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Change without prior notice.

The information presented in this information is a general description of options that are not applicable to all specific situations. The technical options required by the customer should therefore be identified in the contract.



JSR6-12/24
SF6 Gas-insulated Ring Main Unit

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Leading Innovation



JHK Reflects A Brilliant Future.

Zhejiang Juhonkia Electric Co.,Ltd.was established in January 2014 and is a mixed ownership high-tech enterprise invested by Zhejiang Economic Construction Investment Co.,Ltd.,a wholly-owned enterprise of Zhejiang Transportation Investment Group,a Fortune 500 enterprise.It focuses on the research and development,production,and sales of primary and secondary equipment for 220kV and below power transformation and distribution,and specializes in the research and development,production,and sales of intelligent electrical and gas switchgear and its supporting components.The company is located in Gaohong Photoelectric Industrial Park,Lin'an District,Hangzhou,with a paid in registered capital of 72368194 yuan.The company is a director unit of Zhejiang Transmission and Distribution Industry Association,a business technology partner of Siemens and ABB,and has been rated as a national high-quality supplier of high and low voltage electrical equipment by China Equipment Management Association.

The company has a construction area of 30000 square meters,with over 200 employees and over 80 technical personnel.It has 7 automated production lines of various types,and the original value of fixed assets is 86 million yuan;We have the production capacity of 35000 sets of ring main cabinets,15000 sets of column mounted switches,2000 sets of gas filled cabinets with voltage levels of 40.5kV and below,2000 sets of drone airports,1000 box type substations,and system integration annually.We have a production capacity of 1 billion yuan in annual sales.

The company has excellent testing equipment and over 50 sets of various testing equipment and facilities.It has the ability to conduct Class B spot checks and tests on switch and coil products of State Grid Corporation of China.It is the first switch manufacturing enterprise in the transmission and distribution industry in Zhejiang Province to pass the CNAS recognized laboratory.

The company is a specialized,refined,and innovative enterprise in Zhejiang Province,and a national high-tech enterprise;It has research and development institutions such as provincial high-tech enterprise research and development center for intelligent distribution equipment,Hangzhou enterprise technology center,municipal innovation studio,etc.It has won many honors such as Zhejiang AAA contract abiding and trustworthy enterprise,Zhejiang credit management demonstration enterprise, Hangzhou patent demonstration enterprise,Lin'an District intelligent factory,Lin'an District green factory,etc.It has been rated as the most growing enterprise in Hangzhou and the growth star of small and micro enterprises in Zhejiang Province;In August 2022,it was selected as the leading enterprise of Zhejiang Happy Community.

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Our company has passed ISO 9001 Quality Management System, ISO 14001 environmental management system, ISO 45001 Occupational Health and Safety Management System certification.

Product Overview

JSR6 series gas fully insulated compact ring main unit (RMU) is a new type of SF6 gas insulated medium voltage switchgear independently researched and developed by Zhejiang Juhonkia Electric Co. Ltd. The product adopts a modular design, which can be arranged arbitrarily according to different design schemes, and realizes the perfect combination of a common box unit and an extended unit to satisfy the needs of a variety of secondary transmission and distribution substations for the flexible use of compact switchgear. The JSR6 series switchgear is a modularized design.

□ □ JSR6 series switchgear is a completely sealed system, all the electrically charged parts and switches are enclosed in stainless steel casing, which is not affected by the environment; it has the features of reliable operation, safety guarantee, compact structure design, small space occupation, maintenance-free and long service life.

□ □ The products have passed the type test verification of the national high-voltage electrical test center, and are widely used in small secondary power distribution stations, box-type switchgear, industrial and mining enterprises, airports, railroads, commercial areas, high-rise buildings, highways, subways, tunnels, and places with harsh natural conditions.

Implementation standards

GB/T 3906 Alternating-current metal-enclosed switchgear and controlgear for rated voltages above 3.6kV and up to and including 40.5kV

GB/T11022 Common specifications for high-voltage switchgear and controlgear standards

GB 1984 High-voltage alternating-current circuit-breakers

GB 1985 High-voltage alternating-current disconnectors and earthing switches

GB 3804 High-voltage alternating-current switches for rated voltage above 3.6kV and less than 40.5kV

GB 16926 High-voltage alternating current switch-fuse combinations

GB 4208 Degrees of protection provided by enclosures (IP code)

GB 311.1 Insulation coordination for high voltage transmission and distribution equipment

GB 3309 Mechanical test at ambient temperature for high-voltage switchgear

GB 11023 Test guide of SF6 gas tightness for high-voltage switchgear

GB/T 8905 The guide for processing and measuring SF6 gas in power apparatus

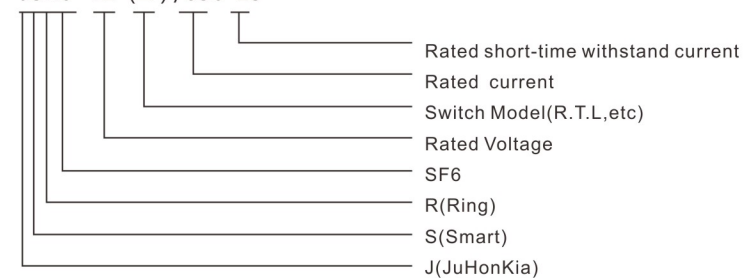
GB 5832.2 Determination of moisture in gases-Part2: Dew point method

DL/T404 Alternating-current metal-enclosed switchgear and controlgear for rated voltages above 3.6kV and up to and including 40.5kV

DL/T 593 Common specification for high-voltage switchgear and controlgear standards

Product Model

JSR6-12 (□) /630-25



Service Conditions

- Altitude: ≤7000m(If the altitude is more than 1000m, the user needs to negotiate with manufacturer when ordering.)
- Ambient temperature
—Max. +55℃
—Min.(indoor) -40℃
Average temperature not exceeding 35℃ in24h
- Humidity
Max. Daily average relative humidity ≤95%
Max. Month average relative humidity ≤90%
- Ambient air: Not affected by pollution, smoke, corrosive or combustible gas, salt spray and other environment
- Earthquake intensity: less than 9 magnitudes

Product Features:

The primary high-voltage live parts are all sealed in the gas tank welded with stainless steel plates, and the whole switchgear is not affected by the external environment, ensuring the high accessibility of operation and personal safety, and realizing maintenance-free;

With compact structure, it's especially suitable for small spaces such as the inside of wind generator tower and box-type substation;

The stainless-steel gas tank is made of 3mm 304 stainless steel and welded by the leading three dimensional five-axis laser welding system. The gas tank is characterized by higher overall welding quality, better air tightness and nice appearance;

The automatic helium leak detection equipment is adopted to ensure that the leakage rate of the gas tank is less than 0.01%/year, and the normal working life of the gas tank is more than 30 years;

With modular design, it's arranged and combined according to the design scheme to ensure flexible expansion and complete various power distribution needs;

The expansion bus is completely insulated and shielded, ensuring high reliability and safety;

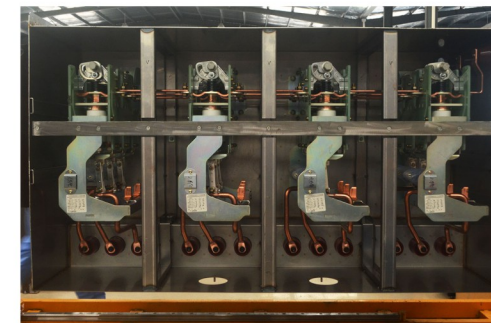
Simple and effective interlocking is adopted to prevent mis-operation;

The operating mechanism is reliable, the mechanical life of load switch is up to 5, 000 times, and the mechanical life of vacuum circuit breaker is up to 10,000 times;

The Transmitting current up to 1750A,12kV;1400A,24kV;

It can provide factory automation solutions and realize the concept of intelligent switch;

Fully automatic assembly line is adopted to ensure product consistency.



Sf6 Ring Main Unit Technical Parameters

No.	Parameter			Unit	Load-break switch unit(R)	Switch-fuse combination unit(T)	VCB unit(L)
1	Rated voltage			Kv	12/24	12/24	12/24
2	Rated frequency			Hz	50	50	50
3	Rated current			A	630	125 (Depends on fuse current)	630
4	Rated insulation level	Rated power frequency withstand voltage (1min)	phase to phase value/ground value	kV	42/65	42/65	42/65
			breakponit value		48/79	48/79	48/79
			control and auxiliary circuit values		2/2	2/2	2/2
		Rated lightning impulse withstand voltage	phase to phase value/ground value		75/125	75/125	75/125
			breakponit value		85/145	85/145	85/145
5	Rated short-time withstand current			kA/s	25/4	---	25/4
6	Rated peak withstand current			kA	63	---	63
7	Rated short-circuit shutdown current			kA	63	Limited by high voltage fuses	63
8	Rated short circuit breaking current			kA	----	Limited by high voltage fuses	25/25
9	Rated transform current			A	----	1700/1400	----
10	Rated active load breaking current			A	630	----	----
11	Rated closed-loop breaking current			A	630	-----	630
12	Mechanical endurance	Load-break /VCB		Times	10000	10000	20000
		Disconnect/Earth Switch			3000	3000	3000
13	Circuit resistance			Ω	≤150	----	----
14	Rated inflation pressure(at 20℃, gauge)			MPa	0.04	0.04	0.04
15	Relative annual gas leakage rate			%	0.01	0.01	0.01
16	IP Class	Cabient			IP4X	IP4X	IP4X
		Gas tank			IP67	IP67	IP67

Product Structure



1. SF6 gas density meter

The density value is not subject to ambient temperature changes, if the density indicates a position in the red area, it means that the gas pressure is low; if in the green area, it means that the gas pressure is normal (rated surface value of 1.4 bar);.

2. Earthing switch operating hole

The grounding switch operation hole allows the grounding switch to be closed and opened.

3Load break switch operating hole

The load switch can be closed and divided through the load switch operation hole;

4 Voltage indicator

Indicator light can show whether the primary circuit of the casing is charged.

5 Cable compartment door (door handle)

Under the correct operation of the switch, the circuit is in the grounding state, then can open the lower cabinet door.

6. Circuit Breaker opening and closing Indicator

The opening and closing position of the circuit breaker switch can be displayed according to its opening and closing indication hole;

7. VCB push buttons close/open operation

After the energy storage of the circuit breaker, you can press the green button to form a manual closing, and press the red button to form a manual opening;

8. VCB energy storage operating hole

The energy storage operating hole can be used for energy storage operation of the VCB;

9. Disconnecter operating hole

The disconnecter operating hole can be used for closing and opening of disconnecting switch;

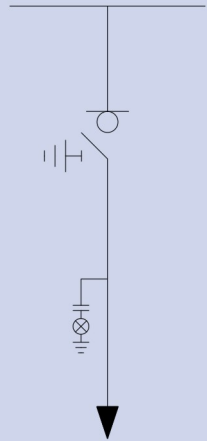
10 . Pressure relief compartment

If the gas tank pressure is too high, the explosion-proof in the relief valve will break, to release pressure;

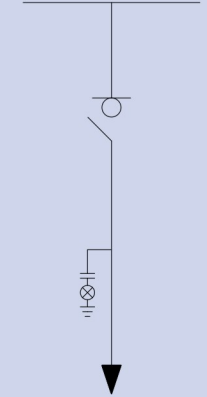
11. Cable compartment

To connect with the burst-out cable through the emergence casing.

Basic Unit Program

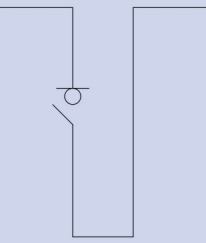
Program	Model	Function	Standard Configuration	Optional features
	R Unit	Load break switch unit with earth switch, also known as three-position load break switch unit, which has three working states: closing, opening and earthing, and mainly used for connecting, controlling, and branching the inlet and outlet lines of the ring network cable lines.	Busbar 630A	Motor operating
			Three position Load break switch	Combined Short-circuit and earthing fault indicator
			Manual Operating	Mechanical interlocking device with key
			outlet bushing is an induction type high pressure sensor	Inlet cable earthing live blocking device
			Padlock device	Separable connector
			Density Meter	Lightning arrestor
			Earth busbar	Bushing for extension
			Cabinet	Expansion busbar
			Cable connector sleeve	Loop current transformer for metering and current meter
			Operating handle	

- Notes:1. Gas tank and optional mechanism are available
- 2.Each set with one set tool (including operating handle and disassembly tools for panel and door)

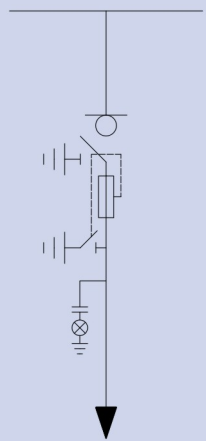
Program	Model	Function	Standard Configuration	Optional features
	R0 Unit	Load break switch unit without earth switch, also known as two-position load break switch unit, which has two working states: closing and opening , and mainly used for connecting, controlling, and branching the inlet and outlet lines of the ring network cable lines.	Busbar 630A	Motor operating
			Three position Load break switch	Combined Short-circuit and earthing fault indicator
			Manual Operating	Mechanical interlocking device with key
			outlet bushing is an induction type high pressure sensor	Separable connector
			Padlock device	Lightning arrestor
			Density Meter	Bushing for extension
			Earth busbar	Expansion busbar
			Cabinet	Loop current transformer for metering and current meter
			Cable connector sleeve	
			Operating handle	

- Notes:1. Gas tank and optional mechanism are available
- 2.Each set with one set tool (including operating handle and disassembly tools for panel and door)

Basic Unit Program

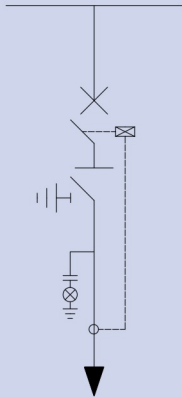
Program	Model	Function	Standard Configuration	Optional features
	R(T)H Unit	Two position Load break switch unit	Busbar 630A	Motor operating
			Two position Load break switch	Mechanical interlocking device with key
			Manual Operating	Bushing for extension
			outlet bushing is an induction type high pressure sensor	Expansion busbar
			Padlock device	Loop current transformer for metering and current meter
			Density Meter	
			Earth busbar	
			Cabinet	
			Cable connector sleeve	
			Operating handle	

- Notes:1. Gas tank and optional mechanism are available
- 2.Each set with one set tool (including operating handle and disassembly tools for panel and door)

Program	Model	Function	Standard Configuration	Optional features
	T Unit	Load break switch - fuse combination electrical units, are mainly used for controlling and protection of small and medium-sized distribution transformers.	Busbar 630A	Motor operating
			Three position Load break switch/Earthing switch for fuse	Combined Short-circuit and earthing fault indicator
			Manual Operating	Mechanical interlocking device with key
			outlet bushing is an induction type high pressure sensor	Inlet cable earthing live blocking device
			Padlock device	Separable connector
			Density Meter	Lightning arrestor
			Earth busbar	Bushing for extension
			Cabinet	Expansion busbar
			Cable connector sleeve	Loop current transformer for metering and current meter
			Operating handle	

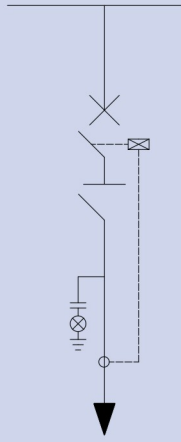
- Notes:1. Gas tank and optional mechanism are available
- 2.Each set with one set tool (including operating handle and disassembly tools for panel and door)

Basic Unit Program

Program	Model	Function	Standard Configuration	Optional features
	L Unit	Circuit breaker unit means vacuum switch, adopts combination vacuum circuit breaker – three position disconnect switch, mainly used for connecting ,controlling and branching the cable line. Reliable mechanical interlocking is set up between vacuum switch and disconnect switch to prevent mis operation and ensure that the load current is turned on and off by the circuit breaker. The circuit breaker unit is equipped with protection special current transformer and protection relay, with highly safety protection function.	Busbar 630A	Combined Short-circuit and earthing fault indicator
			Vacuum switch	Mechanical interlocking device with key
			Vacuum switch motor operating mechanism	Inlet cable earthing live blocking device
			Three position disconnect switch	Separable connector
			Three position disconnect switch	Lightning arrester
			Manual operating mechanism	
			outlet bushing is an induction type high pressure sensor	Bushing for extension
			Padlock device	Expansion busbar
			Density Meter	Loop current transformer for metering and current meter
			Earth busbar	
			Cabinet	
			Cable connector sleeve	
			Current transformer for protection	
			Protection relay	
			Operating handle	

Note: Gas tank and optional mechanism are available

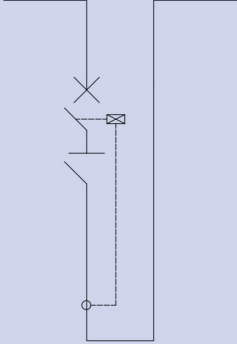
Basic Unit Program

Program	Model	Function	Standard Configuration	Optional features
	L ₀ Unit	Circuit breaker unit without earthing adopts combination vacuum circuit breaker – two position disconnect switch	Busbar 630A	Combined Short-circuit and earthing fault indicator
			Vacuum switch	Mechanical interlocking device with key
			Vacuum switch motor operating mechanism	Separable connector
			Two position disconnect switch	Lightning arrester
			Two position disconnect switch	Bushing for extension
			Manual operating mechanism	
			outlet bushing is an induction type high pressure sensor	Expansion busbar
			Padlock device	Loop current transformer for metering and current meter
			Density Meter	
			Earth busbar	
			Cabinet	
			Cable connector sleeve	
			Current transformer for protection	
			Protection relay	
			Operating handle	

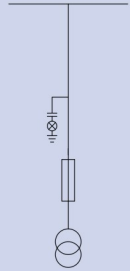
Notes:1. Gas tank and optional mechanism are available

2.Each set with one set tool (including operating handle and disassembly tools for panel and door)

Basic Unit Program

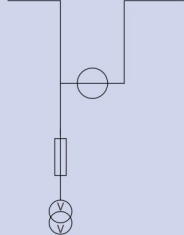
Program	Model	Function	Standard Configuration	Optional features
	L(T)H Unit	This unit adopts combination vacuum circuit breaker – two position disconnect switch without earth switch, mainly used for busbar segmentation.	Busbar 630A	Bushing for extension
			Vacuum switch	Expansion busbar
			Vacuum switch motor operating mechanism	
			Two position disconnect switch	
			Two position disconnect switch	
			Manual operating mechanism	
			outlet bushing is an induction type high pressure sensor	
			Padlock device	
			Density Meter	
			Earth busbar	
			Cabinet	
			Cable connector sleeve	
			Current transformer for protection	
			Protection relay	
			Operating handle	

Note: Each set with one set tool (including operating handle and disassembly tools for panel and door)

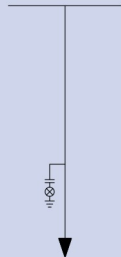
Program	Model	Function	Standard Configuration	Optional features
	PT Unit	The busbar PT unit is a fully insulated and sealed voltage transformer unit that utilizes fully insulated and shielded separable connectors to connect to the voltage transformer.	Separable connector	Meter
			Voltage transformer	Power Module
			Fuse breaker for protection	Battery pack
			outlet bushing is an induction type high pressure sensor	
			Earth busbar	
			Cabinet	

Note: Each set with one set tool (including operating handle and disassembly tools for panel and door)

Basic Unit Program

Program	Model	Function	Standard Configuration	Optional features
	M Unit	Metering cabinet unit with current transformers of different ratios on request	Busbar 630A	Meter
			Current transformer(two units)	
			Voltage transformer(two units)	
			Fuse breaker for PT protection	
			Earth busbar	
			Cabinet	

Note: Each set with one set tool (including operating handle and disassembly tools for panel and door)

Program	Model	Function	Standard Configuration	Optional features
	K Unit	The cable feeder unit without switch is convenient to extend inlet and outlet lines or connect lightning arrester.	Busbar 630A	Combined Short-circuit and earthing fault indicator
			Density meter	Separable connector
			outlet bushing is an induction type high pressure sensor	Lightning arrester
			Earth busbar	Bushing for extension
			Cabinet	Expansion busbar
			Cable connector sleeve	Loop current transformer for metering and current meter

Note: Each set with one set tool (including operating handle and disassembly tools for panel and door)

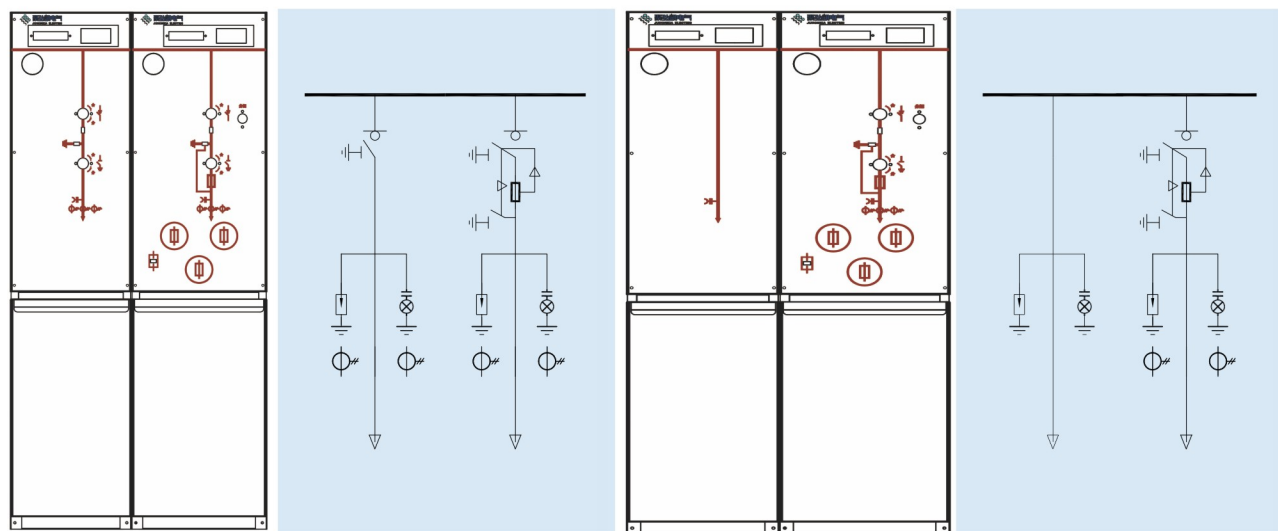


Combined Unit Program



In the SFR6 series switch, for the switch unit configuration of each individual model, refers to the standard and Optional configuration in the basic unit program. Each common box combination is equipped with a density meter and an operating handle. (Note: combined gas box + mechanism program can be provided separately)

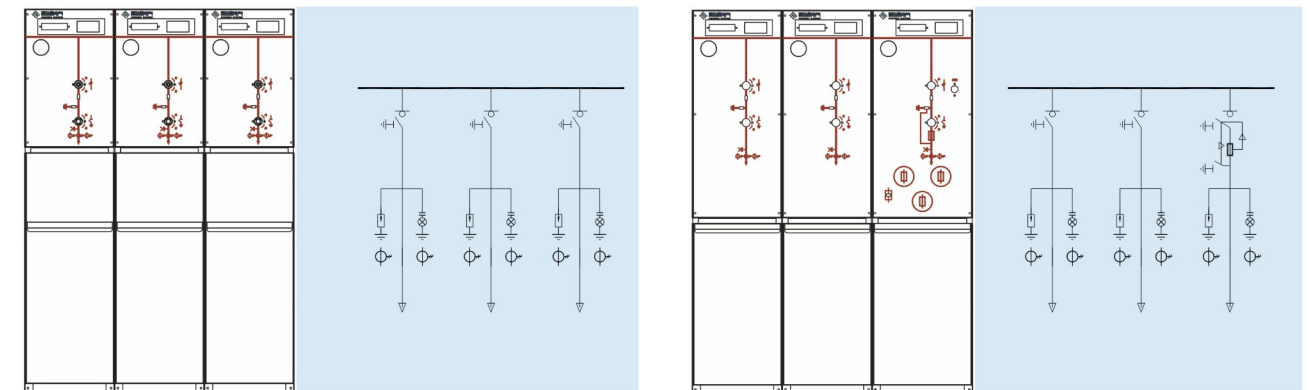
Typical Solution



RT

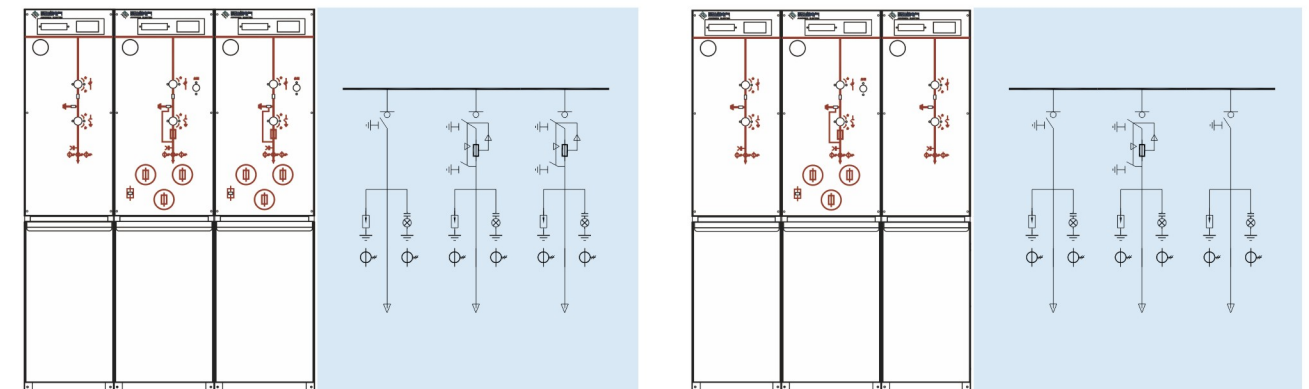
KT

Typical Solution



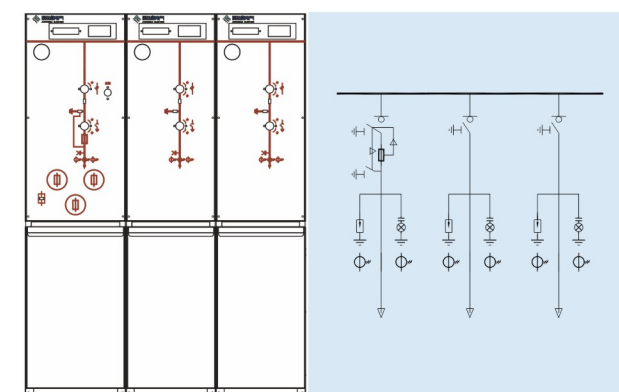
RRR

RRT



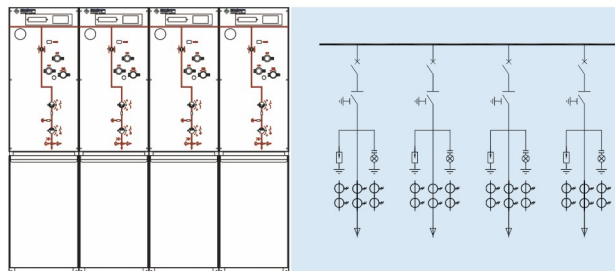
RTT

RTR

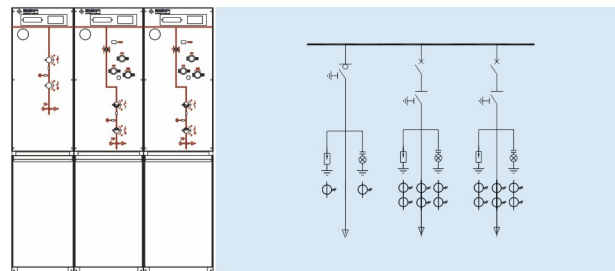


TRR

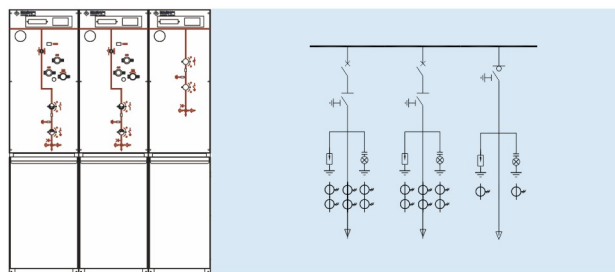
Typical Solution



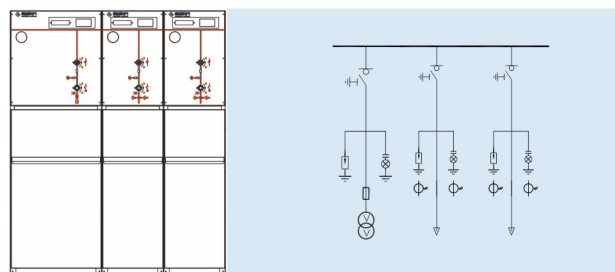
LLLL



RLL



LLR



R(PT)RR

Diemension of product

L*D*H,mm =1125*750*1950	3 units c/v
L*D*H,mm =1500*750*1950	4 units c/v
L*D*H,mm =1875*750*1950	5 units c/v
L*D*H,mm =1920/2100*750*1950	PT+4 units c/v
L*D*H,mm =2295/2475*750*1950	PT+5 units c/v
L*D*H,mm =2670/2850*750*1950	PT+6 units V

*Specification above are typical examples,for actual specifications please contact us.

Dimensions and Installation :

Unit	Width (mm)	Depth (mm)	Height (mm)	Mounting holes distan A: mm
R	375	750	1950	335
T	375	750	1950	335
L	375	750	1950	335
PT	420/600	750	1950	380/560
M	750	840	1950	710
K	375	750	1950	335

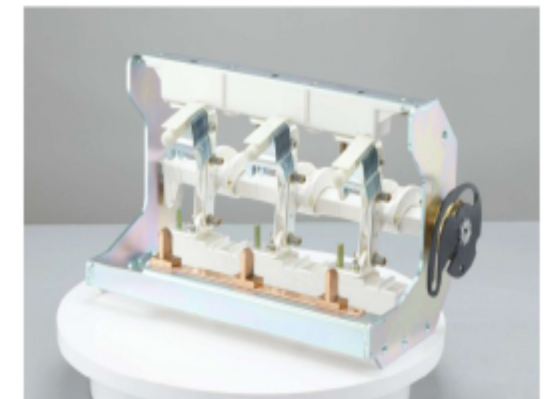
* 1950mm is including secondary low voltage room height

JFLN-12/630-25 Load-break Swicth

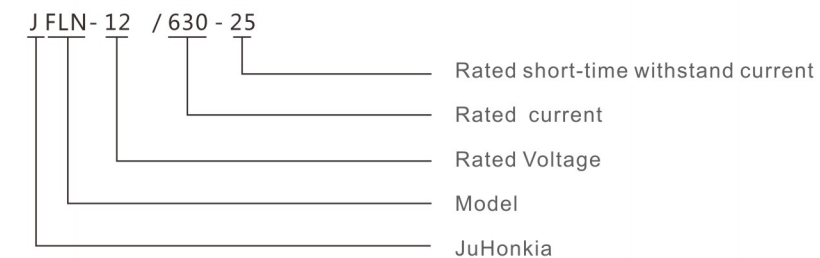
Product Description

JFLN-12/630-25 series load-break switches are specially designed for 12kV SF6 inflatable cabinet. The switches are mainly of rotary dynamic contact (blade type) structure, which are reliable and have good insulation performance. This series includes three-position and two-position load-break switches, while meeting the standard of GB1985-2004 " High-voltage alternating-current disconnectors and earthing switches " E3-M2 grade disconnectors.

JFLN-12/630-25 load-break switches are mainly used in our own JSR6-12(C)/630-25 inflatable cabinets or other similar types, as the main components of inflatable cabinets, to assume the main function, with the performance of the rated current, load current, and short-circuit current shutdown and so on.



Product Model



Service Conditions

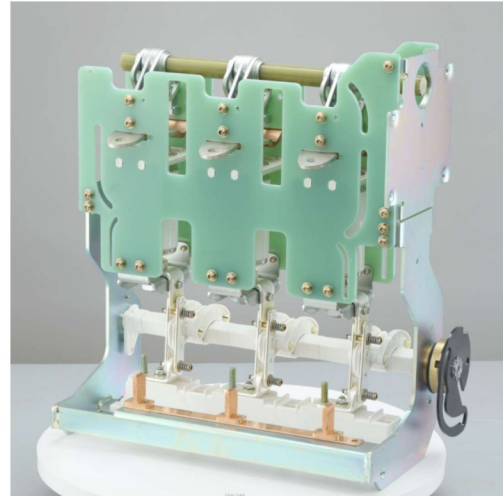
- Altitude: ≤7000m(If the altitude is more than 1000m, the user needs to negotiate with manufacturer when ordering.)
- Ambient temperature
 - Max. +55℃
 - Min.(indoor) -40℃
 - Average temperature not exceeding 35℃ in24h
- Humidity
 - Max. Daily average relative humidity ≤95%
 - Max. Month average relative humidity ≤90%
- Ambient air: Not affected by pollution, smoke, corrosive or combustible gas, salt spray and other environment
- Earthquake intensity: less than 9 magnitudes

VBJ-12/630-25 vacuum circuit breaker

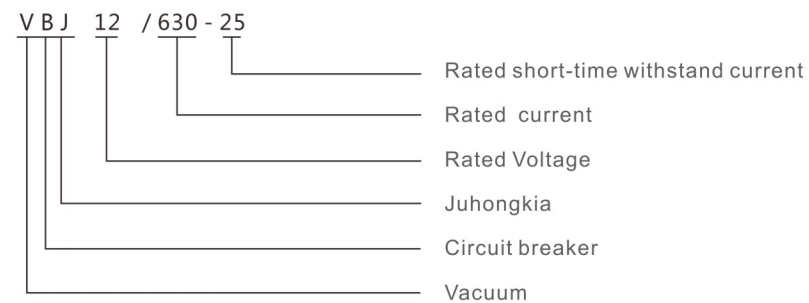
Product Description

VBJ-12/630-25 vacuum circuit breaker for 12kV SF6 inflatable cabinet special vacuum circuit breaker. The switch adopts plywood structure, which has the advantages of reliable breaking performance, long service life, maintenance-free and easy installation.

VBJ-12/630-25 vacuum circuit breaker is mainly used in our MGC-12(V)/630-25 inflatable cabinet or other similar types, as the main components of inflatable cabinets, to assume the main function, with the performance of the rated current, load current, and short-circuit current shutdown and so on.



Product Model



Service Conditions

- Altitude: ≤7000m(If the altitude is more than 1000m, the user needs to negotiate with manufacturer when ordering.)
- Ambient temperature
 - Max. +55°C
 - Min.(indoor) -40°C
 - Average temperature not exceeding 35°C in24h
- Humidity
 - Max. Daily average relative humidity ≤95%
 - Max. Month average relative humidity ≤90%
- Ambient air: Not affected by pollution, smoke, corrosive or combustible gas, salt spray and other environment
- Earthquake intensity: less than 9 magnitudes

Operating Mechanism

Product Overview

JSR6 series switchgear adopts the spring mechanism which is proven by decades of operating experience in the switchgear industry, and consists of a mechanical module and a motor module.

The motor module consists of pre-connected wires and circuit boards, which can be easily upgraded for manual operation, as well as replacement, overhaul and maintenance of circuit boards.

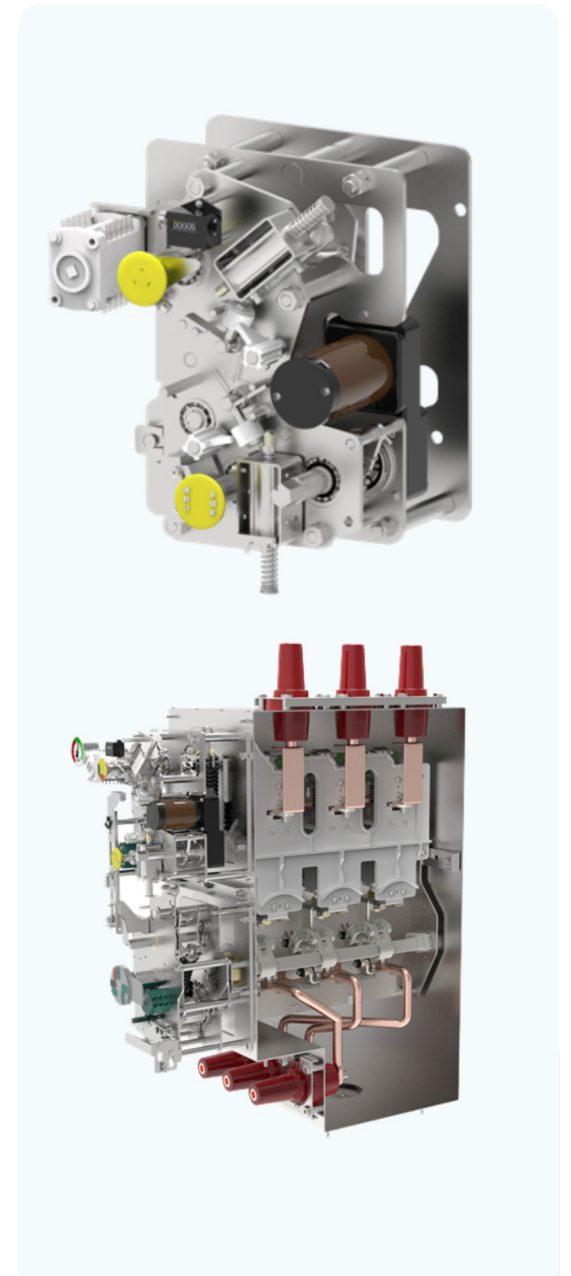
VBJ-1 Operating Mechanism (for Disconnectors)

A spring mechanism specially designed for use with 12/24kV inflatable ring main unit circuit breaker units.

- High reliability with comprehensive interlocking devices.
- Adaptable to the customer's gas tank by adjusting the welding screws.
- The technical parameters are perfectly adapted to the circuit breaker switch °
- The motor operation module is front-loaded, which is convenient for overhauling.
- The motor operation module is reserved for the secondary plug interface, which is convenient for the secondary wiring of the organization.
- With reclosing function, the rated operation sequence is 0-0.3s-C0-180s-CO.

Technical parameters

Mechanical endurance	20000times
Operational efficiency	85J
Output Angle	90°
Energy storage travel switch	2 normal closing and opening switches
auxiliary switch	6 normal closing and opening switches



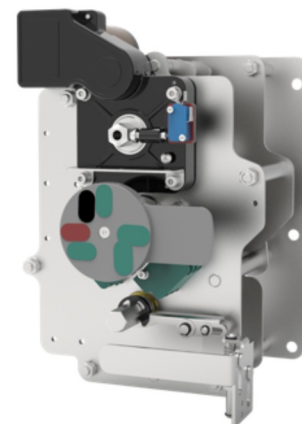
JFLN-1 Operating Mechanism

A spring operating mechanism is specially designed for use with 12/24kV inflatable ring main unit circuit breaker units.

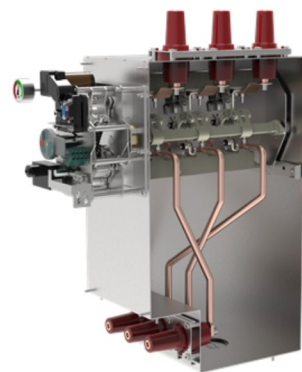
- The motor operation module can be added to the manual actuator to form an integrated manual-electric actuator.
- Rigid interlocking device between the switch and the cable room door plate to prevent the mis-entry of electric power.
- The motor operation module is front-loaded, which is convenient for overhauling.
- The motor operation module is reserved for the secondary plug interface, which is convenient for the secondary wiring of the organization.

Technical parameters

Mechanical endurance	10000times
Disconnected Closing Angle	82°
Disconnected Earth Angle	82°
Position Travel Switch	2 normal closing and opening switches



R柜操动机构



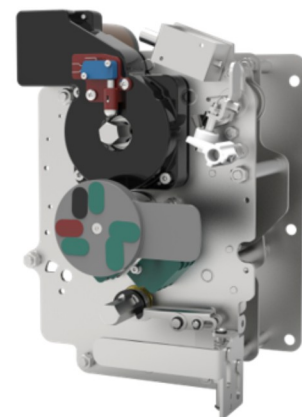
T柜操动机构

JFLRN-1 Operating Mechanism

Product Description

A spring operating mechanism specially is designed for use with 12/24kV inflatable ring main unit combined with rotary load-break and fuse combination electric unit.

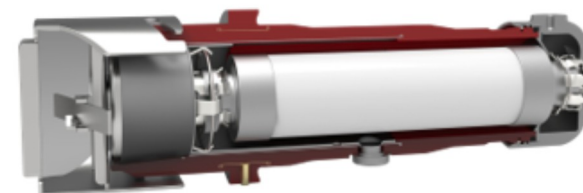
- Based on the JFLRN-1 actuator, fuse release interlock and release spring are added. It can be perfectly adapted to the load switch + fuse combination electrical unit in the inflatable ring main unit.
- The motor operation module can be added to the manual actuator to form an integrated manual-electric actuator.
- Rigid interlocking device between the switch and the cable room door plate to prevent the mis-entry of electric power.
- The motor operation module is front-loaded, which is convenient for overhauling.



Transformer and line protection

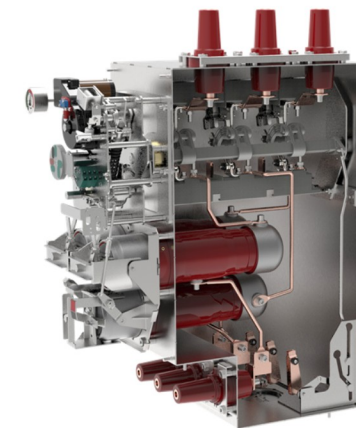
JSR6 series switchgear provides two kinds of transformer protection methods: load switch + fuse combination and circuit breaker with protection relay · which is especially suitable for the protection of small and medium-sized transformers.

Fuses for smaller overcurrent protection is more sensitive, for larger transformers and line protection, circuit breaker protection is generally needed.



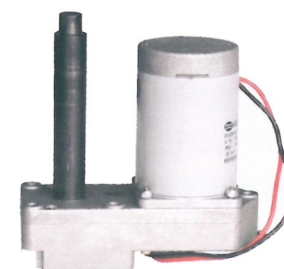
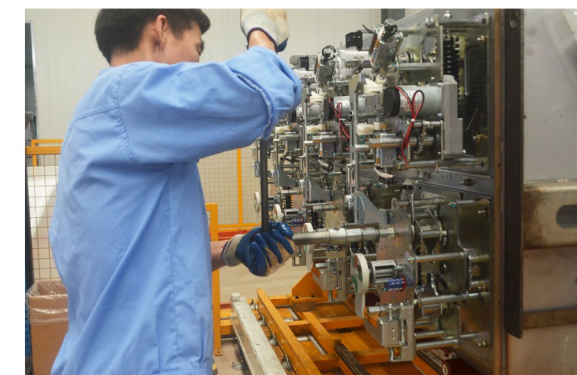
Load switch + fuse combination electrical protection

JSR6 series switchgear is protected by XRNT series fuses, which meets the requirements of IEC282-1,when choosing fuses, the rated current should be matched with the capacity of the transformer.



Accessories :

- Motorized Module
- Manometer
- Short circuit and earth fault indicator
- Auxiliary contacts(microswitch)
- Interlocking device
- Base
- Low voltage box



JQHWX-12/24 outdoor ring network box

Product Overview

JQHWX-12/24 outdoor ring network box is developed by summarizing the experience of safe and reliable operation of branch box with switch and combining with the technology of distribution network automation system. After installation and commissioning, it put 12kV switchgear, power supply PT cabinet, feeder FTU, RTU, communication control terminals, measurement and automatic reading, UPS power supply, etc. into a movable, sealed, moisture-proof stainless steel or non-metallic box, which can shorten the construction cycle, finally realizes the integration of primary and secondary systems and the modularization of assembly in urban distribution networks.



Product Model

JQHWX □ -12(24) /630-25

Rated short-time withstand current
Rated Current
Rated Voltage
Designed Number
Outdoor ring network box

Outdoor service condition:

Ambient temperature : Max +40°C
Min-10°C
24h average ≤35°C
Max. Daily average relative humidity ≤95%
Max. Month average relative humidity ≤90%
No explosion, fire danger, chemical corrosion, and violent vibration
Altitude not exceed 1000m
Except for the above-mentioned conditions, any harsh environmental or special operational condition should be negotiated by the customer and the manufacturer when placing



Description of the product

The customer can choose a variety of materials enclosure
The enclosure color coordinated with surrounding environment;
The access doors shall be provided with door stoppers/retainers,locks and gaskets and have sufficient strength;
The inclination of the enclosure head is not less than 5 degrees,and fortify the rain eaves, top of the casing for condensation of diversion. Louvers are provided in the external walls of the enclosure, to assure a free circulation of air by natural convection;
The enclosure with reliable sealing performance, which can prevent moisture from the cable trench and small animals into the substation. The action of the enclosure doors are against the ingress of sand, dirt, vermin and rain water. The IP code of outdoor enclosure is Ip44;
The substation establish special grounding conductor, the grounding conductor which equipped with fixed connection terminals connected to the grounding network;
The switchgear is fully SF6 gas insulated RMU, do not need a heater to avoid condensation problems.



stainless steel ring network box



Advertising light box outdoor ring network box



Laser painted ring network box



Landscape ring network box

JSR6 series switchgear

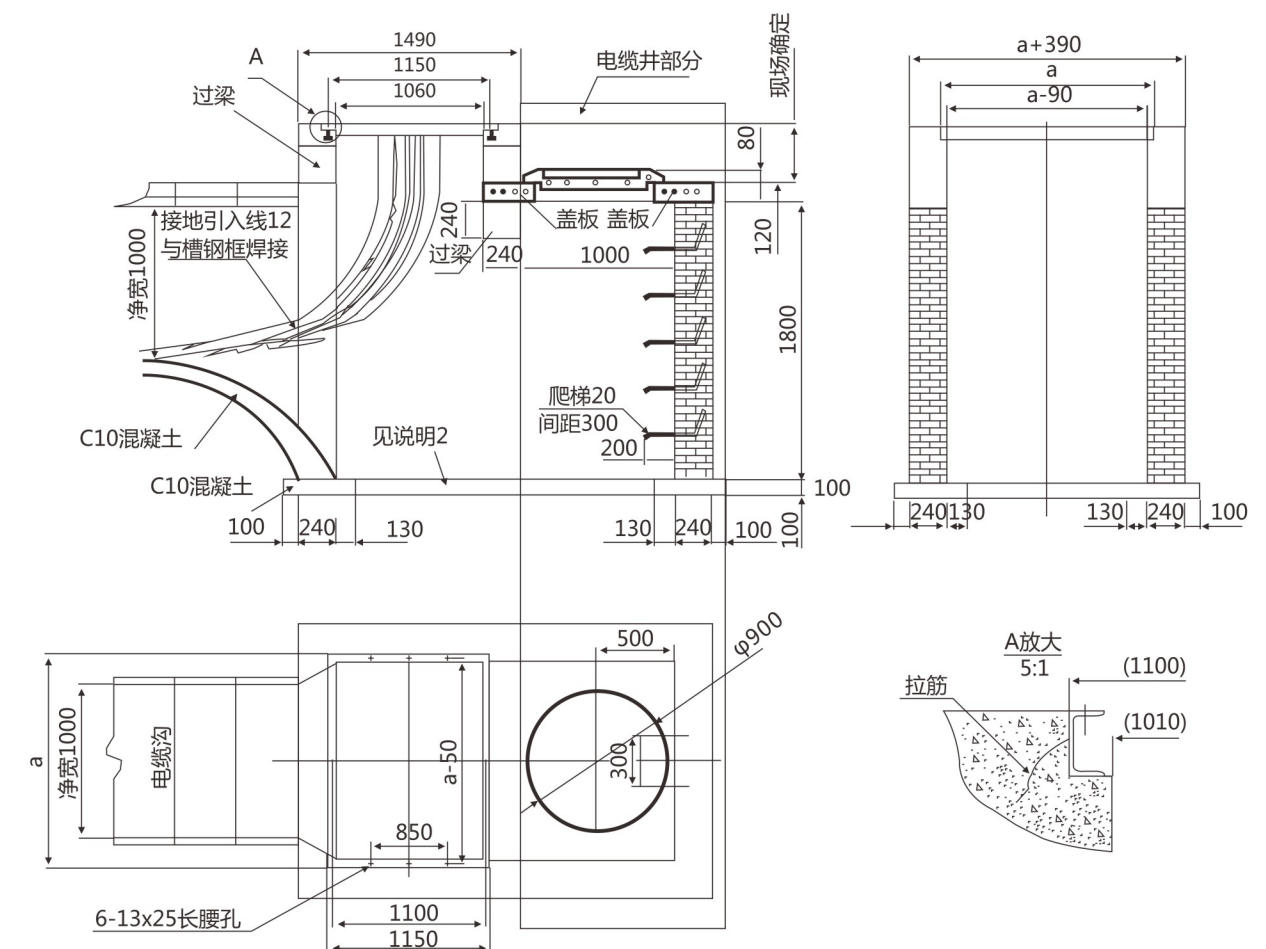
1. Through the control of mechanism and electrical interlocking device, the operation fully achieves the following five preventive interlocking functions:
A. Preventing wrong opening and closing of circuit breakers/load break switch;
B. Preventing the load break -disconnecter switch from being opened and closed;
C. Preventing the closing of live earth switches;
D. Preventing the grounding of circuit breaker/load break switch/disconnector switch.
E. Preventing mis-entering the live intervals;
2. JSR6 series switchgear primary energized part (main busbar) and switch body are sealed in stainless steel plate welded of the gas tank, the main circuit is connected through the sleeve installed in the gas tank, which meets DIN47636 standard, can be combined separable connectors and inlet and outlet cables fully insulated and shielded. The gas tank protection level reach to IP67, the inside of the gas tank is not affected by the external environment, and has the function of anti-flood water in a short time and daily anti-condensation.
3. JSR6 series switchgear can be combined into non-expandable fixed-type ring-type switchgear (up to 6 units can be achieved in the same SF6 insulated gas tank) through a variety of standard unit modules, but also can be designed as an expandable unit by combining different modules, through the special fully insulated and shielded busbar continuity, to realize the combination of multiple forms, to achieve the full modularity, which can meet the needs of different regions, different forms, and different customers, providing diversified power supply and distribution design solutions.



Technical parameters

No.	Items		Unit	Parameter
1	Rated Voltage		kV	12/24
2	Rated Frequency		Hz	50
3	Rated Current		A	630
4	Rated power frequency withstand voltage()min		kV	42/65
5	Rated lightning impulse withstand voltage		kV	75/125
6	Rated short withstand current		KA/s	25/4
7	Rated withstand current(peak)			63
8	Rated short circuit closing current			63
9	Rated short circuit breaking current			25(Circuit breaker)
10	Rated transfer current			1700
11	Rated active load breaking current		A	630
12	Rated closed loop breaking current		A	630
13	Mechanical endurance	Circuit breaker	Times	20000
		Load break switch		10000
		Disconnecter/Earth switch		5000
14	Rated operating pressure(at 20°,gauge)		MPa	0.04
15	Gas leakage rate per year		%	0.05
16	Gas tank protection degree		IP	IP44/IP67

Technical parameters



Description:

1. MS Brick wall need cement mortar masonry construction, inside and outside on the ground using with 1:2.5 cement mortar coating
2. The ground floor is waterproofed when it is below the groundwater level, otherwise water seepage treated;
3. Over the beam is used. 6 steel bars and risk 20 production;
4. After 10 # channel steel base processing group welding, anti-corrosion treatment is needed. (users decide the way of anti-corrosion).
5. 10 # channel steel base place in the base groove with reinforcement and insurance fixed
6. The user can choose to whether make cable wells according to the site condition. (dotted line box part)
7. Product size can be implemented according to the actual size

Product storage and maintenance

1. During transportation and loading/unloading, inversion, strong vibration and collision are forbidden.
2. the products should be stored in dry, ventilated, moisture-proof indoor or warehouse, long-term storage needs to be lubricated in the transmission parts of the protective treatment and regular inspection of environmental conditions, the product storage life is 15 years;
3. Every 3-5 years need to take a small check on the operating productis, mainly check the wear and tear of the moving parts of the mechanism and the condition of the fasteners, remove the dust on the surface of the insulating parts, and add lubricants to the movable parts.

Order Information

The following information should be supplied by users when ordering:

Primary circuit diagram, including rated voltage, rated current and short circuit capacity of incoming line

Secondary circuit electric diagram, including the rated current of operation, signal and protection circuit as well as the type and specification of each electric component

The arrangement of cubicle and layout dimension

The type, specification and quantity of component inside the cubicle

Mandatory spare parts list

If any special requirement, please discussing with manufacturer when ordering