

SF6 Ring Main Unit Switchgear Type HXGT6(XGN58)-12

General:

HXGT6 (XCN58)-12 SF6 Ring Main Unit Switchgear (hereafter referred to as Switchgear) is designed and manufactured by ourselves according to the requirement of the power supply in our country.

As a new generation of Indoor 10kV electric appliances, by pattern test and commissioning, whose performance index is up to IEC298 [AC Metal-clad Switchgear] standard and relevant national standard. It is light in weight, easily operated, safe in usage, high reliability, independent of environment and free from maintenance etc.

The switchgear is a combined electric appliance that sealing each main circuit switch into a metal enclosure, use SF6 gas as arc extinguishing and insulation media, suitable for ring main power supply and double radiation power supply in 10kV middle voltage power supply network, use as terminal power supply as well.

The product is suitable for power distribution and control in mines, residential district, schools, parks etc, due to enhancing the reliability of power supply by ring main power supply.

In addition, with the character of easily wiring, small size, convenient installation, it is suitable for being installed in the Combination Substation as primary side HV equipment.

Product Features:

a. Ring main unit is composed of three compartments. The load switch is laid in the sealed cubicle welded by stainless steel plate. There is SF6 gas of 0.04Mpa as the medium of extinction and insulation.

b. There are three positions, namely closing, isolating, earthing separately, whose positions are determined by the indicator on the mechanism panel.

c. The cable incoming/outgoing line uses cable connector (plug ins).

d. There is a separate operation mechanism in each compartment, where you can realize manual operation and manual and motor operation. There is closing/opening indication on the operation panel.

e. The fuse is installed in the epoxy resin tube in the middle of the cubicle. Due to the needle type mechanism of fuse and the opening device of operation mechanism in load switch are connected together, once the fuse is blew out with fault, the tripping mechanism will make the load switch opening.

f. The load switch applies revolving extinction arc principle, which will make contact long life endurance.

g. There is manometer in the front of the switchgear to monitor the pressure of the SF6 gas.



h. In order to prevent the inner of equipment from hyperbaric with circuit fault, there is a pressure release device at the bottom of the switchgear.

Technical parameter :

Basic technical parameter of switchgear :

No	Item	Unit	Parameter
1	Rated voltage	kV	12
2	Rated frequency	Hz	50
3	Load switch rated current	A	630
4	Main circuit short-time withstand current(r.m.s)3s	kA	20
5	Main circuit peak withstand current (peak value)	kA	50
6	Main circuit rated making current(peak value)	kA	50
7	Rated active load breaking current	A	630
8	Rated breaking current of closed loop	A	630
9	5% rated active load breaking current	A	31.5
10	Rated cable charging breaking current	A	10
11	Rated transformer no load breaking current	A	No load current of 1600kVA transformer
12	Rated breaking current of fuse	kA	31.5
13	Rated transfer current	A	1500
14	Full capacity breaking times	times	100
15	Mechanical endurance	times	10000
16	1min power frequency withstand voltage, phase to phase , phase to earth/ isolating distance	kV	42/48
17	Lightning impulse withstand voltage, phase to earth, phase to phase/isolating distance	kV	75/85
18	SF6 gas rated voltage(20;æ,gage pressure)	Mpa	0.04
19	SF6 yearly leakage rate		<=1,¥
20	Operation power,voltage of motor	V	DC 48, AC 220, 110
21	Closing motor current	A	0.5
22	Opening current	A	2.5

Technical parameter of HV Fuse :

No.	Rated voltage	Rated current of fuse	Rated current of fuse	Rated breaking current
XRNT	12	40	6.3 10 16 20 25 31.5 40	31.5
		100	50 63 71 80 100	31.5
		125	125	31.5

Ordering notice :

Please provide the following data :

- Name, specification, type, quantity, delivery date of product, rated voltage of fuse ;
- Pareto diagrams and layout plan of RMU ;
- Spare parts needed, such as charging/discharging device ;
- cubicle colour;
- Any special request can be settled by negotiation.