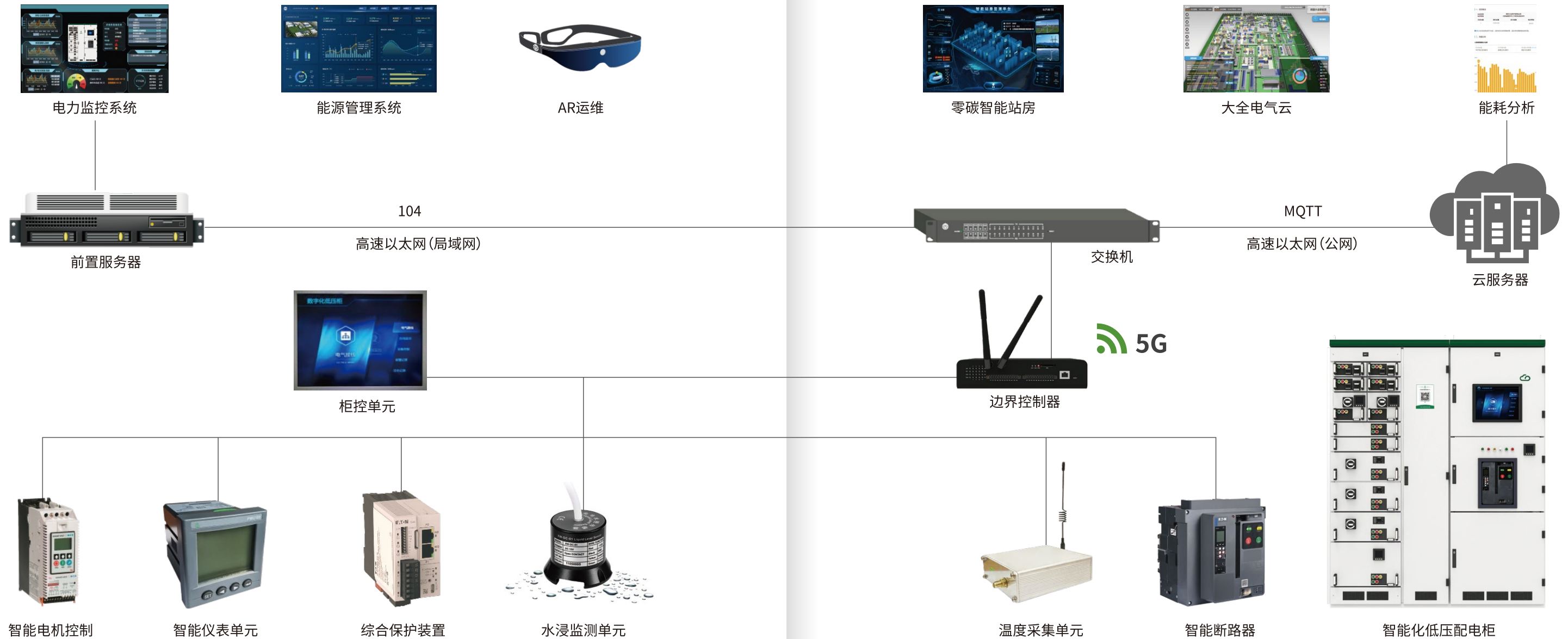


# Intelligent Solution

## 智能化低压柜解决方案

新一代智能化低压柜，配套智能设备，在智能控制器、电力监控、状态监测、“碳中和、碳达峰”节能等方面进行了全面升级。用户可以通过后台与 APP 实时获取配电柜技术参数与能效情况，监控设备状态并远程控制回路，实现设备的全生命周期管理。

The new generation of intelligent low-voltage cabinet has been comprehensively upgraded for controlling, power monitoring, energy saving .etc. with intelligent device. Users can obtain the technical parameters and energy efficiency of the cabinet in real time through the background and APP, monitor the equipment status and remotely control the loop, so as to realize the whole life cycle management of the equipment.



# Function

## 智能化功能

### 智能运维 Intelligent Maintenance

#### 数字厂牌 Digital Label



数字厂牌集成设备基本信息、元件清单、系统图、原理图、厂家信息等。

Information about the cabinet is available including the basic information, BOM, system diagram, circuit diagram, company profile and so on by the digital label.

#### 设备故障诊断 Fault Diagnosis

智能化低压柜可全方位数字采集、状态监视,发现问题及时报警,并指导运维人员进行检修及故障处理。

The cabinet can collect data, monitor the equipment status, warn the problem found, and remind the operator to take maintenance and fault treatment.



#### 预防性维护 Preventive Maintenance



借助工业云强大的数据分析能力,智能化低压柜能够对关键元器件设备和抽屉单元的状态进行预测,针对性给出检修建议,做到提前预测风险。

With the data analysis capability of industrial cloud, the cabinet can predict the status of key components and the drawer, give maintenance suggestions to avoid risks in advance.

#### 专家远程指导 Remote Guidance

借助AR设备,用户可以查看现场设备运行状态,实现厂商专家远程维护指导;通过PC端管理工具,可以远程管控厂商履约流程,远程验收设备。

With AR device, the operation status of on-site equipment can be checked and remote maintenance guidance by manufacturer experts is available; The user can remotely manage the process of manufacturers and take FAT by PC.



### 能源管理 Energy Management

配套能源管理系统,能对区域级多种能源系统进行实时监测与统计分析,具备能源协调控制,能耗实时监测、用能统计分析、能效异常分析等四大功能。通过多能互补与多源协同控制,实施全面电能质量管理,实现节能降耗,切实有效推动国家“双碳”战略目标落地。

The energy management system performs real-time monitoring and statistical analysis of multiple regional energy systems, which has major functions including energy coordinated control, real-time energy consumption monitoring, energy consumption analysis, and abnormality analysis. The comprehensive power quality management can be implemented to realize energy saving and consumption reduction to achieve carbon peak and neutrality goals.



### 电力监控 Power Monitoring

配套电力监控系统,用户可实现对低压柜的监视、保护、控制、计量和能耗管理,全方位提高配电房信息感知的深度和广度,满足配电房管理的智能化、数字化与现代化需求。

With the power monitoring system, users can realize the monitoring, protection, control, measurement and energy consumption management of low-voltage cabinet, improve the capability of information perception of the distribution room, and meet the needs of intelligent, digital and modern management.





# Product Plan

## 产品方案

### 柜后母排方案

Solution With Busbar In Rear Position

#### 单框架断路器柜 / MDP (One ACB)

方案编号 NO.	额定电流 (A) Rated Current	断路器 Breaker	极数 Pole	柜宽 (mm) Width	出线方式 Outgoing way
01	630A~1600A	IZM-630~1600	3P/4P	600/800	侧进/上进/下进/母联 Side-incoming Top-incoming Bottom-incoming coupling
02	2000~3200A	IZM-2000~3200	3P/4P	600/800	侧进/上进/下进/母联 Side-incoming Top-incoming Bottom-incoming coupling
03	4000A	IZM-4000	3P/4P	1000/1200	侧进/上进/下进/母联 Side-incoming Top-incoming Bottom-incoming coupling
04	5000A	IZM-5000	3P/4P	1200/1400	侧进/上进/下进/母联 Side-incoming Top-incoming Bottom-incoming coupling
05	6300A	IZM-6300	3P/4P	1200/1400	侧进/上进/下进/母联 Side-incoming Top-incoming Bottom-incoming coupling



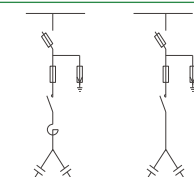
#### 双框架断路器柜 / MDP (Two ACB)

方案编号 NO.	额定电流 (A) Rated Current	断路器 Breaker	极数 Pole	柜宽 (mm) Width	出线方式 Outgoing way
01	630A~1600A	IZM-630~1600	3P	600/800	上进/下进 Top-incoming Bottom-incoming
02	630A~1600A	IZM-630~1600	4P	800/1000	上进/下进 Top-incoming Bottom-incoming



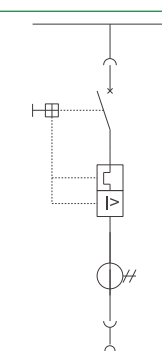
#### 电容柜 / Capacitor Section

方案编号 NO.	容量 Capacity	熔断器开关 Fuse switch	柜宽 (mm) Width	是否带电抗 With Reactor
01	400kvar	800A	800	否
02	300kvar	630A	1000	是



#### 馈电抽屉单元 / Feeder drawer unit

方案编号 NO.	额定电流 (A) Rated Current	断路器 Breaker	极数 Pole	抽屉模数 Drawer Module
01	≤32A	PKZ0	3P	13
02	≤63A	NZM-20~63	3P	13
03	≤63A	NZM-20~63	4P	23
04	100A~160A	NZM-100~160	3P/4P	23
05	250A	NZM-250	3P/4P	26
06	400A	NZM-400	3P/4P	26/36
07	630A	NZM-630	3P/4P	36/46



#### 电动机抽屉单元 (直接启动) / Motor drawer unit (DOL)

方案编号 NO.	电动机功率 Motor Power	断路器 Breaker	接触器 Contactor	热继电器 Thermal relay	抽屉模数 Drawer Module
01	1.1	PKM0-4	DILM7-10C	ZB12C-2.4	13
02	1.5	PKM0-4	DILM7-10C	ZB12C-4	13
03	2.2	PKM0-6.3	DILM7-10C	ZB12C-6	13
04	3	PKM0-10	DILM7-10C	ZB12C-10	13
05	4	PKM0-10	DILM9-10C	ZB12C-10	13
06	5.5	PKM0-12	DILM12-10C	ZB12C-12	13
07	7.5	PKM0-16	DILM17-10C	ZB32C-16	13
08	11	PKM0-25	DILM25-10C	ZB32C-24	13
09	15	PKM0-32	DILM32-10C	ZB32C-32	13
10	18.5	NZM-S40	DILM40C	ZB65C-40	23
11	22	NZM-S50	DILM50C	ZB65C-57	23
12	30	NZM-S63	DILM65C	ZB65C-65	26
13	37	NZM-S80	DILM80C	ZB150C-100	26
14	45	NZM-S100	DILM95C	ZB150C-100	26
15	55	NZM-S125	DILM115C	ZB150C-125	36
16	75	NZM-S160	DILM150C	ZB150C-150	36抽屉/固定单元 Drawer/Fixed unit
17	90	NZM-S200	DILM170C	ZB150C-175	46抽屉/固定单元 Drawer/Fixed unit
18	110	NZM-S250	DILM225A/ XTCD225	ZEB	66固定单元 Fixed unit
19	132	NZM-S320	DILM250/ XTCD300	ZEB	66固定单元 Fixed unit
20	160	NZM-S320	DILM300A/ XTCD300	ZEB	76固定单元 Fixed unit
21	200	NZM-S400	DILM400/ XTCD400	ZEB	76固定单元 Fixed unit

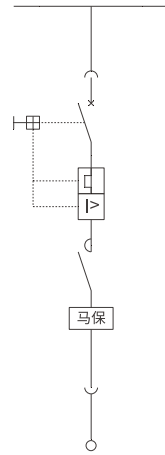


# Product Plan

## 产品方案

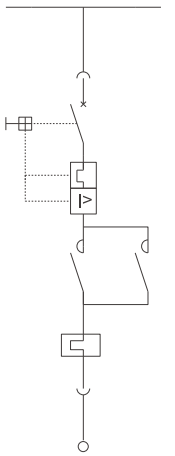
### 电动机抽屉单元(直接启动) / Motor drawer unit (DOL)

方案编号	电动机功率	断路器	接触器	马达保护器	抽屉模数
NO.	Motor Power	Breaker	Contactor	Motor protector	Drawer Module
01	1.1	PKM0-4	DILM7-10C	马达保护器	16/23
02	1.5	PKM0-4	DILM7-10C	马达保护器	16/23
03	2.2	PKM0-6.3	DILM7-10C	马达保护器	16/23
04	3	PKM0-10	DILM7-10C	马达保护器	16/23
05	4	PKM0-10	DILM9-10C	马达保护器	16/23
06	5.5	PKM0-12	DILM12-10C	马达保护器	16/23
07	7.5	PKM0-16	DILM17-10C	马达保护器	16/23
08	11	PKM0-25	DILM25-10C	马达保护器	16/23
09	15	PKM0-32	DILM32-10C	马达保护器	16/23
10	18.5	NZM-S40	DILM40C	马达保护器	16/23
11	22	NZM-S50	DILM50C	马达保护器	16/23
12	30	NZM-S63	DILM65C	马达保护器	26
13	37	NZM-S80	DILM80C	马达保护器	26
14	45	NZM-S100	DILM95C	马达保护器	26
15	55	NZM-S125	DILM115C	马达保护器	36
16	75	NZM-S160	DILM150C	马达保护器	36抽屉/固定单元 Drawer/Fixed unit
17	90	NZM-S200	DILM170C	马达保护器	46抽屉/固定单元 Drawer/Fixed unit
18	110	NZM-S250	DILM225A/ XTCD225	马达保护器	66固定单元 Fixed unit
19	132	NZM-S320	DILM250/ XTCD300	马达保护器	66固定单元 Fixed unit
20	160	NZM-S320	DILM300A/ XTCD300	马达保护器	76固定单元 Fixed unit
21	200	NZM-S400	DILM400/ XTCD400	马达保护器	76固定单元 Fixed unit



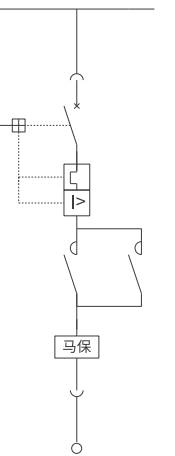
### 电动机抽屉单元(可逆启动) / Motor drawer unit (Reversing start)

方案编号	电动机功率	断路器	接触器	热继电器	抽屉模数
NO.	Motor Power	Breaker	Contactor	Thermal relay	Drawer Module
01	1.1	PKM0-4	2*DILM7-10C	ZB32C-2.4+ZB32-XEZ	16/23
02	1.5	PKM0-4	2*DILM7-10C	ZB32C-4+ZB32-XEZ	16/23
03	2.2	PKM0-6.3	2*DILM7-10C	ZB32C-6+ZB32-XEZ	16/23
04	3	PKM0-10	2*DILM7-10C	ZB32C-10+ZB32-XEZ	16/23
05	4	PKM0-10	2*DILM9-10C	ZB32C-10+ZB32-XEZ	16/23
06	5.5	PKM0-12	2*DILM12-10C	ZB32C-12+ZB32-XEZ	16/23
07	7.5	PKM0-16	2*DILM17-10C	ZB32C-16+ZB32-XEZ	16/23
08	11	PKM0-25	2*DILM25-10C	ZB32C-24+ZB32-XEZ	16/23
09	15	PKM0-32	2*DILM32-10C	ZB32C-32+ZB32-XEZ	16/23
10	18.5	NZM-S40	2*DILM40C	ZB65C-40+ZB65-XEZ	23
11	22	NZM-S50	2*DILM50C	ZB65C-57+ZB65-XEZ	23
12	30	NZM-S63	2*DILM65C	ZB65C-65+ZB65-XEZ	26
13	37	NZM-S80	2*DILM80C	ZB150C-100/KK	26
14	45	NZM-S100	2*DILM95C	ZB150C-100/KK	26
15	55	NZM-S125	2*DILM115C	ZB150C-125/KK	36
16	75	NZM-S160	2*DILM150C	ZB150C-150/KK	36



### 电动机抽屉单元(可逆启动) / Motor drawer unit (Reversing start)

方案编号	电动机功率	断路器	接触器	马达保护器	抽屉模数
NO.	Motor Power	Breaker	Contactor	Motor protector	Drawer Module
01	1.1	PKM0-4	2*DILM7-10C	马达保护器	16/23
02	1.5	PKM0-4	2*DILM7-10C	马达保护器	16/23
03	2.2	PKM0-6.3	2*DILM7-10C	马达保护器	16/23
04	3	PKM0-10	2*DILM7-10C	马达保护器	16/23
05	4	PKM0-10	2*DILM9-10C	马达保护器	16/23
06	5.5	PKM0-12	2*DILM12-10C	马达保护器	16/23
07	7.5	PKM0-16	2*DILM17-10C	马达保护器	16/23
08	11	PKM0-25	2*DILM25-10C	马达保护器	16/23
09	15	PKM0-32	2*DILM32-10C	马达保护器	16/23
10	18.5	NZM-S40	2*DILM40C	马达保护器	26
11	22	NZM-S50	2*DILM50C	马达保护器	26
12	30	NZM-S63	2*DILM65C	马达保护器	26
13	37	NZM-S80	2*DILM80C	马达保护器	26
14	45	NZM-S100	2*DILM95C	马达保护器	26
15	55	NZM-S125	2*DILM115C	马达保护器	36
16	75	NZM-S160	2*DILM150C	马达保护器	36





# Product Plan

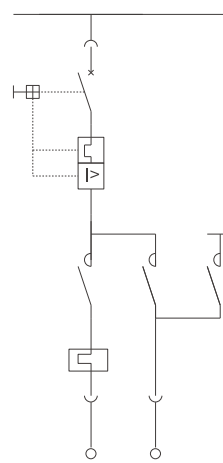
## 产品方案

### 柜顶母排方案

Solution With Busbar In Top Position

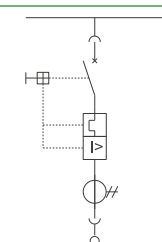
#### 电动机抽屉单元(星三角启动) / Motor drawer unit (Star-△start)

方案编号	电动机功率	断路器	接触器	热继电器	抽屉模数
NO.	Motor Power	Breaker	Contactor	Thermal relay	Drawer Module
01	1.1	PKM0-4	3*DILM7C	ZB12C-1.6	16
02	1.5	PKM0-4	3*DILM7C	ZB12C-2.4	16
03	2.2	PKM0-6.3	3*DILM7C	ZB12C-4	16
04	3	PKM0-10	3*DILM7-10C	ZB12C-6	16
05	4	PKM0-10	2*DILM9C 1*DILM7C	ZB12C-6	16
06	5.5	PKM0-12	2*DILM12C 1*DILM9C	ZB12C-10	16
07	7.5	PKM0-16	2*DILM12C 1*DILM9C	ZB12C-10	16
08	11	PKM0-25	2*DILM17C 1*DILM9C	ZB32C-16	16
09	15	PKM0-32	2*DILM25C 1*DILM17C	ZB32C-24	16
10	18.5	NZM-S40	2*DILM25C 1*DILM17C	ZB32C-24	26
11	22	NZM-S50	2*DILM32C 1*DILM17C	ZB32C-32	26
12	30	NZM-S63	2*DILM40C 1*DILM25C	ZB65C-40	26
13	37	NZM-S80	2*DILM50C 1*DILM25C	ZB65C-57	26
14	45	NZM-S100	2*DILM65C 1*DILM50C	ZB65C-57	36
15	55	NZM-S125	2*DILM65C 1*DILM50C	ZB65C-65	36
16	75	NZM-S160	2*DILM80C 1*DILM50C	ZB150C-100	36



#### 馈电抽屉单元 / Feeder drawer unit

方案编号	额定电流 (A)	断路器	极数	抽屉模数
NO.	Rated Current	Breaker	Pole	Drawer Module
01	≤160A	NZM-20~160	3P/4P	200mm
02	250A	NZM-250	3P/4P	300mm
03	400A	NZM-400	3P/4P	400mm
04	630A	NZM-630	3P/4P	500mm



#### 电动机抽屉单元(直接启动) / Motor drawer unit (DOL)

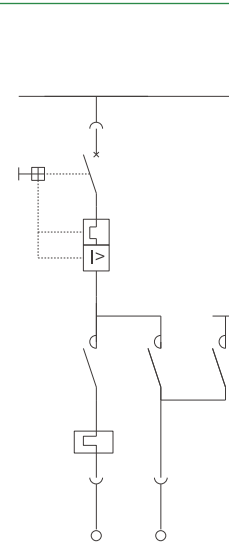
方案编号	电动机功率	断路器	接触器	热继电器	抽屉模数
NO.	Motor Power	Breaker	Contactor	Thermal relay	Drawer Module
01	1.1	PKM0-4	DILM7-10C	ZB12C-2.4/马保	200mm
02	1.5	PKM0-4	DILM7-10C	ZB12C-4/马保	200mm
03	2.2	PKM0-6.3	DILM7-10C	ZB12C-6/马保	200mm
04	3	PKM0-10	DILM7-10C	ZB12C-10/马保	200mm
05	4	PKM0-10	DILM9-10C	ZB12C-10/马保	200mm
06	5.5	PKM0-12	DILM12-10C	ZB12C-12/马保	200mm
07	7.5	PKM0-16	DILM17-10C	ZB32C-16/马保	200mm
08	11	PKM0-25	DILM25-10C	ZB32C-24/马保	200mm
09	15	PKM0-32	DILM32-10C	ZB32C-32/马保	200mm
10	18.5	NZM-S40	DILM40C	ZB65C-40/马保	200mm
11	22	NZM-S50	DILM50C	ZB65C-57/马保	200mm
12	30	NZM-S63	DILM65C	ZB65C-65/马保	200mm
13	37	NZM-S80	DILM80C	ZB150C-100/马保	200mm
14	45	NZM-S100	DILM95C	ZB150C-100/马保	300mm
15	55	NZM-S125	DILM115C	ZB150C-125/马保	400mm
16	75	NZM-S160	DILM150C	ZB150C-150/马保	400抽屉/固定单元 Drawer/Fixed unit
17	90	NZM-S200	DILM170C	ZB150C-175/马保	500抽屉/固定单元 Drawer/Fixed unit
18	110	NZM-S250	DILM225A/ XTCD225	ZEB/马保	700固定单元 Fixed unit
19	132	NZM-S320	DILM250/ XTCD300	ZEB/马保	700固定单元 Fixed unit
20	160	NZM-S320	DILM300A/ XTCD300	ZEB/马保	800固定单元 Fixed unit
21	200	NZM-S400	DILM400/ XTCD400	ZEB/马保	800固定单元 Fixed unit



# Product Plan 产品方案

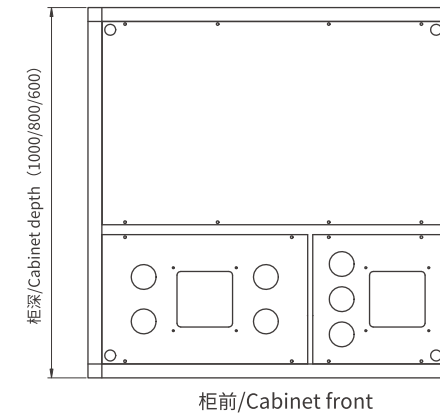
## 电动机抽屉单元(星三角启动) / Motor drawer unit (Star-△start)

方案编号 No.	电动机功率 Motor Power	断路器 Breaker	接触器 Contactor	热继电器 Thermal relay	抽屉模数 Drawer Module
01	1.1	PKM0-4	3*DILM7-10C	ZB32C-1.6	400mm
02	1.5	PKM0-4	3*DILM7-10C	ZB32C-2.4	400mm
03	2.2	PKM0-6.3	3*DILM7-10C	ZB32C-4	400mm
04	3	PKM0-10	3*DILM7-10C	ZB32C-4	400mm
05	4	PKM0-10	2*DILM9-10C 1*DILM7-10C	ZB32C-6	400mm
06	5.5	PKM0-12	2*DILM12-10C 1*DILM9-10C	ZB32C-10	400mm
07	7.5	PKM0-16	2*DILM12-10C 1*DILM9-10C	ZB32C-10	400mm
08	11	PKM0-25	2*DILM17-10C 1*DILM9-10C	ZB32C-16	400mm
09	15	PKM0-32	2*DILM25-10C 1*DILM17-10C	ZB32C-24	400mm
10	18.5	NZM-S40	2*DILM25-10C 1*DILM17-10C	ZB32C-24	400mm
11	22	NZM-S50	2*DILM32-10C 1*DILM17-10C	ZB32C-32	400mm
12	30	NZM-S63	2*DILM40C 1*DILM25-10C	ZB65C-40	400mm
13	37	NZM-S80	2*DILM50C 1*DILM25-10C	ZB65C-57	400mm
14	45	NZM-S100	2*DILM65C 1*DILM50C	ZB65C-57	500mm
15	55	NZM-S125	2*DILM65C 1*DILM50C	ZB65C-65	500mm
16	75	NZM-S160	2*DILM80C 1*DILM50C	ZB150C-100	500mm

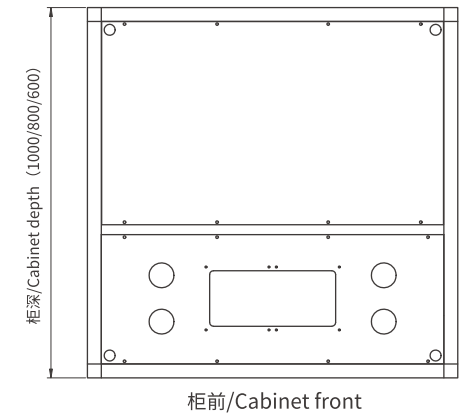


# Outgoing Design 出线方案

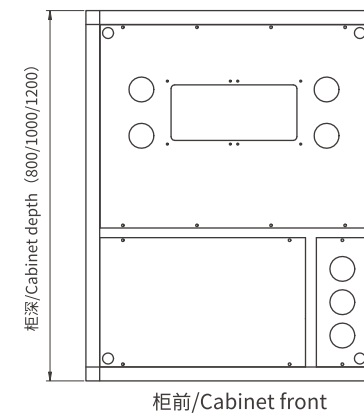
1000 宽抽屉柜侧出线方案  
Side outgoing of 1000 drawer cabinet



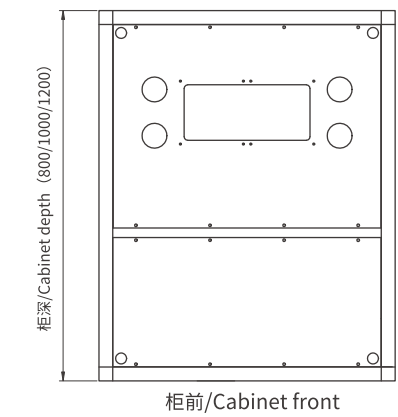
1000 宽固定柜侧出线方案  
Side outgoing of 1000 fixed cabinet



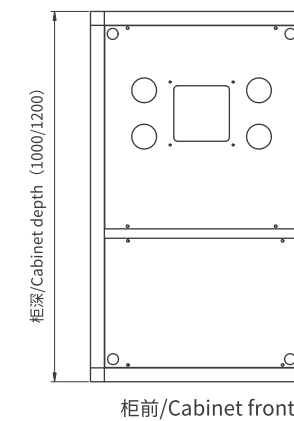
800 宽抽屉柜后出线方案  
Rear outgoing with width of 800 drawer cabinet



800 宽固定柜后出线方案  
Rear outgoing with width of 800 fixed cabinet



600 宽抽屉柜后出线方案  
Rear outgoing with width of 600 drawer cabinet



600 宽固定柜后出线方案  
Rear outgoing with width of 600 fixed cabinet

