

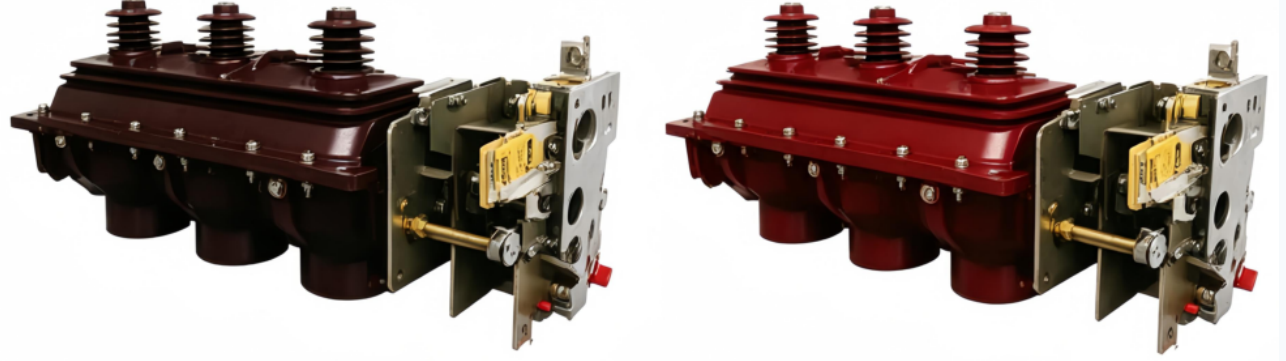
Zturnbuilder

POWER DISTRIBUTION
EQUIPMENT CATALOG

High- and Low-Voltage
Switchgear & Distribution
Solutions

English Edition

zturnbuilder.com



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01 SF6 Ring Main Switchgear

XGN15-12/24



GENERAL DESCRIPTION

XGN15-12/24 SF6 ring main switchgear is a new-generation metal-enclosed switchgear centered on an SF6 load switch. It can be equipped with circuit breakers, disconnectors, current transformers, voltage transformers and surge arresters. The cabinet uses air insulation and is designed for distribution automation, with a compact and expandable structure, simple operation and reliable interlocking.

APPLICATION / FEATURES

Designed for 50 Hz, 12 kV/24 kV ring-network systems. Typical applications include residential distribution, secondary substations, switching stations, industrial facilities, shopping centers, airports, metro systems, tunnels and wind-power projects.

OPERATING CONDITIONS

02 Gas-Insulated Common-Tank Metal-Enclosed RMU

HL15-12/24

气体绝缘共箱式金属封闭环网开关柜



GENERAL DESCRIPTION

HL15-12/24 gas-insulated common-tank metal-enclosed ring main switchgear is a compact modular switchgear platform. Each module can be expanded to the left or right and combined in different arrangements to meet project configurations. The series features a compact structure, fully enclosed and fully insulated primary circuit, long service life, low maintenance requirements, small footprint and reliable operation with limited influence from the surrounding environment.

APPLICATION / FEATURES

Suitable for industrial and civil cable ring networks and end-of-line distribution. Typical applications include secondary distribution stations, switching stations, industrial plants, airports, railways, residential communities, high-rise buildings, expressways, metro systems and tunnels.

03 Solid-Insulated Ring Main Unit



GENERAL DESCRIPTION

The primary live parts, including the busbar and moving components of the high-voltage switch, are sealed in an epoxy-resin cast enclosure. DIN 47636 compliant bushings allow connection to incoming and outgoing cables through fully insulated, fully screened separable connectors. The main circuit reaches IP67 protection and provides condensation resistance and short-term flood resistance.

APPLICATION / FEATURES

Standard modules can be connected through dedicated busbar connectors to form flexible unit combinations for varied distribution schemes. Advanced manufacturing technology supports localized production, shorter delivery cycles and lower manufacturing cost.

OPERATING CONDITIONS

04 Indoor Metal-Clad Withdrawable Switchgear

KYN28-12/24



GENERAL DESCRIPTION

KYN28-12/24 indoor metal-clad withdrawable switchgear is designed for three-phase 50 Hz single-bus or sectionalized double-bus systems. It receives and distributes electrical energy and provides circuit control, protection and monitoring. The interlocking system provides five-prevention functions against common operating errors.

APPLICATION / FEATURES

The switchgear can be fitted with imported vacuum circuit breakers or domestic VS1 vacuum circuit breakers. An integrated protection and control device can also be installed for computerized protection and monitoring in power plants, substations, industrial facilities and high-rise buildings.

OPERATING CONDITIONS

05 Low-Voltage AC Withdrawable Switchgear

MNS/GCK



GENERAL DESCRIPTION

MNS/GCK low-voltage withdrawable switchgear is a complete low-voltage distribution assembly widely used in power plants, substations, industrial facilities and high-rise buildings as a power distribution center and motor control center. It is suitable for 50 Hz systems with rated operating voltage up to 660 V and rated current up to 4000 A.

APPLICATION / FEATURES

The cabinet uses an assembled modular structure. Busbar, apparatus and cable compartments are separated. Motor-control sections use drawer units with connected, test and disconnected positions plus mechanical interlocking. The design provides a high protection level, reliable operation and convenient maintenance.

06 Low-Voltage Distribution Cabinet

GGD



GENERAL DESCRIPTION

GGD low-voltage fixed switchgear is used in 50 Hz distribution systems for power plants, substations and industrial facilities, with a rated operating voltage of 380 V and rated current up to 3150 A. It is used for conversion, distribution and control of electrical energy for power, lighting and distribution equipment.

APPLICATION / FEATURES

The design emphasizes safety, economy, rational configuration and reliability. Key features include high breaking capacity, good dynamic and thermal stability, flexible electrical schemes, convenient combinations, strong practical applicability, a modern structure and a high degree of protection.

07 Low-Voltage Reactive Power Compensation Device

GGJ



GENERAL DESCRIPTION

The GGJ low-voltage reactive power compensation device is designed for automatic reactive power compensation in 50 Hz, 0.4 kV urban distribution networks. It combines reactive power compensation with power-grid monitoring, improving power factor, reducing line losses and increasing distribution capacity and power quality.

APPLICATION / FEATURES

The device can monitor three-phase voltage, current, power factor and other operating data in real time, and supports monitoring, analysis, data processing and report output for scientific management of low-voltage distribution lines.

08 Prefabricated Box-Type Substation

XBW-12/24



GENERAL DESCRIPTION

The XBW-12/24 prefabricated box-type substation contains three main compartments: a high-voltage room, transformer room and low-voltage room. It integrates high-voltage switchgear, transformer, low-voltage switchgear and auxiliary electrical components in an outdoor enclosure.

APPLICATION / FEATURES

The substation can independently perform voltage transformation, electrical protection, control and distribution. Flexible configurations suit distribution-network nodes and terminal applications, with a compact footprint, reliable safety performance and relatively low project cost.

09 Integrated Primary/Secondary Ring Main Unit



GENERAL DESCRIPTION

This integrated ring main unit combines high-voltage switching equipment with intelligent control units responsible for monitoring and protection in a single enclosure. Standardized interfaces and modular design reduce external cable connections and significantly reduce overall footprint.

APPLICATION / FEATURES

The system can monitor operating status in real time, provide early warning of potential defects, automatically locate and isolate faults, and transmit operating data to a background platform for viewing on a computer or mobile device.

10 Outdoor High-Voltage Cable Branch Box

DFW-12/24 | HDFW-24/40.5



GENERAL DESCRIPTION

The non-switching high-voltage cable branch box uses a fully sealed and fully insulated structure. High-voltage live parts use prefabricated silicone-rubber or EPDM cable connectors to improve personnel safety. With fault indicators installed, circuit faults can be located quickly. The enclosure is compact, easy to install and operate, and designed for maintenance-free service.

APPLICATION / FEATURES

The enclosure uses 2 mm stainless steel with anti-corrosion design and special coating. The product is intended for cable tapping and branching rather than switching. A fully insulated, fully sealed design with touch-safe cable connectors supports zero-clearance installation. Protection level: IP33D.

11 Low-Voltage Cable Branch Box

DFW



GENERAL DESCRIPTION

The DFW low-voltage cable branch box is used in outdoor 50 Hz, 0.4 kV distribution networks for cable incoming and outgoing connections. It is widely used in industrial parks, residential communities, commercial centers, mines, airports, railways, ports and power stations, and is especially suitable for urban distribution-network renovation projects.

OPERATING CONDITIONS

- Altitude: ≤ 1000 m
- Ambient temperature: -25 C to $+40$ C
- Relative humidity: daily average $\leq 95\%$; monthly average $\leq 90\%$
- Seismic capability: Grade 8
- Install where there is no severe vibration/impact and no fire, chemical corrosion or explosion hazard.

12 Environmentally Friendly Gas-Insulated RMU



GENERAL DESCRIPTION

This ring main unit uses an environmentally friendly gas - such as dry air, nitrogen or another eco-friendly gas mixture - as the internal insulation medium instead of traditional SF6. A modern vacuum interrupter is used as the switching element.

APPLICATION / FEATURES

The product is designed for secondary distribution networks at 12 kV and for power-supply systems in residential communities, commercial buildings, light industrial facilities and infrastructure projects. Its main advantages are very low greenhouse impact and low maintenance requirements.

13 Electric Meter Box



GENERAL DESCRIPTION

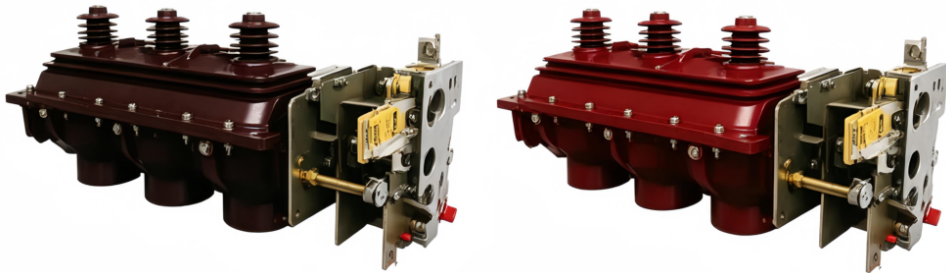
The electric meter box is an enclosure used to install and protect electricity metering devices. Its core functions are convenient meter reading and safe power use. It is widely used in residential, commercial and industrial distribution networks.

APPLICATION / FEATURES

In addition to protecting meters from environmental influences, the enclosure can support anti-tampering and intelligent monitoring functions, making it an important terminal device in modern electricity metering systems.

14 SF6 Load Switch

FL(R)N36-12/24(D)



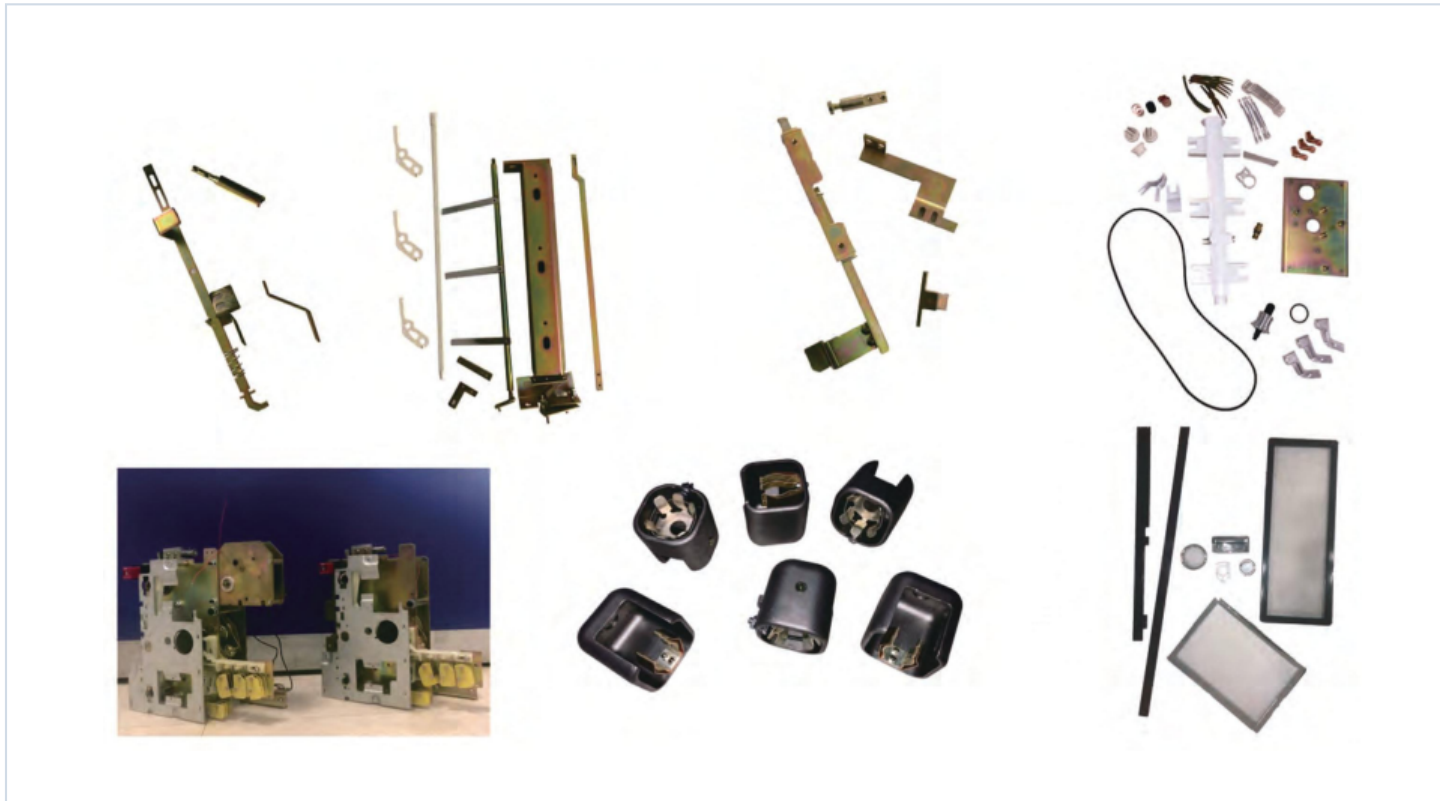
GENERAL DESCRIPTION

The FL(R)N36-12/24(D) SF6 load switch is used in three-phase 50 Hz, 12 kV/24 kV ring-network or dual-radial power systems. It is used to make and break load current and overload current, and can also switch unloaded long lines, unloaded transformers and capacitor banks.

APPLICATION / FEATURES

A load switch combined in series with a current-limiting fuse can perform a protection function similar to a circuit breaker: the load switch makes and breaks normal load current, while the fuse interrupts high overload and short-circuit current. FLN36-12/24D and FLRN36-12/24D combinations are especially suitable for RMUs, cable branch boxes and distribution substations.

15 High-Voltage Cabinet Accessories



Typical loose parts include:

- Operating mechanisms
- Interlocking components
- Busbar and conductive parts
- Insulators and connectors
- Door and panel hardware
- Meters, switches and auxiliary devices
- Cable and installation accessories

16 Application Scenarios



Wind Energy



Solar Power



EV Infrastructure



Data Centers



Heavy Industry



Rail Transit



Commercial Complexes

NEW ENERGY

Wind, solar, energy-storage and charging-infrastructure projects.