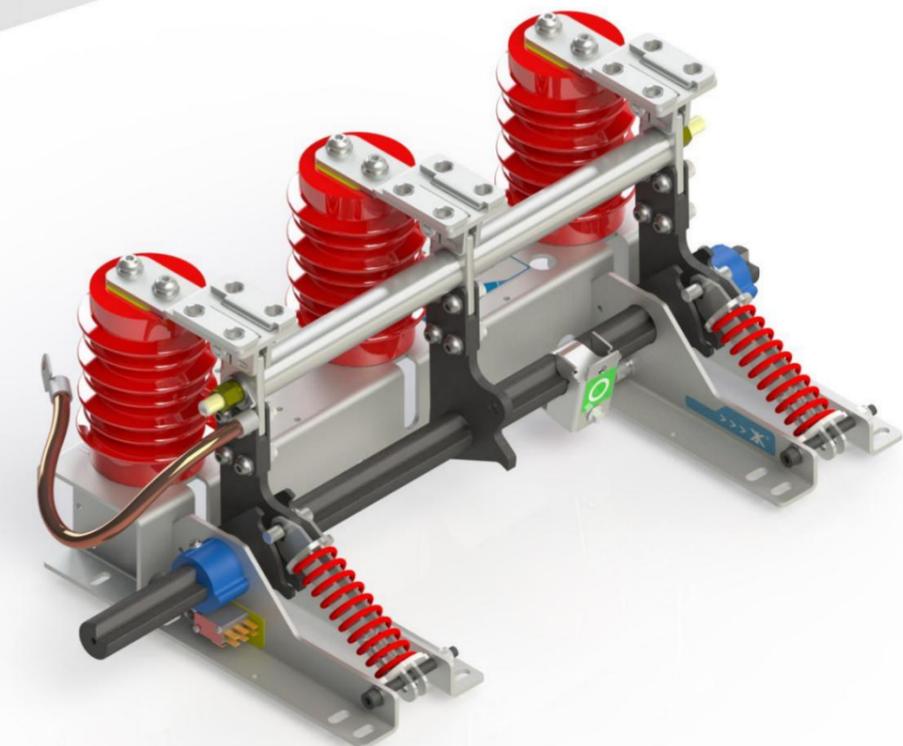




SKJ(JN15)-12/31.5earthing switch series

www.china-xj.net



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INTRODUCTION

公司简介

兴机电器集团有限公司成立于2006年，是研发、生产、销售配电开关元器件及提供专业整体解决方案的高新技术企业。公司先后获得国家专精特新“小巨人”企业、浙江省隐形冠军企业和温州市领军企业等荣誉称号，建有省级企业研究院、省级博士后工作站和CNAS实验室。现拥有国家授权专利178项，其中发明专利28项。

兴机电器集团历经多年的发展，环网开关操动机构技术领先，中压开关柜配件占市场主导地位。产品出口覆盖四大洲14个国家，并与世界500强跨国电气巨头ABB、施耐德、西门子、伊顿、特锐德、三菱、阿海珐建立了忠诚的合作伙伴关系，已成为电器配件行业的领导品牌。

公司秉承“脚踏实地，稳步发展”的经营理念，持续“智能、自动、数字、绿色”的发展思路，践行“诚信、务实、创新、高效”的核心价值观，全力建设引领新智造发展的未来工厂，精心“打造中国一流电器配套件专业制造商”，努力“让中国开关产品达到世界领先水平”。

Established in 1989, Xingji Electric Group Co., Ltd. is a high-tech enterprises focusing on the research, development, production and sales of power distribution switch components and provide professional integrated solutions. The company has been awarded the honorary titles of National specialized and special “Little Giant” enterprise, Invisible Champion Enterprise of Zhejiang Province and Leading Enterprise of Wenzhou City, etc. It has built provincial enterprise Research Institute, provincial postdoctoral workstation and CNAS laboratory. Now it has 178 national authorized patents, including 28 invention patents.

After years of development, the ring network switch operating mechanism technology is leading, and the medium voltage switchgear accessories occupy a dominant position in the market. The products are exported to 14 countries and 4 continents, and it has built up bonds of loyal partnership with the world's top 500 multinational electrical giants ABB, Schneider, Siemens, Eaton, Tgood, Mitsubishi Group, Areva, and has become a pioneering brand in the electrical accessories industry.

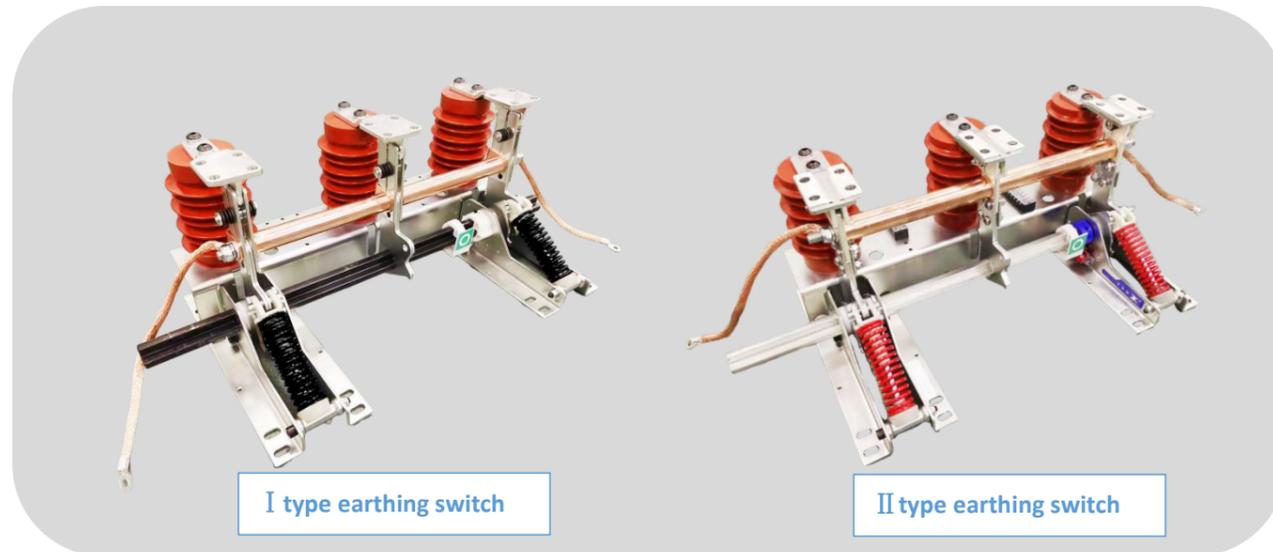
Adhering to the business philosophy of “down-to-earth, steady development”, keeping up with the technology trend, continuous research and innovation, upholding the development concept of “green, intelligent, automatic, digital”, the company has fully implemented the ERP system management, spare no effort to build a smart factory leading the development of new intelligent manufacturing, and carefully build “China's first-class professional manufacturer of electrical accessories”, striving to “let China switch products reach the world's leading level”.



XINGJI ELECTRIC GROUP CO., LTD.

Indoor high-voltage earthing switch operation mechanism

KJ(JN15)-12/31.5



Product Features

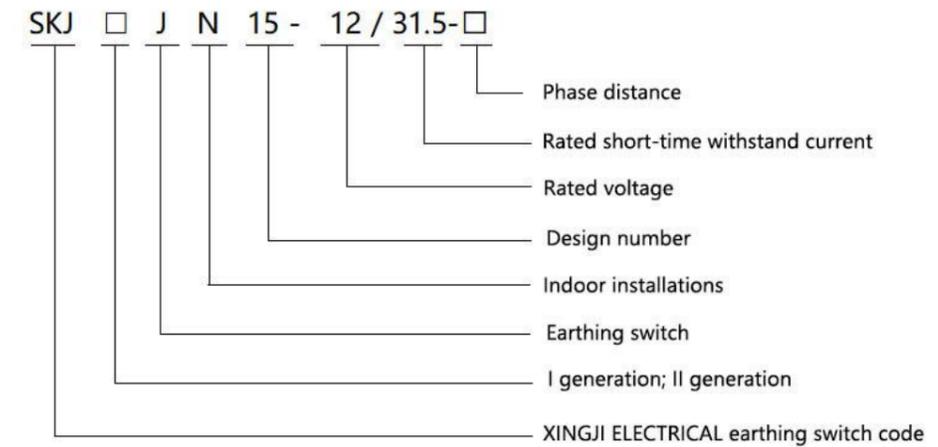
- 1.The earthing switch has compact structure, advanced design and flexible operation.
- 2.Simple structure, easy installation and commissioning.
- 3.3000 times or more of mechanical life satisfaction.
- 4.The salt spray test has a maximum duration of 120 hours.
- 5.All-metal programs can be chosen based on the needs of the application.

Description

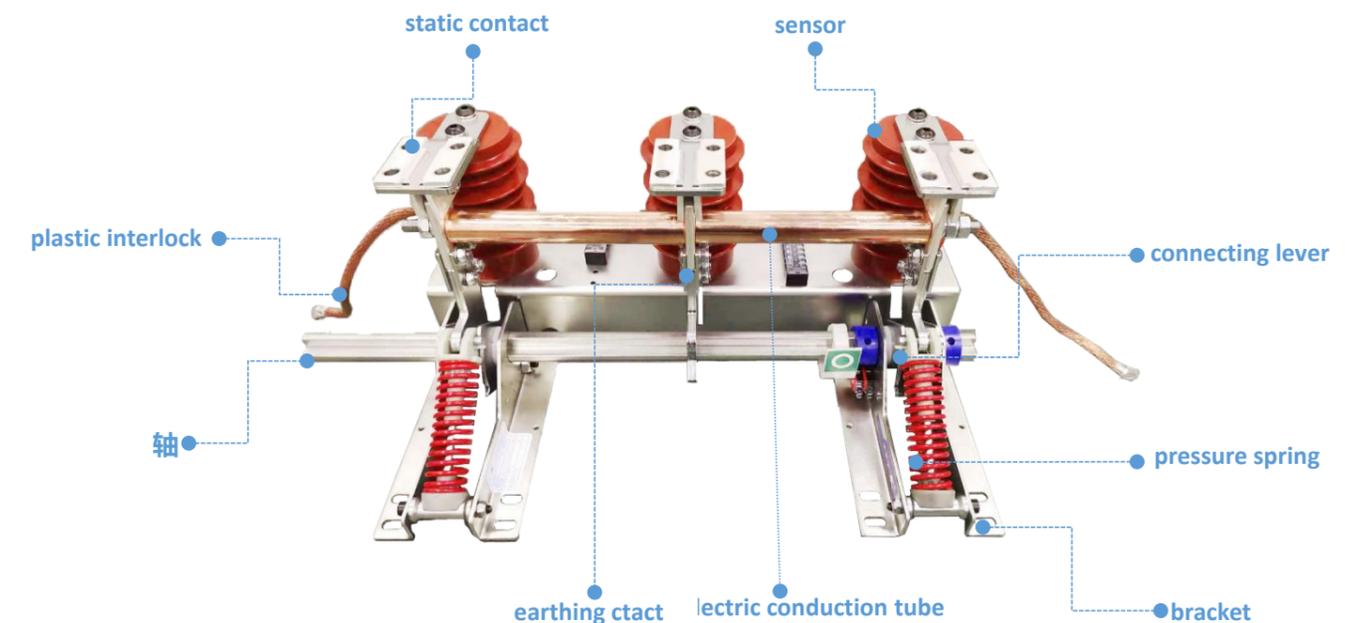
SKJ(JN15)-12/31.5 type indoor high-voltage earthing switch is an international advanced product that is manufactured and developed by our company with cutting-edge technology, which is assembling type.

Its performance is in line with GB/T 1985-2014 "High-voltage alternating-current disconnectors and earthing switches" and IEC 62271 requirements, applicable to 3-12kV three-phase AC 50 Hz power system: It has a short-circuit shutdown ability to protect the switching device within other electrical equipment from damage and can be used with a variety of high-voltage switch gear supports. It can also used as an earthing protection for high-voltage electrical equipment during maintenance.

1.Type meaning



2.SKJ(JN15)-12 main structure



The earthing switch is consist of bracket, earthing contact, static contact, sensor, shaft, connecting lever, pressure spring, electric conduction tube and plastic interlock.

Note: The bracket is made of bent steel plate and welded into components, and the rest are assembling parts.

3.SKJ(JN15)-12 detailed features

1.Sensor

High strength sensors

Superior epoxy resin material, durable, and pressure-resistant.

Good insulation, safety, and reliability.



2.Structur

compact design

Quick opening and closing capability, easy installation and commissioning.



3.Spring

Energy storage springs

Rotating quenching spring without standing elasticity and endurance for energy storage



4.Bracket

Eco-friendly EU galvanized bracket

Salt spray test up to 120h.



4.Working Principle:

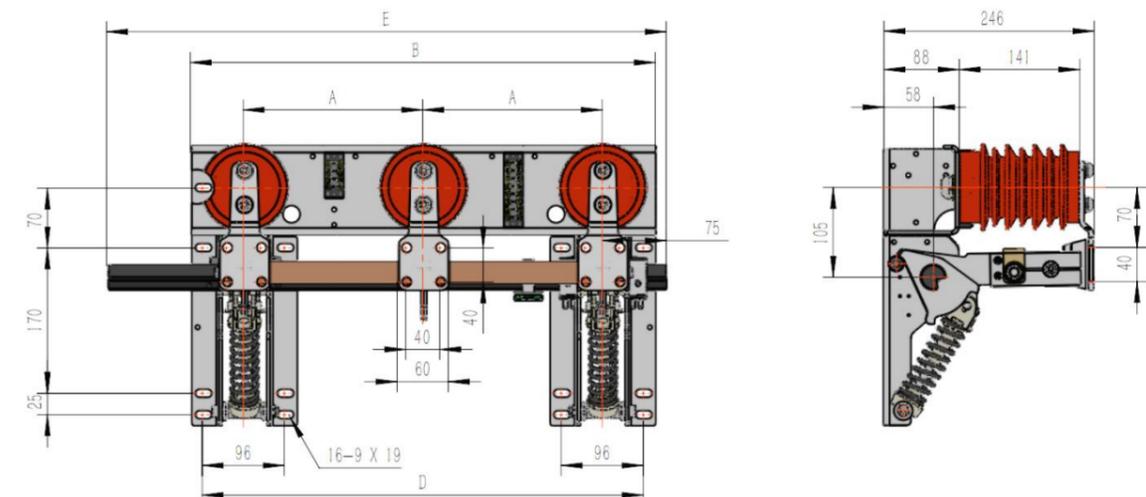
1. When the earthing switch is turned to the closing position, the spindle rotates the connecting lever counterclockwise, making the operating shaft of the earthing contact pass through the pressure spring's dead point. The pressure spring releases energy, making the earthing switch swiftly reach the closing position. The butterfly spring and the flange portion of the static contact make a firm and reliable contact with the earthing contact.
2. When the earthing switch is turned to the opening position, the spindle overcomes the spring reaction force and rotates the connecting lever clockwise, making the operating shaft of the earthing contact pass through the pressure spring's dead point. The pressure spring stores energy for the next closing.
3. The closing speed of the earthing switch is unaffected by the speed of human operation.

5.Main technical parameters

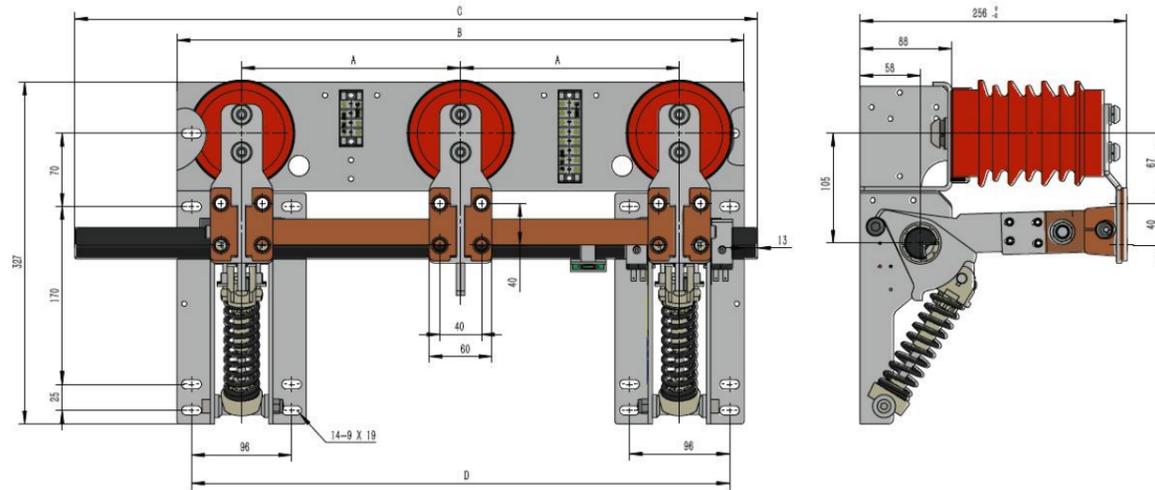
Item		Unit	Data
Rated voltage		kV	12
Rated short-time withstand current		kA	31.5
Rated short-circuit duration		S	4
Rated short-circuit closing current		kA	80
Rated peak withstand current		kA	80
Rated insulation level	Rated short-time frequency withstand (1min)	Relative to ground and phase-to-phase	42
	Lightning impulse withstand voltage		75
Mechanical life		Time	3000

6.Outline dimension drawing

I type earthing switch



II type earthing switch



7.Set list

Product type	A	B	C	D
SKJ I (JN15)-12/31.5-150	150	424	515	396.5
SKJ I (JN15)-12/31.5-165	165	454	565	426.5
SKJ I (JN15)-12/31.5-180	180	484	595	456.5
SKJ I (JN15)-12/31.5-200	200	524	635	496.5
SKJ I (JN15)-12/31.5-210	210	544	655	516.5
SKJ I (JN15)-12/31.5-220	220	564	675	536.5
SKJ I (JN15)-12/31.5-230	230	584	695	556.5
SKJ I (JN15)-12/31.5-250	250	624	735	596.5
SKJ I (JN15)-12/31.5-275	275	674	810	646.5

8.Ordering instructions

- When ordering the earthing switch, please specify the product type, phase distance, and whether it is equipped with a charged monitor (as well as the monitor type).
- Please specify the upper and lower positions of the moving and static contacts when the earthing switch is installed in the cabinet.
- Please contact us if you have any special needs.

Indoor high-voltage earthing switch operation mechanism

SKJ(JN15)-12/D31.5



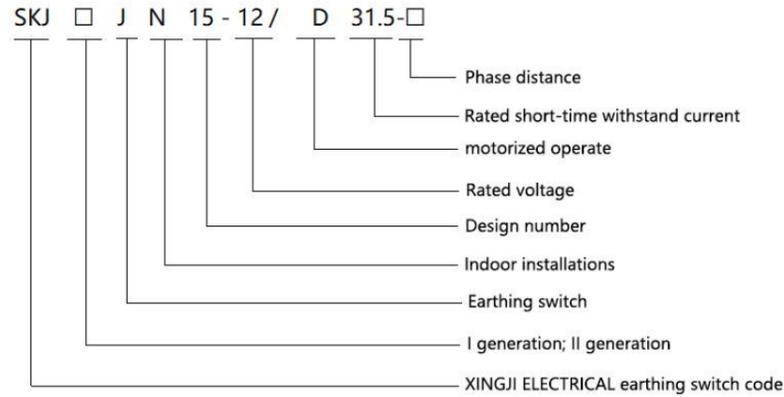
Product Features

- Electric operation mechanism and earthing switch are integrated, without changing the original installation structure.
- It can realize free switching between manual operation and electric operation.
- Safe and reliable, the anti-blocking function can realize the control and protection of the motor.
- The salt spray test has a maximum duration of 120 hours.
- All-metal programs can be chosen based on the needs of the application.

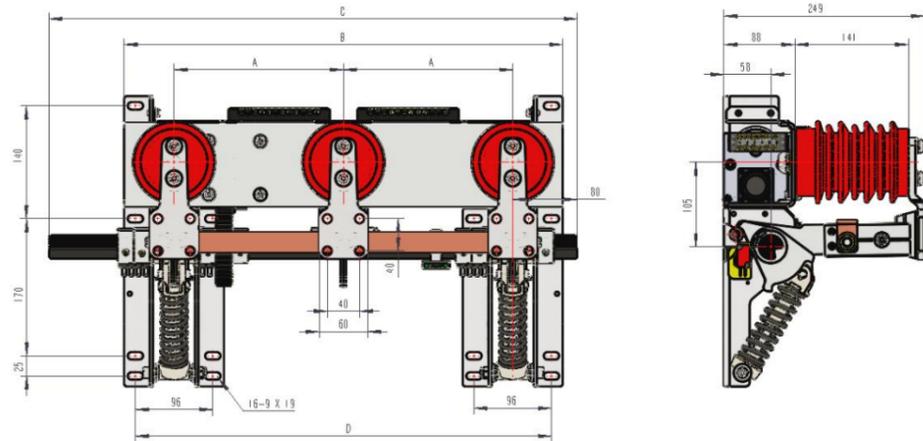
Description

SKJ(JN15)-12/D31.5 type indoor high-voltage earthing switch is a combination of electric operating mechanism and earthing switch without changing the original earthing switch installation structure. It has the advantages of reasonable design structure, reliable electrical and mechanical performance, and easy installation and maintenance. Its performance is in line with GB/T 1985-2014 "High-voltage alternating-current disconnectors and earthing switches" and IEC 62271 requirements, applicable to 3-12kV three-phase AC 50 Hz power system: It has a short-circuit shutdown ability to protect the switching device within other electrical equipment from damage and can be used with a variety of high-voltage switchgear supports. It can also be used as an earthing protection for high-voltage electrical equipment during maintenance.

1.Type meaning



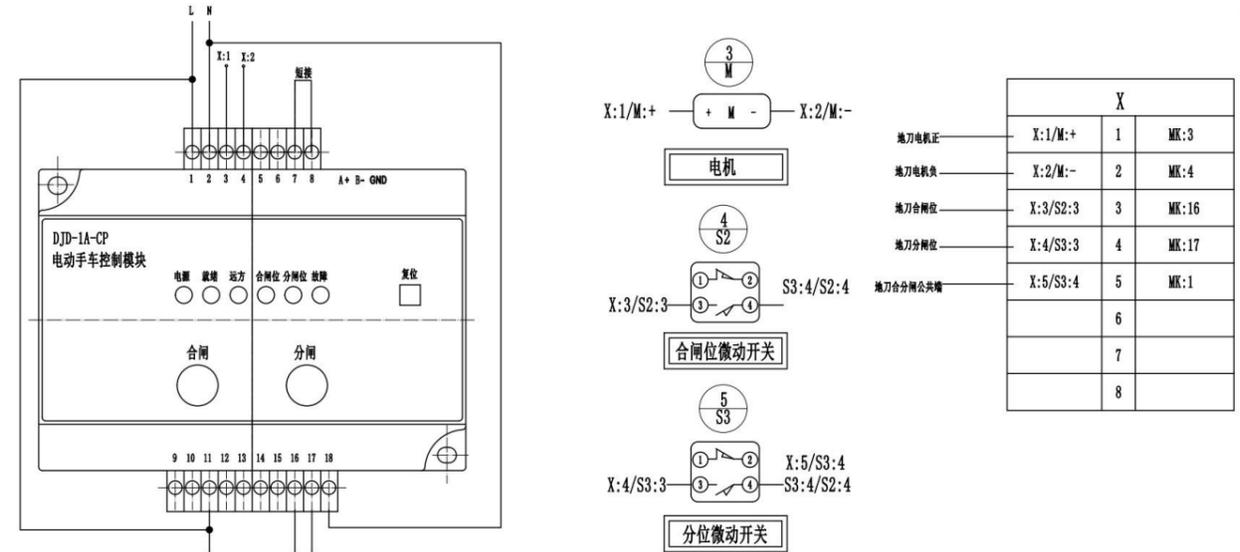
2.Outline dimension drawing



3.Set list

Product type	A	B	C	D
SKJ I (JN15)-12/D31.5-150	150	424	515	396.5
SKJ I (JN15)-12/D31.5-165	165	454	565	426.5
SKJ I (JN15)-12/D31.5-180	180	484	595	456.5
SKJ I (JN15)-12/D31.5-200	200	524	635	496.5
SKJ I (JN15)-12/D31.5-210	210	544	655	516.5
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SKJ I (JN15)-12/D31.5-250	250	624	735	596.5
SKJ I (JN15)-12/D31.5-275	275	674	810	646.5

4.Electric earthing switch wiring circuit and diagram



5.Ordering instructions

- One assistant switch signal for closing position and one assistant switch signal for opening position, this signal is for module use and other closing and opening signals are taken from the body of the earthing contact.
- Since the mechanism is on the right side, the left and right operation (long arm extends direction) open and close indication signs are installed on the left side.
- Please specify whether the electric switch operation mode is arm drive or bevel gear drive.
- Electric control device is available: (1) DJD-1A-CP, (2) DJD-1A-CP, (3) handcart and earthing contact two-in-one.
- Please contact us if you have any special needs.

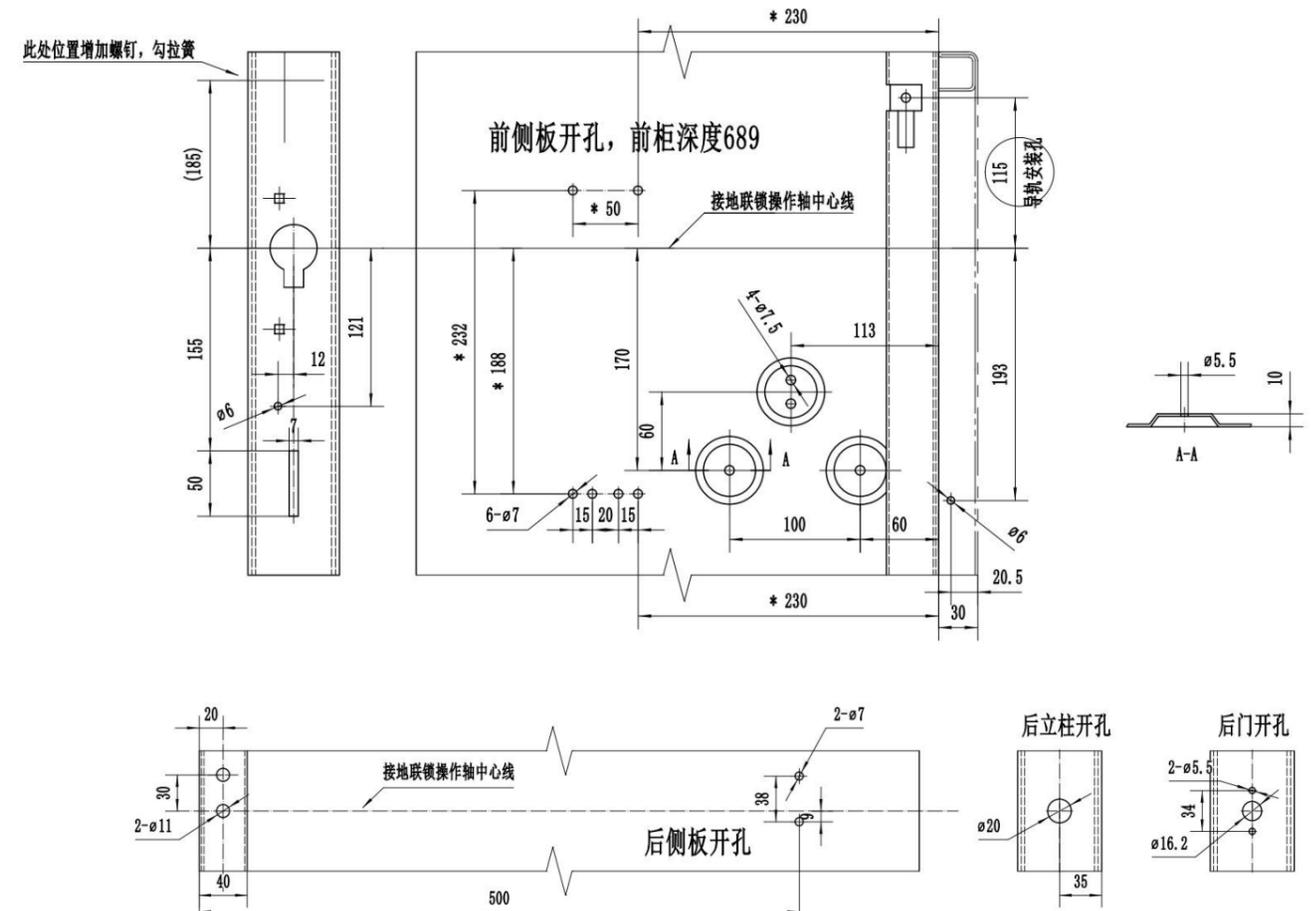
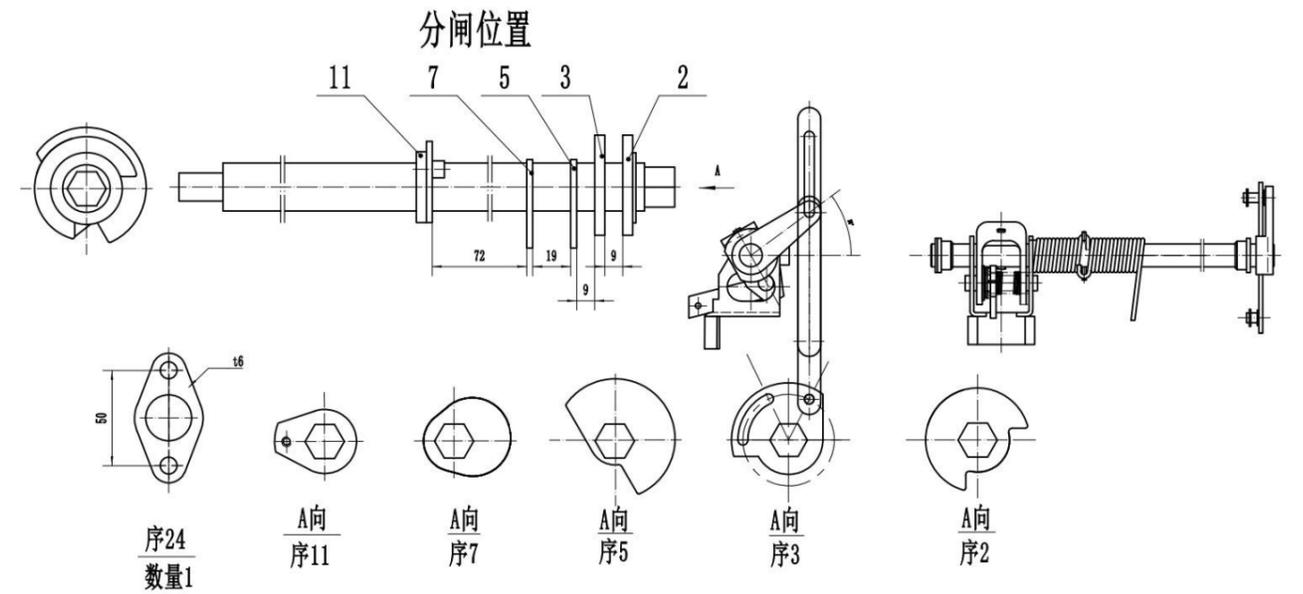
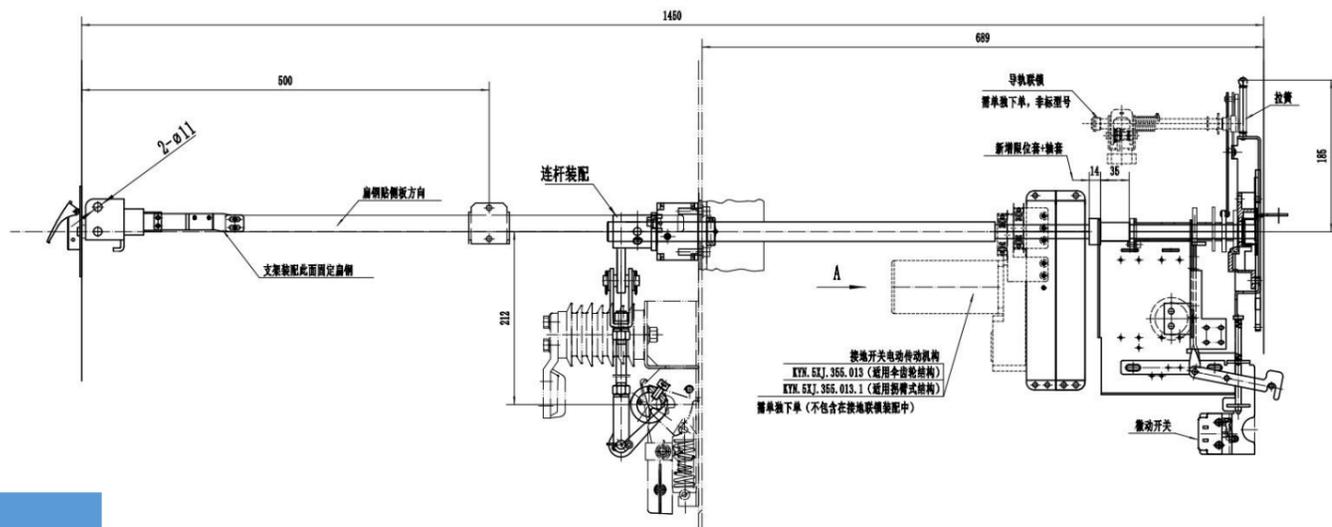
SKJ Split electric earthing switch Interlock device



Product introduction

- 1.Independent intellectual property rights: the first split motor in China (CN210223878U)
- 2.Full specification program: adaptable cabinet depth 1450mm~2800mm.
- 3.Intelligent upgrading: multi-specification controller with communication, five-proof lock, strong electricity.
- 4.The electric part adopts split design, which is convenient for installation and maintenance.

外形尺寸图



MISSION 企业使命

为中国开关行业提供先进及可靠的机械操作机构及配件，
协助中国开关行业发展，让中国开关产品保持世界领先地位。
To Provide Advanced And Reliable Mechanical Operating Mechanisms And
Accessories For China's Switch Industry,
To Assist The Development Of China's Switch Industry,
So That China's Switch Products To Maintain The World's Leading Position.

MANAGEMENT CONCEPT

经营理念

脚踏实地 稳步发展
Down-to-earth and steady development

VISION

企业愿景

成为电力开关行业机械构件最专业及
一站式解决方案的制造商。
To become the most professional and one-stop
solution manufacturer of mechanical components in
the power switch industry.

CORE VALUE

核心价值观

诚信、务实、创新、高效
Integrity, pragmatism, innovation and efficiency

发展理念

绿色、智能、自动、数字
Green intelligent automatic digital

DEVELOPMENT CONCEPT