



XGN15-12(SF6) Air Insulated Ring Main Unit(RMU)

Model:XGN15-12

XGN15-12(SF6) Unit AC Metal-enclosed Ring Network Switchgear (hereinafter called ring network switchgear) adopts foreign advanced technology and accords to the demands of the domestic rural and urban network reconstruction.

Product Introduction

Product Summary

The RMU is generally divided into air insulated and SF6 insulated types. XGN15- 12 indoor fixed type SF6 RMU uses SF6 switches its main switch, and air insulation is used for the entire cabinet. It is suitable for 10kV distribution systems in factories, enterprises, residential districts, high-rise buildings, mines and ports. And it can be combined into ring network system used for power supply and distribution of three-phase AC ring network, biradial power supply unit or line terminal, receiving, distributing and controlling electric power, and protecting the safety operation of electrical equipment.

Environmental Conditions

Ambient Temperature: No more than +40℃ and no less than – 15℃ Average temperature is no more than +35℃ within 24 hours.

Altitude: No more than 1000m.

Relative Humidity: the average daily value is no more than 95%, the average monthly value is no more than 90%.

Earthquake Intensity: No more than 8 degrees.

Vapor pressure: average daily value is no more than 2.2kPa, average monthly value is no more than 1.8kPa.

Installation locations without fire, explosion danger, serious pollution, chemical corrosion and violent vibration.

Product Features

Modular design. Each unit module can be combined and extended arbitrarily, which is an easy to scheme combination, with a wide applicable range.

The armored structure is used for the cabinet. And each compartment is separated from the other one by metal partition board.

The corrosion resistant metal is used for the operating mechanism, and bearings of rotating parts are all self-lubricating bearings. The product will not be affected by the environment, thus exempting from regular maintenance.

In order to adapt to the power grid automation and improve the reliability of power distribution, the electric drive mechanism, control terminal unit of power distribution network and other equipment can be added. Thus, it possesses telemetering, remote signaling and remote-control systems.

The cabinet is compact design, using three- positions rotary load switch, which effectively reduces the number of components and parts, and realizes the five-preventions interlocking.

The simulated single line diagram of primary circuit and analog display can display the internal conditions of the switch, so that the operation can be simple, correct and safe.

Technical Data

No.	Content		Unit	Value
1	Rated Voltage		kV	12
2	Rated Frequency		A	50/60
3	Rated Current		Hz	630
4	Max. Rate Current of Fuse			125
5	Rated Short-circuit Breaking Current		kA	31.5 (Fuse Group)
6	Rated Peak Withstand Current		kA	50
7	Rated Short-time Withstand Current		kA	20
8	Rated Short Circuit Making Current		kA	50
9	Grounding Loop	Rated Short-time Withstand Current (2s)	kA	20
		Rated Peak Withstand Current	kA	50
10	Power Frequency Withstand Voltage in 1 min	Phase, Earthed	kV	42
		isolating Fracture	kV	48
11	Lightning impulse Withstand Voltage (Peak)	Phase, Earthed	kV	75
		isolating Fracture	kV	85
12	Rated Active Load Breaking Current		A	630
13	Rated Closed Loop Breaking Current		A	630
14	Rated Cable-charging Breaking Current		A	10
15	Rated Transfer Current		A	1750
16	SF6 Gas Pressure (Relative Pressure at 20°C)		Mpa	0.045
17	Internal Arc Duration Test (0.5s)		kA	31.5
18	Mechanical Life	Load Switch	Times	5000
		Earth Switch	Times	2000
19	Degree of Protection		IP	IP4X
20	Operation		-	Manual/Electric

Schematic diagram of structure

