



# xEnergy 型 低压抽出式开关柜

Low-voltage withdrawable switchgear cubicle

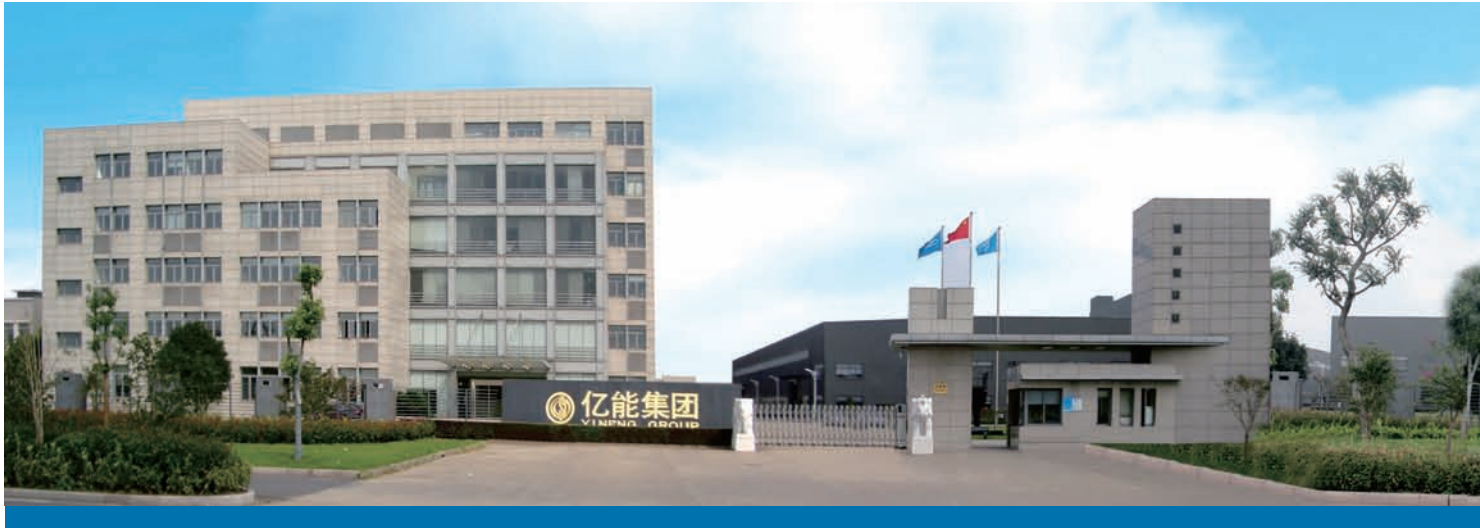


产品手册

[www.jsyineng.com](http://www.jsyineng.com)



江苏亿能电气有限公司  
JIANGSU YINENG ELECTRIC CO.,LTD.



## 企业简介

### Company Introduction

江苏亿能电气集团（亿能集团）是集研发，生产和销售中压环网柜、中低压开关柜、高低压母线槽和电缆桥架等电气产品的大型高新技术企业。集团公司成立于2002年，注册资本10088万元，现有员工500多人，坐落在誉为中国工程电气岛——江苏省扬中市经济开发区。

集团公司先后通过了ISO9001质量管理、ISO14001环境管理、OHSAS18001职业健康安全管理、ISO10012测量管理等体系管理认证以及3C和KEMA产品认证。荣获了“国家守合同重信用企业”、“国家高新技术企业”、“江苏省著名商标”，“江苏省名牌产品”等荣誉称号。

集团先后与国际知名公司ABB，Eaton、Siemens、Schneider等签订了战略合作协议。亿能集团生产的开关柜、配电箱、母线槽和桥架广泛应用于国家电网、地铁、石油化工、汽车、电信等领域。过硬的质量，完善的服务赢得了一致好评。

亿能集团在全国十多个城市设立了办事处，配备专职人员，为本地区项目提供及时准确的售前售后服务。

在开拓国内市场的同时，集团注重了国际市场的开发，亿能产品先后应用于十几个国家的重点项目。国际市场将是亿能未来发展的重点方向。

“科技、人文、责任”是亿能的核心价值观，借助品牌管理、提高产品质量、更好地服务于社会是亿能的一贯追求。亿能正朝着中国著名电气企业的方向阔步奋进。



Jiangsu Yineng Electric Group (Yineng Group) is a large private company, which integrates R&D, production and sales of medium-voltage ring main unit, low-voltage switchgear, high and low voltage busbar, cable tray and other electrical products. The group, established in 2002, with the registered capital of more than 100 million Yuan and the employee of more than 500 people, lies in the Economic Development Zone of Yangzhong city, which is well known in China for the concentration of electrical equipment manufacture.

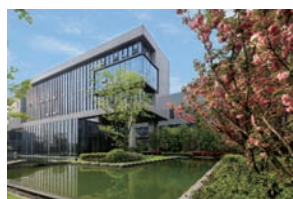
The group has obtained the system certification for ISO9001 Quality Management, ISO14001 Environmental Management, OHSAS18001 Health Management, ISO10012 Measurement Management and product certification of 3C and KEMA. What's more, the Group has won the reputation of "Contract and Accredited Honoring Company", "China's High-tech Enterprise", "Jiangsu Provincial Famous Trademark", and "Jiangsu Famous Product" etc.

The Group has signed the strategic cooperation agreement with great corporations——ABB, Eaton, Siemens, Schneider. The ring main unit, distribution box, busbar and cable tray, which are widely used in State Grid, Subway, Petrochemical, Automobile, Telecommunication and other fields, have got unanimous praise for excellent quality and perfect service,

Yineng Group has established in some big cities in China more than ten offices with full time staff to provide timely and accurate pre-sale and after-sale service for the districts.

Jiangsu Yineng Group is focusing on the development of international market at the same time of opening up the domestic market. The products have been applied in more than a dozen foreign projects. Opening up the international market will be one of the main development directions of Yineng in the future.

"Technology, Humanity, Responsibility" is the core values of Yineng. The consistent pursuit of the group is to improve the quality of products and the service to the society with the help of brand management. Yineng is moving on rapidly in the direction of being China's famous electric enterprise.







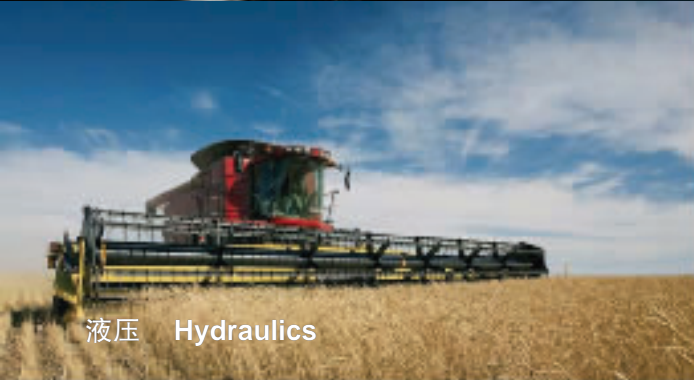
汽车 Automotive



宇航 Aerospace



卡车 Truck



液压 Hydraulics



电气 Electrical

## 全球商业动力之源

### Powering business worldwide

伊顿公司顺应当今世界瞬息万变的需求,为成百上千种产品提供动力解决方案。

Eaton delivers the power inside hundreds of products that are answering the demands of today's fast changing world.

我们服务全球用户,秉承可持续发展的理念,为建筑,飞机,卡车,汽车,机械企业的发展提供动力支持及管理。

We help our customers worldwide manage the power they need for buildings, aircraft, trucks, cars, machinery and entire businesses. And we do it in a way that consumes fewer resources.

#### 新一代运输方式 Next generation transportation

伊顿正致力于推动新技术的发展,从混合动力系统和排放控制系统,到先进的发动机部件,这些技术可以大大减少卡车及小轿车的燃油消耗及排放。

Eaton is driving the development of new technologies – from hybrid drive-trains and emission control systems to advanced engine components – that reduce fuel consumption and emissions in trucks and cars.

#### 更高的展望 Higher expectations

我们将一如既往地扩展航空解决方案及服务,满足新时代航空平台的需求,包括高空飞行的轻型飞机及超轻型飞机。

We continue to expand our aerospace solutions and services to meet the needs of new aviation platforms, including the high-flying light jet and very light jet markets.

#### 以实力为后盾 Building on our strengths

我们的液压业务将本地化服务及支持与流体动力创新解决方案相结合,在全球范围,满足基础设施项目需求,包括水闸,河渠及堤坝的修筑。

Our hydraulics business combines localized service and support with an innovative portfolio of fluid power solutions to answer the needs of global infrastructure projects, including locks, canals and dams.

#### 为绿色建筑及企业供电 Powering Greener Buildings and Businesses

伊顿电气集团是全球领先的电能质量,输配电及工业控制解决方案的供应商,长期致力于提高能源效率,改善电能质量,安全性及可靠性。我们的解决方案将“绿色”产品和服务有效结合,如能源监测及实时电能计量的组合。伊顿提供的不间断电源(UPS),变频器及照明控制装置在节约能源,提高效率方面成绩卓越。

Eaton's Electrical Group is a leading provider of power quality, distribution and control solutions that increase energy efficiency and improve power quality, safety and reliability. Our solutions offer a growing portfolio of “green” products and services, such as energy audits and real-time energy consumption monitoring. Eaton's Uninterruptible Power Supplies (UPS), variable-speed drives and lighting controls help conserve energy and increase efficiency.



# 开关技术 我们的核心科技

## Switching technology Our core technology

伊顿公司掌握并且了解各个行业、应用、技术及产品,确保为客户提供安全、可靠和高性能的解决方案。

Eaton masters and understands each industry, application, technology and product; ensure to provide customers with safe, reliable and high-performance solutions.

我们一直致力于打造低压和中压开关新技术,这一理念已深深扎根于伊顿。

We have been committed to manufacturing MV and LV switching technologies and this idea has been deeply rooted in Eaton.

### 为全球提供完整的低压开关装置解决方案

伊顿公司的低压系统旨在节省空间、能源高效,同时确保安装、运行及维护简单。伊顿的低压系统是高度标准化的系统,可快速配置,提供报价工具,并且可以快速交货。

伊顿公司全面的低压系统产品系列经过特别设计,可以满足各种类型装置的需要。产品系列广泛,包括电源和控制装置、箱式变电站、主配电板和次配电板、母线槽、电动机控制中心、功率因素校正和工程设备。

通过这些全面的产品系列,伊顿公司的低压配电和控制系统广泛使用在各种应用中,例如,水工业、制药业、工业设施、食品及饮料、基础设施项目、采矿业和钢铁业,以及商店、学校、仓库、医院、监狱、数据中心和体育场等商业应用中。

### 可靠、安全及标准化的设计

伊顿公司的低压系统产品系列不仅为您提供最佳的配电和电动机控制性能,而且也满足您在安全性和灵活性方面最苛刻的要求。就安全而言,伊顿公司的低压系统为您带来最高等级的防护。

伊顿公司的理念是所有产品都要通过或在国际认可的第三方组织的监督下,经过各种测试和认证,这些第三方组织包括KEMA、AsTA、LOVAG和UL(美国保险商实验室)。除了第三方的性能和质量认证之外,许多伊顿低压系统也获得专业认证,包括DNV(挪威船级社)、Lloyds(英国劳氏船级社)、UL、CQC和KEMA(荷兰电工材料协会)。

### Provide the whole world with complete LV switchgear solutions.

The LV system of Eaton aims at saving space, high-efficient energy, and ensuring installation, operation and simple maintenance. Eaton's LV system is a high standardized one, which can be quickly configured and provide pricing tool and fast delivery.

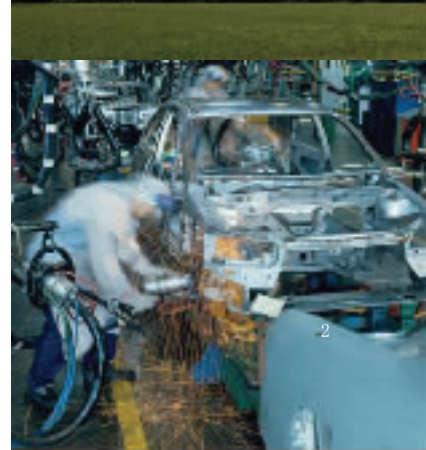
Eaton's LV system is specially designed, which can meet the needs of all kinds of assemblies. The series of products are wide, including power source and control equipment, box-type substation, main and secondary distribution board, bus-way, MCC, correction of power factor and engineering equipment.

Eaton's LV power distribution and control system are widely used in all kinds of applications, such as water industry, pharmacy, industrial facilities, food and drink, infrastructure, mining, iron and steel and such business applications as shops, schools, hospitals, data centers, gyms and so on.

### Reliable, safe and standardized design

Eaton's LV system can not only provides you with best power distribution and motor control performance, but also can meet extreme demanding on safety and flexibility. In terms of safety, Eaton's LV system can provide you with the highest degree of protection.

The idea of Eaton is that all products shall pass all kinds of tests and certifications or under supervision of international recognized third party, these third parties include KEMA, AsTA, LOVAG and UL. Besides, Eaton's LV systems have obtained professional certifications such as DNV, Lloyds, UL, CQC and KEMA.







## 产品概述 General



### ■ 技术先进、经验丰富、质量可靠

#### Advanced technology, rich experience and reliable quality

xEnergy 系统体现了伊顿百余年的低压系统设计和生产制造经验。也正是凭借这些丰富的经验和专业的知识，开发了 xEnergy。xEnergy 低压开关柜平台采用了质量顶尖的开关和配电元件品牌。如 Culter-Hammer, Westinghouse, Holec, MEM 和 Moeller 等传统品牌，充分保证了 xEnergy 开关柜的高性能，高可靠性。

xEnergy system reflects design and manufacturing experience of LV systems for more than a hundred years. It is based on the rich experience and professional knowledge that xEnergy is developed. xEnergy LV switchgear has used the switching and distributing components of top-quality brands such as Culter-Hammer, Westinghouse, Holec, MEM and Moeller, which fully ensures high performance and high reliability of xEnergy switchgear.



### ■ 服务优势 Service advantages

- ※ 针对客户定制的一整套的服务，从产品咨询，工程服务到全面的项目管理；
  - ※ 模数化产品，便于安装设计，及车间流水化作业，交货期短；
  - ※ 完善、反应快捷的售后服务团队，若有故障通知，售后服务人员会在 8 小时内响应，12 小时内到达现场进行维修服务；
  - ※ 仓库长期备有一定数量的常用元器件，可随时满足客户对备品备件的需要。
- ※ A complete set of service is made from product consulting, engineering service to all-round project management;
  - ※ Modular products, easy for installing and designing, and easy for assembly line, and short delivery;
  - ※ Perfect and fast after-service team, if a fault occurs, the after-service persons will response within 8 hours and reach the site within 12 hours;
  - ※ A certain number of common components and elements are prepared in the storehouse, which can meet the needs of customers for spare parts at any time.

xEnergy 是符合 GB7251 标准的一款集高性能、高可靠性于一体的低压开关柜设备，电流范围最大可达 6300A，并通过国家强制性试验认证。全系列的开关柜设备，提供了完整的解决方案，覆盖了低压应用领域，如：电力系统、数据中心、工矿企业、石油化工、商业建筑、机场……

xEnergy is a kind of LV switching equipment with high-performance and high reliability and conforming with the standard of GB7251, its current scope can reach 6300A and passed national CCC certification. The whole series switching equipment provides complete solutions, which covers LV application fields such as power system, data centers, mining enterprises, petrochemical, commercial buildings, airports……





## 性能及优点 Performance and advantages

### 可靠性 Reliability

- ※ 符合国家标准 GB7251.1 的要求；
  - ※ 全系列产品经过型式试验认证(第三方认证), 主要型式试验有:
    - 温升极限验证
    - 短路耐受强度验证
    - 介电性能验证
    - 电气间隙及爬电距离验证
    - 保护电路有效性验证
    - 机械操作验证
    - 防护等级验证
  - ※ 原厂制造, 通过 ISO9000, 14000 的质量认证；
  - ※ 系统采用高品质的伊顿元器件, 保证最佳运行状态。
- ※ Conforming to requirements of national standard GB7251.1;
  - ※ All series products passed type tests (third party certification), main type tests are:
    - Verification of temperature rise limit
    - Verification of short-circuit withstand strength
    - Verification of dielectric performance
    - Verification of electric clearance and creepage distance
    - Verification of effectiveness of the protective circuit
    - Verification of mechanical operation
    - Verification of protective degree
  - ※ Made from an original factory, passed ISO9000, 14000 quality certification.
  - ※ The system adopted high-quality elements and components, which ensures best running state.

### 安全性 Safety

- ※ 主母排额定电流可高达 6300A, 主母线额定短时耐受电流高达 100kA/s, xEnergy 开关柜处于市场领先的位置；
  - ※ 联锁机构确保操作人员的人身安全, 开关柜只有在断开位置才能打开柜门或抽出抽屉；
  - ※ 当抽屉抽出时, 配电母线防护等级为 IP2X。也可安装可选的自动活门, 防止抽屉抽出时, 弧光飞溅；可安装伊顿可选的电弧故障保护系统 ARCON®, ARMS® 功能, 为人员和系统提供最高等级的安全；
  - ※ 母线、功能单元、端子相互隔离, xEnergy 采用 3b/4b 内部分隔形式, 充分保证维修人员的操作安全, 及防止事故的蔓延。
- ※ Rated current of the main bus can reach 6300A, rated short-time withstand current can reach 100kA/s, the xEnergy switchgear is a leader in the market;
  - ※ The interlocking mechanism can ensure person safety, only on OFF position can the cabinet door be opened or the drawer be pulled out;
  - ※ When the drawer is pulled out, the protection degree of the distribution bus is IP2X. an automatic shutter may be installed to prevent arc spattering when the drawer is pulled out; the arc fault protecting systems such as ARCON®, ARMS® may be installed, which will provide safety of the highest degree for persons and the system;
  - ※ Buses, function units and terminals are separated from each other, xEnergy adopts 3b/4b inner separations, which will fully ensure safety of operators and prevent accident from spreading.

### 灵活性 Flexibility

- ※ 模块化设计, 相同单元的抽屉可以实现不同位置的互换, 立柱支件可以通用, 节约了装配时间, 同时也节约了成本；
  - ※ 开关柜使用特殊的 Ω 型材, 强度更高, 更美观, 易于安装, 大批量生产；
  - ※ 占用空间少, 结构紧凑, 最多可安装 36 个回路, 拥有最大的安装使用密度；
  - ※ 开关柜易于扩展及升级, 需要时可以向两侧扩展；当对开关设备的要求改变时, 可升级开关设备；
  - ※ 灵活的全方位进出线方式, 进线可以满足侧进、上进、下进, 出线可以满足侧出、背出。
- ※ Modular design, the drawers of the identical unit can be interchanged in different positions, the column supports can be used universally, which will save installing time and cost;
  - ※ Special Ω profiles are used in the switchgear, which are easy for installing and suitable for mass production and are more strong and good-looking.
  - ※ Occupying little space, compact structure, with largest installing density, at most 36 circuits can be mounted;
  - ※ The switchgear is easy for expansion and upgrading, two sides may be expanded if needed; if the requirements for the switching equipment are changed, the switchgear may be upgraded;
  - ※ Flexible incoming and outgoing from all directions, the methods of incoming are side incoming, upper incoming and lower incoming, the outgoing methods are side and rear outgoing.



## xEnergy 开关柜电气参数

### Electric parameters of xEnergy switchgear

#### 主要技术参数 Main technical data

项目 Item	单位 Unit	参数数值 Parameter value
符合标准 Conforms with standards		GB7251.1
环境温度 environment temperature	度	-5°C~+40°C
额定绝缘电压 rated insulating voltage	V	1000V
额定工作电压 rated working voltage	V	400V/690V(1000V)
额定频率 rated frequency	Hz	50Hz
主母线额定电流 rated current of main bus	A	至 6300A / To 6300A
主母线额定短时耐受电流 rated short-time withstand current of main bus	kA	至 100kA(1s) / To 100kA(1s)
主母线额定峰值耐受电流 rated peak withstand current of main bus	kA	至 220kA / To 220kA
配电母线(垂直母线)额定电流 rated current of power distribution bus(vertical bus)	A	至 1800A / To 1800A
防护等级 degree of protection		IP4X / IP55*
内部分隔形式 inner separation forms		Form1 至 Form4b / Form1 to Form4b
配电系统形式 forms of power distribution system		TN-C, TN-C-S, TN-S, TT, IT
材料组别 material groups		IIIa
过电压类别 overvoltage category		III 或 IV / III or IV
柜体尺寸 dimensions of cabinet	mm	柜高/cabinet height :2200  柜深/cabinet depth :600,800,1000,1200  柜宽/cabinet width :600/650/800/1000/1200/1400
外观颜色 colors of outer appearance		RAL7035(其他颜色请垂询) Please make inquiries about other colors

若欲订购,请提前与厂商联系。

Please contact the manufacturer in advance if ordering.





## xEnergy 开关柜产品类型

## Types of xEnergy switchgears



### ■ XP 配电柜 XP power distribution cabinet

#### 应用于: applied in

- ※ 进线;  
Incoming
- ※ 大框架馈线;  
Large frame feeder
- ※ 对跨母联;  
Bus couple
- ※ 同一排列母联。  
Bus couple in the same array

#### 柜内元件: components in the cabinet

- ※ 框架断路器 ACB: IZM91/97/99 系列(至 6300A)  
Air circuit breaker ACB: IZM91/97/99 series (to 6300A)
- ※ 塑壳断路器 MCCB: NZM 系列(至 1600A )  
Moulded case circuit-breaker MCCB: NZM series (to 1600A)

#### 安装: installation

- ※ 断路器固定安装和抽出式安装;  
Fixed and withdrawable installation of circuit breakers
- ※ 柜体有效空间 1800mm, 占 72 个模数, 每个模数高为 25mm;  
The useful space of the cabinet is 1800mm, occupying 72 modules, height of each module is 25mm
- ※ 母线室安装高度 300mm, 主母排有侧进、上进、下进方案;  
The installation height of the bus compartment is 300mm, there are side incoming, upper incoming and lower incoming solutions for main bus-bars
- ※ 电缆或母线槽从顶部或底部走线;  
Cables or bus-ways may be installed in top or bottom
- ※ 断路器安装在独立的小室内, 有独立的小门;  
The circuit breaker is installed in an independent compartment with an independent door
- ※ 可靠墙安装或独立安装;  
May installed against wall or independently
- ※ 柜宽 600mm/800mm/1000mm/1200mm/1400mm。  
Cabinet width 600mm/800mm/1000mm/1200mm/1400mm



## ■ XF 固定式柜 XF fixed cabinet

### 应用于: applied in

- ※ 配电馈线;  
distribution feeder
- ※ 电动机直启;  
motor direct start
- ※ 电动机正反转启动;  
motor normal-reverse rotation start
- ※ 电动机星三角启动。  
motor star-delta start.

### 柜内元件: components in the cabinet

- ※ 马达保护开关 PKZ 系列 (0.16-32A);  
motor protection switch PKZ series (0.16-32A)
- ※ 塑壳断路器 LZM 系列 (至 630A), NZM 系列 (至 1600A);  
moulded case circuit-breaker LZM series (to 630A), NZM series (to 1600A)
- ※ 接触器小功率 DILM 系列 (7-170A), 大功率 DILM 系列 (185-1600A);  
contactor small-power DILM series (7-170A), high-power DILM series (185-1600A)
- ※ 热继 ZB 系列。  
thermal relay ZB series

### 安装: installation

- ※ 可在断路器上安装底座, 支持热插拔, 易维修;  
a basement can be installed beneath the circuit breaker, hot plug-ing, easy for maintenance
- ※ 每个回路都有独立的小门;  
each circuit has an independent door;
- ※ 操作柄与单元门有联锁功能, 只有在主开关断开的情况下才能打开回路小门;  
operation handle has interlocking function with the unit door, only when the main switch is OFF can the circuit door be opened
- ※ 柜子有效空间为 1800mm, 其中 250A 以下, 每个间隔的高度为 200mm, 250-630A, 每个间隔高度为 250mm;
- ※ the useful space of the cabinet is 1800mm, the height of each separation is 200mm when under 250A, the height of each separation is 250mm when 250-630A
- ※ 垂直母排最大电流为 1800A;  
maximum current of vertical bus-bar is 1800A
- ※ 电缆后出线柜宽: 650mm, 电缆侧出线柜宽: 1000mm。  
cabinet width of cable rear outgoing: 650mm, cabinet width of cable side outgoing: 1000mm



## ■ XW 抽出式柜 XW withdrawable cabinet

### 应用于: applied in

- ※ 配电馈线;  
distribution feeder
- ※ 电动机直启;  
motor direct start
- ※ 电动机正反转启动;  
motor normal-reverse rotation start
- ※ 电动机星三角启动;  
motor star-delta start

### 柜内元件: components in the cabinet

- ※ 马达保护开关 PKZ 系列(0.16-32A);  
motor protection switch PKZ series (0.16-32A)
- ※ 塑壳断路器 LZM 系列(至 630A), NZM 系列(至 1600A);  
moulded case circuit-breaker LZM series (to 630A), NZM series (to 1600A)
- ※ 接触器小功率 DILM 系列(7-170A);  
contactor small-power DILM series(7-170A)
- ※ 热继 ZB 系列。  
thermal relay ZB series

### 安装: installation

- ※ 最多可安装 36 个回路, 其中 0-32A, 为 1/4 抽屉; 32-63A, 为 1/2 抽屉; 63-250A, 为 1 单元抽屉, 抽屉高都为 200mm, 250-630A, 为 2 单元抽屉, 抽屉高 400mm;  
at most 36 circuit can be installed, among them, 0-32A is 1/4 drawer; ;32-63A is 1/2 drawer; 63-250A is 1 unit drawer, the height of drawers are 200mm, 250-630A is 2 unit drawer, the height is 400mm
- ※ 操作柄与单元门有联锁功能, 只有在主开关断开的情况下才能打开回路小门;  
operation handle has interlocking function with the unit door, only when the main switch is OFF can the circuit door be opened
- ※ 垂直母排最大为 1800A;  
the max. current of vertical bus-bar is 1800A
- ※ 电缆后出线柜宽: 650mm;  
cabinet width of cable rear outgoing: 650mm
- ※ 电缆侧出线柜宽: 1000mm;  
cabinet width of cable side outgoing: 1000mm
- ※ 可在带电工作状态下更换抽屉, 易维护, 保证最少的停机时间。  
the drawer can be replaced in energized state, it is easy for maintenance, which ensures shortest down time





## ■ XG 通用柜 XG general cabinet



### 应用于: applied in

- ※ 无功补偿  
reactive compensation
- ※ 变频柜  
variable-frequency cabinet
- ※ 软启柜  
soft start cabinet
- .....

### 柜内元件: components in the cabinet

- ※ 投切电容器的专用接触器 DILK(12.5-50kVar);  
special contactor of switched capacitor DILK(12.5-50kVar)
- ※ 变频器 frequency converter  
SLX(1-30kW),  
SVX(0.75-560kW),  
SPX(0.75-2000kW);
- ※ 软启 S801/S811(37-1000A)。  
soft start S801/S811(37-1000A)

### 安装: installation

- ※ 更大的安装空间, 便于灵活设计;  
more installing space, easy for flexible design
- ※ 适合导轨安装的设备。  
Suitable for equipment guide-rail installed



## ■ 基本设计 Basic design

### ■ 柜子机构 cabinet mechanism

- ① 主进线框架断路器 main incoming air circuit breaker
- ② 抽屉式单元 drawer-type unit
- ③ 主母排室 main bus-bar compartment
- ④ 通风口 air vent
- ⑤ 可钥匙锁定的嵌入式门把手 embedded door handle which can be locked by a key
- ⑥ 电力仪表 electrical instruments

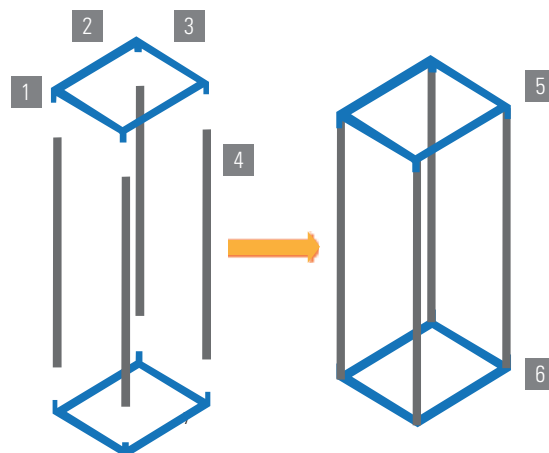


## 框架 Frame

xEnergy 低压开关柜由标准预制件及型材装配而成,以 25mm 的模数构成模块化的柜架结构,由横梁、纵梁、插接板焊接而成的底座(顶座)能够保证柜体强度,且插接式方式简单快捷,便于大量生产。

xEnergy LV switchgear is assembled by prefabricated parts and profile, the cabinet structure is constituted of modular depending on 25mm module, the basement is welded by beams, plug-in boards, which can ensure cabinet strength, the plug-in method is simple and fast, which is easy for mass production.

- |          |               |
|----------|---------------|
| 1. 插接板   | Plug-in board |
| 2. 纵梁    | Stringer      |
| 3. 横梁    | Beam          |
| 4. Ω 型支柱 | Ω column      |
| 5. 顶座    | Top frame     |
| 6. 底座    | Basement      |





### ■ 深度及宽度 depth and width

xEnergy 开关柜可由基本框架组合构成多种开关柜的深度和宽度。  
xEnergy switchgear can form many kinds of depths and widths by basic frames.

基本框架有四种深度; four kinds of depths by basic frames

- 600mm
- 800mm
- 1000mm
- 1200mm

### ■ 基本框架宽度 width of basic frames

600mm(柜型 XP)	600mm(cabinet type XP)
650mm(背出线柜型 XW/XF)	650mm(rear outgoing cabinet )
800mm(柜型 XP)	800mm(cabinet type XP)
1000mm(柜型 XP, 侧出线柜 XW/XF)	1000mm(cabinet type XP,side outgoing cabinetXW/XF)
1200mm(柜型 XP)	1200mm(cabinet type XP)
1400mm(柜型 XP)	1400mm(cabinet type XP)

### ■ 内部隔室 Inner compartments

主要由三部分组成,各区之间用金属隔板隔离。  
Mainly consisted of three parts, each area is isolated with metal partition.

#### ■ 母线区 bus area



5000A 及以下主母线位于开关柜顶部后方,6300A 主母线位于开关柜下部后方,垂直母线位于开关柜的后部。  
The main bus up to 5000A is located in rear part of top of the cabinet, the main bus up to 6300A is located in rear part of the bottom, and vertical bus is located in the rear part of the cabinet.

#### ■ 电缆接线区 cable connecting area



电缆接线有单独且完全隔离的区域。对于馈线柜,电缆室可处在开关柜的后部(后出线),也可处于开关柜的侧面(侧出线)。  
The cable connecting has its own area which is completely separated. As to feeder cabinet, the cable compartment may lie in the rear part of the cabinet ( rear outgoing), or lie in the side of the cabinet (side outgoing).



## 功能单元区 function unit area



位于开关柜的前部, 安装抽屉或者功能元件, 如框架断路器、变频器、电容器等。

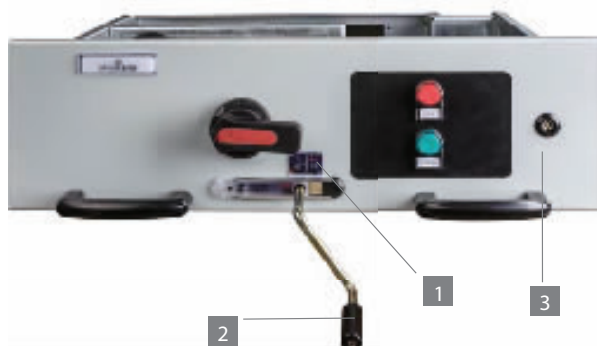
Lies in the front part of the cabinet, it is for installing drawers or function components such as air circuit breaker, inverter, capacitor and so on.



## 抽屉单元 Drawer unit

开关柜拥有最密集的抽屉回路, 最多可安装 36 个回路。其中 25mm 为基本模数高度, 提供下列高度的出线单元:

the switchgear has the most compact drawer circuits, at most 36 circuit can be installed, based on 25mm as basic module height, it has the outgoing units with following heights:



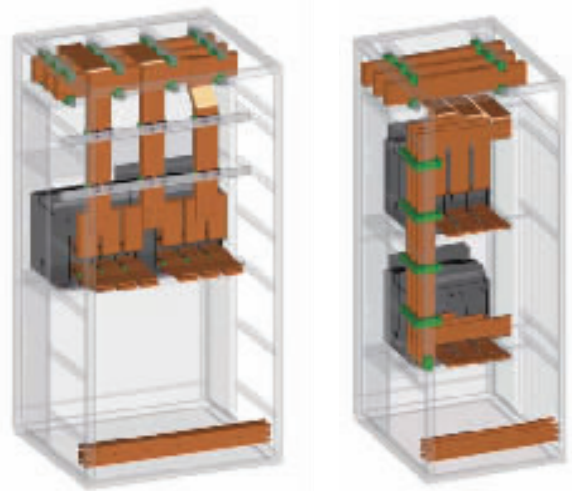
1. 抽屉带有三个位置的明显指示, 准确、有效地显示分离、试验及连接三个状态;
2. 所有抽屉均配置手摇机构, 操作人员省力、安全。并且操作手柄只有在“OFF”位置, 手柄才可插入孔内, 防止带电操作。
3. 抽屉门锁孔, 带有可靠的机械联锁, 处于运行位置时, 抽屉门不能打开, 确保人员安全性。
4. 抽屉抽出时带有人性化的防跌落装置, 避免操作人员用力过猛时, 抽屉跌落。
5. 安全可靠的活门系统, 当抽屉抽出时, 隔离棚片自动隔离母排, 防止意外碰触带电体。

1. The drawer has 3 obvious positions of indications, which can correctly and effectively display 3 states of separation, testing and connection;
2. All drawers are equipped with hand-operating mechanisms which are labor-saving and safe. Only when the handle is in “OFF” position, can the handle be inserted into the hole, which prevents hot line job.
3. The lock hole of the drawer door has a mechanical interlock, when it is in operating position, the drawer door can not be opened, which ensures safety.
4. The drawer has anti-fall device when it is pulled out, which prevents the drawing from falling down.
5. Safe and reliable shutter system, when the drawer is pulled out, the bus-bars will be automatically separated, which prevents contacting alive parts accidentally.



馈线电流 Feeder current	抽屉单元 Drawer unit
0~32A	1/4 抽屉(200mm) / 1/4 drawer(200mm)
32~63A	1/2 抽屉(200mm) / 1/2 drawer(200mm)
63~250A	1 单元抽屉(200mm) / 1 unit drawer(200mm)
250~630A	2 单元抽屉(400mm) / 2 unit drawer(400mm)

## 主母排系统 Main bus-bar system



xEnergy 主母线位于开关柜后部的单独隔室内,确保母线与操作人员之间保持最远的安全距离。主母排表面搪锡,增强导电性。

5000A 及以下主母排可安装在顶部后方;6300A 安装在底部后方,且 A/B/C 三相交错放置,防止电动力过大。主母排的短时耐受电流可达 100kA/s。

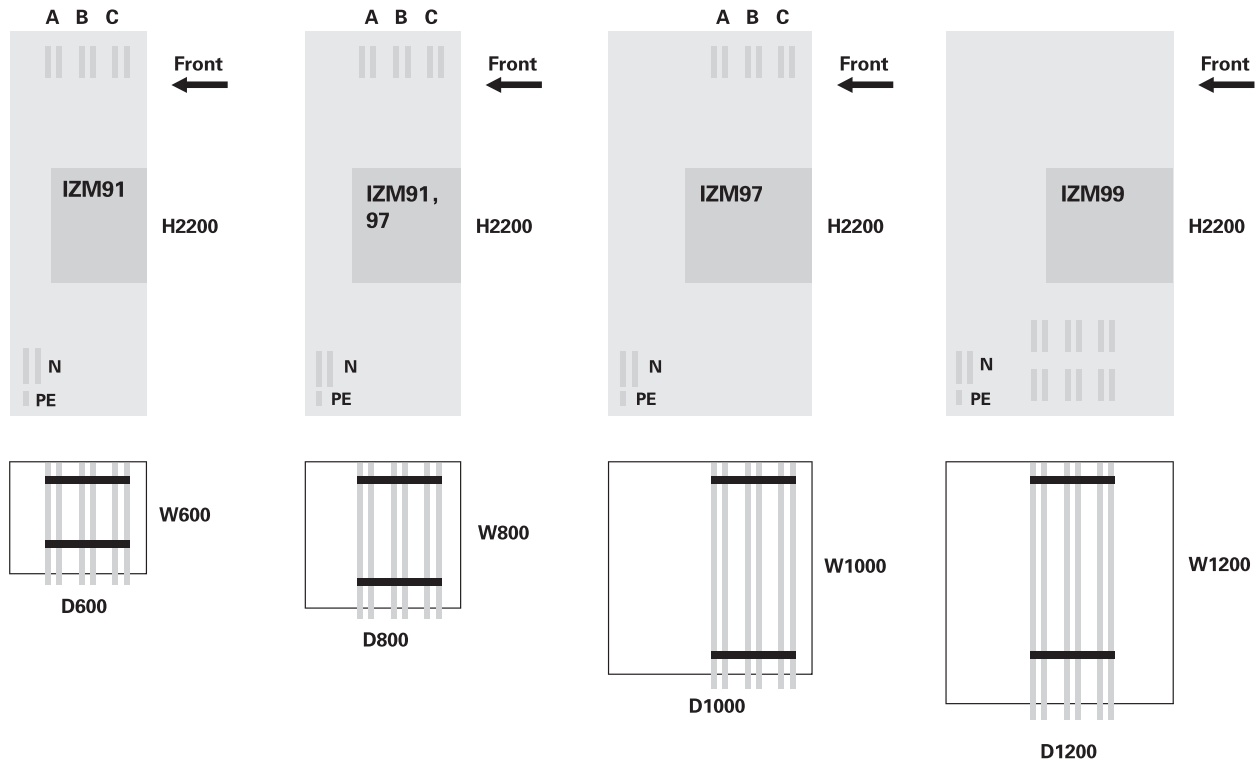
有模块化设计的母线夹,可根据不同的母线尺寸和系统要求灵活组合,便于安装。

The main bus of xEnergy is located in the separate compartment in the rear part of the cabinet, which ensures the farthest safe distance between the bus and persons. The surface of the main bus is coated with tin which will increase conductivity.

The main bus up to 5000A can be installed in the rear part of the top; the main bus of 6300A in the rear part of the bottom, 3 phases of A/B/C shall be cross arranged. Short-time withstand current of the main bus can reach 100kA/s.

Modular designed bus clamps can be combined depending on different bus dimensions and system requirements, which is easy for installation.

**主母排位置 main bus-bar's position**



**内部分隔形式 Inner separation**



GB 标准定义了内部分隔的各种形式,内部分隔形式决定了如何使母线、功能单元和端子相互分隔。xEnergy 经过专门的设计,提供形式 3b 和 4b 的两种分隔形式的解决方案。

形式 3b 的定义:外接导体端子与功能单元分隔,但与其他功能单元的端子之间不分隔。

形式 4b 的定义:与功能单元关联的外接导体端子与其他功能单元端子和母线分隔。

The GB standard has defined all kinds of inner separations, the inner separation forms will decide how buses, function units and terminals are separated. xEnergy provides 3b and 4b 2 solutions of separation forms.

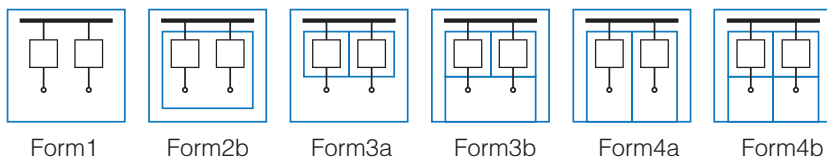
Definitions of 3b: external conductor terminals are separated with function units, but are not separated with terminals of other function units.

Definitions of 4b: external conductor terminals related with function units are separated with terminals of other function units and buses.





**符合 GB 7251 标准的内部分隔形式**  
the inner separation forms conforming with GB 7251



	Form1	Form2b	Form3a	Form3b	Form4a	Form4b
母线(主+配电)与功能单元分隔 bus ( main + power distribution) separated with function units		✓	✓	✓	✓	✓
功能单元与其他功能单元分隔 function units separated with other function units			✓	✓	✓	✓
端子与功能单元无关 terminals have nothing to do with function units			✓	✓		✓
功能单元端子相互分隔 terminals of function units are separated form each other			✓		✓	✓
端子与母线分隔 terminals separated with buses		✓		✓	✓	✓
xEnergy 支持的分隔形式 separation forms supported by xEnergy				✓		✓

**3b与4b的主要区别在于功能单元端子之间是否分隔**  
main difference of 3b and 4b lies in whether terminals of function unit are separated

xEnergy 4b形式时,端子与端子之间用玻璃罩隔开  
If xEnergy adopts 4b, between terminals is separated with a glass cover.

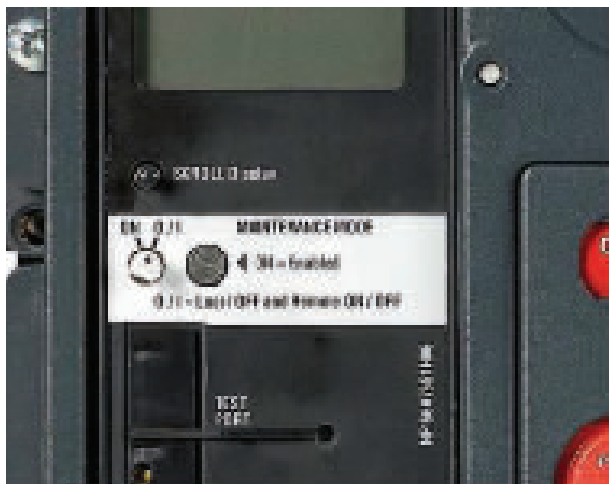
- ✧ 保证了检修时的安全性。  
Ensures safety when overhauling.
- ✧ 用透明罩可以很清楚地看到电缆出线端子的连接状况。  
The connection state of cable outgoing terminals can be seen clearly through the transparent cover.
- ✧ 电缆从透明罩侧面出线,绑定在柜子侧面,保证了布线的整齐,确保了安全性。  
The cables will come out from the side of the transparent cover and tied up in the side of the cabinet, which ensures neatness of wiring and safety.





## Arcflash Reduction Maintenance System™ 系统

### Arcflash Reduction Maintenance System™ system



Arcflash Reduction Maintenance System™是伊顿特有的一款防燃弧的产品,配备了 Arcflash Reduction Maintenance System™系统的伊顿空气断路器为燃弧保护提供了简单而又可靠的方法,通过降低故障清除时间,从而提高安全性。Arc-flash Reduction Maintenance System™系统由一个可锁开关控制,这个可锁开关可轻松激活一个单独的模拟回路,确保更快的脱扣时间,并可整合到标定与锁定(LOTO)流程中。对于配备有闪弧降低维护系统的断路器,其下游设备的入射能等级会非常低,因此保护了下游通电设备的操作或维护人员。

Arcflash Reduction Maintenance System™ is an EATON's special product preventing arcing, the EATON's air circuit breaker equipped with Arcflash Reduction Maintenance System™ system provides simple and reliable method for arcing protection, safety is raised through reducing clearing time. The Arcflash Reduction Maintenance System™ system is controlled by a lockable switch, which will easily activate a separate analog circuit, which ensures fast tripping time and integrates into calibrating and locked(LOTO) procedure. As for the circuit breaker equipped with the Arcflash Reduction Maintenance System™ system, the grade of incident energy of its downstream equipment will be very low, so it will protect operating and maintaining persons of the downstream energized equipment.

#### ■ 闪弧降低维护系统的优点 advantages of arcflash reduction maintenance system

- ※ 限制闪弧能量,增加人员安全易于操作。  
Limit arcflash energy, increase safety and easy for operation
- ※ 可通过在开关柜门上安装行程开关,或对断路器脱扣单元通信,灵活地启用或关闭 Arcflash Reduction Maintenance System™系统。  
By installing a travel switch on the door of the cabinet or communicate with the tripping unit of the circuit breaker, the Arcflash Reduction Maintenance System™ system will be started or closed flexibly.
- ※ 只有在需要进行操作时才启用。  
It will be started only when it needs operations.
- ※ 保持正常条件下的过电流协调。  
Ensure over-current coordination under normal conditions.



## ARCON® 系统 ARCON® system

ARCON®是一个灭弧系统,在特殊情况下应用在配电柜中以保证人身和设备的最高安全性。

ARCON® is an arc extinguishing system, which is used in power distribution cabinet in special circumstances so as to ensure highest safety of persons and equipment.



1. 光传感器  
light sensor
2. 分析单元  
analysis unit
3. 灭弧装置  
arc control device
4. 断开设备  
disconnecting equipment  
(断路器 circuit breaker)

### ■ 反应比闪电还快 response is faster than lightning

电弧监测系统 ARCON Detection 采用特殊的传感器检测电弧。在传感器作出反应后一个电子分析单元将分别向灭弧装置和进线断路器发出脱扣指令。

ARCON®的反应比闪电还要快,在5ms以内,即远在没有造成严重后果之前就已经熄灭电弧。

电弧检测系统 ARCON Detection 在包括传感器和分析单元而不包括灭弧装置的情况下,可用于熄灭一定量级的电弧。此时,灭弧是通过进线断路器跳闸实现的。

The arc monitoring system ARCON Detection adopts a special sensor to detect arcs. After the sensor responds, an electronic analysis unit will issue a tripping instruction to arc extinguishing device and incoming circuit breaker respectively.

ARCON®'s response is faster than lightning, within 5ms, that is to say, the arc is extinguished before causing serious consequences.

Under the circumstance of including a sensor and an analysis unit without an arc extinguishing device, the arc detecting system ARCON Detection can extinguish an arc of a certain amount. At this time, the arc extinguishing is realized by an outgoing circuit breaker.

### ■ 避免损坏 avoid damage

一个电弧的探测和分析只需要2ms的时间,整个灭弧过程,即从最初识别到电弧熄灭最多5ms后肯定可以顺利的结束。这样,电弧所造成的后果就可以减小到最低限度。

一旦故障排除,开关设备即可以重新合闸。

灭弧系统 ARCON®不仅能控制大的电弧—短路电流,而且也能够控制在过载范围内的电弧—过载电流。所以生产停顿时间和所造成的经济损失将显著减少。

It needs 2ms to detect and analyze an arc, the whole arc extinguishing process, that is to say, the arc will be extinguished 5ms after it is identified. In this way, the consequence caused by the arc will be reduced to the lowest limit.

After the fault is cleared, the switching equipment can be closed again.

The arc control system ARCON® can not only control a large arc---short-circuit current, but also can control the current in overload scope---- overload current. So the down time and economic loss will be obviously reduced.



**智能化开关柜** Intelligent switchgear

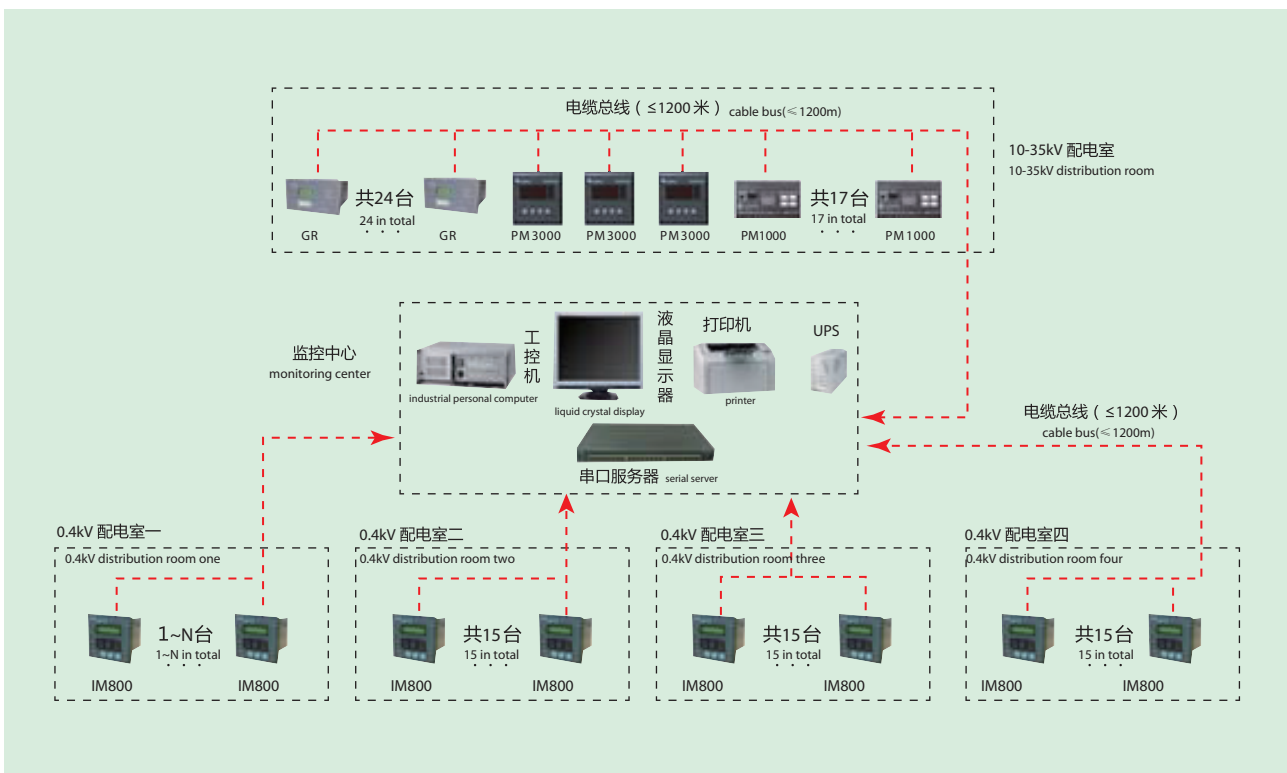


xEnergy 开关柜通过伊顿 PowerNet System, 可以更有效地实现对能源的管控, 数据的监测, 确保电能的安全性。

By EATON's PowerNet System, xEnergy switchgear can more effectively manage and control energy monitor data to ensure safety of electrical energy.

凭借伊顿的高质量元件产品, 如断路器 IZM、NZM 的智能脱扣, 网络电力仪表 PM3000, IQ 等, 可显示每个单元的实时状态、趋势图, 事件记录, 形成一套完整的智能化解决方案。

Depending on EATON's high-quality component products such as intelligent tripping of circuit breakers IZM, NZM, net electrical instruments PM3000, IQ and so on, the real-time status, tendency charts, incident records of each unit may be displayed, which forms a complete set of intelligent solutions.

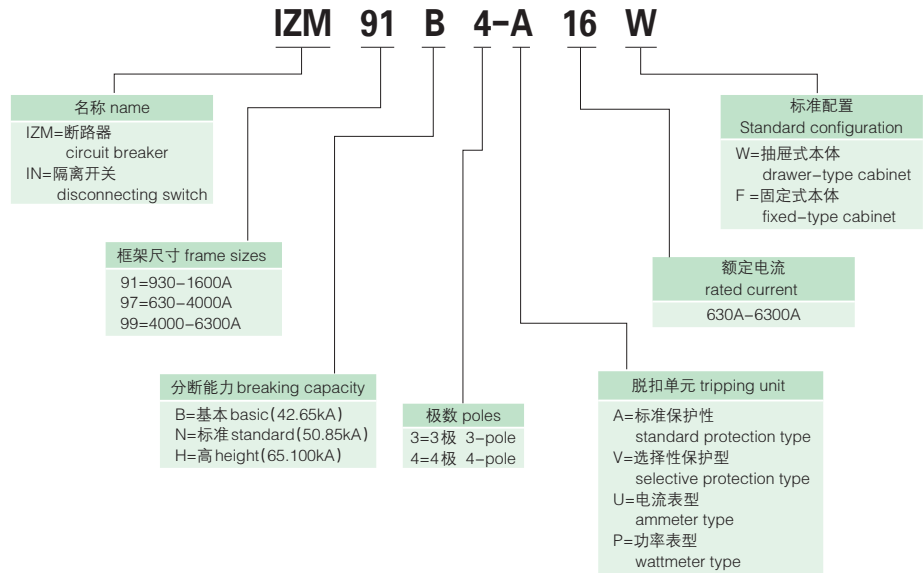




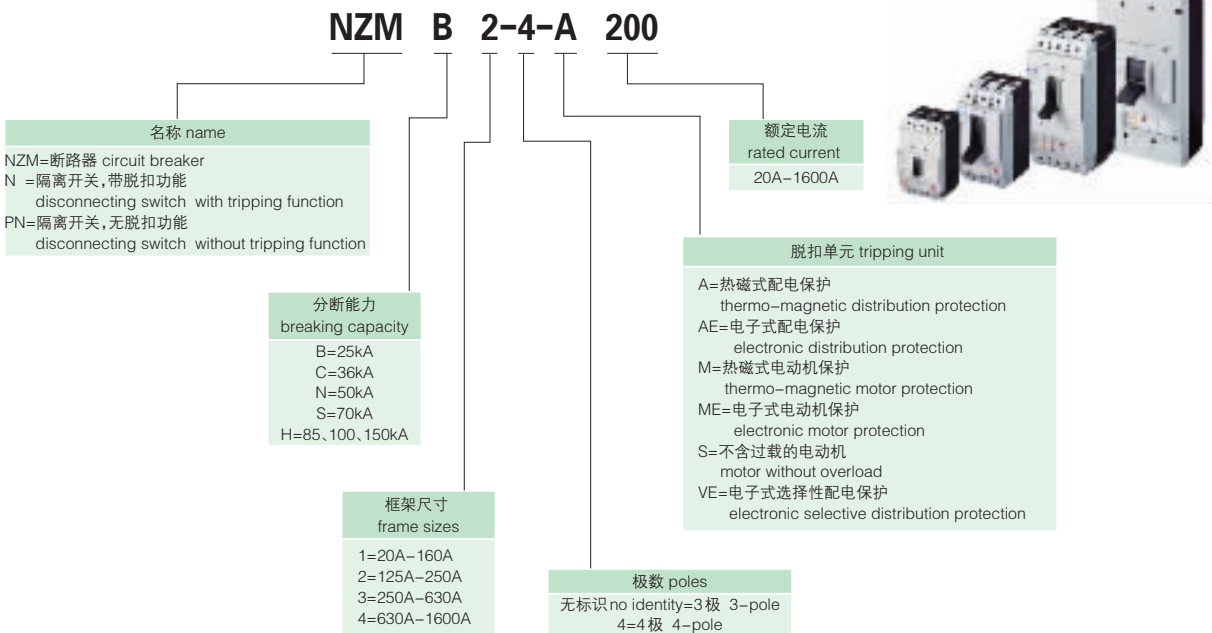
## ● 低压配电产品型号说明

### Description of LV distribution product types

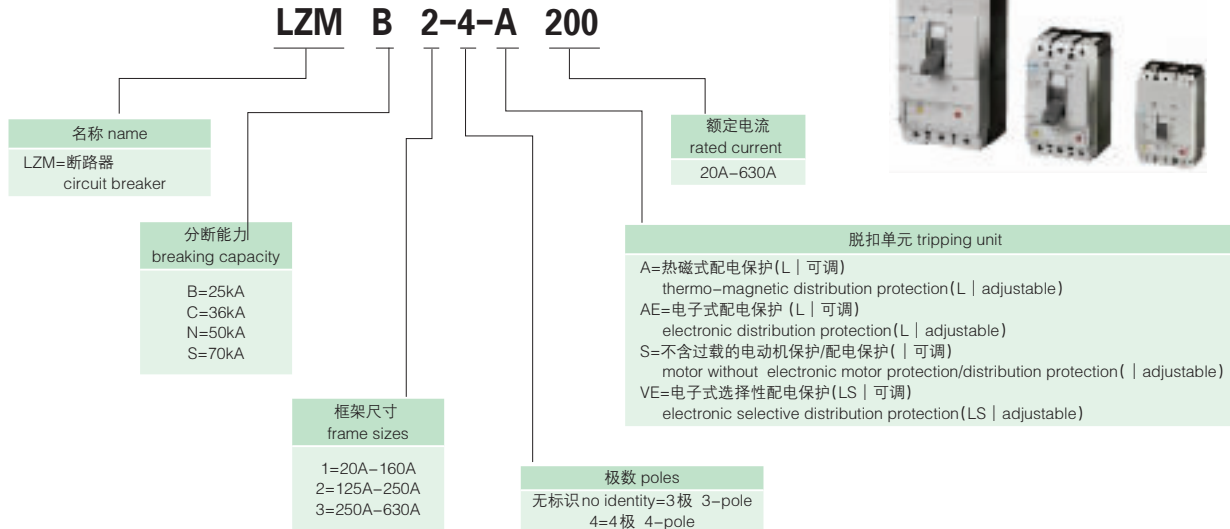
#### ■ 框架断路器 IZM air circuit breaker IZM



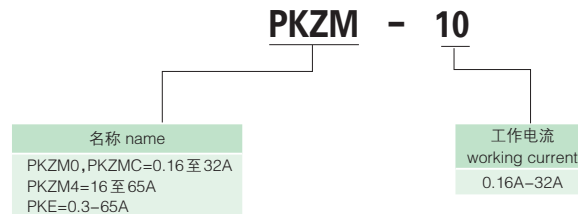
#### ■ 塑壳断路器 NZM moulded case circuit breaker NZM



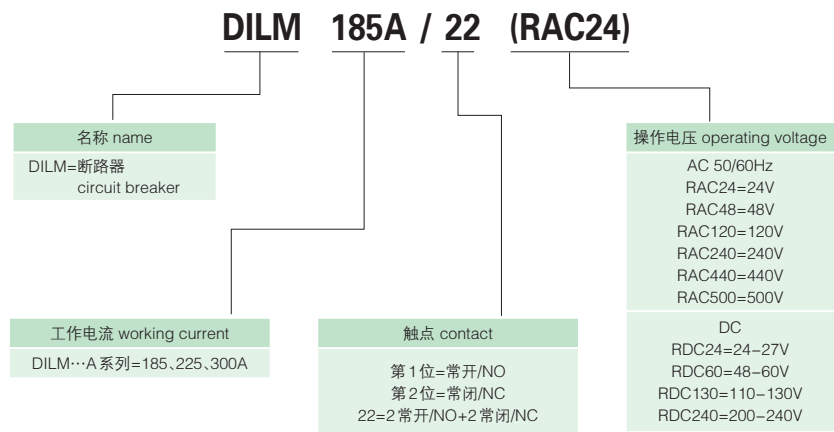
■ 塑壳断路器 LZM air circuit breaker LZM



■ 马达保护开关 PKZ motor protective switch PKZ



■ DILM 大容量接触器 (185~300A) DILM high-capacity contactor (185~300A)

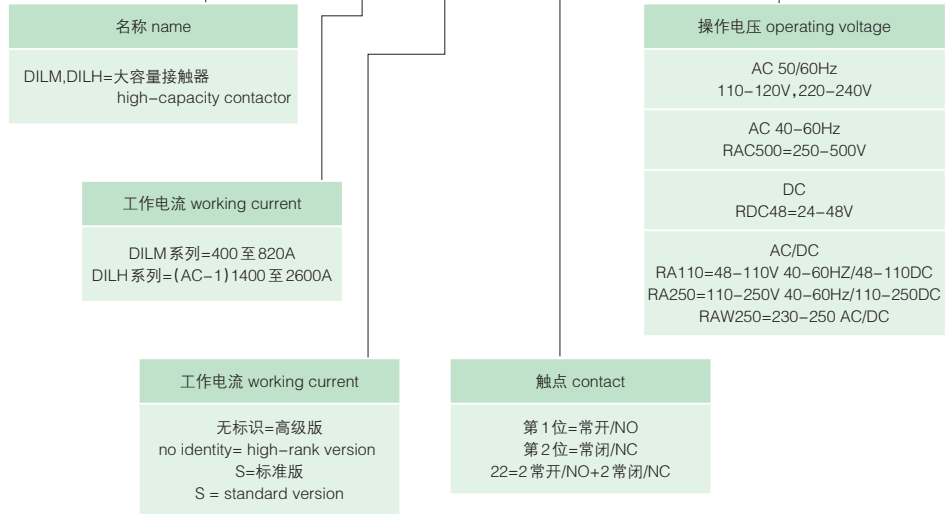




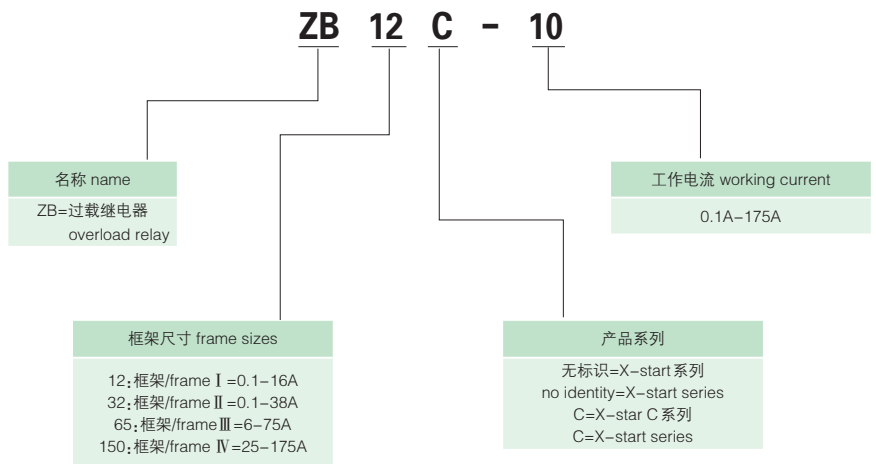
## ■ DILM 大容量接触器 DILM high-capacity contactor



### DILM 400 - S / 22 (110-120V50/60Hz)



## ■ ZB 过载继电器 ZB overload relay



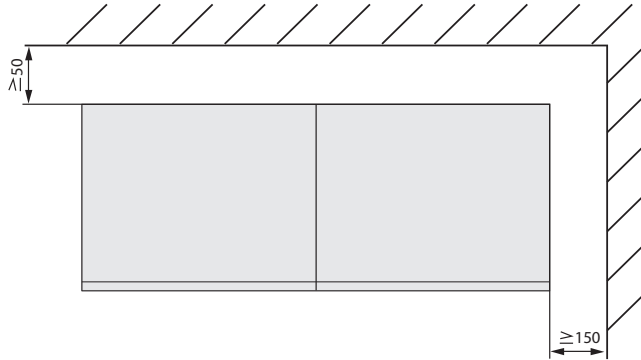




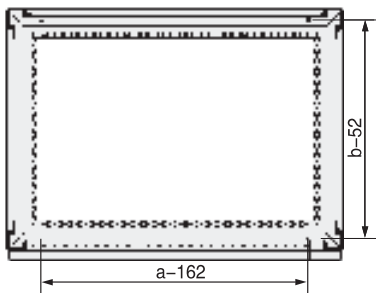
## xEnergy 开关柜安装尺寸

### Installation dimensions of xEnergy switchgear

#### ■ 安装平面图 (后侧 $\geq 50\text{mm}$ 、旁侧 $\geq 150\text{mm}$ ) installation plan (rear $\geq 50\text{mm}$ , side $\geq 150\text{mm}$ )



#### ■ 开关柜底座俯视图 vertical view of switchgear basement



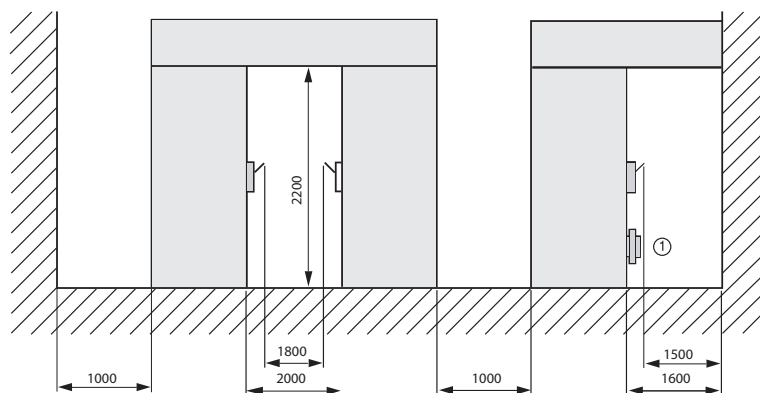
安装尺寸 Installation dimensions: 宽度 width/a-162  
深度 depth/b-52

安装孔 installing hole: 4- $\Phi 12$

宽度 width/a: 600, 650, 800, 1000, 1200, 1400

深度 depth/b: 600, 800, 1000, 1200

#### ■ 操作和维护空间 operation and maintenance space






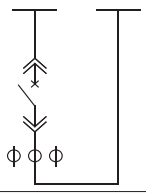
## 一次系列备选方案 Alternative solution of primary series

### ■ 单台进线/大框架馈电、母联 single incoming/ large frame feed, bus coupling

方案编号 No. of solutions	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K
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一次方案 primary solution												
用途 usage	进线/大框架馈电 incoming/ large frame feed											
额定电流 rated current (A)	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	
分断能力 breaking capacity	I <sub>Z</sub> M91(B/N/H)	42/50/65	42/50/65	42/50/65	42/50/65	42/50/65						
	I <sub>Z</sub> M97(B/N/H)			65/85/100	65/85/100	65/85/100	65/85/100	65/85/100	65/85/100	65/85/100		
	I <sub>Z</sub> M99(N/H)								85/100	85/100	85/100	
主要元件 main components	I <sub>Z</sub> M91-630	1										
	I <sub>Z</sub> M91/97-800		1									
	I <sub>Z</sub> M91/97-1000			1								
	I <sub>Z</sub> M91/97-1250				1							
	I <sub>Z</sub> M91/97-1600					1						
	I <sub>Z</sub> M97-2000						1					
	I <sub>Z</sub> M97-2500							1				
	I <sub>Z</sub> M97-3200								1			
	I <sub>Z</sub> M97/99-4000									1		
	I <sub>Z</sub> M99-5000										1	
I <sub>Z</sub> M99-6300											1	
小室高度模数 (1HU=25mm) compartment height module												
柜宽 mm width	3极 3-pole	600	600	600	600	600	800	800	1000	1000	1200	1200
	4极 4-pole	600	600	600	600	600	800	800	1000	1000	1400	1400

方案编号 No. of solutions	2A	2B	2C	2D	2E	2F	2G	2H	2I	2J	2K
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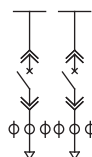
一次方案 primary solution												
用途 usage	母联 bus coupling											
额定电流 rated current (A)	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	
分断能力 breaking capacity	I <sub>Z</sub> M91(B/N/H)	42/50/65	42/50/65	42/50/65	42/50/65	42/50/65						
	I <sub>Z</sub> M97(B/N/H)			65/85/100	65/85/100	65/85/100	65/85/100	65/85/100	65/85/100	65/85/100		
	I <sub>Z</sub> M99(N/H)								85/100	85/100	85/100	
主要元件 main components	I <sub>Z</sub> M91-630	1										
	I <sub>Z</sub> M91/97-800		1									
	I <sub>Z</sub> M91/97-1000			1								
	I <sub>Z</sub> M91/97-1250				1							
	I <sub>Z</sub> M91/97-1600					1						
	I <sub>Z</sub> M97-2000						1					
	I <sub>Z</sub> M97-2500							1				
	I <sub>Z</sub> M97-3200								1			
	I <sub>Z</sub> M97/99-4000									1		
	I <sub>Z</sub> M99-5000										1	
I <sub>Z</sub> M99-6300											1	
小室高度模数 (1HU=25mm) compartment height module												
柜宽 mm width	3极 3-pole	800	800	800	800	800	1000	1000	1000	1200	1400	1400
	4极 4-pole	800	800	800	800	800	1000	1000	1000	1200	1400	1400

**一次系列方案 Primary series solution**

**双框架馈电、三框架馈电 double frame feed, tri-frame feed**

方案编号 No. of solutions	3A	3B	3C	3D	3E	3F	3G
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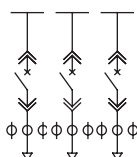
一次方案 primary solution



用途 usage	双框架馈线 double-frame feeder							
额定电流 rated current (A)	630	800	1000	1250	1600	2000	2500	
分断能力 breaking capacity	I ZM91(B/N/H)	42/50/65	42/50/65	42/50/65	42/50/65	42/50/65		
	I ZM97(B/N/H)			65/85/100	65/85/100	65/85/100	65/85/100	
	I ZM99(N/H)						65/85/100	
主要元件 main components	I ZM91-630	2						
	I ZM91/97-800		2					
	I ZM91/97-1000			2				
	I ZM91/97-1250				2			
	I ZM91/97-1600					2		
	I ZM97-2000						2	
	I ZM97-2500							2
	I ZM97-3200							
	I ZM97/99-4000							
I ZM99-5000								
I ZM99-6300								
小室高度模数 (1HU=25mm) compartment height module								
柜宽 mm width	3极 3-pole	800	800	800	800	1000	1000	
	4极 4-pole	800	800	800	800	1000	1000	

方案编号 No. of solutions	4A	4B	4C	4D	4E
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一次方案 primary solution



用途 usage	三框架馈线 tri-frame feeder				
额定电流 rated current (A)	630	800	1000	1250	1600
分断能力 breaking capacity	I ZM91(B/N/H)	42/50/65	42/50/65	42/50/65	42/50/65
	I ZM91-630	3			
	I ZM91-800		3		
主要元件 main components	I ZM91-1000		3		
	I ZM91-1250			3	
	I ZM91-1600				3
小室高度模数 (1HU=25mm) compartment height module					
柜宽 mm width	3极 3-pole	800	800	800	800
	4极 4-pole	800	800	800	800



## 一次系列推荐方案

## Recommended solution of primary series

### 电容柜、馈电-XF capacitor cabinet, feed-XF

方案编号 No. of solutions	5A	5B	5C	5D	5E	5F
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一次方案 primary solution



用途 usage	无功补偿 reactive compensation					
补偿容量 (kvar) compensation capacity	630	800	1000	1250	1600	1600
QSA-300/400/500/630/800	1	1	1	1	1	1
DILK25	6					
DILK50		4	5	6	7	8
Capacitor 25kvar	6					
Capacitor 50kvar		4	5	6	7	8
小室高度模数 (1HU=25mm) compartment height module						
柜宽 width /mm	800	800	800	1000	1000	1000

方案编号 No. of solutions	6A	6B	6C	6D	6E	6F	6G	6H	6I	6J	6K	6L	6M
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一次方案 primary solution



用途 usage	无功补偿 reactive compensation												
额定电流 rated current (A)	0.16-4	6.3-16	20-32	20-32	63-63	80	100	125	160	200	250	400	630
PKZMC	65	16	12										
分断能力 breaking capacity	L(N)ZM1	25/36/50/70/100 25/36/50/70/100 25/36/50/70/100 25/36/50/70/100 25/36/50/70/100 25/36/50/70/100											
L(N)ZM2											25/36/50/70/150 25/36/50/70/150		
L(N)ZM3													25/36/50/70/150 25/36/50/70/150
主要元件 main components	PKZMC	1	1	1									
L(N)ZM1				1									
L(N)ZM1-80						1							
L(N)ZM1-100							1						
L(N)ZM1-125								1					
L(N)ZM2-160									1				
L(N)ZM2-200										1			
L(N)ZM3-250											1		
L(N)ZM3-400												1	
L(N)ZM3-630													1
小室高度模数 (1HU=25mm) compartment height module	8	8	8	8	8	8	8	8	8	8	8	10	10
抽屉宽 (mm) 3极 3-pole	650	650	650	650	650	650	650	650	650	650	650	650	650
柜宽 mm 后出线 rear outgoing width	650	650	650	650	650	650	650	650	650	650	650	650	650
侧出线 side outgoing	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

xEnergy 型低压抽出式开关柜  
xEnergy Low-voltage withdrawable switchgear cubicle





## 一次系列备选方案

## Optional solution of primary series

### 电动机直接启动-XF、电动机正反转启动-XF

motor's direct start-XF, motor's normal-reverse rotation start-XF

方案编号 No. of solutions	7A	7B	7C	7D	7E	7F	7G	7H	7I	7J	7K	7L	7M	7N	7O	7P	7Q
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一次方案 primary solution



用途 usage	电动机直接启动 motor's direct start																	
电动机功率(kw) motor power	0.06-4	5.5-7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	
分断能力 breaking capacity	PKZMC	16/65	16	12	12	PKZM4			50/150	50/150	50/150							
主要元件 main components	L(N)ZM1								25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100						
	L(N)ZM2												25/36/50/70/150					
主要元件 main components	PKZMC	1	1	1	1													
	PKZM4					1	1	1										
	L(N)ZM1								1	1	1							
	L(N)ZM2												1					
DIL...	DILM9C	DILM17C	DILM25C	DILM32C	DILM40C	DILM50C	DILM65C	DILM80C	DILM95C	DILM115C	DILM150C	DILM170C	DILM225	DILM250	DILM300	DILM400	DILM500	
ZB...	ZB12C	ZB32C	ZB32C	ZB32C	ZB65C	ZB65C	ZB65C	ZB150C	ZB150C	ZB150C	ZB150C	ZB150C						
小室高度模数(1HU=25mm) compartment height module	8	8	8	8	8	8	8	8	8	8	8	10						
抽屉宽(mm) 3极 3-pole	650	650	650	650	650	650	650	650	650	650	650	650						
柜宽mm 后出线 rear outgoing	650	650	650	650	650	650	650	650	650	650	650	650						
width 侧出线 side outgoing	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						

方案编号 No. of solutions	8A	8B	8C	8D	8E	8F	8G	8H	8I	8J	8K	8L	8M	8N	8O	8P	8Q
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一次方案 primary solution



用途 usage	电动机正反转 motor's normal-reverse rotation																	
电动机功率(kw) motor power	0.06-4	5.5-7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	
分断能力 breaking capacity	PKZMC	16/65	16	12	12	PKZM4			50/150	50/150	50/150							
主要元件 main components	L(N)ZM1								25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100						
	L(N)ZM2												25/36/50/70/150					
主要元件 main components	PKZMC	1	1	1	1													
	PKZM4					1	1	1										
	L(N)ZM1								1	1	1	1						
	L(N)ZM2												1					
DIL...	DILM9C	DILM17C	DILM25C	DILM32C	DILM40C	DILM50C	DILM65C	DILM80C	DILM95C	DILM115C	DILM150C	DILM170C	DILM225	DILM250	DILM300	DILM400	DILM500	
ZB...	ZB12C	ZB32C	ZB32C	ZB32C	ZB65C	ZB65C	ZB65C	ZB150C	ZB150C	ZB150C	ZB150C	ZB150C						
小室高度模数(1HU=25mm) compartment height module	8	8	8	8	8	8	8	10	10	10	10	12						
抽屉宽(mm) 3极 3-pole	650	650	650	650	650	650	650	650	650	650	650	650						
柜宽mm 后出线 rear outgoing	650	650	650	650	650	650	650	650	650	650	650	650						
width 侧出线 side outgoing	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000						



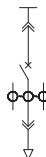
## 一次系列推荐方案

## Recommended solution of primary series

### 馈电 FE-XW、电动机直接起动 DOL-XW feed FE-XW, motor's direct start DOL-XW

方案编号 No. of solutions	9A	9B	9C	9D	9E	9F	9G	9H	9I	9J	9K	9L	9M
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一次方案 primary solution



用途 usage		馈电 feed											
额定电流 rated current (A)		0.16-4	6.3-16	20-32	32-63	80	100	125	160	200	250	400	630
分断能力 breaking capacity	PKZMC	65	16	12									
	L(N)ZM1				25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100				
	L(N)ZM2									25/36/50/70/100	25/36/50/70/150		
	L(N)ZM3											25/36/50/70/150	25/36/50/70/150
主要元件 main components	PKZMC	1	1	1									
	L(N)ZM1				1								
	L(N)ZM1-80						1						
	L(N)ZM1-100							1					
	L(N)ZM1-125								1				
	L(N)ZM2-160									1			
	L(N)ZM2-200										1		
	L(N)ZM3-250											1	
L(N)ZM3-400												1	
L(N)ZM3-630													1
小室高度模数 (1HU=25mm) compartment height module		8	8	8	8								
抽屉宽 (mm)	3极 3-pole	150	150	150	300	8	8	8	8	8	8	16	16
柜宽 mm width	后出线	650	650	650	650	600	600	600	600	600	600	600	600
	侧出线	1000	1000	1000	1000	650	650	650	650	650	650	650	650
						1000	1000	1000	1000	1000	1000	1000	1000

方案编号 No. of solutions	10A	10B	10C	10D	10E	10F	10G	10H	10I	10J	10K	10L	10M	10N	10O	10P	10Q
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一次方案 primary solution



用途 usage		电动机直接起动 motor's direct start																
电动机功率 (kw) motor power		0.06-4	5.5-7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250
分断能力 breaking capacity	PKZMC	16/65	16	12	12													
	PKZM4					50/150	50/150	50/150										
	L(N)ZM1								25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100						
	L(N)ZM2												25/36/50/70/150					
主要元件 main components	PKZMC	1	1	1	1													
	PKZM4					1	1	1										
	L(N)ZM1								1	1	1	1						
	L(N)ZM2												1					
小室高度模数 (1HU=25mm) compartment height module	DIL...	DILM9C	DILM17C	DILM25C	DILM32C	DILM40C	DILM50C	DILM63C	DILM80C	DILM95C	DILM115C	DILM150C	DILM170C	DILM225	DILM250	DILM300	DILM400	DILM600
	ZB...	ZB12C	ZB32C	ZB32C	ZB32C	ZB63C	ZB63C	ZB63C	ZB150C	ZB150C	ZB150C	ZB150C	ZB150C					
抽屉宽 (mm)	3极 3-pole	150	150	150	150	300	300	300	600	600	600	600	600					
柜宽 mm width	后出线 rear outgoing	650	650	650	650	650	650	650	650	650	650	650	650					
	侧出线 side outgoing	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000					



## 一次系列备选方案 Optional solution of primary series

### 电机正反转控制 FR-XW motor's normal-reverse rotation

方案编号 No. of solutions	11A	11B	11C	11D	11E	11F	11G	11H	11I	11J	11K	11L	11M	11N	11O	11P	11Q
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一次方案 primary solution



用途 usage	电动机正反转 motor's normal-reverse rotation																
额定电流 rated current (A)	0.06-4	5.5-7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250
分断能力 breaking capacity	PKZMC	16/65	16	12	12												
	PKZM4				50/150	50/150	50/150										
	L(N)ZM1							25/36/50/70/100	25/36/50/70/100	25/36/50/70/100	25/36/50/70/100						
	L(N)ZM2																25/36/50/70/150
主要元件 main components	PKZMC	1	1	1	1												
	PKZM4					1	1	1									
	L(N)ZM1							1	1	1	1						
	L(N)ZM2												1				
DIL...	DILM6C	DILM17C	DILM25C	DILM32C	DILM40C	DILM50C	DILM65C	DILM80C	DILM95C	DILM115C	DILM150C	DILM170C	DILM225	DILM250	DILM300	DILM400	DILM500
ZB...	ZB12C	ZB32C	ZB33C	ZB32C	ZB65C	ZB65C	ZB65C	ZB150C	ZB150C	ZB150C	ZB150C	ZB150C					
小室高度模数(1HU=25mm) compartment height module	8	8	8	8	8	8	8	8	8	8	8	8					
抽屉宽(mm) 3极 3-pole	300	300	300	300	300	300	300	600	600	600	600	600					
柜宽mm 后出线rear outgoing	650	650	650	650	650	650	650	650	650	650	650	650					
width 侧出线side outgoing	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000					



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