

XGN118-12 AC Metal-clad Air Ring Main Unit

Summary

XGN118-12 AC Metal-clad Air Ring Main Unit is our company engaged in the distribution network of field service design and construction according to the experience of the development trend of power industry and based on the summary for many years, to provide high-quality, environmentally friendly products for distribution network in our country, the independent development of environmentally friendly products based on the digestion and absorption of advanced technology at home and abroad. Apply to three-phase AC 50Hz, distribution system with rated current 12kV. The utility model is especially suitable for the acceptance and distribution of electrical energy in the power systems of small two power distribution stations, switches and gates, industrial and mining enterprises, urban residential areas, airports, railways, tunnels and high-rise buildings. It conforms to GB1984-2003 《HV AC Circuit Breaker》, GB1985-2004 《HV AC Disconnecter and Earthing switch》, GB 3906-2006 《3.6kV-40.5kV AC Metal-clad enclosed Switchgear and Controlgear》, GB 4208-2008《Enclosure Protection Grade (IP code)》, GB/T 11022-2011 《Standard Common Specification of Switchgear and Controlgear》, etc..

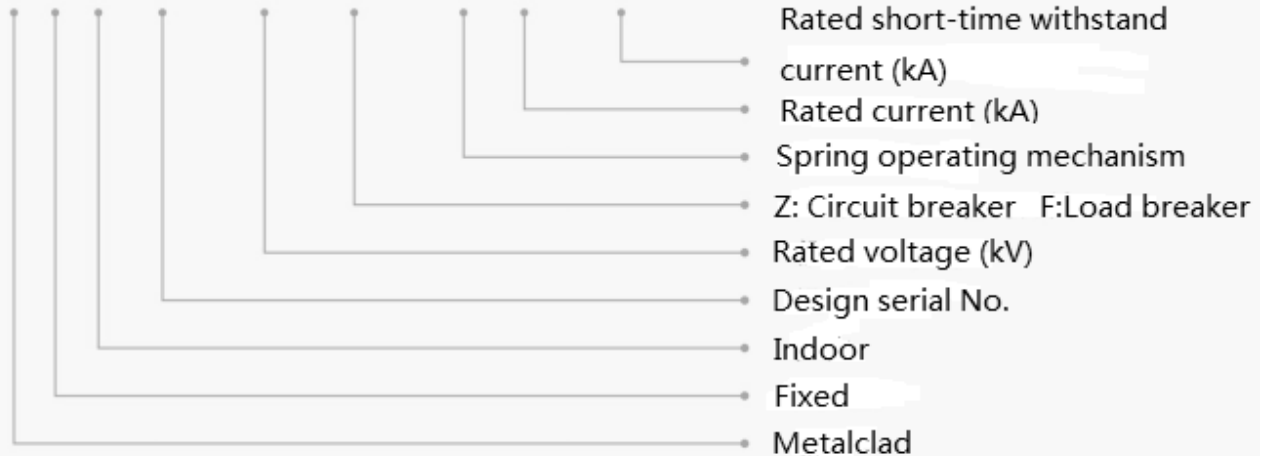


Ambient Condition

- 1 Environmental air temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- 2 Altitude $\leq 3000\text{m}$;
- 3 Humidity condition: Humidity condition: daily average value $\leq 95\%$; monthly average value $\leq 90\%$;
- Vapor pressure: daily mean value is not more than 2.2kPa, monthly mean value is not more than 1.8kPa;
- 4 Installation site: without fire risk, explosion hazard, heavy pollution, chemical corrosion and violent vibration.
- 5 The amplitude of electromagnetic interference in secondary system is no more than 1.6 kV.

Model

X G N 118 - 12 (Z or F) / T 630 - 20



Technical Parameters

No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated current	A	630
3	Rated frequency	Hz	50
4	Rated active load breaking current	A	630
5	Rated short circuit breaking current	kA	20
6	DC component	%	32.9
7	Rated cable charging breaking current	A	25
8	Rated earth fault breaking current	A	30
9	Rated cable charging breaking current under earth fault	A	17
10	Rated short-time withstand current & Duration (main loop/ earthing loop)	kA/s	20/4
11	Rated peak withstand current	kA	50
12	Rated 1min P.F. withstand voltage (phase to phase / phase to ground / fracture)	kV	42/48
13	Lightning impulse withstand voltage (phase to phase / phase to ground / fracture)	kV	75/85
14	1min P.F. withstand voltage of the subsidiary loop	kV	2
15	Main circuit resistance	$\mu\Omega$	≤ 140
16	Protection grade (enclosure)		IP4X
17	Rated voltage of the insulation gas	MPa	0.02
18	Years leak rate of insulating gas		$< 0.5\%$

Main Feature

1. All medium voltage live parts are mounted with fully enclosed stainless steel housing, absolutely safe. Not affected by small animals; unaffected by corrosive gases; unaffected by moisture; unaffected by dust; unaffected by the sun; not rusty (stainless steel cabinet).
2. As a result of the use of dry air insulation, so that products are more environmentally friendly, to avoid the use and pollution of SF₆, the use of epoxy resin structure is as little as possible, but the size is still comparable to the gas tank, compact and practical.
3. Application of vacuum interrupter with small contact pressure, light mechanical drive, guarantee the high life of switch mechanical operation.
4. Simple and safe operation, complete interlocking system, perfect man-machine operation interface, switch device separation.
5. The current connection chamber has large connection space and is connected with parallel cables and extra arresters. The cable connection plugs are of the same height and the cable can be installed in parallel.
6. Each functional unit is provided with a side mounted electrical connector, which can be reliably connected with other functional units.

Basic Structure

