

Product Overview

XGN2-12 box type fixed metal enclosed switchgear (referred to as switchgear) is used for receiving and distributing electrical energy in 3.6, 7.2, and 12KV three-phase AC 50Hz systems, suitable for frequent operation. Its busbar system is a single busbar (and can derive single busbar with bypass and double busbar structures). This switchgear complies with the national standard GB3906-91 "3-35KV AC The requirements of "Metal Enclosed Switchgear" and the national standard IEC298, as well as the "Five Prevention" locking function proposed in two parts

The main switch of this switchgear adopts ZN28-12 series vacuum circuit breaker, equipped with CDI7 series electromagnetic operating mechanism or CT19 series spring operating mechanism. The isolation switch adopts GN30-12 rotary isolation switch or GN22-12 high current isolation switch series products

产品型号说明

X G N 2 - 12 □ / □ □ - □
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

①	箱式开关设备
②	固定式
③	户内型
④	设计序号
⑤	额定电压 12KV
⑥	断路器种类: S- 少油 (或不注) ; Z- 真空; F- 六氟化硫
⑦	操动形式: (T: 弹簧操动 D: 电磁操动)
⑧	额定热电流 A
⑨	额定热稳定电流 KA

Usage conditions

Environmental temperature: upper limit +40 °C; Lower limit -5 °C

Altitude: not exceeding 1000m

Relative humidity: daily average not exceeding 95%, monthly average not exceeding 90%

Shock resistance: not exceeding 8 degrees

There is no fire, explosion hazard, serious pollution, chemical corrosion, or severe vibration in the area

Note: If ordering this product exceeds the above conditions, please consult with our company

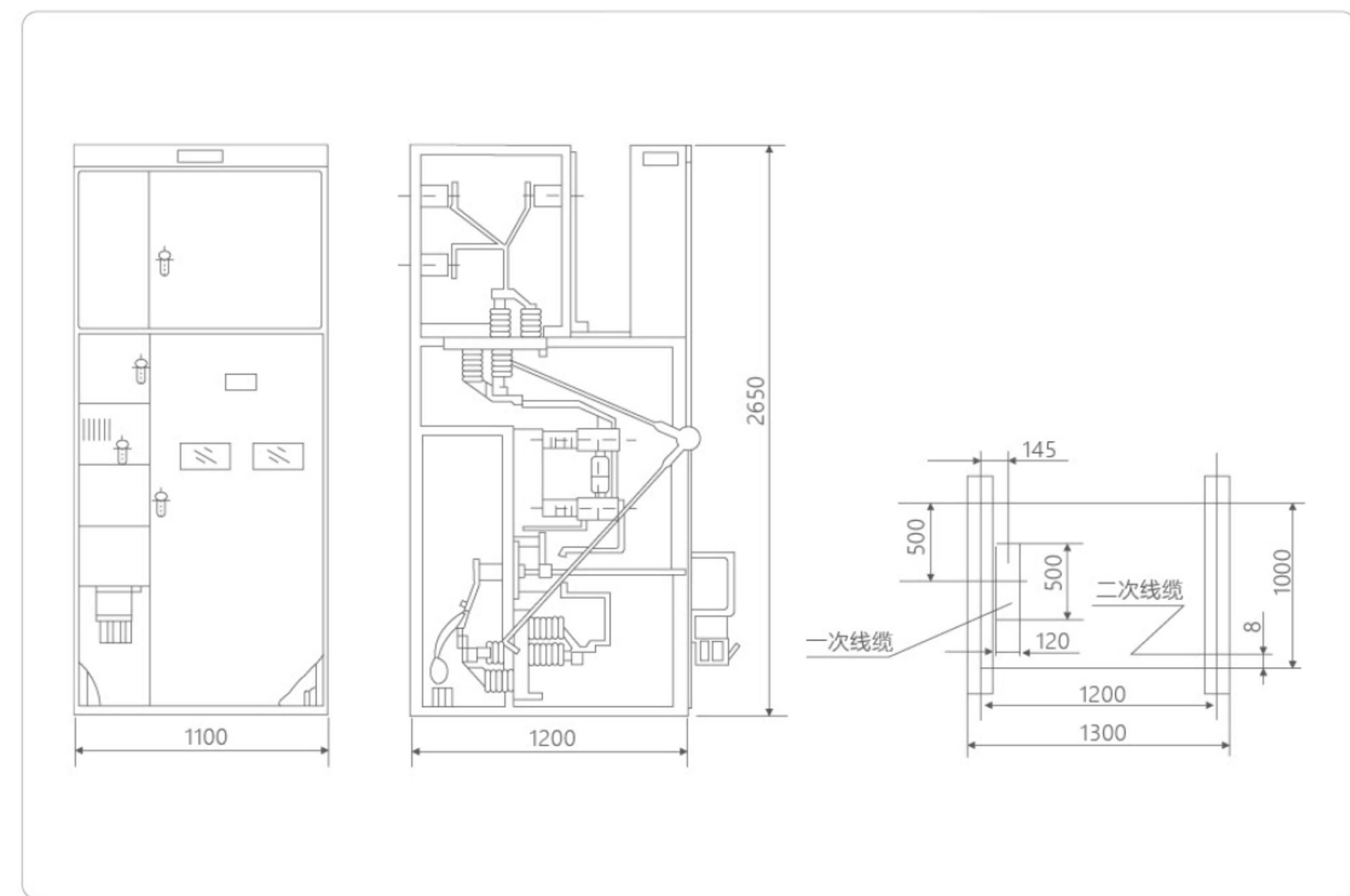
Performance Parameters

The technical data and parameters of the grounding switch should be compatible with the corresponding isolation switch parameters, so the dynamic and thermal stability current, contact pressure of the grounding switch should be consistent with the corresponding isolation switch, but the distance between the grounding switch fractures should not be less than 125mm

技术参数

序号	项目	单位	技术参数						
1	额定电压	KV	3.6		7.2		12		
2	额定电流	A	630~2500						
3	最大工作电流	A	630	1000	1250	2000	2500	3150	
4	额定开断电流	KA	20		31.5				
5	额定热稳定电流	KA	20		31.5				
6	额定动稳定电流	KA	50		80				
7	额定关合电流	KA	50		80				
8	热稳定时间	S	4						
9	防护等级		IP2X						
10	母线等级		单母线 / 单母线带旁路 双母线						
11	操作方式		电磁式 / 弹簧储能式						
12	外形尺寸 (宽 × 深 × 高)	mm	1100 × 1200 × 2650						
13	重量	kg	1000 以下						

安装尺寸图



Structure

This switchgear is a metal enclosed box structure, and the cabinet frame is welded with angle steel. The cabinet is divided into a circuit breaker room, a busbar room, a cable room, and a relay room. Rooms are separated by steel plates. The circuit breaker room is located at the bottom of the cabinet, and the transmission of the circuit breaker is connected to the operating mechanism through a pull rod; The lower terminal of the circuit breaker is connected to the current transformer, the current transformer is connected to the terminal of the lower isolation switch, the upper terminal of the circuit breaker is connected to the terminal of the upper isolation switch, and the circuit breaker chamber is also equipped with a pressure release channel. If an internal arc occurs, gas can be released through the exhaust channel. The busbar room is located at the upper rear of the cabinet. In order to reduce the height of the cabinet, the busbars are arranged in a shape and supported by ceramic insulators with a bending strength of 7350N. The busbars are connected to the upper isolation switch terminals. The cable room is located behind the lower part of the cabinet, and the supporting insulators in the cable room can be equipped with monitoring devices. The cables are fixed on the brackets. For the connection scheme of the upper wiring, this room is the connection cable room. The circuit breaker operating mechanism is installed in the lower left position, with the isolation switch operation and interlocking mechanism above it. The switch cabinet is maintained on both sides. The front is used to repair the secondary elements of the relay room, maintain the operating mechanism, mechanical interlocking and transmission parts, and repair the circuit breaker. The rear is used to repair the upper bus and cable terminals. The circuit breaker room and cable room are equipped with lights

There is a grounding copper busbar parallel to the width direction of the cabinet at the bottom of the front, with a cross section of 4 * 40mm². Mechanical interlocking is used to prevent the opening and closing of the isolating switch with load; Prevent accidental opening and closing of circuit breakers; Prevent accidental entry into the interval with dots; Prevent the use of live grounding switches; Prevent closing with grounding knife. The switchgear adopts corresponding mechanical interlocking

Random file

Product Qualification Certificate

Installation and user manual

Secondary construction wiring diagram

Packing list

Fragile parts, accessories, and spare parts

There should be vulnerable parts such as circuit breakers for electrical appliances

The vulnerable parts of the switchgear shall be determined through consultation between the user and the manufacturer

The types of accessories and spare parts for the switchgear are listed in the table and can be ordered from the manufacturer

Ordering Notice

When placing an order, the user needs to provide the following information:

Main circuit scheme number and primary system diagram, arrangement diagram

Secondary circuit wiring schematic and terminal arrangement diagram, if there is no terminal arrangement diagram, follow the manufacturer's regulations

The model, specification, and quantity of electrical components inside the switchgear

The material and specifications of the main busbar and branch busbar shall be supplied according to the manufacturer's regulations

Special environmental conditions for the use of switchgear should be specified at the time of ordering

When attachments and spare parts are needed, their types and quantities should be specified