PROFESSIONAL MANUFACTURER OF HIGH AND LOW VOLTAGE PRODUCTS



Medium Voltage Switchgear XGN15-12~24 Air-insulated RMU(Fixed Type)

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Rating:

Rated voltage 12/24KV, rated current reach to 630A.

Application:

mainly applicable in urban power grid features and renovation project, industrial and mining enterprises, high-rise buildings and communal facilities .For power distribution, controlling and protection on electric equipment as the loop power supply unit or terminal equipment. It also can be installed in pre-loaded substation

Feature:

Use SF6 load switch and load switch-fuse combination as main switch. Equipped with vacuum load switch and spring operating mechanism which can be operated by hand or electric. Grounding switch and insulating switch are equipped with hand operating mechanism, with small volume and high security.

Standard: IEC60420





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Rataed voltage	equipme
Design NO.	
Indoor	
Fixed type	
Packaged type	

Operating conditions

- 1. Ambient air temperature: -15°C~+40°C.Daily average temperature:≤35°C.
- 2. Altitude: ≤1000m.
- 3. Relative humidity : Daily average \leq 95%, daily average of vapour pressure \leq 2.2kpa Monthly average \leq 90%, monthly average of vapour pressure≤1.8kpa.
- 4. Earthquake intensity: ≤magnitude 8.
- 5. Applicable in the places without corrosive and flammable gas. Note: Customized products are available.

Features

- 1. Modular design, where each unit module can be combined and expanded arbitrarily, facilitating flexible system configurations and wide adaptability.
- 2. The cabinet adopts armored structure with metal partitions between compartments.
- 3. The operating mechanism adopts corrosion-resistant metals, and the rotating parts are designed with self-lubricating bearings, ensuring unaffected performance in various environments and eliminating the need for regular maintenance.
- 4. To accommodate power grid automation and improve distribution reliability, it can be equipped with motorized mechanisms, distribution network control terminal units, and possesses telecontrol functions.
- 5. The compact design of the cabinet incorporates a three-position rotary load switch, effectively reducing the number of components and enabling mechanical interlocking for five protection measures.
- easy, accurate, and safe operation.

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6. The primary circuit simulation single-line diagram and analog display can demonstrate the internal status of the switch, enabling

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Technical data

Rated voltage		Unit 12KV				24KV	
ltem		/	Load switch cabinet	Combined electrical cabinet	Circuit breaker cabinet	20KVSF6 Ring switch equipment	
Rated frequency		ΗZ	50/60	50/60	50/60	50/60	
Rated current		А	/				
Main busbar		А	630	630	630	630	
Branch busbar		А	630	125 ¹	630	630/≤100©	
Rated insulation level		KV					
Power frequency withstand voltage	Phase-to-phase and phase-to-ground	KV	42	42	42	65	
	Gap between breaks	KV	48	48	48	/	
	Break control and auxiliary circuit	KV	2	2	2	/	
Lightning impulse withstand voltage	Phase-to-phase and phase-to-ground	KV	75	75	75	85	
	Gap between breaks	KV	85	85	85	/	
Rated short-time withstand current		KA					
Main circuit		KA	20/3s	-	25/2s	/	
Grounding circuit		KA	20/25	-	25/2s	/	
Rated peak withstand current		KA	50	-	63	/	
Rated short-circuit making current		KA	50	80	63	50	
Rated short-circuit breaking current		KA	-	31.5	25	31.5	
Rated transfer current		А	-	1750	-	870	
Rated active load breaking current		А	630	-	-	630	
Rated closed loop breaking current		А	630	-	630	/	
Rated cable charging breaking cable		А	10	-	15	25	
Protection degree		/	IP3X	IP3X	IP3X	/	
Mechanical life	Load switch	times	5000	5000	10000	3000	
	Grounding switch	times	2000	2000	2000	2000	

Notes : ① up to the fuse rated current

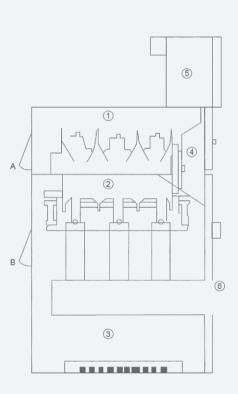
(2) ≤100(Load switch - Fuse combination cabinet)

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Structure

- Busbar room
- 1. The busbar room is arranged at the upper part of the cabinet. In the busbar room, the main busbar is connected together and runs through
- 2. the entire row of switchgear
- Load switch
- 1. There is a three position load switch installed in the switch room. The shell of the load switch is made of epoxy resin cast columns, and filled with sulfur hexafluoride (SF6) gas as the insulation medium. SF6 gas density meters or gas density meters with alarm contacts can be installed in the switch room according to customer requirements
- Cable room
- 1. The load switch has a spacious cable room, mainly used for cable connections
- 2, with sufficient space also to install lightning arresters, current transformers, lower grounding switches and other components
- Operating mechanism, interlock mechanism and low voltage control room
- 3. The low-voltage room with interlocking functions as a control panel also
- 4. Spring operating mechanism and mechanical interlocking device with position indicator installed in low-voltage room
- 5. The low-voltage room can also be equipped with auxiliary contacts, trip coils, emergency trip mechanisms, capacitive live displays, keylocks, and electric 6. operating devices
- 7. The low-voltage room space can also be used to install control circuits, metering instruments and protective relay
- 8. The 750mm wide cabinet has two identical low-voltage chambers, which can hold more accessories.

The whole XGN15 switchgear can be divided into upper and lower parts. The upper part of the cabinet includes busbar room, load switch, operating mechanism and low-voltage room, which is separated from the lower part of the cable room. Therefore, it is safer and easier to repair and modify the equipment installed in the upper unit, and to replace the whole upper unit.

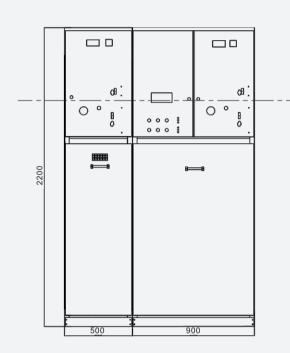


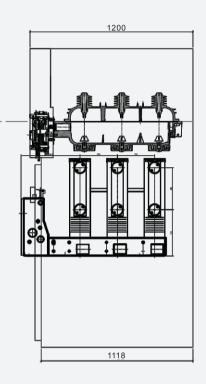
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Phase plan

Phase plan number	DC01	DC08	DC01	DC07	DC04
main bus-bar TMY XGN15-12/24 Disposable system diagram	Ê.			ÊÎ +⊗Ĵ	
Configuration	Incoming cabinet	✓ Outgoing cabinet	Outgoing cabinet	Configuration	Measuring cabinet
Load switch FLN□-□D	1	1	1	1	1
Load switch FLRN□-□D	/	1	/	/	2
Charged displayDXN-T/Q	1	/	1	1	3
Current Transformer LZZBJ9-	/	/	/	/	2
Voltage transformer JDZ-□	/	3	/	/	/
Lightning arrester HY5WS	3	/	3	3	2
Fuse XRNT-□/□A	/	3	/	/	/
Meter	/	/	/	/	/
Protection method	/	/	/	/	/
Auxiliary functions	/	/	/	/	/
Operation mode	Manual operation	Manual operation	Manual operation	Manual operation	/

XGN15-24 Overall and mounting dimensions(mm)



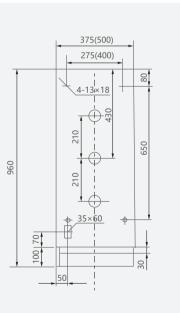


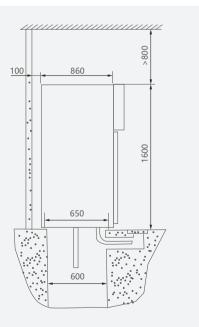
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XGN15-12 Overall and mounting dimensions(mm) Schematic diagram of foundation Switchgear diagrammatic sketch Picture 1 Picture 2 4-φ12 Preweld M10 nut at hole of u-steel back 444 A ₽... **_** 5 U-stee Ş=======;======;====;}-14. 1600(1800) (1) 500 500 950 950 Ring main unit(load switchgear) Ring main unit(combination switchgear) 4 275(400) 1. Bus compartment 4 4 2. Meters compartment Front of cabinet 3. Cable compartment

Switchgear installation Overall and mounting dimensions(mm)

Cable incoming and outgoing configuration





Ordering information

- 1. Main circuit diagram, busbar diagram for main circuit, allocation diagram.
- 2. Switchgear outline size.
- 3. spare parts and their quantity.
- 4. Customized products are available per your requirements.