

XGN66A-12 AC Fixed Type Metal-clad Switchgear

Summary

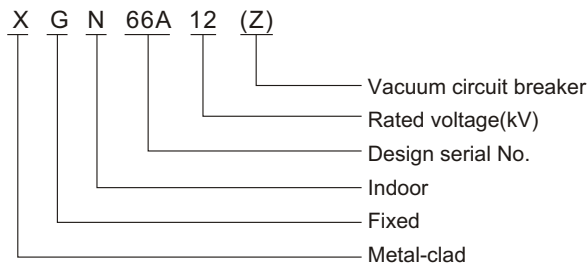
XGN66A-12 applies to 3.6~12kV three phase AC 50Hz system to receive and distribute power energy, suitable for sites with frequent operation and used to improve switchgear with oil switch. It can be arranged for single bus system and single bus sectionalizing system. The panel accords with IEC62271-200 AC Metal-enclosed Switchgear and Control Equipment above 1kV and below 52kV AC, GB3906 3~3.5kV AC Metal-enclosed Switchgear. It is novel in appearance and small in volume, and also has prevention function of mal-operation. The main switch inside the panel is VHY1-12, VS1-12 /ZN73-12 model VCB produced by Huayi Group, GN30-12, GN19-12 model disconnect switch and JN15-12 model earthing switch are used in panel.



Ambient condition

1. Ambient temperature: $-10^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
2. Altitude: $\leq 1000\text{m}$;
3. Relative humidity: daily average $\leq 95\%$, monthly average $\leq 90\%$;
4. Earthquake intensity: ≤ 8 degree;
5. Applicable occasions should be free from inflammable, explosives and severe vibration.

Model



Technical specification

No.	Item	Unit	Data
1	Rated voltage	kV	3.6~12
2	Rated current	A	630,1250
3	Rated short circuit breaking current	kA	20, 25, 31.5
4	Rated short circuit making current(peak)	kA	50, 63, 80
5	Rated short time withstand current(4s virtual value)	kA	20,25,31.5
6	Rated peak withstand current(peak)	kA	50,63,80
7	1min. PF Withstand voltage	kV	42/48
8	Lightning impulse withstand voltage	kV	75/85
9	Auxiliary loop 1min. PF withstand voltage	kV	2
10	Protection degree		IP3X
11	Outline dimension(cable outgoing, W×D×H)	mm	900(840)×1200×2400

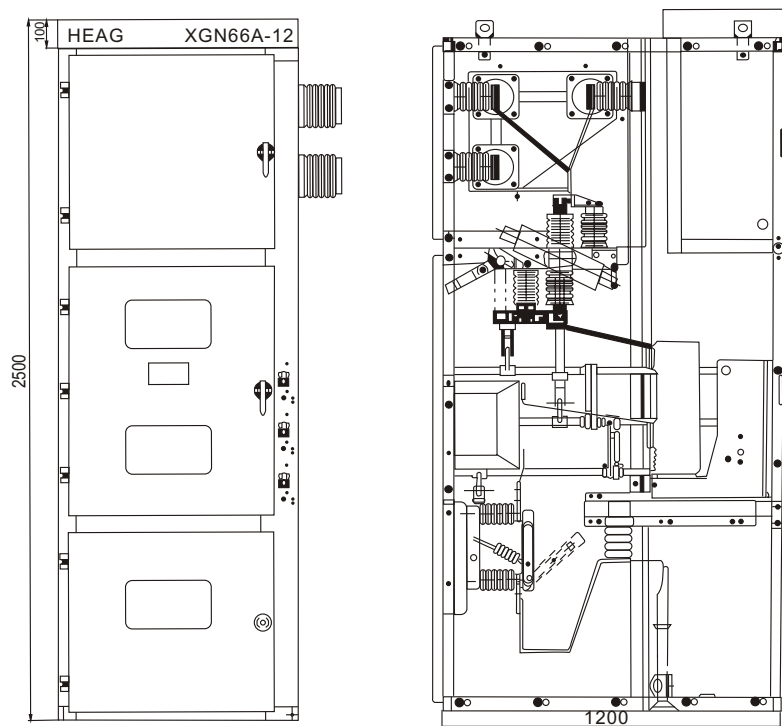
Main technical parameters for VHY1-12/VS1-12/ZN73-12 type VCB

No.	Item	Unit	Data
1	Rated voltage	kV	12
2	Rated current	A	630, 1250
3	Rated short circuit breaking current	kA	20, 25, 31.5
4	Rated short circuit making current(peak)	kA	50, 63, 80
5	Rated short time withstand current(4s virtual value)	kA	20, 25, 31.5
6	Rated peak withstand current(peak)	kA	50, 63, 80
7	Mechanical endurance	Times	10000
8	Rated short circuit breaking current breaking time	Times	50
9	Rated operation sequence		O-0.3s-CO-180s-CO

Product structure

The panel is case fixed type, whose body is made of aluminium-zinc plated steel sheet after multi-bending. Its rear-upper part is main bus compartment, and a pressure releasing device locates on the top. The front-upper part is low voltage compartment, secondary bus can be connected by cables from the bottom, or a bronze tube or stick can be installed on the top. Busbar compartment can keep electric connection with the middle/lower part of the cubicle through GN 30 model rotating disconnect switch. The VCB is installed in the middle of cubicle, earthing switch and disconnect switch of the outgoing cable side are installed in the lower part of panel. CT, PT and lightning arrester can be installed in the rear of panel, primary cable can go out from the back-lower part of panel. Earthing busbar installed on the bottom of panel are through all cubicles. Disconnect switch and earthing switch will be operated on the front-right part of panel.

Outline dimension



Drawing 1 Schematic Drawing