Our goal is the sea of stars!

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Giantele®

XGN15-12

Fixed metal enclosed ring switchgear



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XGN15-12

Fixed metal enclosed ring switchgear



Product introduction

XGN15-12 box type fixed metal closed ring network switchgear, is a new generation of SF6 load switch as a switch and the whole cabinet adopts air insulation, suitable for distribution automation, both compact and extensible metal closed switchgear, with high-grade, miniaturization, full parameters, low price, less maintenance and other characteristics.

The product has a "one part one ground" three-station arc extinguishing chamber, with a "five prevention" function (to prevent the main switch with load switching; Prevent stray live intervals; Prevent misopening and closing the main switch; Prevent live grounding wire: Prevent the grounding switch in the grounding position), reliable interlock, high fracture insulation strength, large climb distance design, the outlet end with pressure protection, special dynamic seal and fixed seal design, coupled with advanced technical performance and light and flexible assembly scheme, can fully meet the changing requirements of the market, is a new generation of high-voltage switchgear equipped with urban power grid. It can also be equipped with ABB's original SFG type SF6 load switch or Schneider's original SM6 load switch according to user needs. Or install imported vacuum circuit breaker VD4 switch.

This product is suitable for three-phase AC 10KV, 50Hz power system, as industrial and mining enterprises, high-rise buildings, residential areas, pre-installed substation and other places, used to break, close the load current, fault current, control and protection of lines and distribution transformers.

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Model meaning

X	G	N	15	–	12	–	II	–	III
Box construction	stationary	Indoor type	Design sequence number		Voltage level (KV)		FLN36 Load switch		FLN48 Load switch

Load switch arc-extinguishing principle

Sf6 gas has good arc extinguishing performance. In order to extinguish the arc quickly, in the process of breaking the current, the switch generates an arc when the static and static contacts are just separated. At this time, due to the magnetic field action of the permanent magnet, the arc is driven to move rapidly, so that the arc is elongated and constantly combined with SF6 gas to be rapidly dissociated and cooled, and is extinguished when the current passes zero. The double break opening has the insulation level that separates the break. Permanent magnet rotating arc principle, small operation work, strong extinguishing ability, light contact burn, prolonging electrical life.

Environmental conditions of use

- Altitude: no more than 1000M; (If there are special requirements can be indicated when ordering)
- Ambient temperature: -15℃+40℃;
- Relative humidity: the daily average relative humidity is not more than 95%, the monthly average relative humidity is not more than 90%;
- Seismic strength: not more than 8 degrees;
- There is no serious pollution in the surrounding air, such as dust, smoke, chemical etchant, flammable gas, gasoline and salt.

Product characteristics

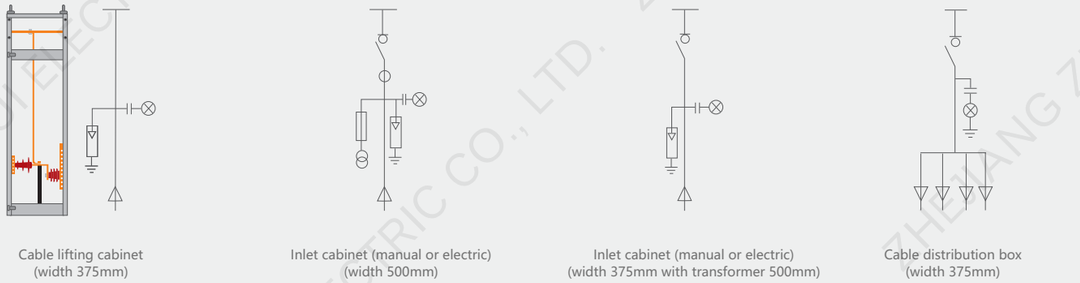
GT-FLN(36.48)-12D SF6 three-station load switch is a multi-functional medium-voltage switchgear that integrates gate, opening and grounding. It is filled with 0.05MPa SF6 gas in a fully sealed epoxy resin shell with reinforced structure, and realizes the above three functions with the least number of components, thus ensuring product quality and improving reliability. The equipment is maintenance-free and can operate safely for more than 20 years under normal conditions. The main circuit is closed and opened by a manual or electric operating mechanism independent of the switch. The closing speed of the switch is determined by the spring and has nothing to do with the manual speed. After the installation of electric mechanism and microcomputer measurement and control device, telemetry, remote communication and remote control can be realized, which provides necessary conditions for the automation of power grid.

- More than 5 years experience in safe operation in China.
- Excellent technical performance, long electrical life, maintenance-free.
- The assembly gate, opening gate and ground switch are located in one body and are packaged in epoxy filled with SF6 gas.
- Resin shell, three positions interlock, compact structure, high safety and reliability.
- Small size, light weight, easy maintenance, easy to operate and safe.

Main technical parameters

NO.	Item	Unit	Technical parameter
1	Rated voltage	kV	12
2	Rated current	A	630 125
3	Rated Short-Circuit Making Current (Peak)	kA	50
4	Rated Short-Circuit Breaking Current (Switchgear)	kA	31.5
5	Rated active load breaking current	A	630
6	3S heat stable current	kA	630
7	Rated dynamic stable current (peak)	kA	50
8	Imin power frequency withstand voltage	kV	42(Fracture, 48)
9	Lightning impulse withstand voltage	kV	75(Fracture, 85)
10	Mechanical life	Time	5000
11	Rated transfer current	A	1700
12	Mode of operation		Manual or electric
13	Class of protection		IP2X

Single-circuit scheme

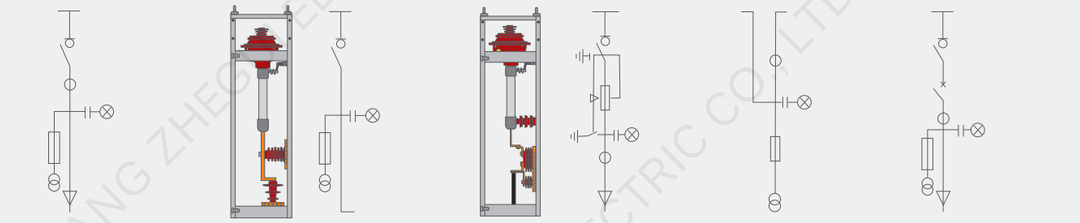


Cable lifting cabinet (width 375mm)

Inlet cabinet (manual or electric) (width 500mm)

Inlet cabinet (manual or electric) (width 375mm with transformer 500mm)

Cable distribution box (width 375mm)



Inlet/outlet cabinet (width 500mm)

Contact cabinet (manual or electric) (width 500mm)

Outlet cabinet (manual or electric) (width 375mm with E sensor 500mm)

Measuring cabinet (width 750mm)

Inlet/outlet cabinet (circuit breaker width 800mm)

○ Outline mounting dimension

