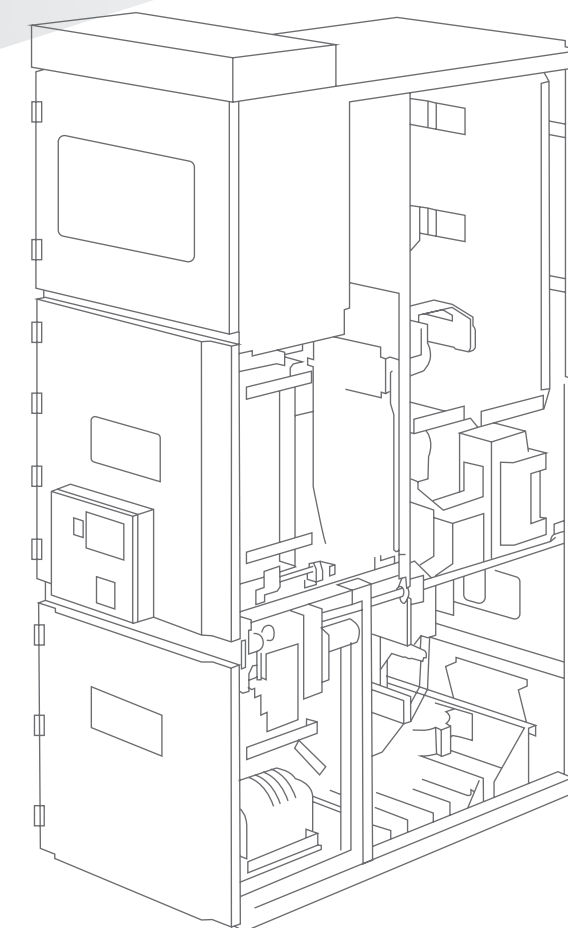


HIGH VOLTAGE SWITCHGEAR PRODUCT SELECTION MANUAL



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Phone: 437-603-1137

Email: info@zivaelectric.com

CONTENT

002 - 007	550MM SWITCHGEAR SYSTEM ACCESSORIES & ONE-STOP TECHNICAL SOLUTIONS
008 - 015	12KV CIRCUIT BREAKER OPERATING MECHANISM ASSEMBLY
016 - 036	12kv MOTORIZED/MANUAL CRADLE
037 - 050	12kv-40.5kv EARTHING SWITCH & INTERLOCKING DEVICES
051 - 062	12KV SHUTTER MECHANISM & GUIDE RAILS
063 - 086	KYN61 SWITCHGEAR ACCESSORIES
087 - 089	40.5KV MOTORIZED/MANUAL PUSHING MECHANISM
090 - 093	40.5KV CIRCUIT BREAKER OPERATING MECHANISM ASSEMBLY
094 - 099	KYN61 SWITCHGEAR FIVE-PREVENTION INTERLOCK ACCESSORIES
100 - 105	SWITCHGEAR CONTACT COPPER COMPONENTS
106 - 107	CIRCUIT BREAKER LIFTING TROLLEY
108 - 113	ACCESSORIES FOR KYN28 MID-MOUNTED SWITCHGEAR (2ND GENERATION)

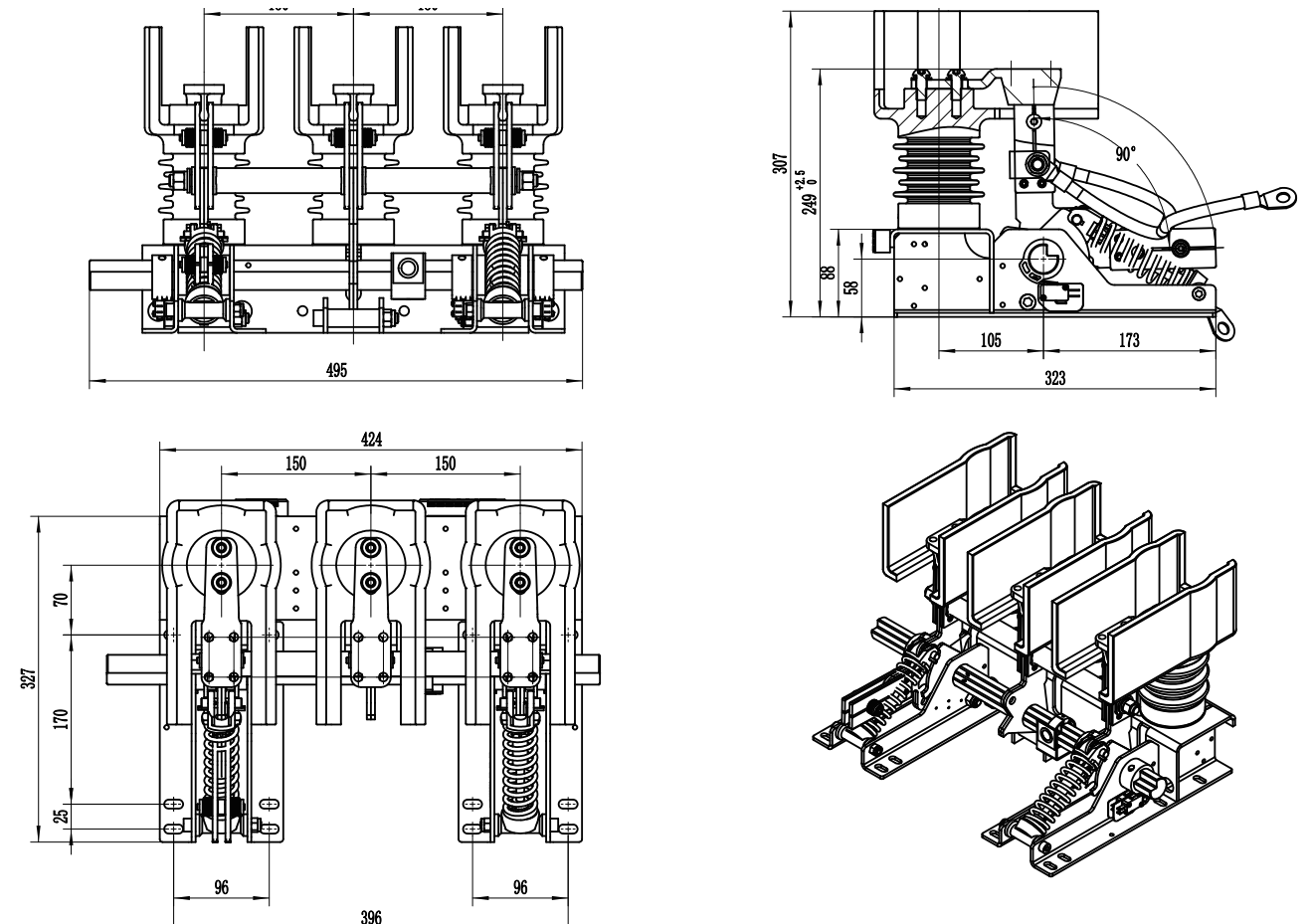
ACCESSORIES FOR 550 PRIMARY AIR INSULATED SWITCHGEAR



Solutions Related to 550 Switchgear

NO.	Item	Drawing
6	Cradle (28-cabinet Compact Structure) (Electrically Operable) DPC-4-550	
7	Grounding Interlock (Electrically Operable) ((Net Cabinet Depth: 1450, 600, 550; Rear Column 40 Scheme) KYN.5XJ.363.010.6/600	
8	Right Guide Rail with Guide Rail Interlock Assembly(Aluminum)(550)(VD4) KYN.5XJ.260.205.23/550 Left Guide Rail (Aluminum, 550) KYN.5XJ.260.205.10/550 Grounding Method for VS1 and VD4 is Optional	
9	Valve Mechanism (550, VD4, Iron Sleeve) KYN.6XJ 320.010/550	
10	Earthing Switch(550) SKJ-JN15-12/31.5-150(550)-L/H(3030-35)	

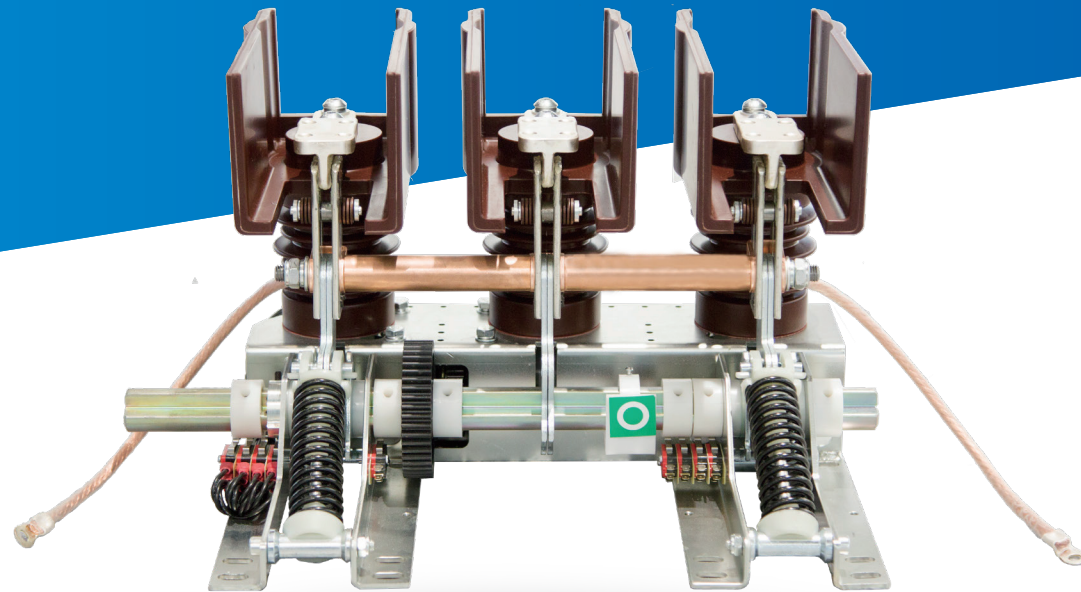
Dimensions



Main Technical Parameters

Item		Unit	Parameter
rated voltage		kV	12
rated short-time withstand current		kV	31.5
rated short-circuit duration		A	4
rated short-circuit making current		kA	80
rated peak withstand current		kA	80
rated insulation level	power-frequency withstand voltage(1min)	Ph-E & Ph-Ph	42
	lightning impulse withstand voltage		75
mechanical endurance		Time	3000

(JN15)-12/31.5 Earthing Switch



Product Overview

SKJ(N15)-12/31.5 Indoor High-Voltage Earthing Switch is manufactured by our company with advanced technology, featuring a modular assembly structure and offering international advanced performance.

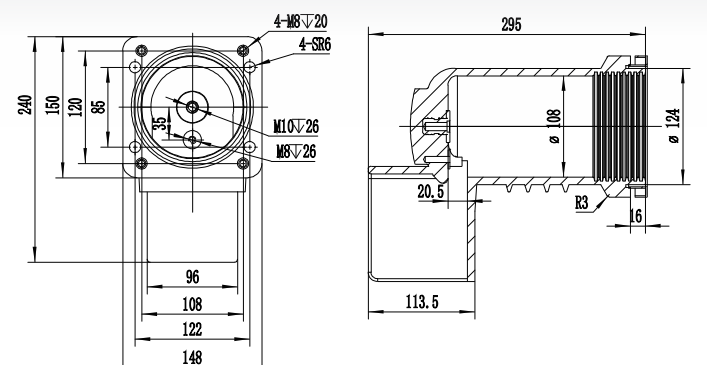
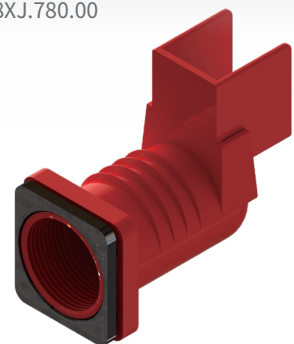
Its performance meets GB/T 1985-2014 "AC High-Voltage Disconnectors and Earthing Switches" and IEC 6271, suitable for 3-12kV, 50Hz three-phase AC power systems. It has short-circuit making capacity to protect other equipment in the switchgear, compatible with various switchgear cabinets and providing earthing protection during maintenance of high-voltage equipment.

Product Features

-  The earthing switch has a compact structure and flexible operation.
-  Simple structure, easy to install and adjust.
-  Meets mechanical life ≥ 3000 cycles.
-  Salt spray test can reach over 120 hours.
-  A full-metal solution can be selected according to usage requirements.

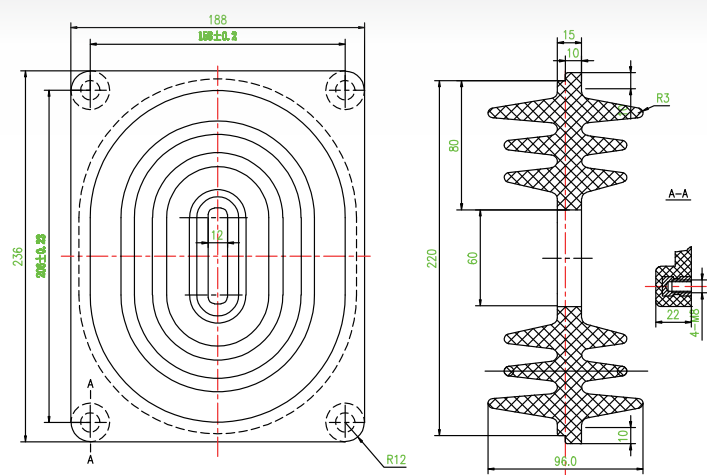
Contact Box Ch3 type-10q-150

SKJ.8XJ.780.00



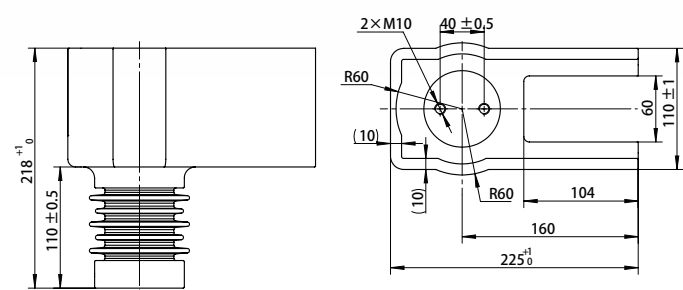
Wall bushing

KYNG.8XJ.775.04



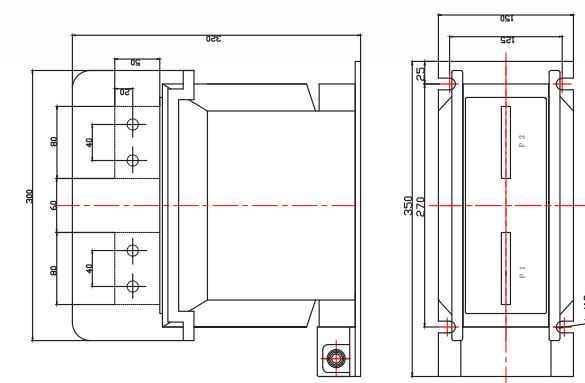
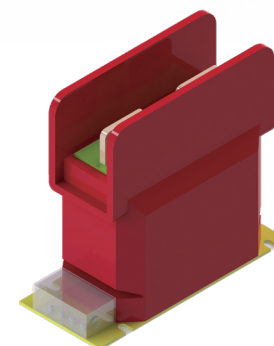
Integrated insulator

SKJ.8XJ.780.006.1



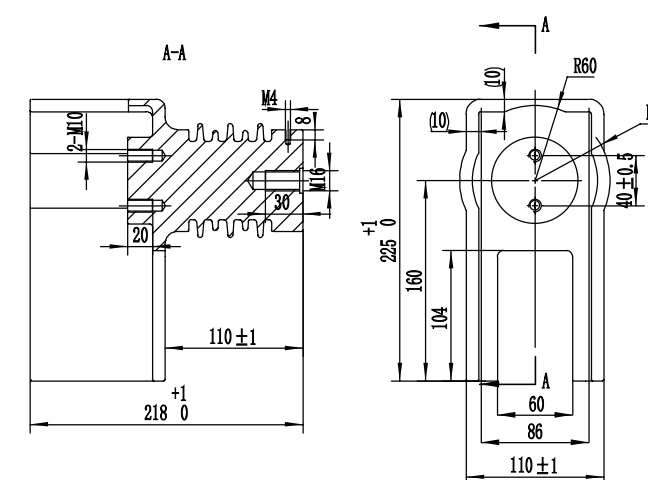
Current transformer

KYNG.8XJ.775.046

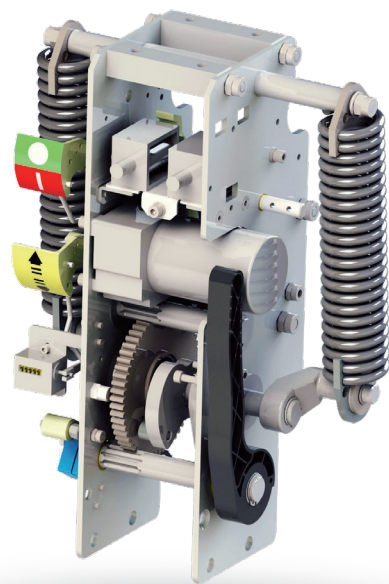
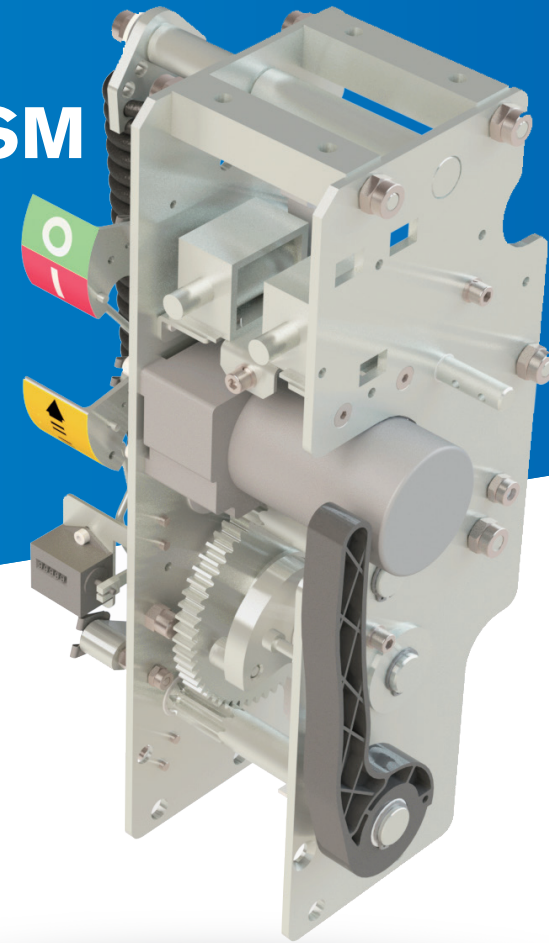


Integrated sensor

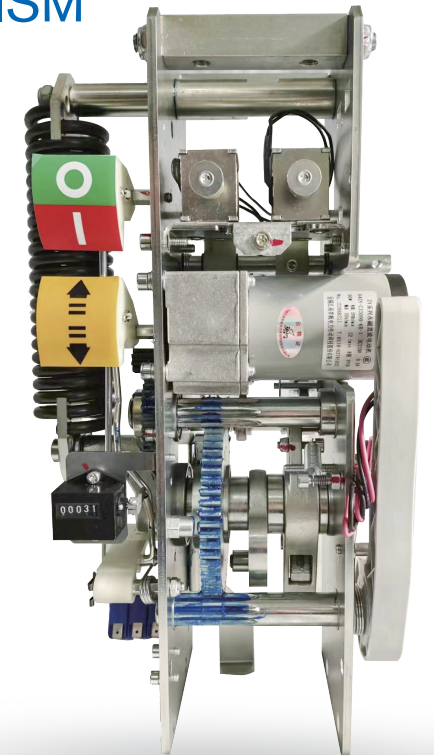
SKJ.8XJ.780.006



YAOZE SKM-12 MODULAR CIRCUIT BREAKER MECHANISM



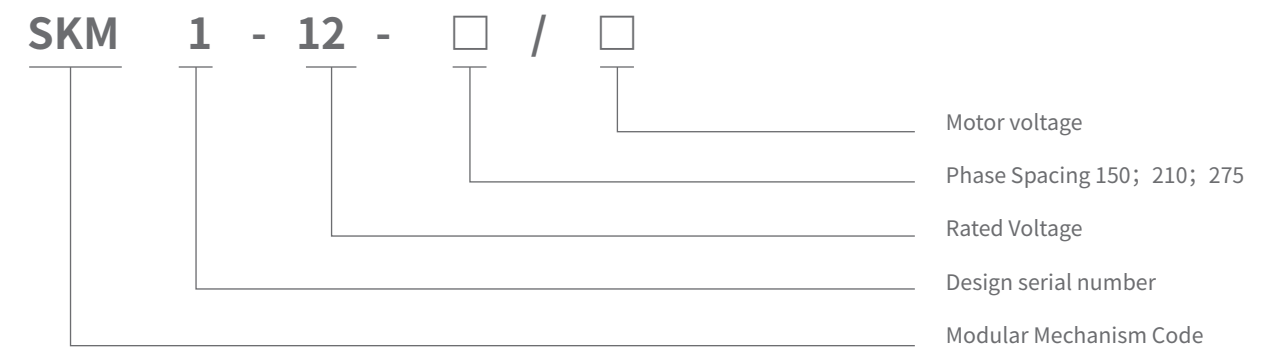
SKM-12 CIRCUIT BREAKER SPRING OPERATING MECHANISM



Product Overview

The spring operating mechanism adopts an independent design from the frame. It can be used either as a fixed installation unit or assembled with a withdrawable truck to form a draw-out unit. It features long service life, simple maintenance, no pollution, no explosion risk, and low noise, and is suitable for harsh working conditions such as frequent operations.

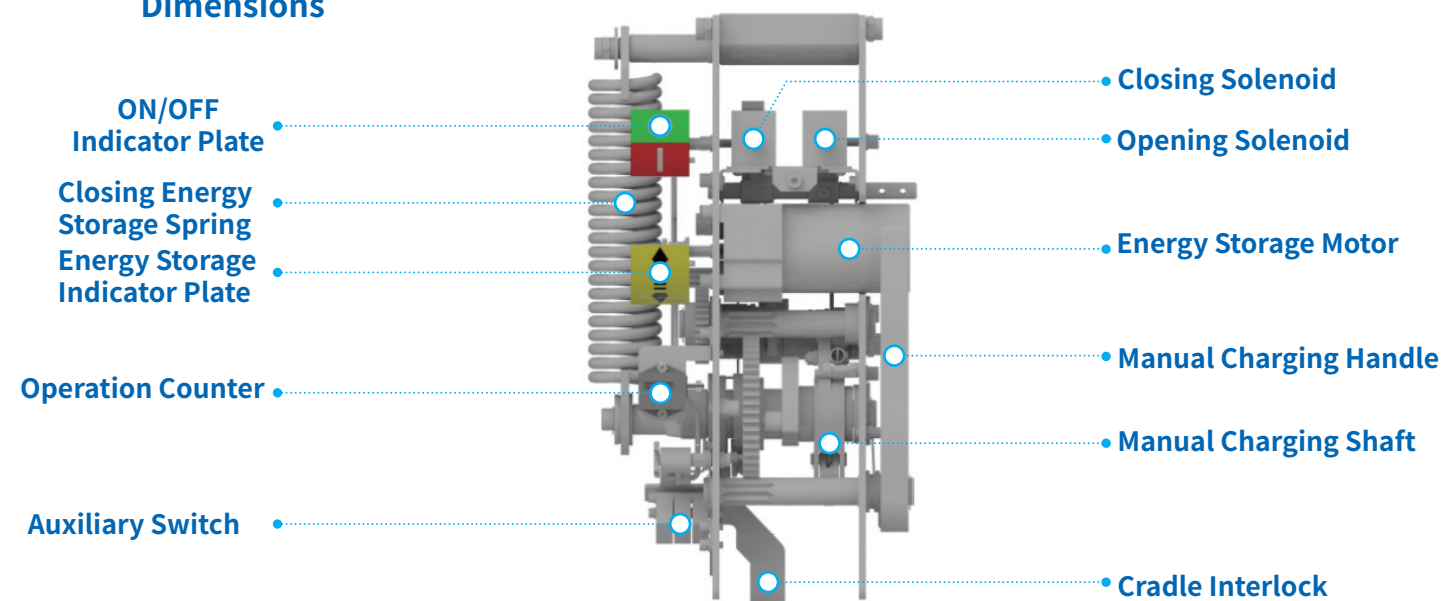
Model Composition And Meaning



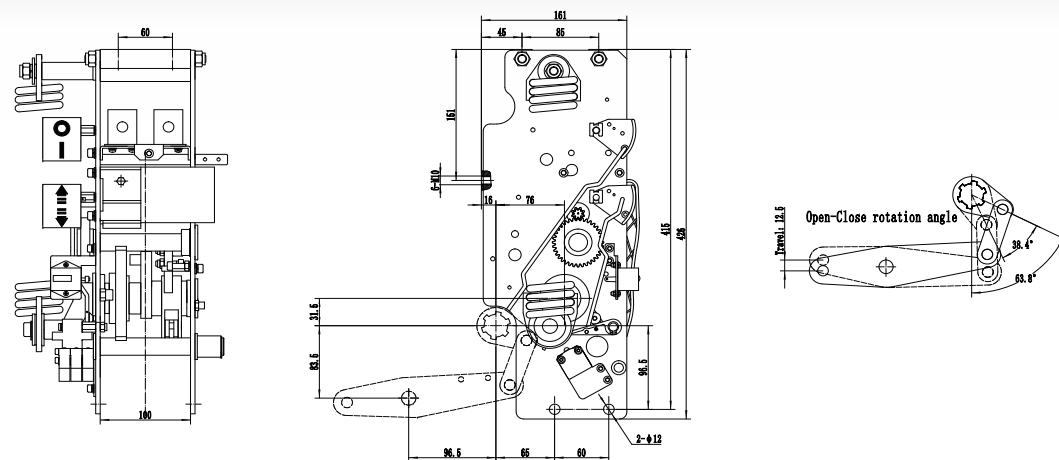
Product Features

-  The spring operating mechanism adopts an innovative modular design.
-  Optional phase spacing and pole spacing to meet various special requirements.
-  Stable mechanical and electrical performance, high reliability, with a mechanical life $\geq 30,000$ operations.
-  The operating mechanism can be equipped with an online monitoring system for mechanical characteristics.

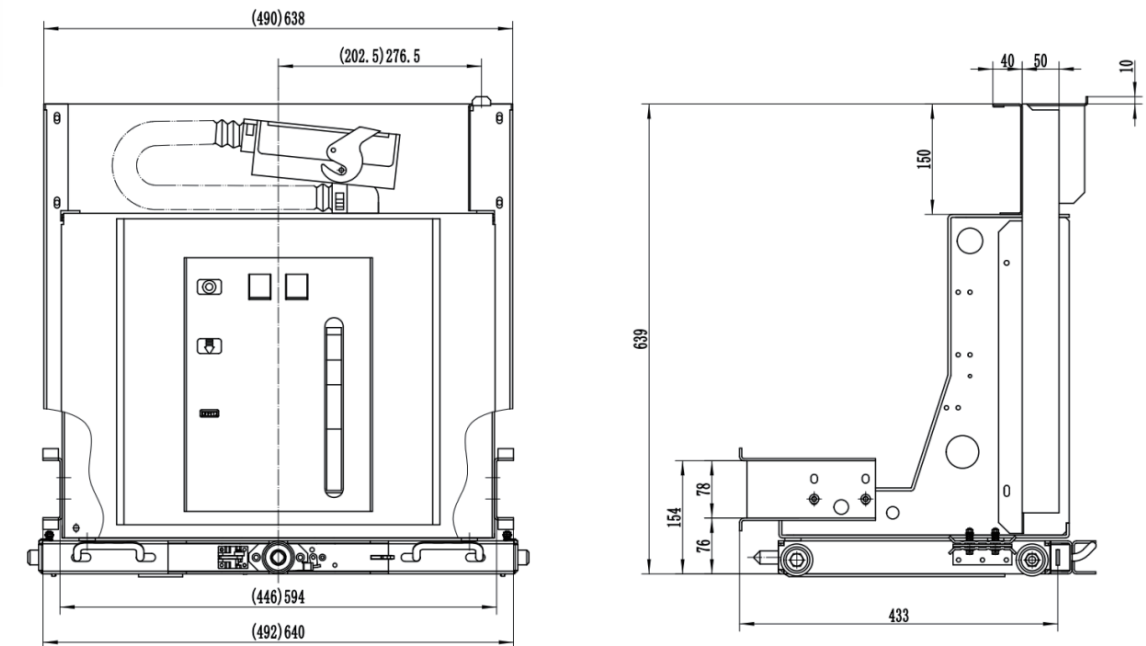
Dimensions



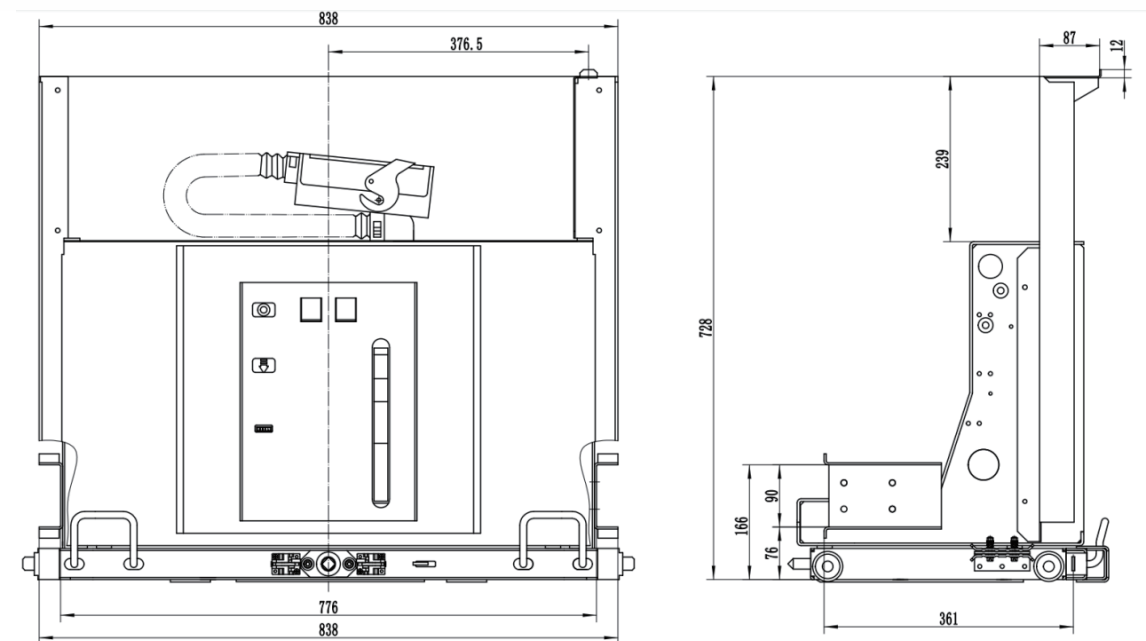
Outline of CB Mechanism (650/800/1000 mm)



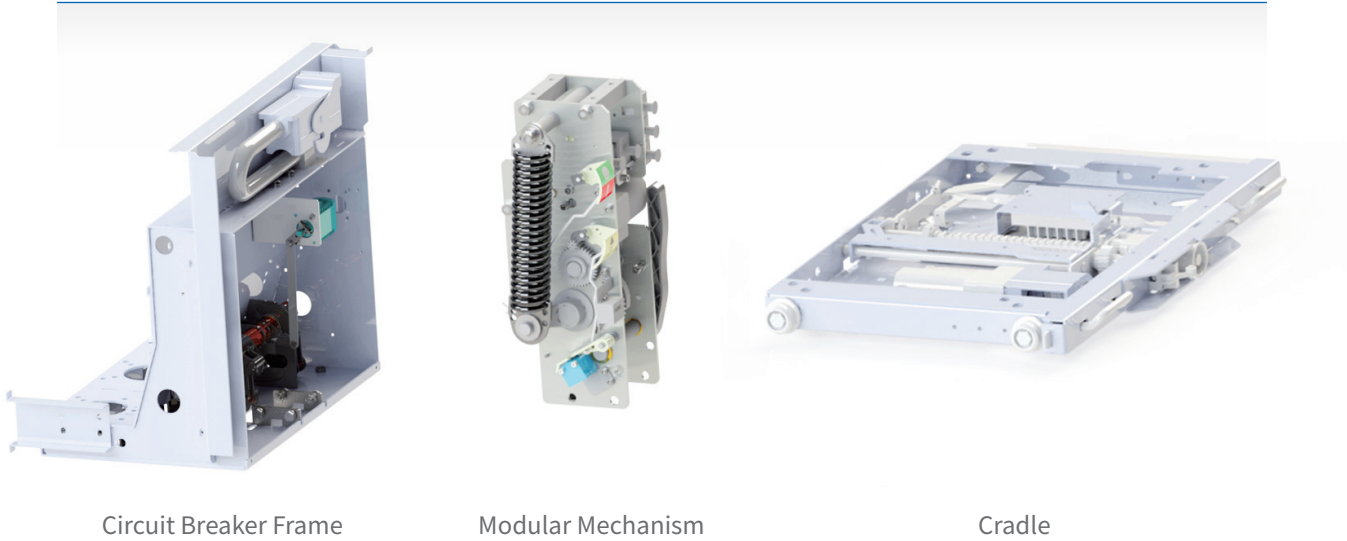
Mounting Outline for 650/800mm CB Frame



Mounting Outline for 1000mm CB Frame

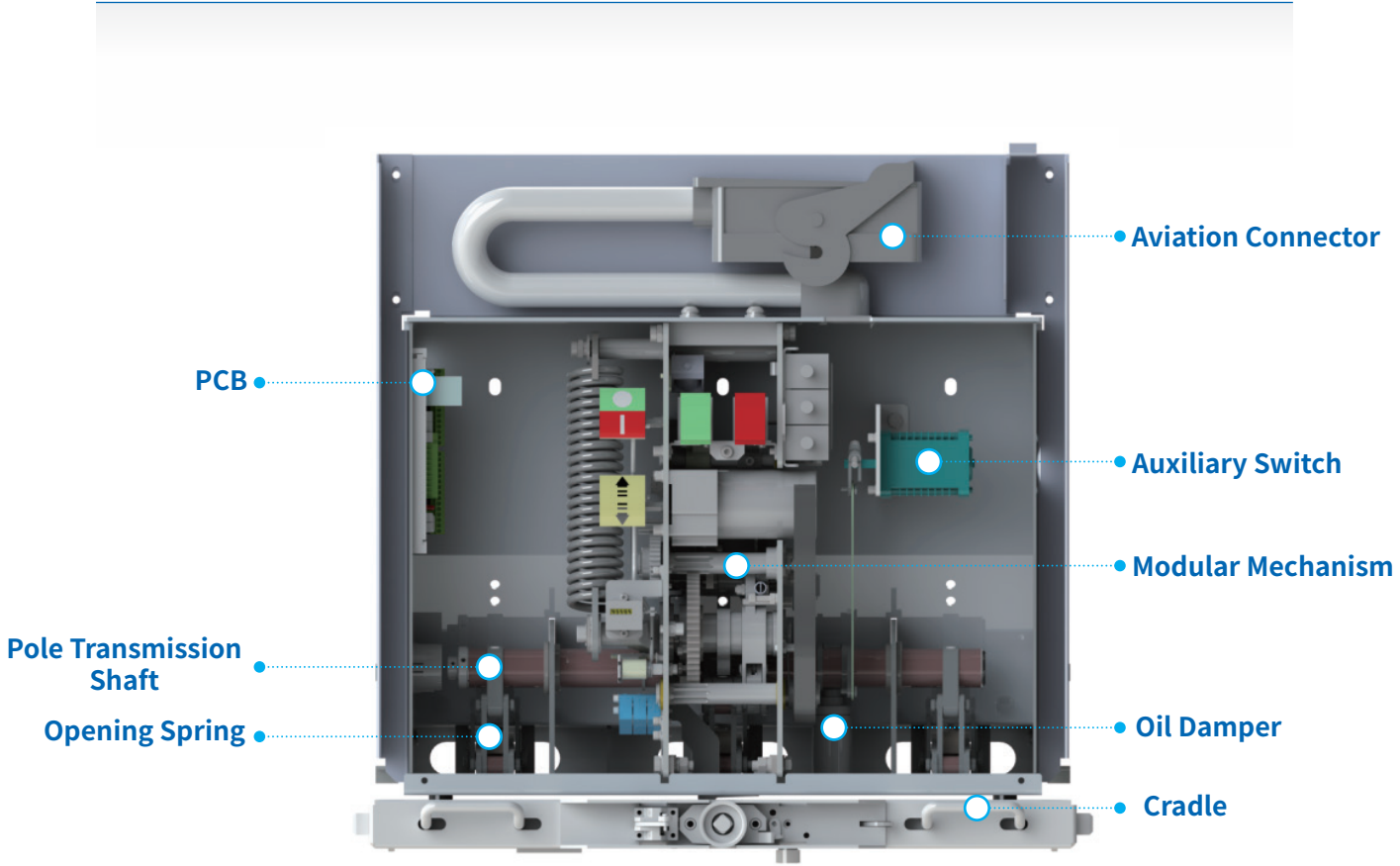


Selection Table



Model	Image	Cabinet Width	Model
Modular Mechanism		650mm 800mm	SKM1-JG-800
		1000mm	SKM1-JG-1000
Circuit Breaker Frame		650mm 800mm 1000mm	SKM1-KJ-650 SKM1-KJ-800 SKM1-KJ-1000
Cradle (Motorized or Manual)			800mm

Circuit Breaker Assembly (without Poles)



Main Parameters of Closing and Opening Electromagnets and Related Electrical Components

Item	Closing Solenoid		Opening Solenoid		Interlocking Solenoid		Anti-pumping Relay	
Rated Op. Voltage (V)	DC220	DC110	DC220	DC110	DC220	DC110	DC220	DC110
Rated Op. Current (A)	1.1	2.2	1.1	2.2	25mA		9.1mA	
Rated Power (W)	242	242	242	242	2.7		1	
Operating Voltage Range	85% -100% Rated Voltage		65% -120% Un open; <30% Un no open.					



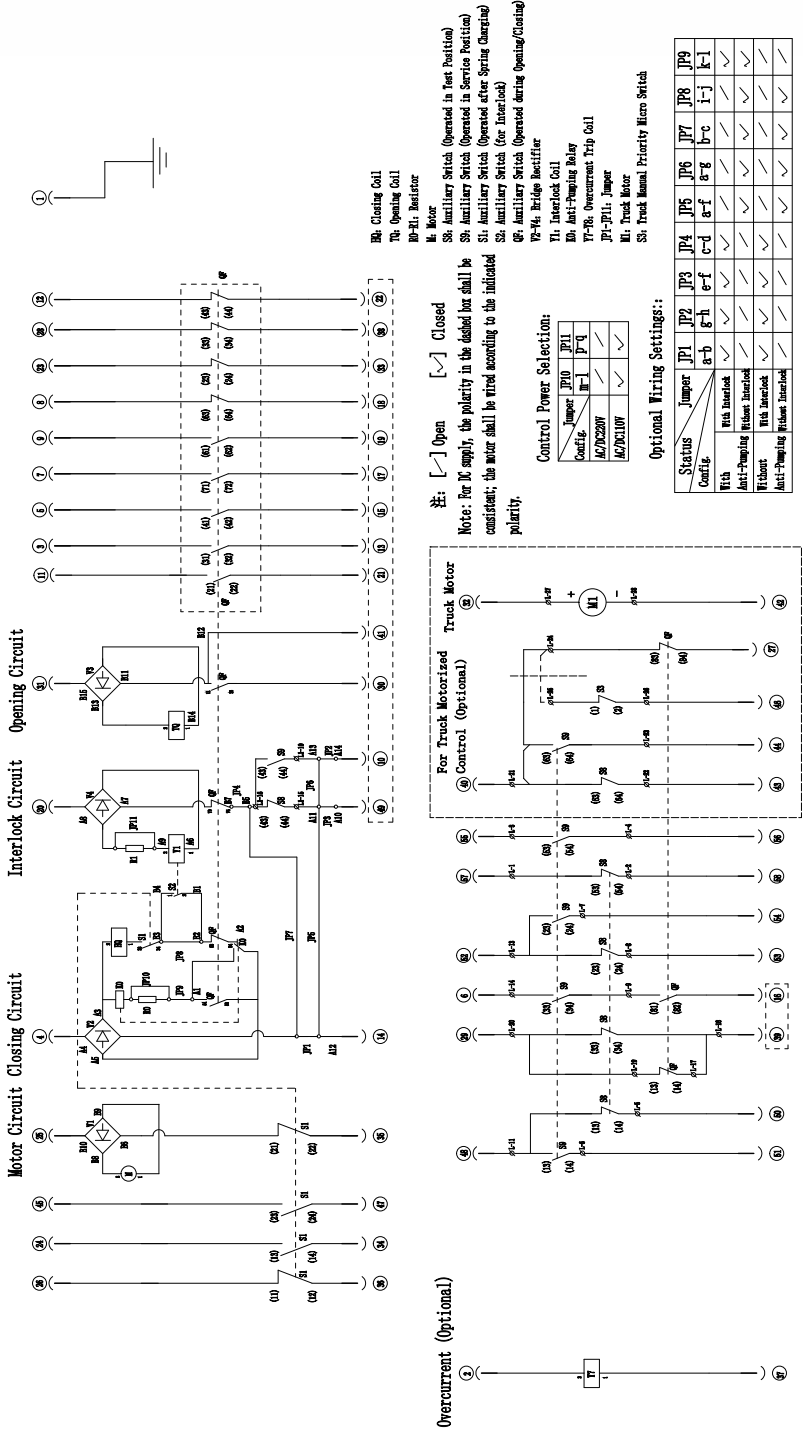
Technical Parameters of the Energy Storage Motor

Model	Rated V.	Rated Power	Operating Voltage Range	Energy Storage Time
64ZY-CJ □ □ -6B-1	DC110V	90W	85% -110%	≤ 10S
	DC220V			

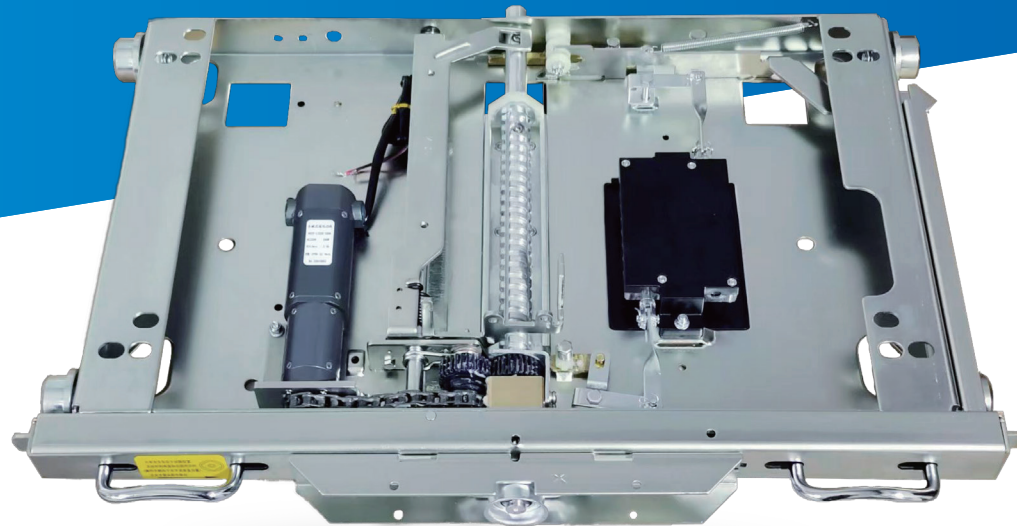
Main Technical Parameters

Item		Unit	Parameters			
Rated Voltage		kV	12			
Maximum Operating Voltage		kV	12			
Rated Current		A	630	630	1250	1600
			1250	1250	1600	2000
					2000	2500
					2500	3150
						4000
Rated Short-circuit Breaking Current		kA	20	25	31.5	40
Rated Short-circuit Making Current		kA	50	63	80	100
Rated Peak Withstand Current		kA	50	63	80	100
Rated Short-time Withstand Current (4 s)		kA	20	25	31.5	40
Rated Insulation Level	Power Frequency Withstand Voltage (Before/After Rated Breaking)	kA	42 (Contact Gap48)			
	Impulse Withstand Voltage (Before/After Rated Breaking)		75 (Contact Gap 85)			
Rated Operating Sequence			0-0.3s-CO-180s-CO			
Mechanical Life		Times	20000			
Number of Breaks at Rated Short-Circuit Current		Times	50			
Operating Mechanism Rated Closing Voltage (DC)		V	110, 220			
Operating Mechanism Rated Opening Voltage (DC)		V	110, 220			
Contact Gap		mm	9±1			
Contact Travel		mm	3.5±0.5			
Contact Bounce Time on Closing		ms	≤ 2			
Phase-to-Phase Asynchronous Opening/Closing		mm	≤ 2			
Opening Time		ms	≤ 50			
Closing Time		ms	≤ 100			
Average Opening Speed		m/s	1.1±0.2			
Average Closing Speed		m/s	0.6±0.2			
Contact Pressure		N	20kA	25kA	31.5kA	40kA
			2000	2400	3200	4750
Main Circuit Resistance per Phase		uΩ	60		50	

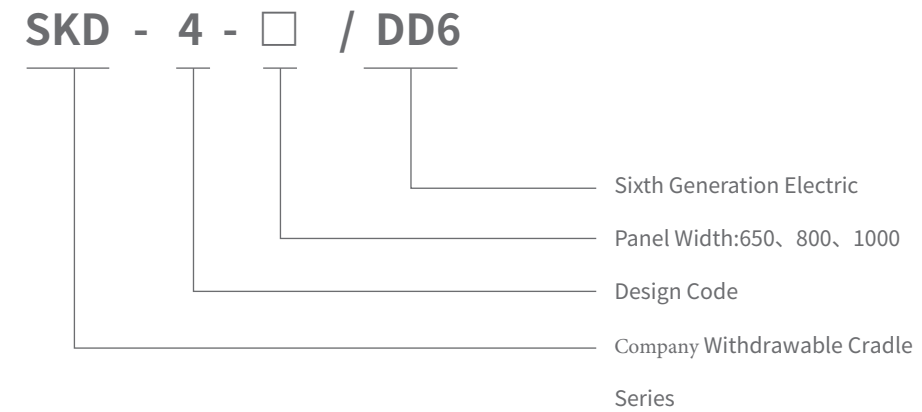
SKM-12 Electrical Schematic Diagram of Vacuum Circuit Breaker



SKD-4-800/DD6 ELECTRIC CRADLE



Model Composition And Meaning



The overall dimensions of the withdrawable cradle are the same as the manual type, with no need to modify the panel frame.

Product Overview

Our company is the first in China to independently develop electric cradles. Since its initial development, the product has evolved to the sixth generation. From the third generation onward, a horizontal motor design has been adopted (Patent No.: CN201498909U). The sixth-generation electric cradle features a cylindrical motor design, further optimizing the overall structural layout. The motor is more compact, safe, reliable, and offers higher stability.

Product Features

-  Simple structure, strong versatility. Suitable for compact switchgear.
-  Spray test ≥ 96 hours.
-  Auxiliary switch: integrated design, better insulation.
-  The mechanical life can reach ≥ 3000 racking in/out operations.
-  Equipped with various control modules, supports 110V/220V control voltages.

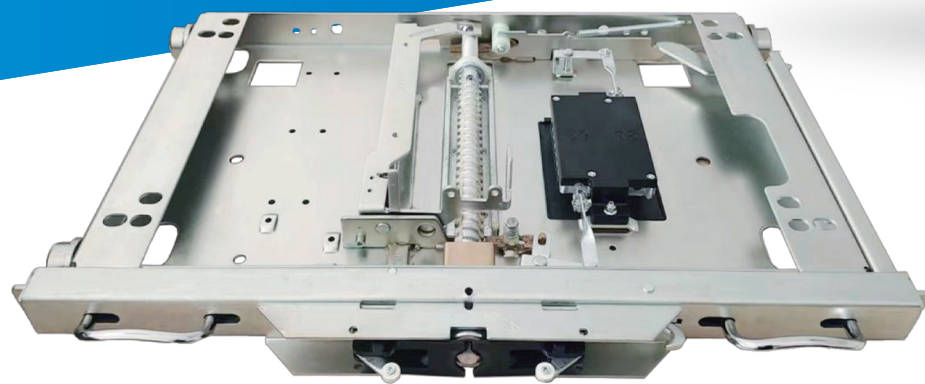
Product Features

-  Same dimensions as manual cradle; no frame modification. manual truck height.
-  A miniature permanent magnet motor is used,
-  The electric/manual switching clutch disengagement is easier.
-  Manual priority function can be added as required (DD6S).
-  The latest door interlock function can be added as required (DD6/S6).
-  Compatible with our standard modules.

SKD-4-800/S6 CRADLE (MODULAR PATENTED PRODUCT)



S6 Door Interlock Module
Patent No: CN219106895U



Product Features

- △ Compared with traditional door interlock modules, it is more stable and reliable.
- 🔒 When the cabinet door is not closed, the handle cannot be forcibly inserted.

Type	A
SKD-4-650/S6	101
SKD-4-800/S6	130
SKD-4-1000/S6	

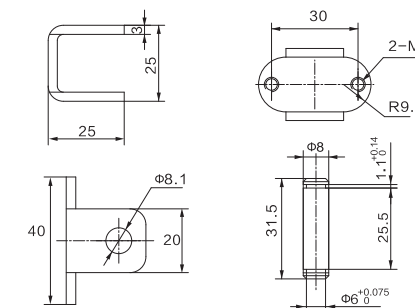
SKD Cradle Door Interlock Function

SKD- □ - □ /S6 Cradle

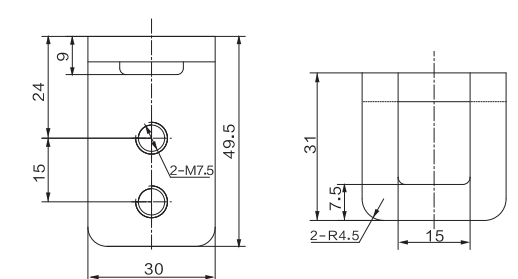
This chassis model adds a door lock interlock function on top of the first item. That is, after the handcart leaves the test position, the cabinet door is locked and cannot be opened. Only when returned to the test position can the door be opened. This interlock function requires modification of the cabinet door.

Note: The door interlock block structure is basically the same as the original /S and /S5, with no significant difference in appearance. It uses a modular structure for easy installation and replacement.

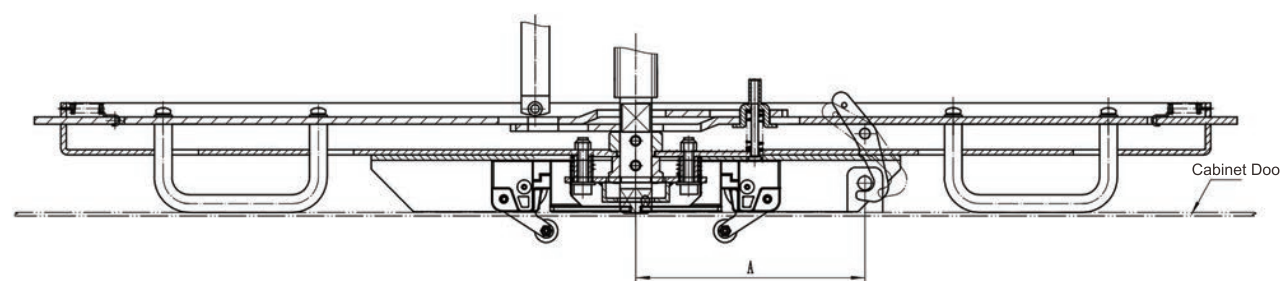
Mode 1:



Mode 2:



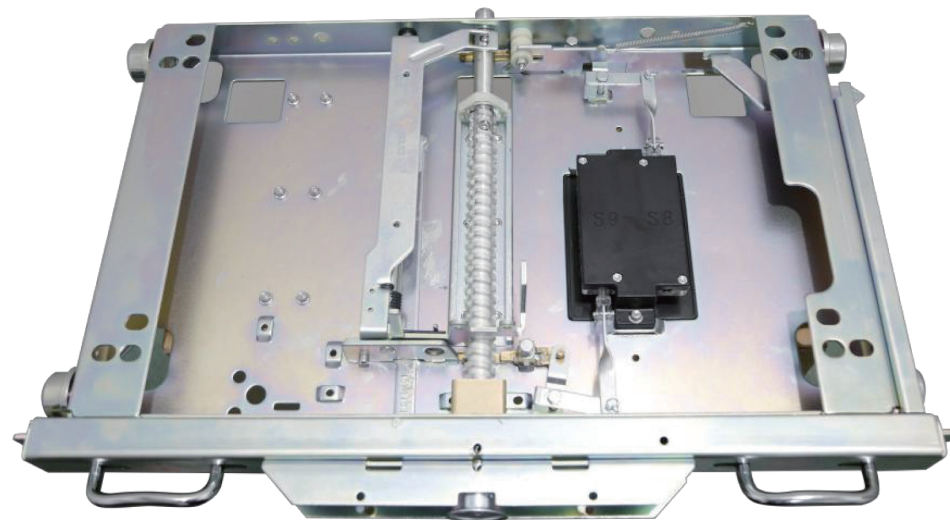
Appearance and Installation Dimensions



FULLY INSULATED AUXILIARY SWITCH FOR SKD CRADLE



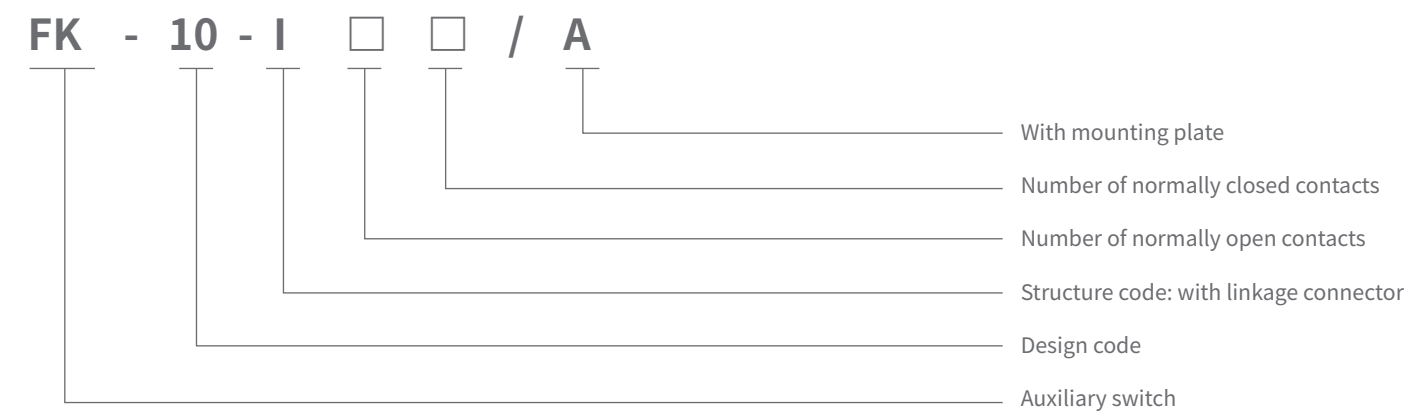
Patent No.:
CN209963617U (6 groups)
CN218996548U (10 groups)



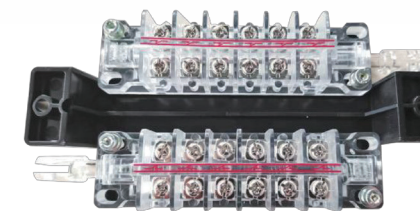
Product Features

- △ Auxiliary switch: integrated design, better insulation.
- ☀ Mechanical life of the auxiliary switch ≥ 5000 operations.
- ✂ Convenient for installation and on-site maintenance and replacement.
- 👉 No adjustment is required for the internal position of the switch.
- ⚙ Suitable for all series specifications of chassis.

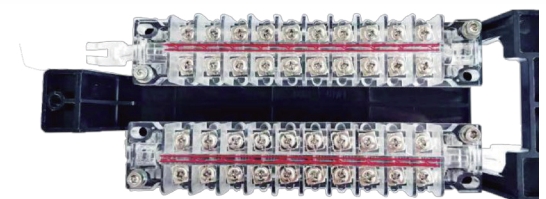
Model Composition And Meaning



Optional auxiliary switch



6NO + 6NC



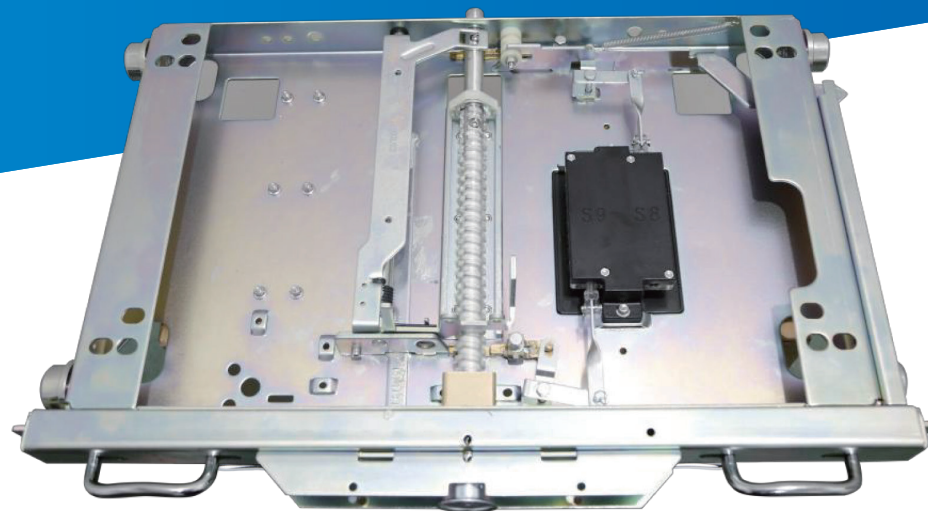
10NO + 10NC

Product Overview

The cradle is primarily used in withdrawable switchgear to house components such as circuit breakers and current transformers, enabling their insertion and withdrawal, and serving as an auxiliary mechanism for connecting the components to the busbars. When the cradle is interlocked with the internal mechanisms of the circuit breaker and other components within the medium-voltage cabinet, it satisfies the "Five Preventive" interlock requirements specified in GB 3906.



MANUAL CRADLE



Product Overview

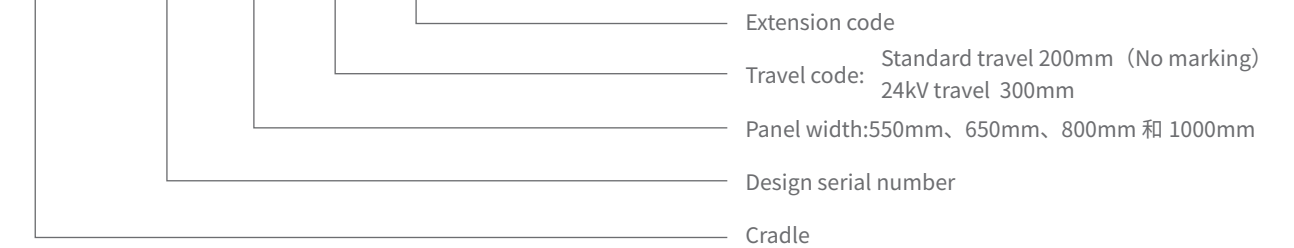
The cradle is primarily used in withdrawable switchgear to house components such as circuit breakers and current transformers, enabling their insertion and withdrawal, and serving as an auxiliary mechanism for connecting the components to the busbars. When the cradle is interlocked with the internal mechanisms of the circuit breaker and other components within the medium-voltage cabinet, it satisfies the "Five Preventive" interlock requirements specified in GB 3906.

The Product Features

- 1、The circuit breaker can only be closed when the handcart is in the test/isolation or working position. Once the circuit breaker is closed, the handcart cannot be moved, thereby preventing the occurrence of erroneous connection or closing of the isolation contacts under load.
- 2、When the handcart is in the working position or is approximately 10mm away from the test/isolation position, the earthing switch cannot be closed, preventing the erroneous closing of the earthing switch when the equipment is live.
- 3、When the earthing switch is closed, the handcart cannot be moved from the test/isolation position to the working position, preventing the circuit breaker from being closed with the earthing switch in the closed position.
- 4、Once the cradle has entered the cabinet and moved out of the test/isolation position, the handcart cannot be withdrawn from the cabinet.

Model Composition And Meaning

SKD - 4 - □ / □ / □

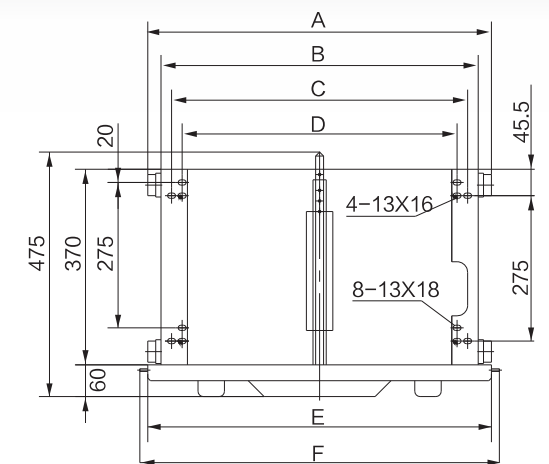


1.SKD-4- □ Cradle

Type	A	B	C	D	E	F
SKD-4-650	500	450	410	385 Mounting hole 13X30	502	535
SKD-4-800	650	600	560	520	652	680
SKD-4-840	690	640	600	560	692	725
SKD-4-900	750	700	660	620	752	785
SKD-4-1000	850	800	760	720	852	885
SKD-4-1200	1050	1000	960	960	1052	1085



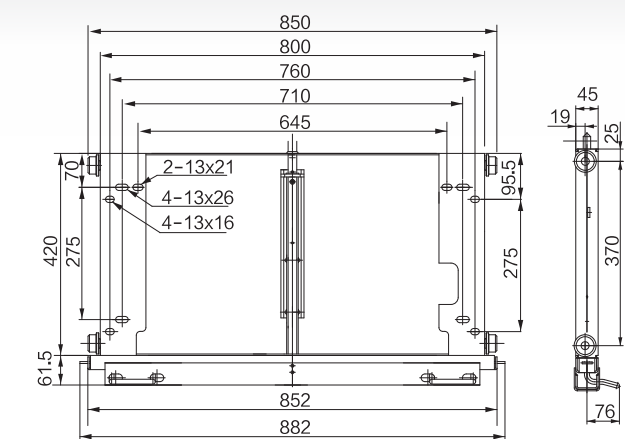
Note: 800 cradle has extra 4×13×16 mounting holes; not available on other models.



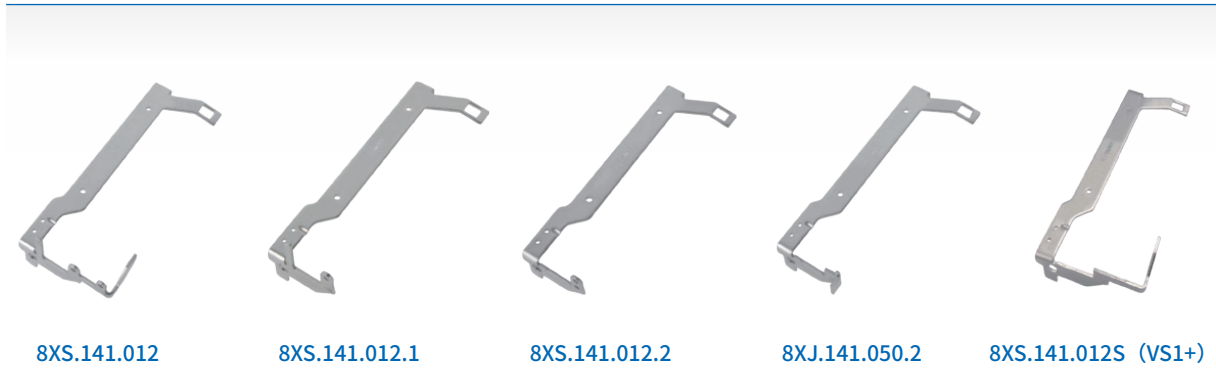
2.SKD-4-1000/24 Deepened Type 24kV Cradle



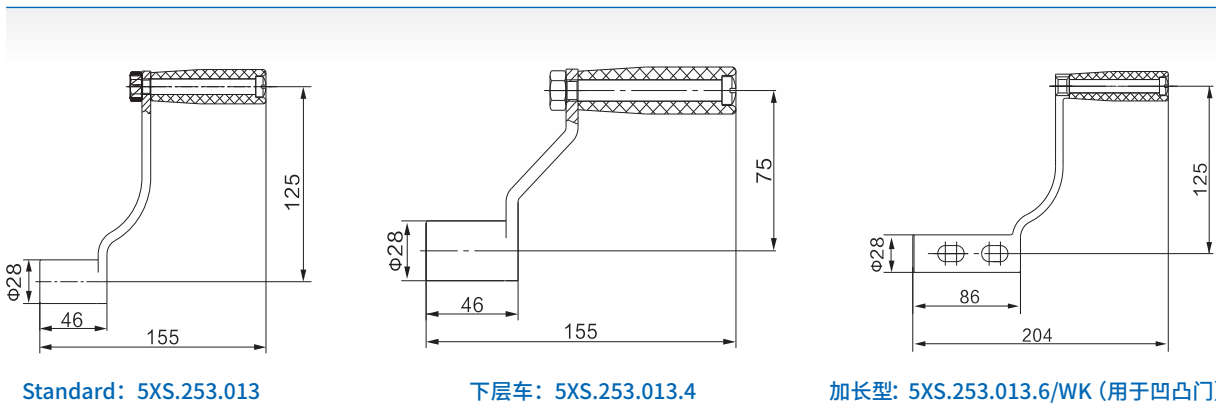
Deepened type 24 kV cradle with stroke 300, frame depth increased by 50, and equipped with guiding device. It also plays an important role in stabilizing the center of gravity of the circuit breaker.



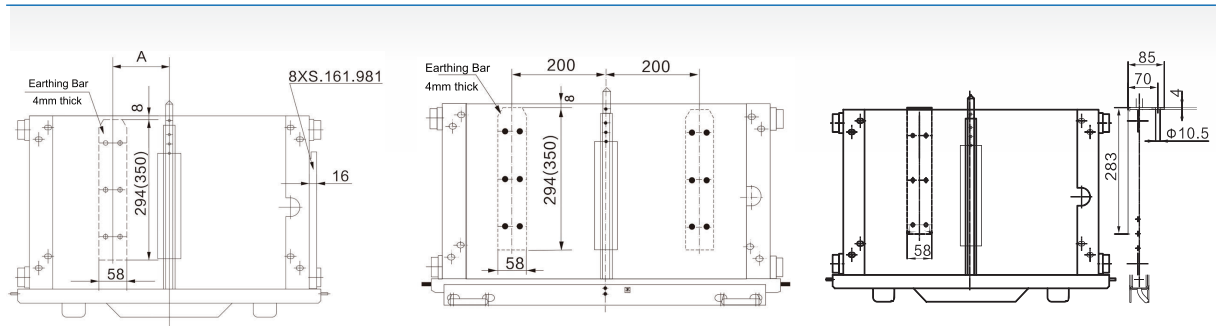
1.Locking Plate



2.Handle



3.Earthing Bar



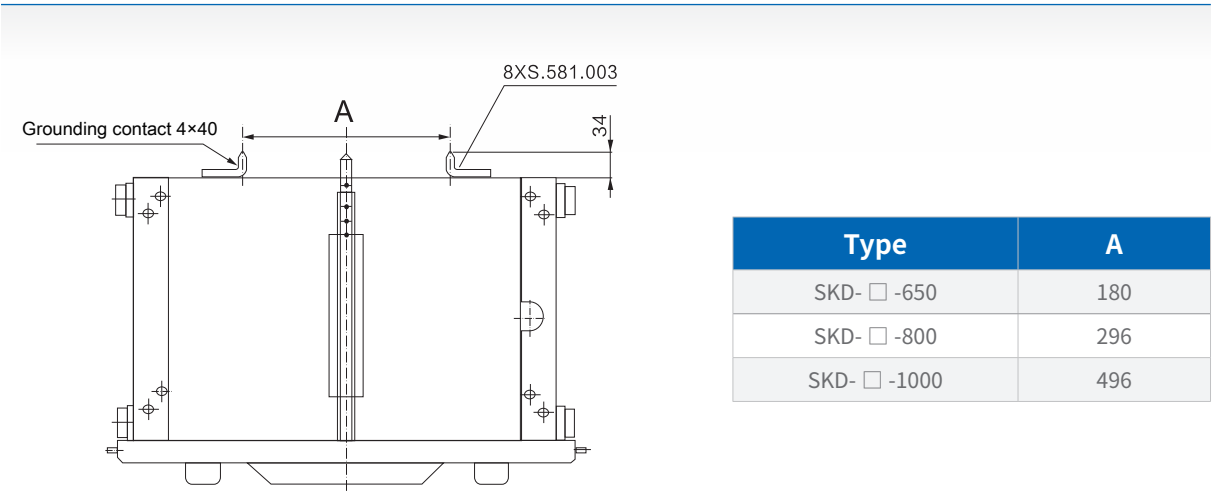
Type	A
SKD- □ -650	100
SKD- □ -800	160



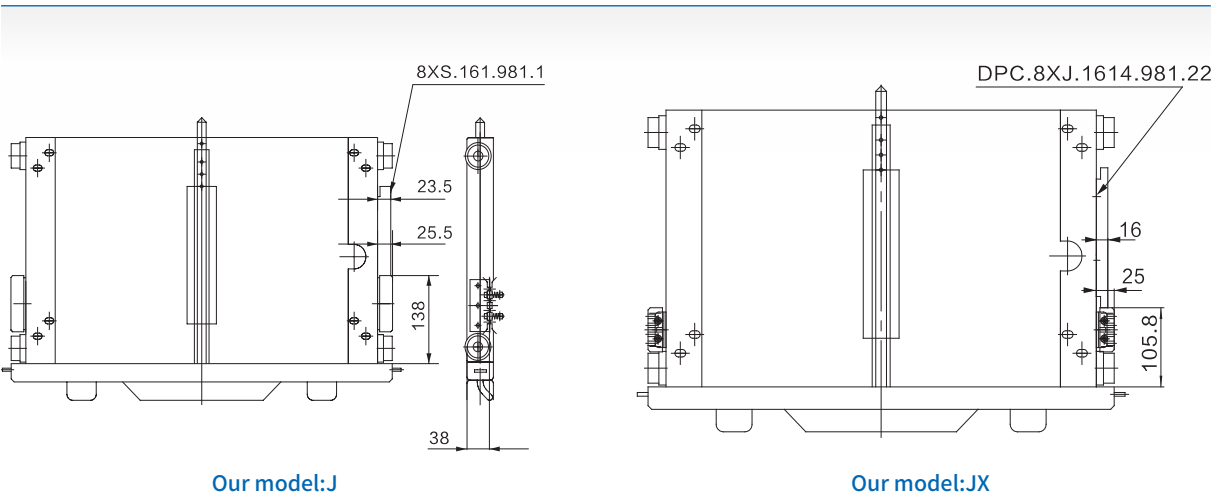
Dimensions in parentheses: 24 kV cradle SKD- □ -1000

L-shaped earthing bar
Earthing bar DPC.8XJ.588.001.51/CZZ
Just note this earthing bar in the order.
For other dimensions, please contact us.

4.Grounding Contact



5.Earthing Clamp



Note: Adjust rail interlock when changing earthing clamp.



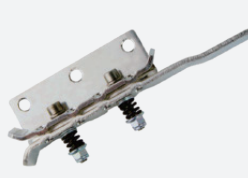
JX (VEP EC)
DPC.5XJ.577.005



J (VD4 EC)
5WXJ.577.001

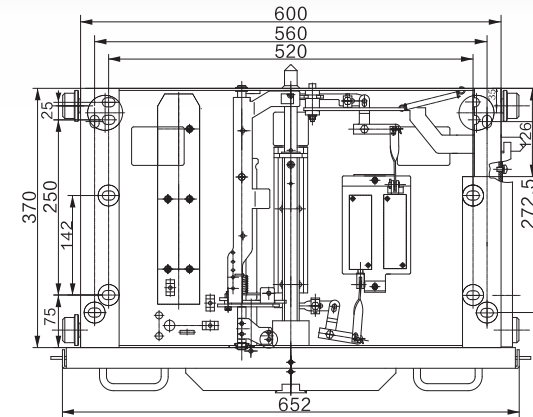
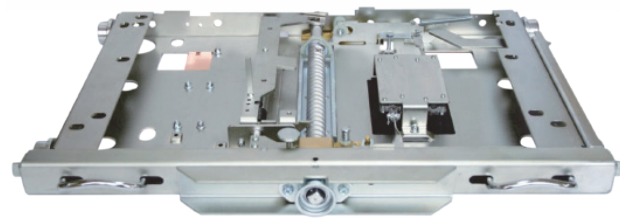


JD (Short-time withstand EC)
DPC.5XJ.577.001.10/JD

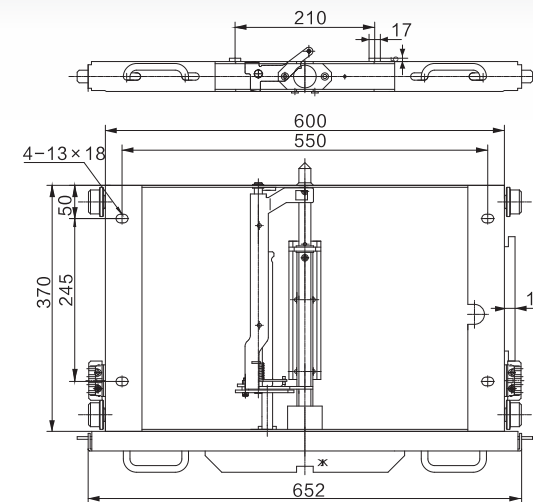
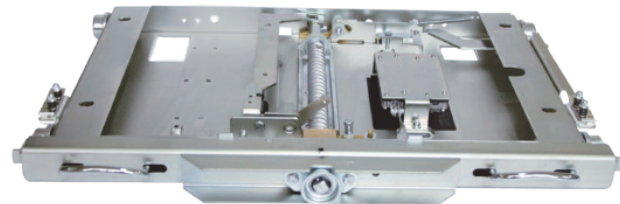


J/24 (VD4 EC 24kV)
DPC.5XJ.577.001.3

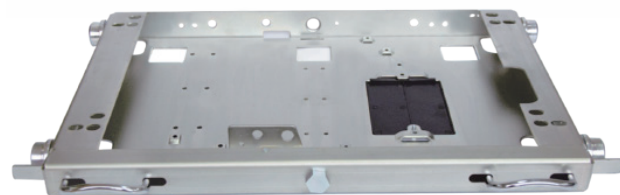
1.SKD-4-800/VD4



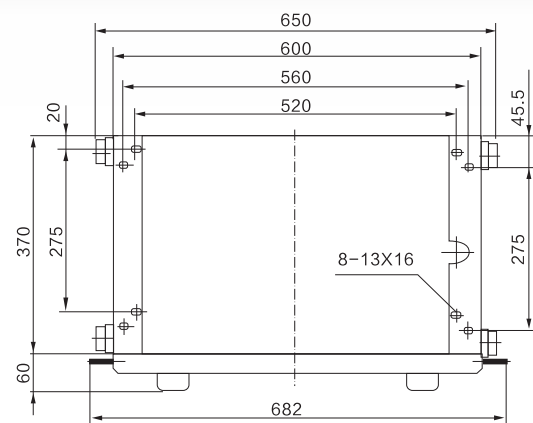
2.SKD-4-800/VEP



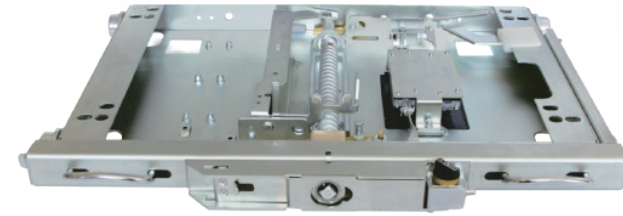
3.SKD-4-800/XC2 (For lower layer)



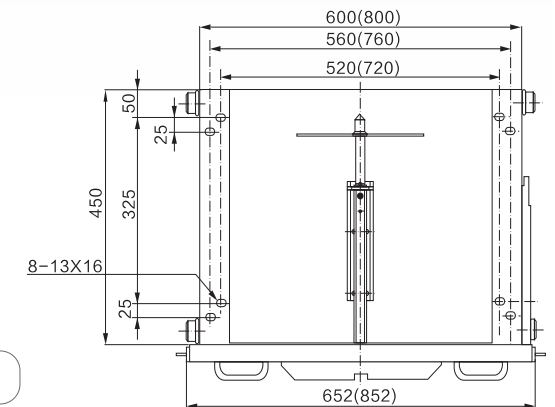
This cradle is hand-operated.



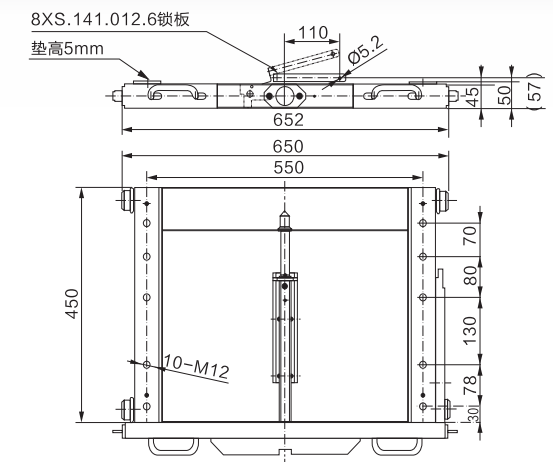
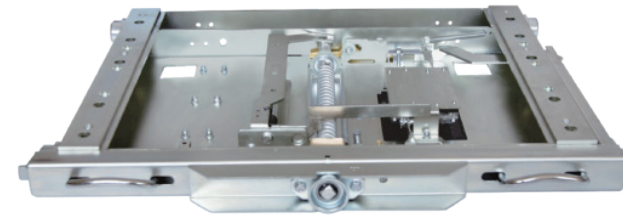
4.SKD-4-⁸⁰⁰/₁₀₀₀ /YDF Deepened



Dimensions in parentheses are for 1000-width cradle.



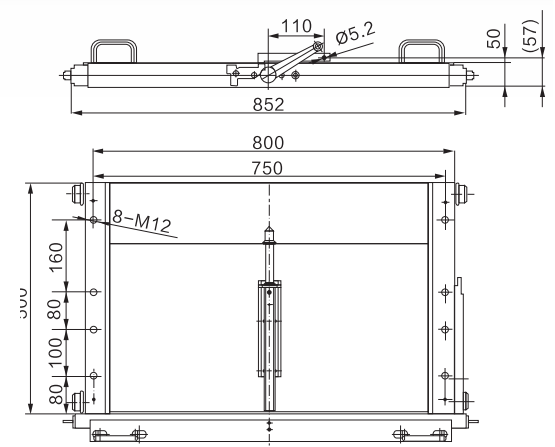
5.SKD-4-800/YH3 Deepened



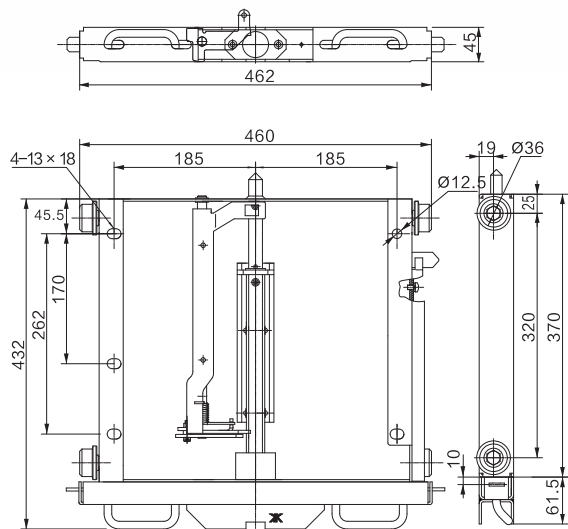
6.SKD-4-1000/YH3



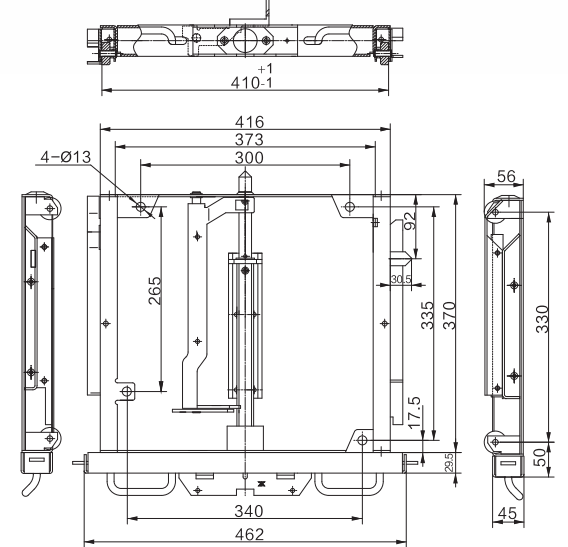
- 1、The above deepened cradle can be used to convert fixed circuit breakers (such as 3AH, ZN12, ZN28, ZN65) into withdrawable type.
- 2、Lock plate for SKD-4-/H3: 8XS.141.012.6. Please specify other lock plates when ordering.



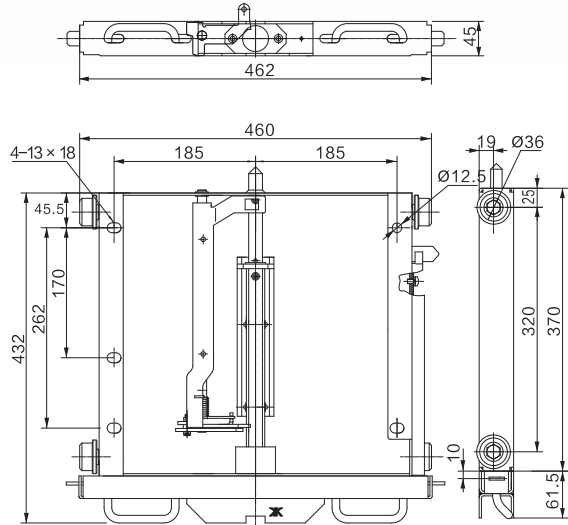
SKD-4-550



SKD-Vmax-550



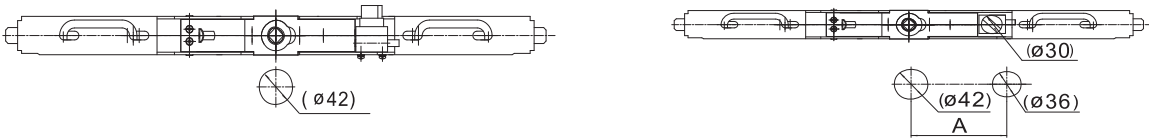
SKD-4- 800 /1000 /JY Test Cradle



1.SKD- □ - □ /2J1 Cradle with two-in-one interlock device

Outline Installation Dimension Drawing

- Option 1: Vertical Installation
No cabinet door drilling; operate with door open.
- Option 2: Horizontal Installation
Cabinet door holes required; operation without door opening.



Overview:

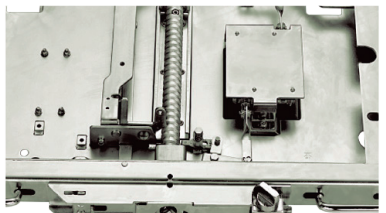
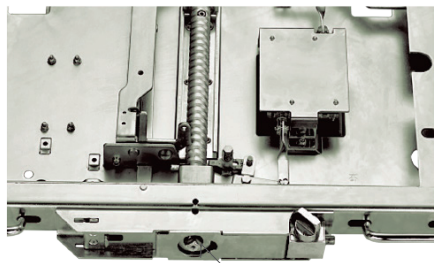
This interlock device is mainly used to prevent two withdrawable units from entering the service position simultaneously.

Main interlocking function: Two truck units are controlled by one key. When either truck is in the service position, the key cannot be removed. The other truck cannot be unlocked without the key, the operating handle cannot be inserted, and the truck cannot be moved, thus preventing it from entering the service position.

Ordering Information:

- Add “/2J1” after standard model for this interlock. Set includes: 2 truck units + 1 key.
- Please specify vertical or horizontal installation of the program lock when ordering.

Mutual Interlocking Function of Two Cradle Units



Type	A
SKD- □ -650/2J1	91
SKD- □ -800 (1000) /2J1	121

2.Cabinet Door Interlocking Function of SKD Cradle

a.SKD- □ - □ /G5 Cradle

This model only adds door-closing interlock. Operating handle cannot be inserted when door is open; only operable after door closed. No cabinet door modification required.

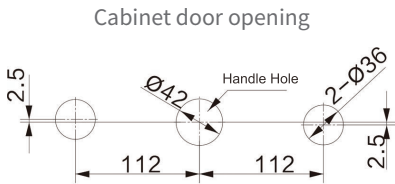
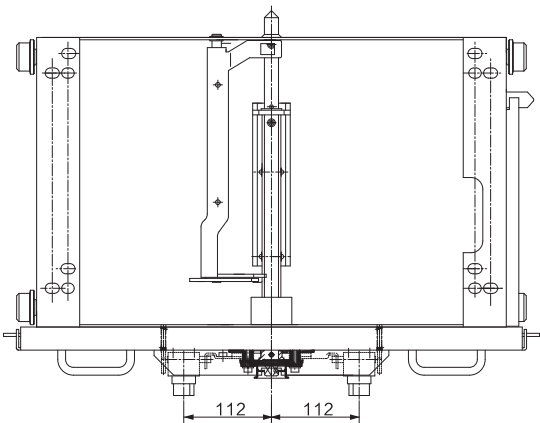
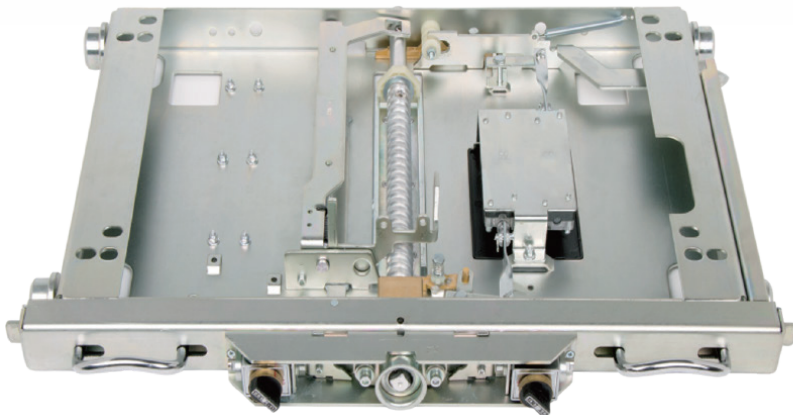
b.SKD- □ - □ /S5 Cradle

Based on type a, adds door-locking interlock. Cabinet door is locked when cradle leaves test position; only openable when cradle returns to test position. Door modification required.

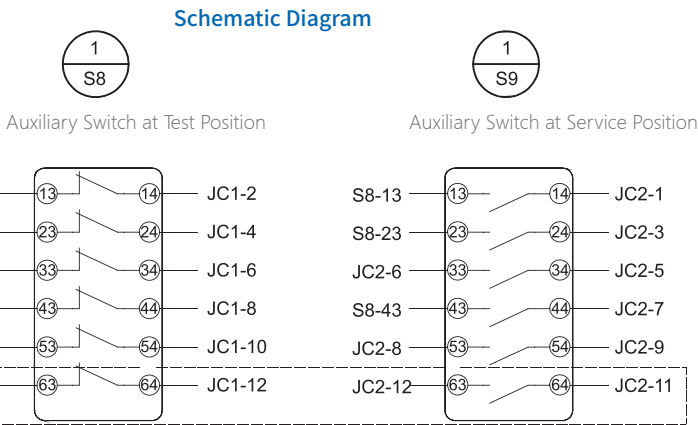
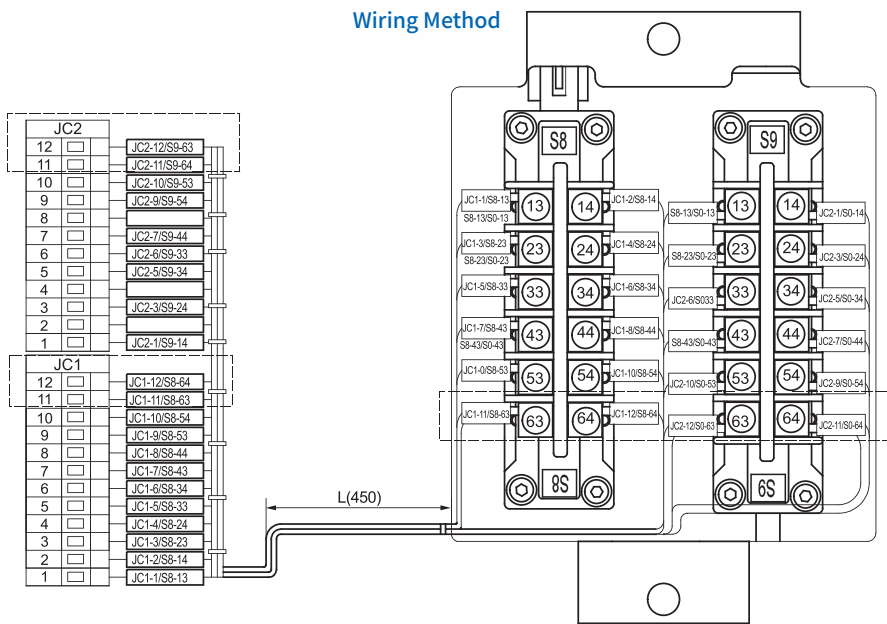


Note: Block structure design for easy installation and replacement.

3.SKD-4-800/SHS/1J1 Cradle with Dual Key Interlock



4.Cradle Wiring



Cradle Wiring Overview::

- When the truck is in the test position, S8/S9 can be configured according to customer requirements;
- Terminal blocks are selected or provided by the customer;
- Wiring identification can be adjusted by the customer;
- This diagram shows our standard wiring. For other requirements, please contact us.

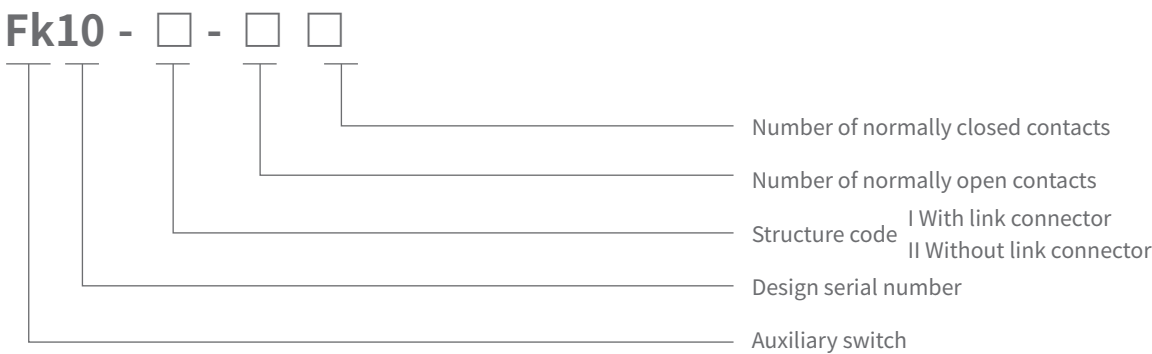
Auxiliary Switch S8/S9 Selection	JC1/C2	Wire Marker ID	Length L(mm) Standard Length: 450
5050	20P(1-10)No wiring in dashed box.	Adjusted per customer req.	Over 200: Selected by customer
6060	24P (1-12) Wiring in dashed box	Adjusted per customer req.	Over 200: Selected by customer

Terminal Block Option JC (incl. male & female connectors)	Terminal Block Option JX	Auxiliary Switch S8/S9	Choose either JC or JX terminal block
YC101-5.08-10P (Standard)	3DZ.01.00.010 (20P)	5050 or 6060	Wiring per customer drawings.
6060	3DZ.01.00.010 (24P)	6060	

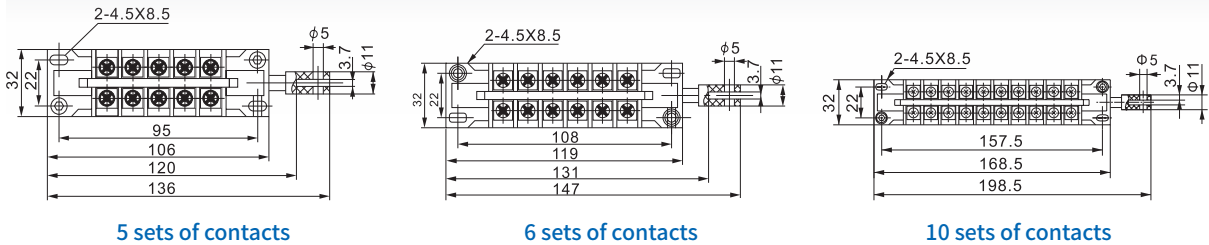




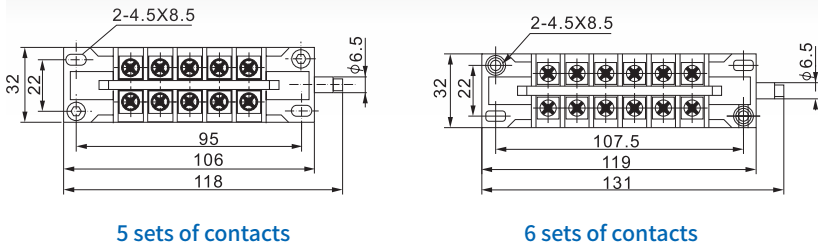
Model Composition And Meaning



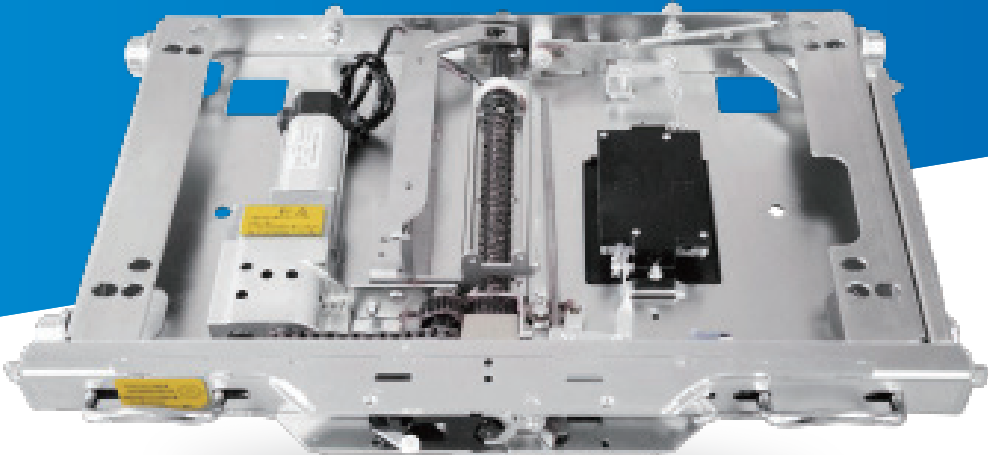
1.FK10-I- ☐☐



2.FK10-II- ☐☐



ELECTRIC CRADLE



Product Overview

The electric cradle is equipped with electric operation based on the original manual cradle, providing the necessary hardware foundation for the intelligentization, programming and remote control of switchgears. Through continuous improvement and innovation, the electric cradle has evolved from the first-generation heightened type to the current third-generation integrated type. Starting from the third generation, a professionally designed micro permanent magnet DC motor is adopted. After installation, it will not change the height, overall mounting dimensions or interlocking functions of the original manual cradle. It features a simple structure and high universality.

Model Composition And Meaning



1.Manual Operation Priority for Electric Cradle S

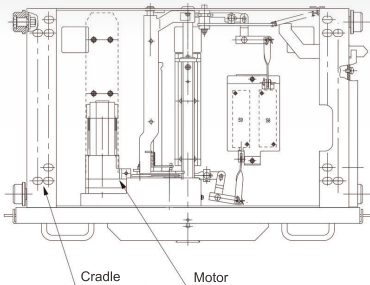
Overview:

Manual priority for electric cradle adds a manual priority function to the standard electric cradle.

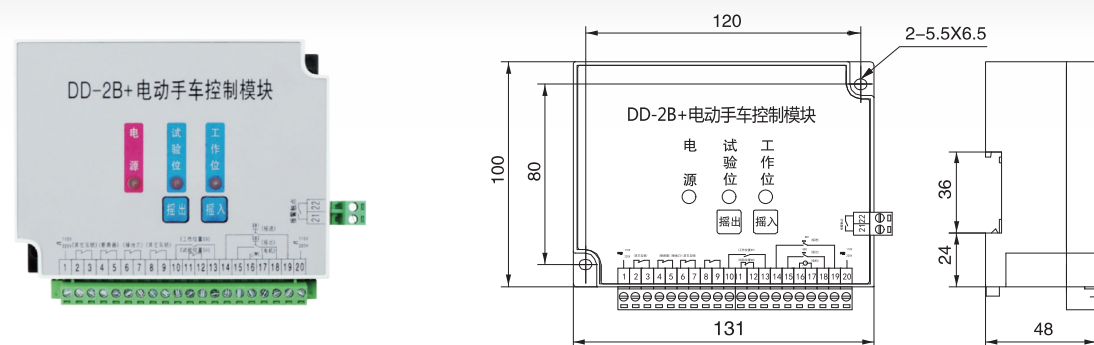
A micro-switch linked to the operating crank hole is installed on the cradle.

When the crank is inserted into a manual-priority-equipped cradle, operation via the controller buttons is disabled (see the module control circuit for details).

For retrofitting, add “S” to the original electric cradle model SKD- ☐ /DD3.

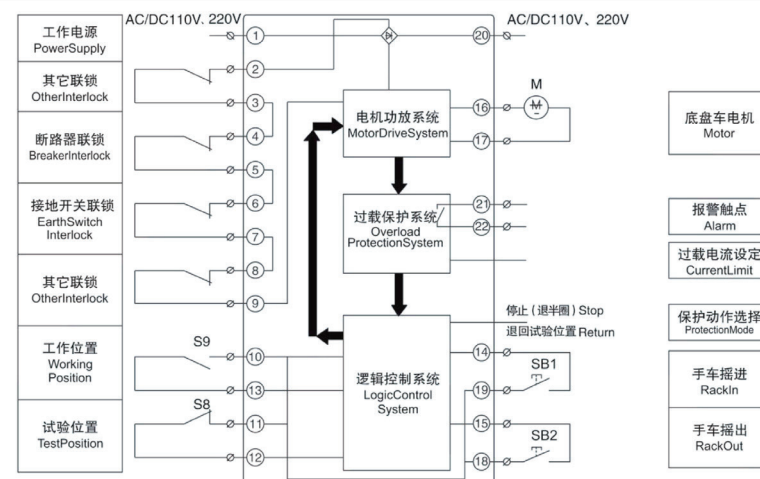


2.Control Module DD-2B+

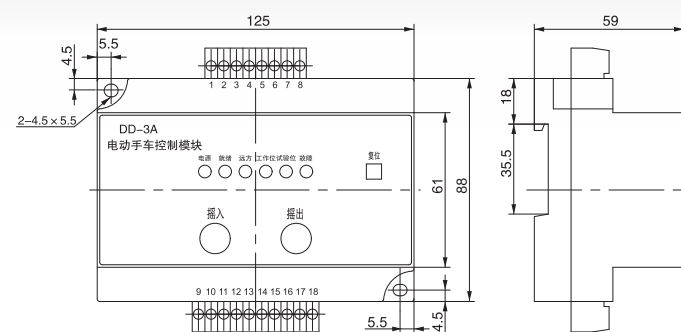


- Installation: Indoor, DIN35mm rail mounting or fixed mounting
- DD-2B+ is an upgraded and improved version of the earliest product, featuring soft start and high cost-performance.

3.Wiring Schematic Diagram DD-2B+



4. Control Module DD-3A

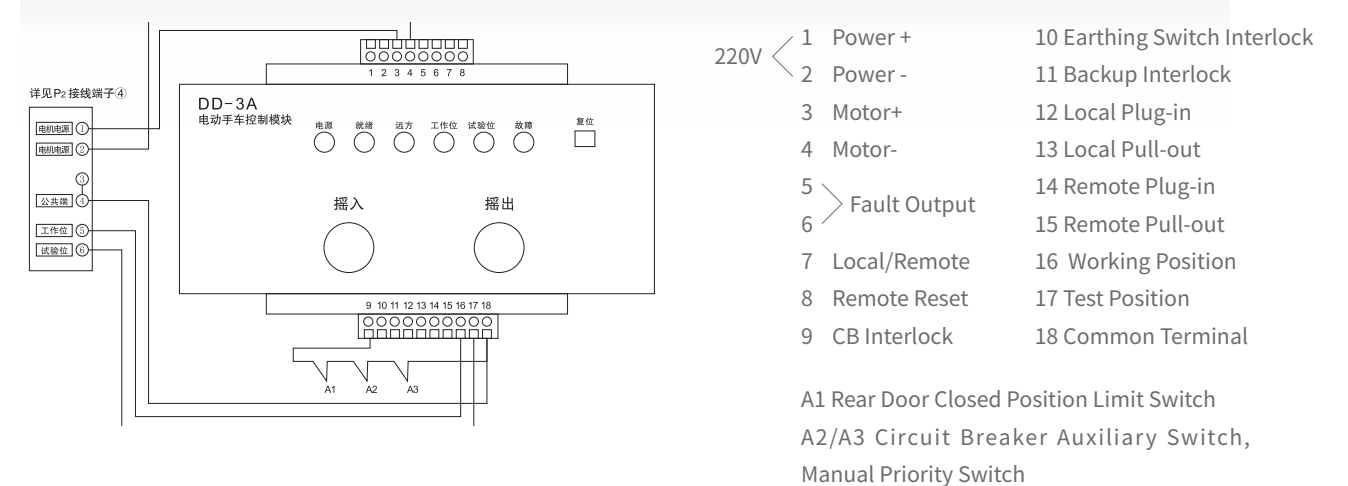


Installation: Indoor, DIN35mm rail mounting or fixed mounting

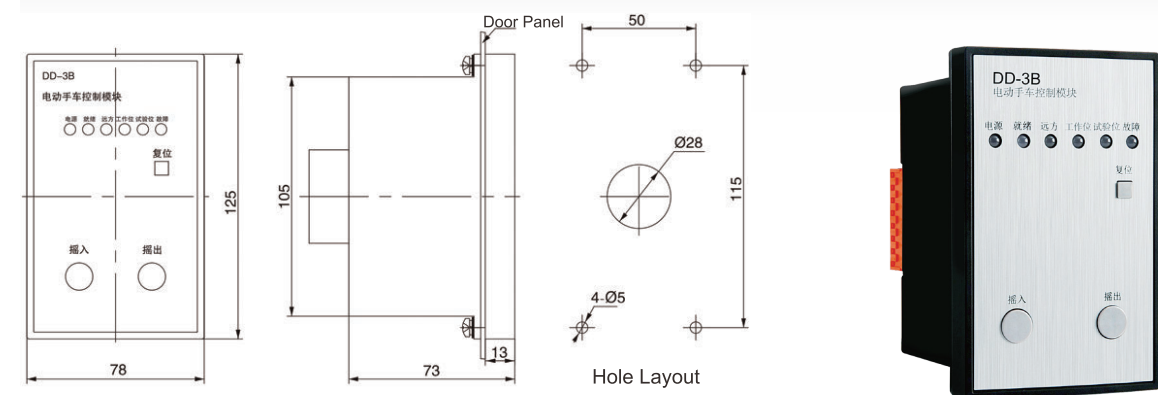
Note: Can include communication interface; specify when ordering.



5.Wiring Schematic Diagram DD-3A



6. Control Module DD-3B

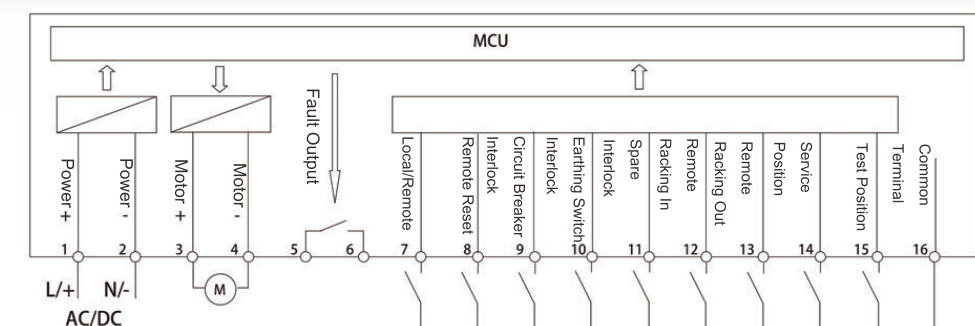


Installation method: Mounted on cabinet door.

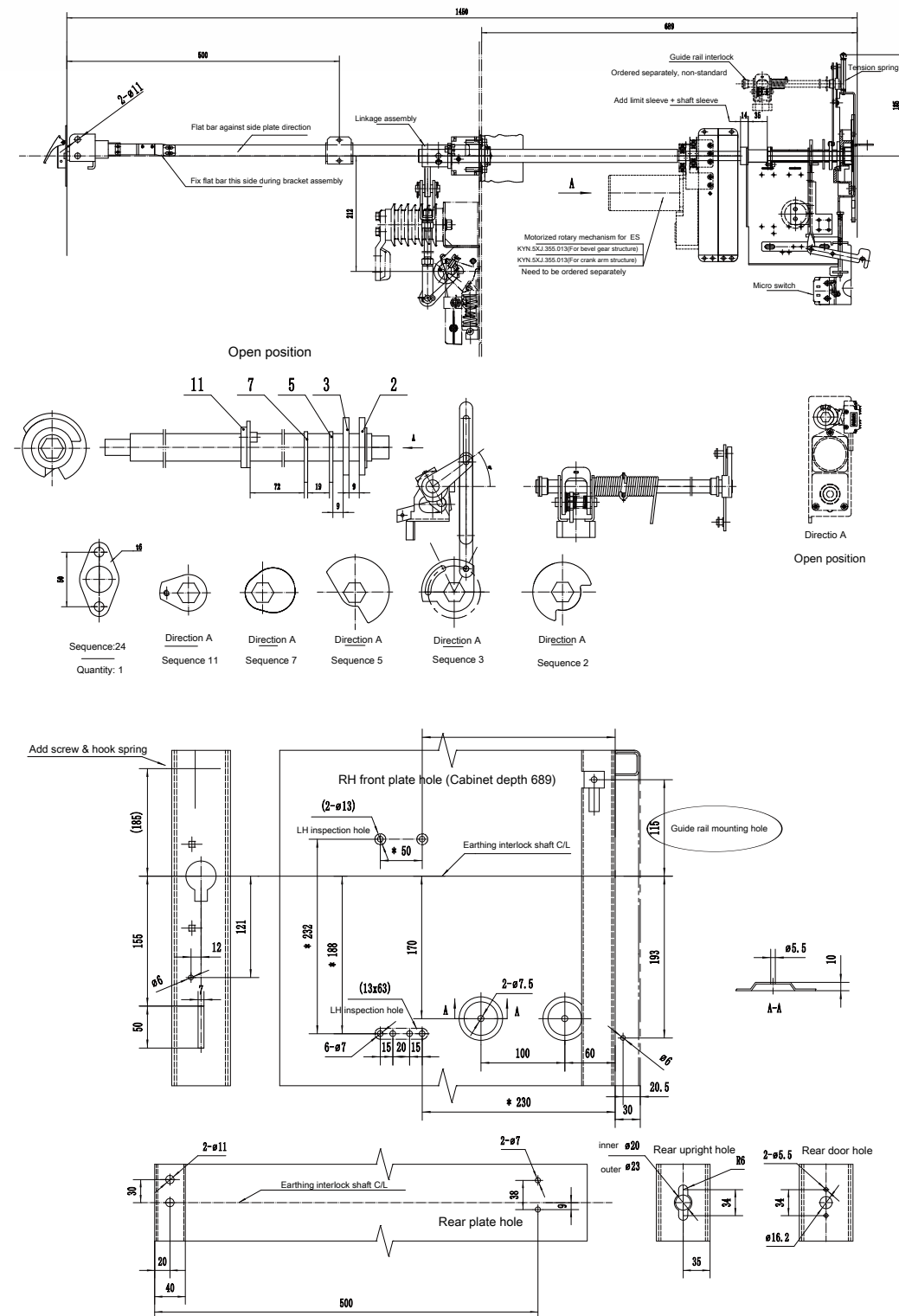
Note: Can include communication interface; specify when ordering.



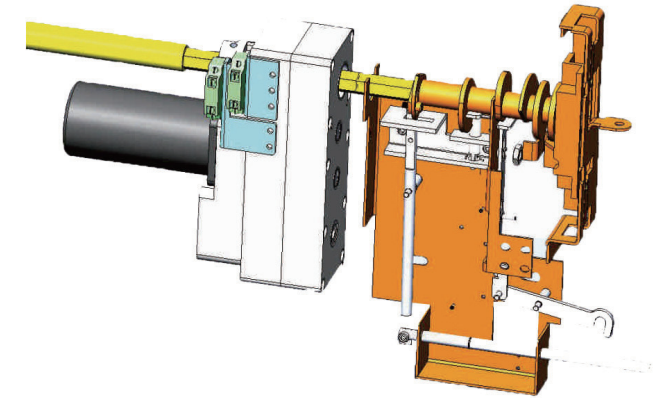
7.Wiring Schematic Diagram DD-3A and DD-3B



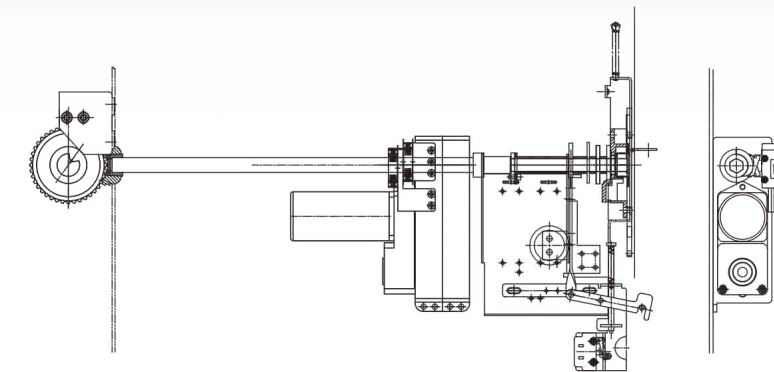
1.KYN.5XJ. 363.010.6/FDD/DDSX Split-type Motorized (Manual Priority + Front Lower Door Interlock)



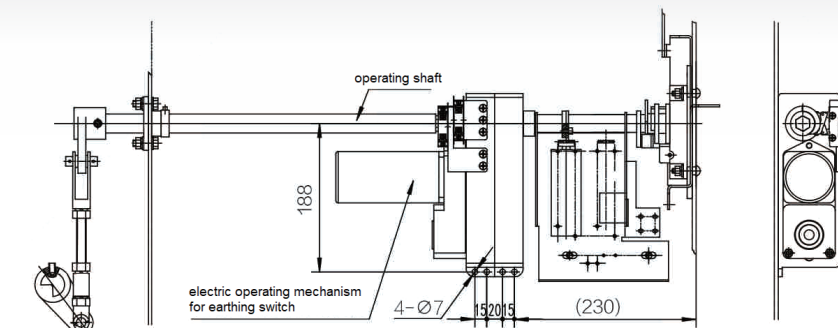
MOTORIZED SECTION OF THE EARTHING SWITCH



KYN.5XJ.355.013 (Suitable for bevel gear type structure)



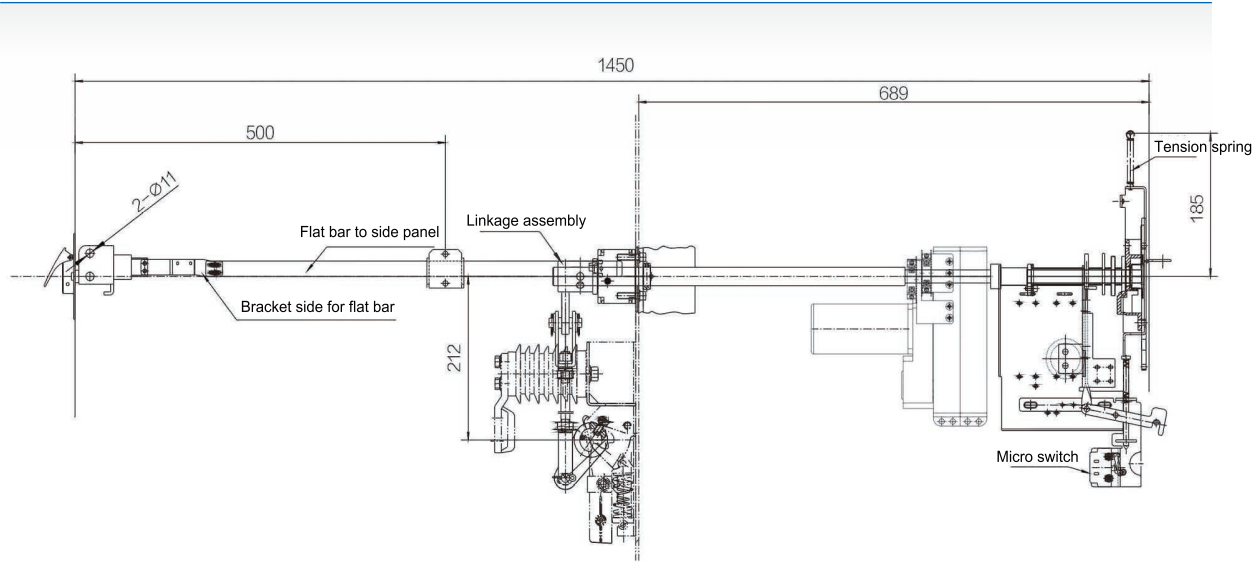
KYN.5XJ.355.013.1 (Suitable for crank arm type structure)



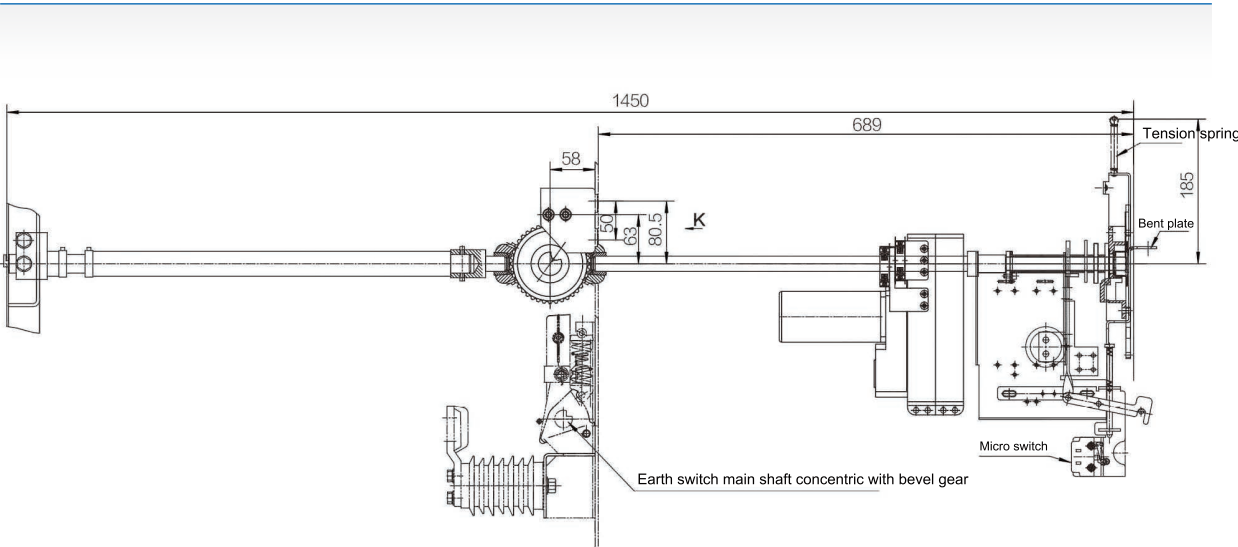
- Notes: 1. Earthing switch (interlock) retrofitted to motorized operation.
2. KYN-28A mechanical earthing interlock modifications:
- Replace dedicated electrical parts (with/without manual priority).
 - 2 types: 90° crank arm / 180° bevel gear, with matching accessories & motors.
 - Add motorized drive mechanism (drilling as per drawing).
 - Use our matching motor control module.



KYN.5XJ.577.1002.3/FDD/DDSX (Bevel Gear Type)



KYN.5XJ.363.010.6/FDD/DDSX (Crank Arm Type)

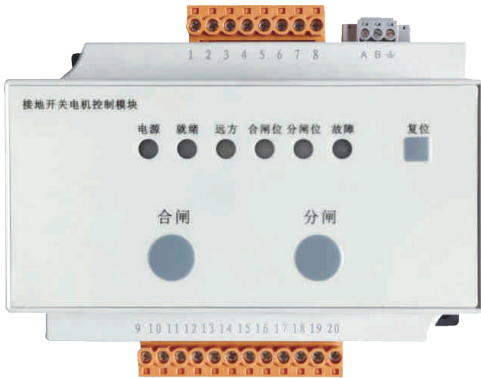


- Notes:
- 1、 Manual Priority: Press the bending plate (handle inserted) to trigger micro-switch, cut off motor signal, ensuring manual operation first..
 - 2、 Bending plate is normally pulled up; pressing activates micro-switch.
 - 3、 Motorized structure must work with our motorized earthing switch and dedicated module.
 - 4、 Rail interlock to be ordered separately (non-standard, note earthing method).
 - 5、 Manual priority & front lower door interlock are independent options.
 - 6、 Must be used with a controller.

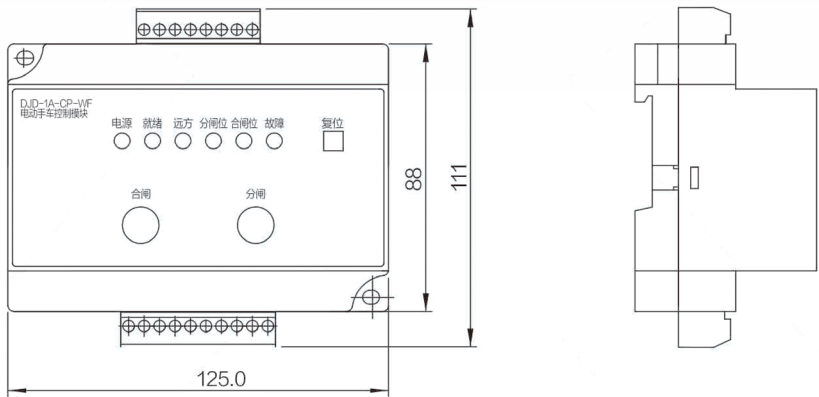
DJD-1A-CP-WF
Earthing Switch Motor
Control Module

Module Function Description

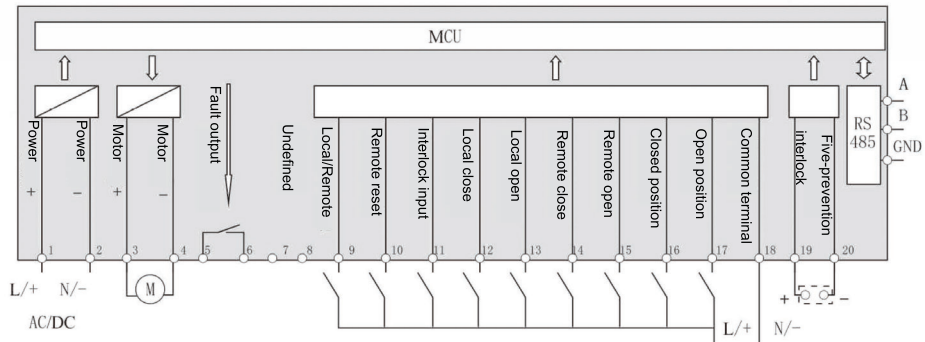
- DIN Rail Mounting
- CSG Interlock Circuit Power Requirement
- Reserved Interface for Five-Prevention Lock
- With Modbus RS485 Communication Interface



Outline Drawing



Wiring Diagram

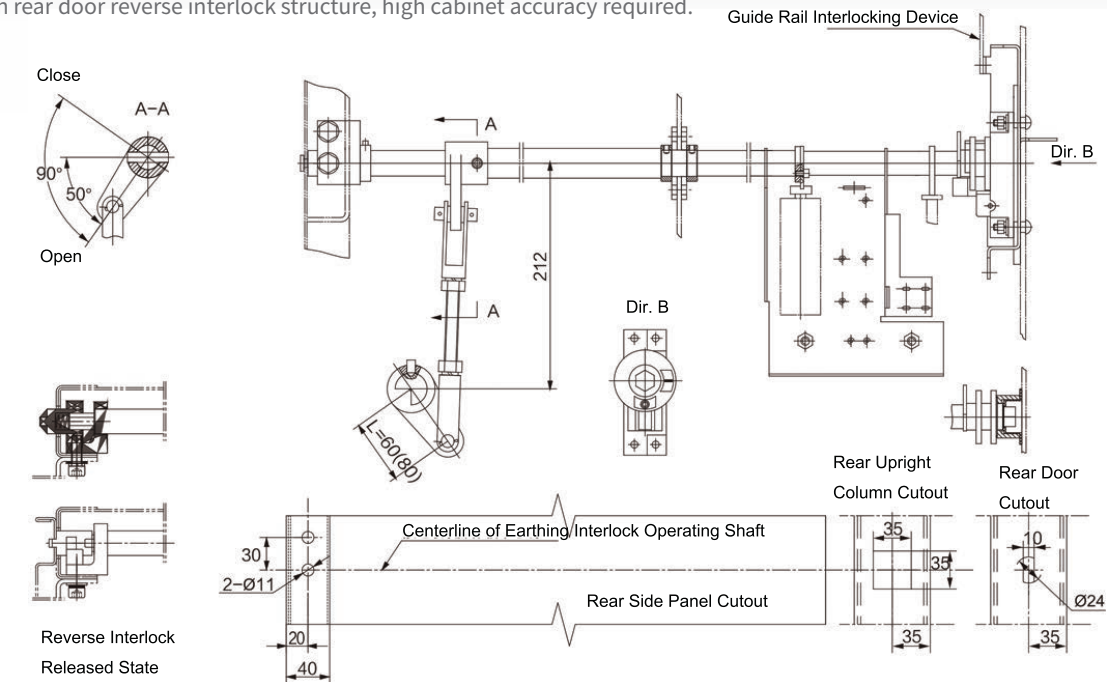


Note: Used together with the split-type motorized earthing switch.

INTERLOCKING DEVICE FOR GROUNDING SWITCH OPERATING MECHANISM

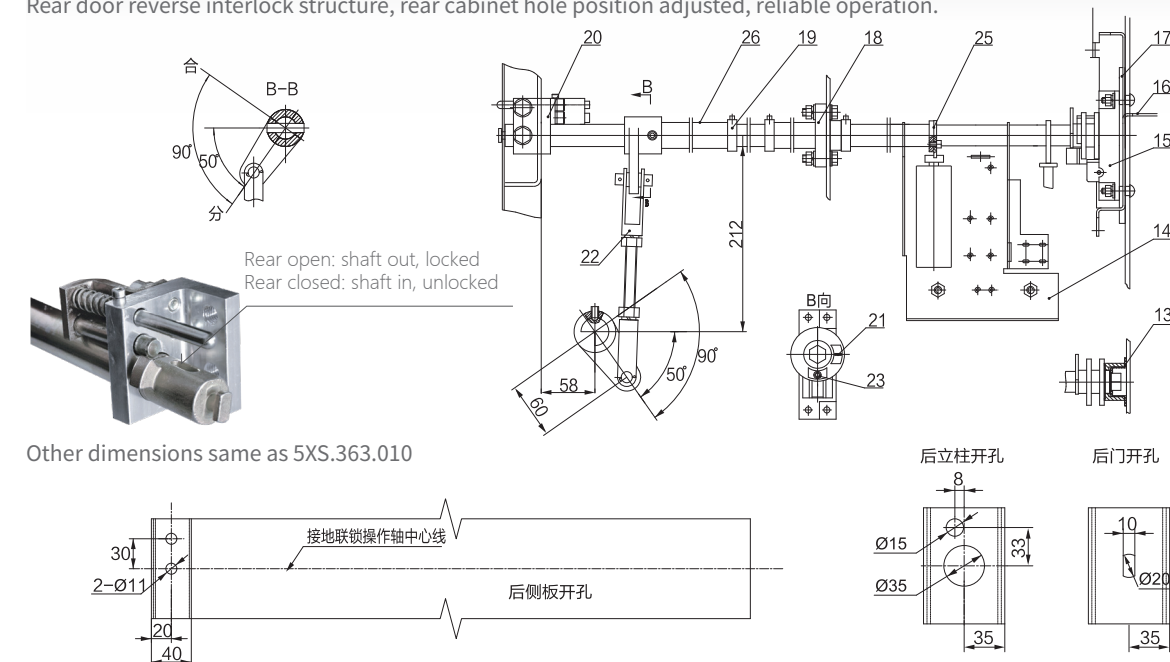
1.5XS.363.010.1 (for crank arm transmission operation)

With rear door reverse interlock structure, high cabinet accuracy required.



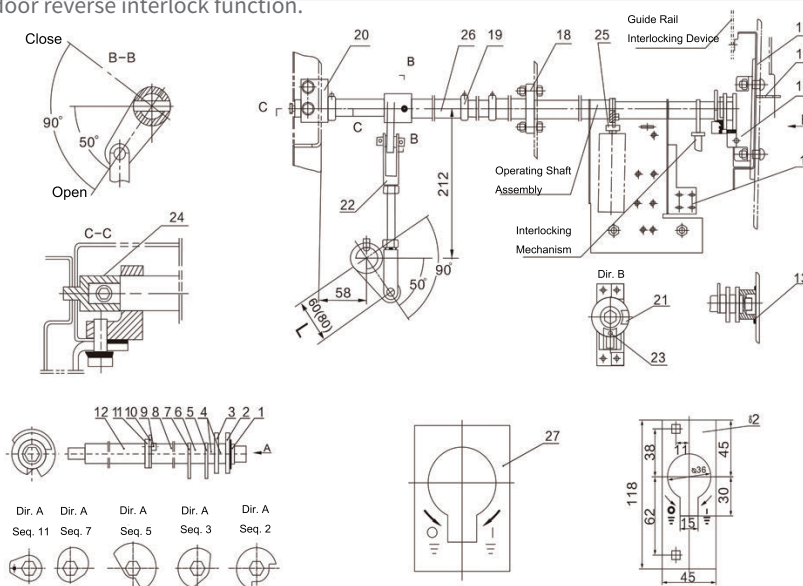
2.5XS.363.010.2 (for crank arm transmission operation)

Rear door reverse interlock structure, rear cabinet hole position adjusted, reliable operation.



1.5XS.363.010 (For arm drive operation) Assembly drawing

Note: Without rear door reverse interlock function.



Operating shaft open position diagram Nameplate drawing Nameplate: 8XS.860.010.1
Flush mounting, rear with 2mm optional metal parts.

2.5XS.363.010 (For arm drive operation) Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1	14	Cover	8XS.217.011.1	1
2	Sector Plate	8XS.192.010	1	15	Bent Plate	8XS.161.058	1
3	Sector Plate	8XS.192.011	1	16	Bent Plate	8XS.161.058.1(Optional)	1
4	Shaft Sleeve	8XS.210.014.1	2	17	Support	8XS.043.022	1
5	Sector Plate	8XS.151.041	1	18	Bent Plate	8XS.161.059	1
6	Shaft Sleeve	8XS.211.061	1	19	Slider	8XS.143.010	2
7	Sector Plate	8XS.151.039	1	20	Shaft Sleeve	8XS.211.058	1
8	Shaft Sleeve	8XS.211.062	1	21	Limit Sleeve	8XS.211.057	3
9	Screw M5X12	GB70-85	1	22	Support	8XS.043.019	1
10	Sector Plate	8XS.151.042	1	23	Closing Indicator	8XS.866.010	1
11	Sector Plate	8XS.151.043	1	24	ALinkage Assembly	8XS.233.030.1	1
12	Operating Shaft	8XS.200.010.4 (1432for1500-Depth Cabinet)	1	25	ALinkage Assembly	8XS.233.030.3(Optional)	1
13	Operating Shaft	8XS.200.010.5 (1590 for 1660-Depth Cabinet)	1	26	Opening Indicator	8XS.866.011	1
				27	Lock Sleeve	8XS.211.059	1
				28	Toothed Insert Plate	8XS.151.044	1
				29	Shaft Sleeve	8XS.211.060	2
				30	Nameplate	8XS.860.010	1



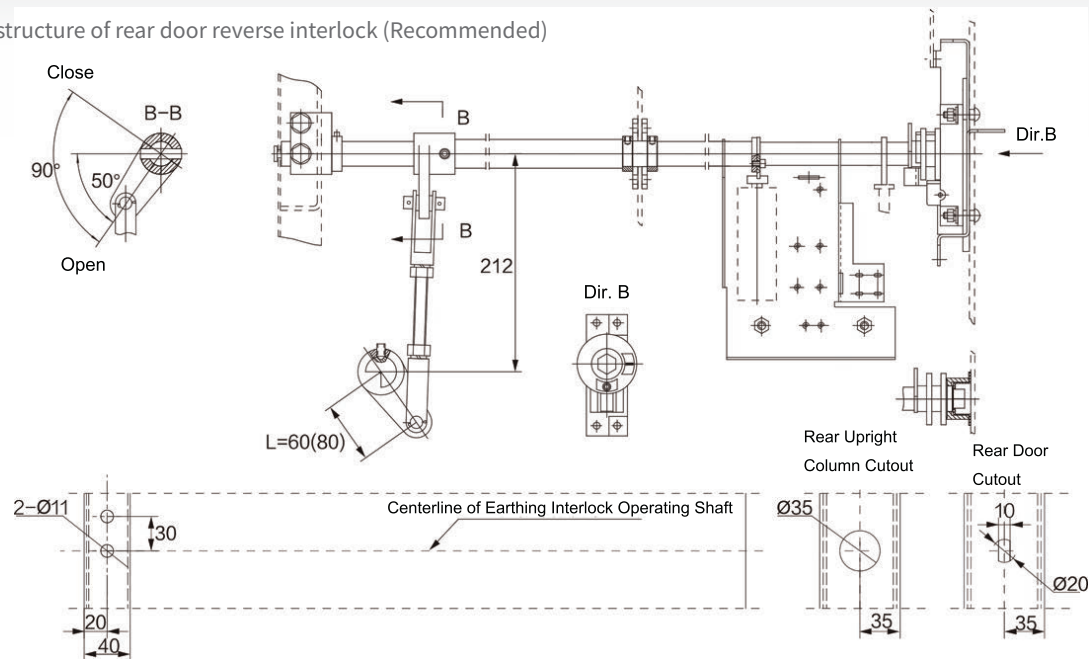
Note: 1. Item 22 linkage device with middle crank arm has two sizes: the standard center distance is 60 mm. If 80 mm center distance is required, please refer to page 16 of the manual and specify when ordering.
2. If emergency unlocking function is required, item 24 lock sleeve should be changed to 8XS.211.059.15/HK.



Note: The motor-operated structure must be used together with our motorized earthing switch or consult our technical department.

1.5XS.363.010.3 (For arm drive operation) Assembly drawing

New structure of rear door reverse interlock (Recommended)

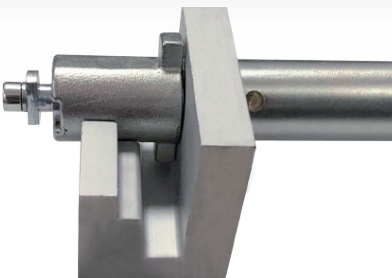


2.Specification

This interlock device is an upgrade to the original 5XS.363.010 Earthing Switch Operating Mechanism Interlock, with an additional reverse interlock for the rear door. The earthing switch can only be operated after the rear door (blind plate) has been securely closed.

The working principle of this interlock is as follows: When the rear door (blind plate) is closed, the locking sleeve is pressed in, releasing the interlock with the support base, thereby enabling the operation of the earthing switch.

When the earthing switch is in the closed position and the rear door (blind plate) is opened, the locking sleeve resets and locks with the locking seat under the action of spring force, making it impossible to open the earthing switch.



后门打开锁套弹出，
操作轴锁定
后门关闭锁套压入，
操作轴解锁

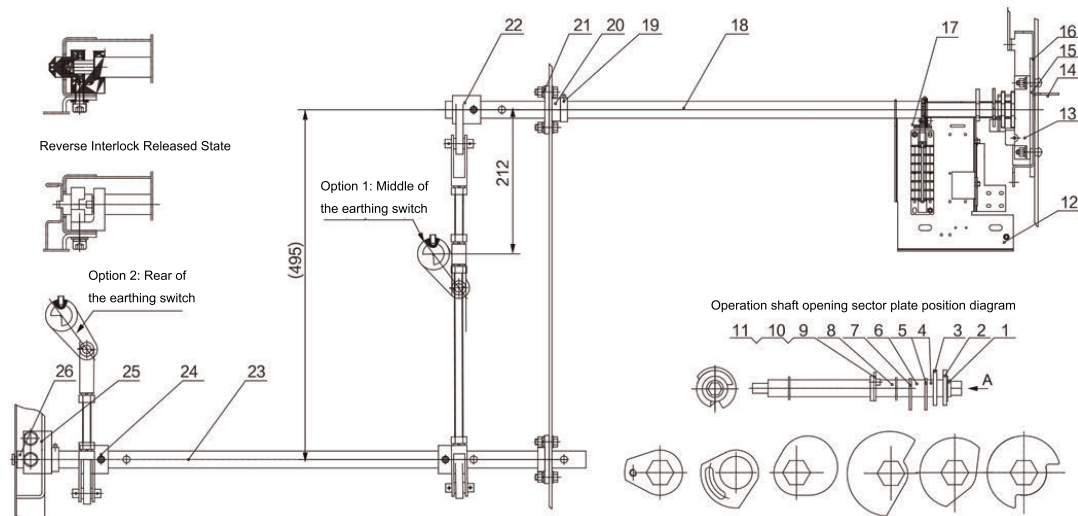
3、5XS.363.010.3(for Crank Arm Drive Operation)

Drawing No.	NO.	Name	Code	Quantity	
5XS.363.010.3	1	Operating Shaft	8XS.200.013.1	1	With reverse interlock
	2	Compression Spring	8WXJ.282.201	1	
	3	Support	KYN.8XJ.043.148	1	
	4	Lock Sleeve	KYN.5XJ.211.259	1	

Note: Electric operating mechanism to be compatible with our motorized earthing switch; consult our Technical Department if necessary.

1.Split Type KYN.5XJ.363.010.3/FT (for Crank Arm Drive Operation)

Upper/lower shaft center distance adjustable per customer request; Earthing switch mounting method to be advised at order.



Note: Rear cutout drawing is the same as 5XS.363.010.3.

2.Split Type KYN.5XJ.363.010.3/FT Matching List

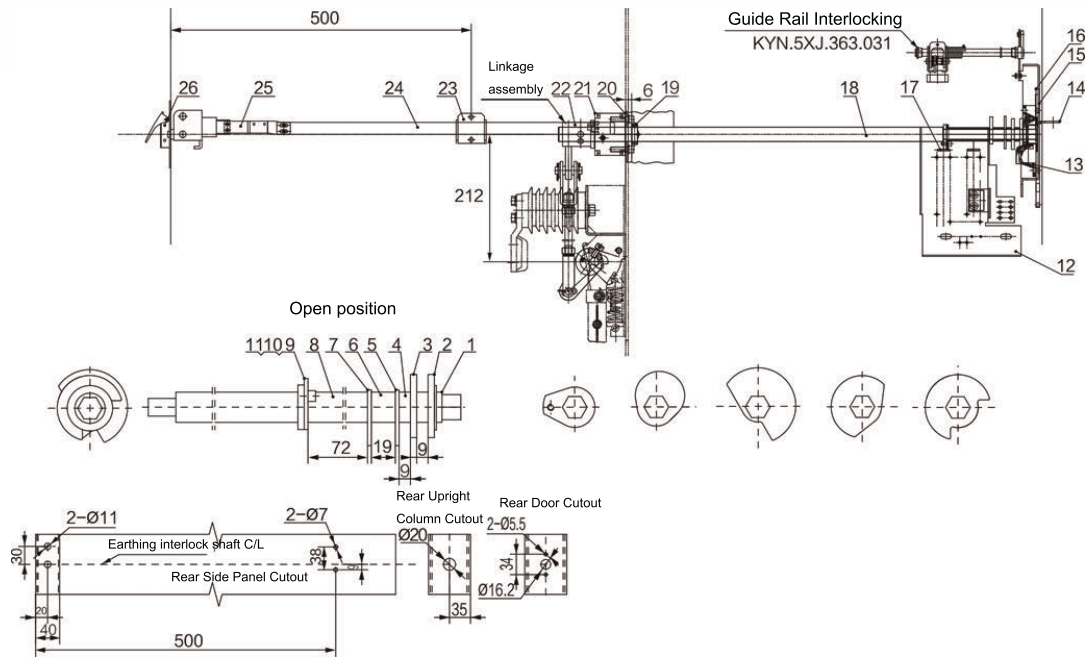
No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1	14	Protective Sleeve	KYN.8XJ.211.362	1
2	Sector Plate	8XS.192.010	1	15	Bent Plate	8XS.161.059	1
3		8XS.192.011	1	16	Slide Block	8XS.143.010	2
4	Bushing	8XS.210.014.1	2	17	Toothed Insert Plate	8XS.151.044	1
5	Sector Plate	8XS.151.041	1	18	Operating Shaft	KYN.8XJ.200.013.219/LN	1
6	Bushing	8XS.211.061	1	19	Limit Sleeve	8XS.211.057	2
7	Sector Plate	8XS.151.039	1	20	Sleeve	KYN.8XJ.213.032.1/SAP	1
8	Bushing	8XS.211.062	1	21		KYN.8XJ.211.058.1	2
9	Screw M5X12	GB/T 70.1-2000	1	22	Connecting Rod Assembly (H=495)	KYN.5XJ.233.030.24/TRD	1
10	Sector Plate	8XS.151.042	1	23	Operating Shaft	KYN.8XJ.200.013.220/LN	1
11		8XS.151.043	1	24	Connecting Rod Assembly	5XS.233.030.1	1
12	Bent Plate	8XS.161.058	1	25	Support	KYN.8XJ.043.148	1
13	Support	8XS.043.022	1	26	Locking Sleeve	KYN.5XJ.211.259	1



Note: The electric operation structure must be used with our company's motorized earthing switch, or consult our technical department.

1.Pull-plate type KYN.5XJ.363.010.6(for crank arm transmission)

Key recommended solution: Rear shaft flat steel structure Note: Only applicable to earthing switch cabinets



2.Pull-plate type KYN.5XJ.363.010.6 – Matching Parts List

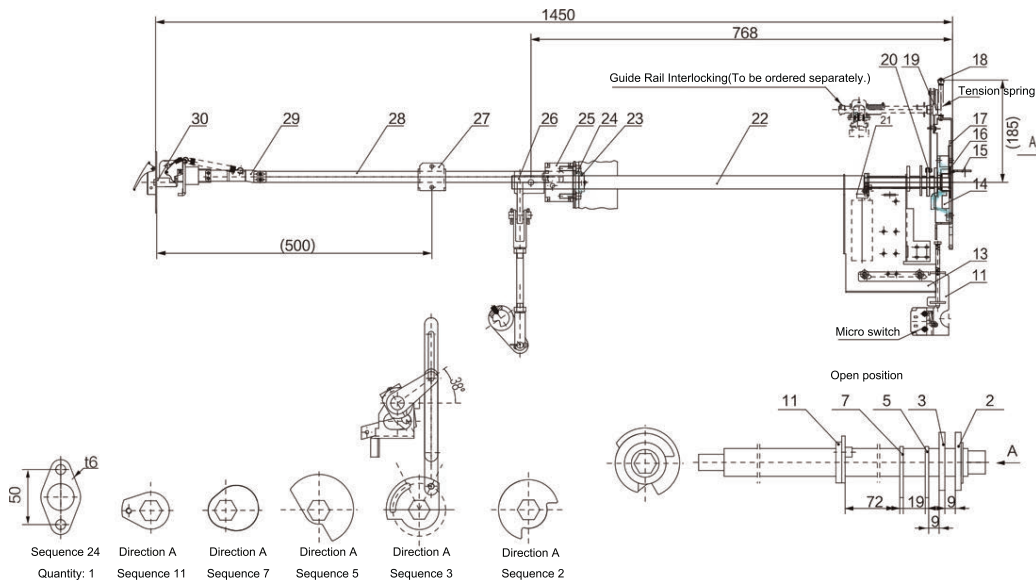
No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1	15	Bent Plate	8XS.161.059	1
2	Sector Plate	8XS.192.010	1	16	Slide Block	8XS.143.010	2
3		8XS.192.011	1	17	Toothed Insert Plate	8XS.151.044	1
4	Bushing	8XS.210.014.1	2	18	operating shaft	8XS.200.253	1
5	Sector Plate	8XS.151.041	1	19	Limit Sleeve	8XS.211.057	1
6	Bushing	8XS.211.061	1	20	Shim plate	KYN.8XJ.157.044	选
7	Sector Plate	8XS.151.039	1	21	Fixed base	KYN.5XJ.143.055	1
8	Bushing	8XS.211.062	1	22	Connecting rod assembly	KYN.5XJ.233.052	1
9	Screw M5X12	GB/T 70.1-2000	1	23	Bracket	KYN.8XJ.043.254	1
10	Sector Plate	8XS.151.042	1	24	Moving plate	KYN.5XJ.150.083	1
11		8XS.151.043	1	25	Bracket assembly	KYN.5XJ.043.058	1
12	Bent Plate	8XS.161.058	1	26	Interlock block assembly	KYN.5XJ.143.056	1
13	Support	8XS.043.022	1	27	Bushing	8XS.211.060	1
14	Protective Sleeve	KYN.8XJ.211.362	1	28	Nameplate	8XS.860.010	1



Motor-operated structure to be used with our motorized earthing switch; otherwise consult our technical department.

1. Pull-Plate Type KYN.5XJ.363.010.6S

Principle:When the handle is inserted, sequence 15 bent plate is pressed downward, triggering the limit (micro) switch and cutting off the motor signal, thereby ensuring manual operation priority over electrical operation.



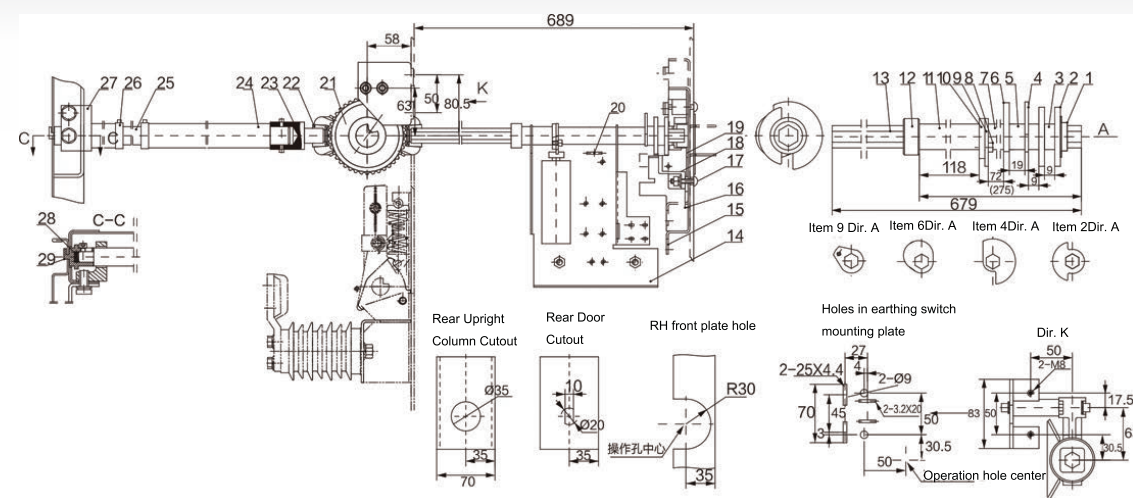
2. Pull-Plate Type KYN.5XJ.363.010.6S – Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1	16	Cover	8XS.017.011.1	1
2	Sector Plate	8XS.192.010	1	17	Slider	8XS.143.010	2
3		KYN.8XJ.191.011.5/TRD	1	18	Tension spring	8WXJ.288.087	1
4	Shaft Sleeve	8XS.210.014.1	2	19	plate	KYN.5XJ.174.010.33/XJ	1
5	Sector Plate	8XS.151.041	1	20		KYN.5XJ.174.010.33-1/XJ	1
6	Shaft Sleeve	8XS.211.061	1	21	Toothed Insert Plate	8XS.151.044	1
7	Sector Plate	8XS.151.039	1	22	Operating Shaft	KYN.8XJ.200.253	1
8	Shaft Sleeve	8XS.211.062	1	23	Limit Sleeve	8XS.211.057	1
9	ScrewM5X12	GB/T 70.1-2000	1	24	Shaft Sleeve	KYN.8XJ.213.032.1/SAP	1
10	Sector Plate	8XS.151.042	1	25	Fixed base	KYN.5XJ.143.055	1
11	bend plate	KYN.5XJ.161.058.25/TRD	1	26	Connecting rod	KYN.5XJ.233.052	1
12	Sector Plate	8XS.151.043	1	27	Bracket	KYN.8XJ.043.254	1
13	bend plate	8XS.161.058	1	28	Movable plate welding	KYN.5XJ.150.083	1
14	Support	8XS.043.022	1	29	Bracket assembly	KYN.5XJ.043.058	1
15	bend plate	KYN.8XJ.161.059.53/TSD	1	30	Interlock block	KYN.5XJ.143.056	1



Motor-operated structure to be used with our motorized earthing switch; otherwise consult our technical department.

1. 5XS.577.1002
5XS.577.1002.3 Assembly sketch



Features:

- Bidirectional (full-tooth) bevel gears are used to realize interlocking of the rear door (rear cover plate)



5XS.245.002.1 Bevel Gear Assembly
(This interlocking set includes the bevel gear assembly)

2. 5XS.577.1002.3-Component List

No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1
2	Limit Plate	8XS.151.084	2
3	Bushing	8XS.210.014.1	2
4	Sector Plate	8XS.151.041	1
5	Shaft Sleeve	8XS.210.061	1
6	Sector Plate	8XS.151.039	1
7	Shaft Sleeve	8XS.211.062	1
8	Screw M5X12	GB70-85	1
9	Sector Plate	8XS.151.042	1
10		8XS.151.043	1
11	Shaft Sleeve	8XS.210.014.3	1
12	Limit Sleeve	8XS.210.322	1
13	Operating Rod	8XS.174.214	1
14	Bent Plate	8XS.161.058	1
15		8XS.161.059	1
16	Slider	8XS.143.010	2
17	Bolt M6X25	GB12-88	2
18	Support Base	8XS.043.022	1

No.	Name	Code	Quantity
19	Cover	8XS.017.011.2	1
20	Toothed Insert Plate	8XS.151.044	1
21	Bevel Gear	5XS.245.002.1	2
22	Connecting Block	8XS.143.108.2	1
23	Coupling Sleeve	5XS.259.001.1	1
24	Shaft Sleeve	8XS.211.060	2
25	Shaft Sleeve (5XS.577.1002)	8XS.200.011.1 (For1500)	1
26		8XS.200.011.2 (For1660)	
27	Shaft Sleeve (5XS.577.1002.1)	8XS.200.012.1 (For1660)	
28		8XS.200.012.2 (For1660)	
29	Limit Sleeve	8XS.211.057	2
30	Support Base	8XS.043.019.7	1
31	Compression Spring	8WXX.282.201 (For5XS.577.1002.1)	1
32	Cable Sleeve	8XS.211.059 (For5XS.577.1002) 8XS.211.201 (For5XS.577.1002.1)	1
33	Bent Plate	8XS.161.874	1
34	Fixing Block	8XS.143.501	1
35	Nameplate	8XS.860.010	1



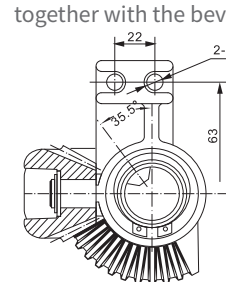
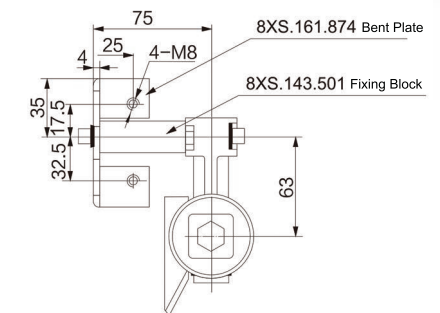
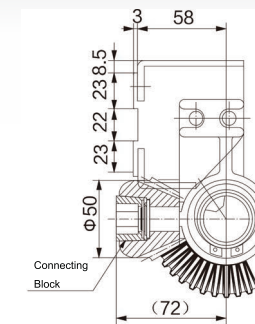
1.Bevel Gear Assembly Models and Installation Dimensions

Please specify if cast steel is required.



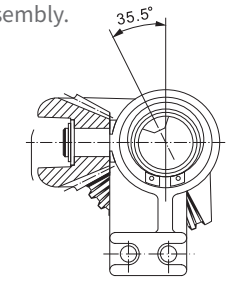
Bevel Gear Device

1. Please specify the bevel gear model when placing an order.
2. The bent plate (Model 8XS.161.874) and fixing block (Model 8XS.143.501) are optional items and are not supplied together with the bevel gear assembly.

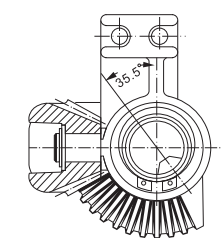


Bevel Gear Assembly

5XS.245.001.1

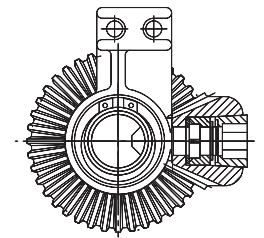


Bevel Gear Assembly
5XS.245.001.4



Bevel Gear Assembly

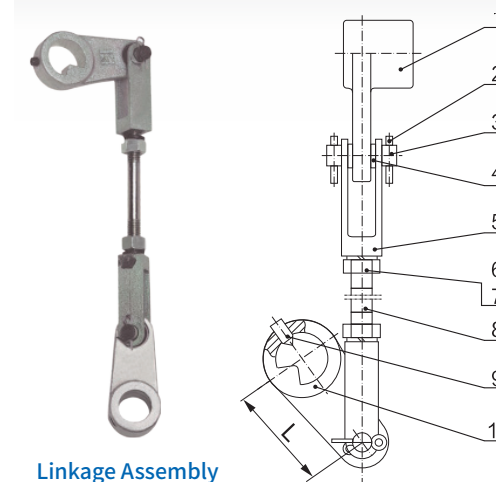
5XS.245.001.2



Bevel Gear Assembly

5XS.245.002.4

2. Linkage Assembly 5XS.233.030.1~3-Component List



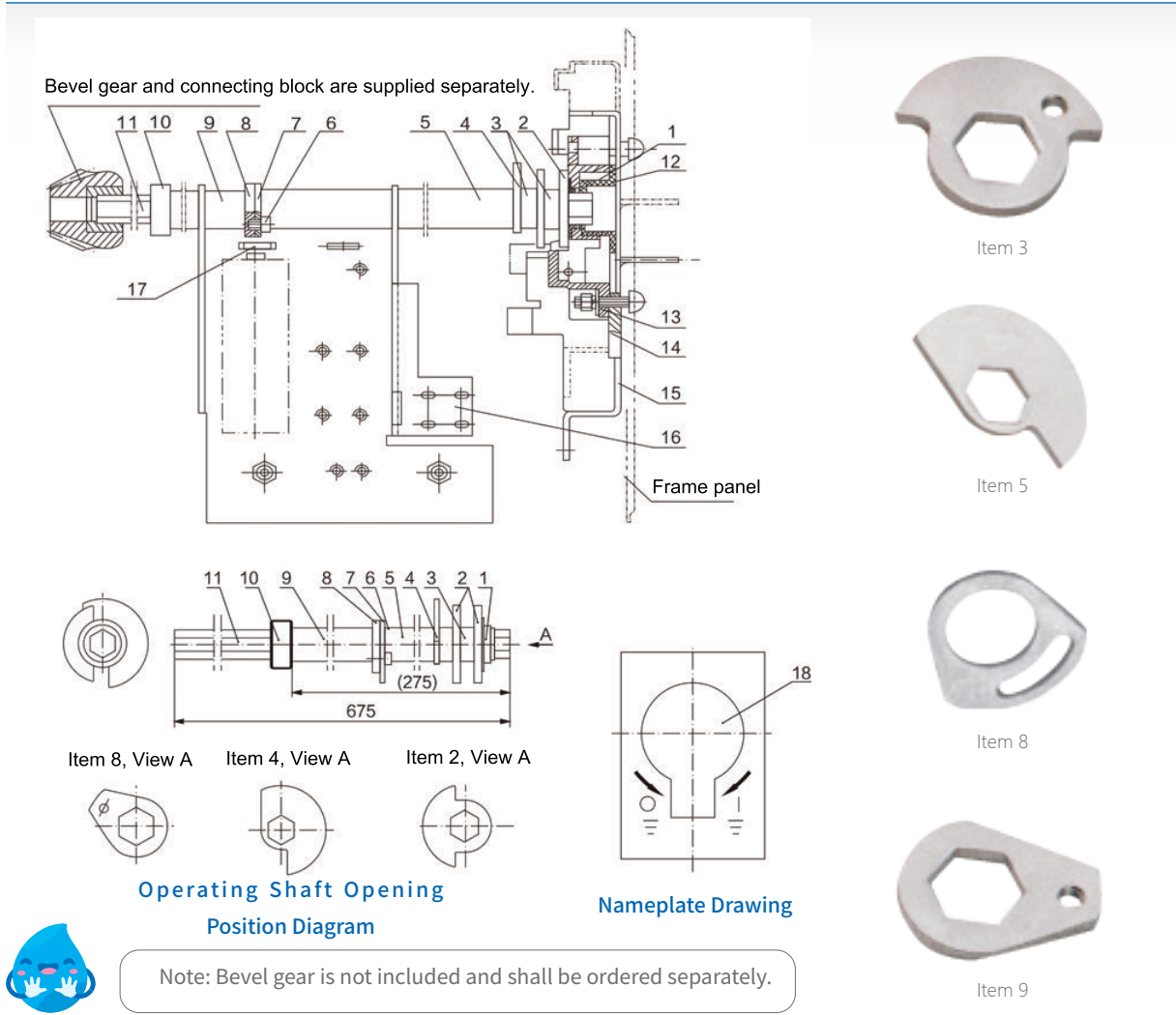
Linkage Assembly



Note: The standard crank arm length for the linkage assembly is $L=60$. If $L=80$ is required, please specify when ordering.

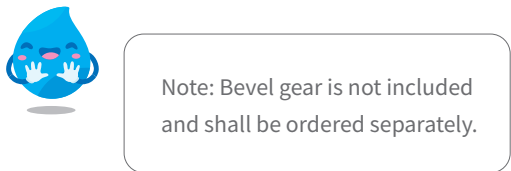
No.	Name	Code	Quantity	L
1	Crank Arm	5XS.151.016.1	1	
2	Split Pin4X20	GB91-86	4	
3	Clevis Pin12X40	GB880-86	2	
4	Washer	8XS.950.010	4	
5	Clevis	8XS.257.010	2	
6	Nut M12	GB6170-86	2	
7	Washer 12	GB93-87	2	
8	Stud M12X120	GB93-87	1	
9	Screw M8X16	GB78-85	1	
10	Crank Arm	5XS.233.030.1 Link Rod	1	60
11		For5XS.151.017		
12		5XS.233.030.3 Link Rod	1	80
13		For5XS.151.017.1		

I. 5XS.577.1001 (for Bevel Gear Transmission Operation)



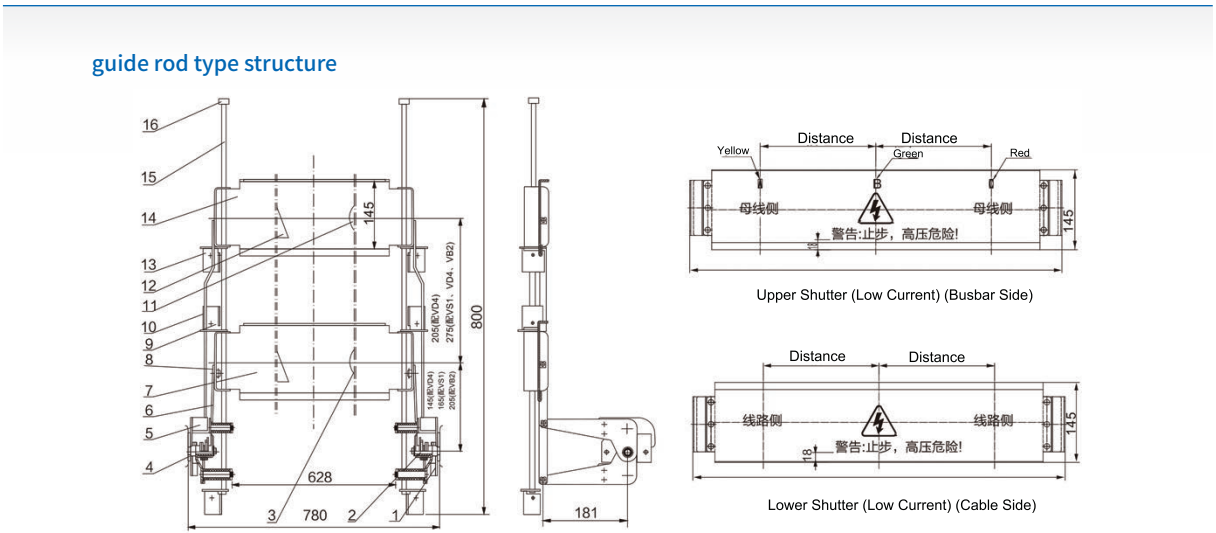
2.5XS.577.1001 -Matching list

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bearing	8XS.263.011	1	10	Limit Sleeve	8XS.210.322	1
2	Limit Plate	8XS.151.084	2	11	Operating Rod	8XS.174.214	1
3	Shaft Sleeve	8XS.210.014.1	2	12	Cover	8XS.017.011.2	1
4	Sector Plate	8XS.151.041	1	13	Support	5XS.043.022	1
5	Shaft Sleeve	8XS.210.041.2	1	14	Slider	8XS.143.010	2
6	Screw M5X12	GB70-85	1	15	Bent Plate	8XS.161.059	1
7	Sector Plate	8XS.151.042	1	16	Bent Plate	8XS.161.058	1
8	Sector Plate	8XS.151.043	1	17	Toothed Insert Plate	8XS.151.044	1
9	Shaft Sleeve	8XS.210.041.3	1	18	Nameplate	8XS.861.010	1



Shutter Mechanism Assembly

1.Shutter Mechanism Assembly 5XS.320.010 (800mm)-Installation Diagram



2. Shutter Mechanism Assembly 5XS.320.010 (800mm)-Component List

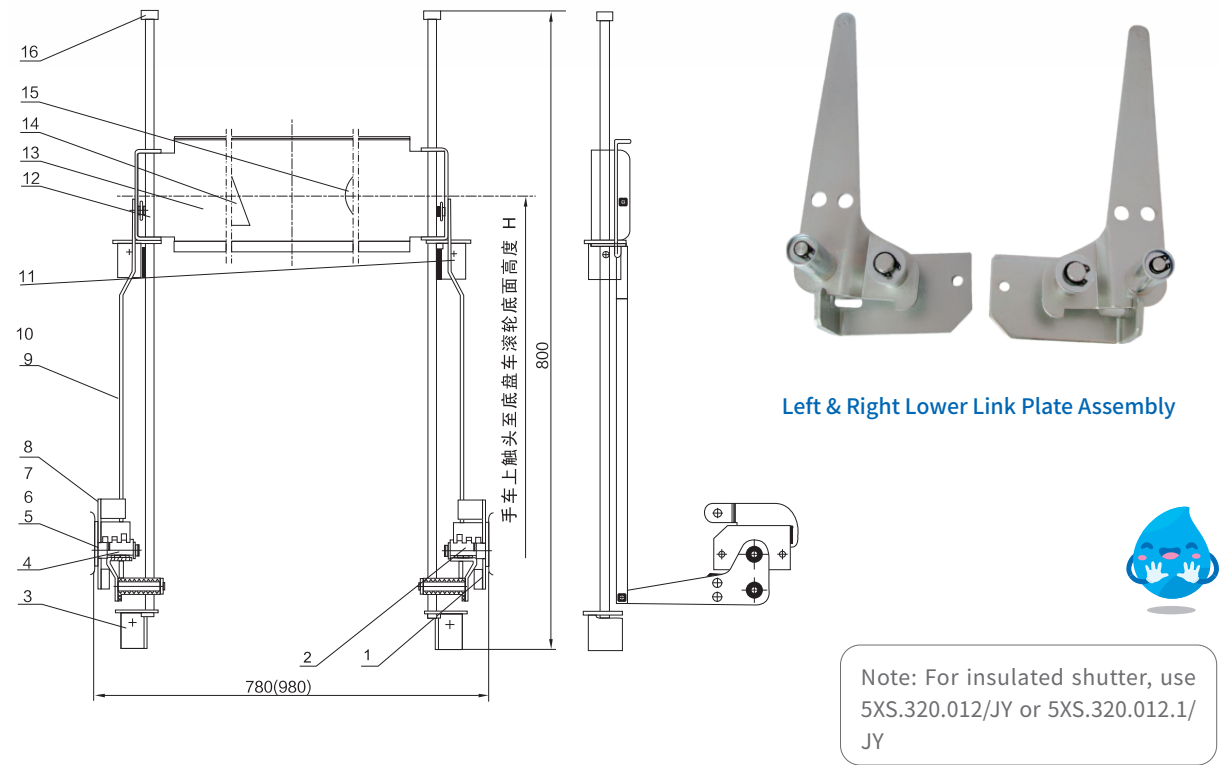
No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Support Bracket	8XS.123.011	1	12	Connecting Plate	5XS.174.015.1(ForVD4、40A) 5XS.174.015.2(ForVD4、31.5KA) 5XS.174.015.3(ForVS1) 5XS.174.015.4(ForVB1)	2
2	Connecting Plate	5XS.235.011	2	13	Indicator Plate	8XS.866.012	1
3	Indicator Plate	8XS.866.014	2	14	Indicator Plate	8XS.866.013	2
4	Connecting Plate	5XS.235.010	1	15	Plate	8XS.123.012	3
5	Support Bracket	8XS.123.010	1	16	Upper Shutte	8XS.320.011	1
6	Connecting Plate	5XS.174.016.1(ForVD4) 5XS.174.016.2(ForVS1) 5XS.174.016.3(ForVB2)	2	17	Guide Rod	8XS.234.011(ForVD4VS1) 8xS.234.011.1(ForVB2)	2
7	Lower Shutter	8XS.320.010	1	18	Limit Sleeve	8XS.210.011	2
8	Stop Clip	8XS.123.010	8				
9	Plate	8XS.123.013	3				

3. Component List for Shutters of Other Specifications

Code	5XS.320.010.1	5XS.320.010.2	5XS.320.010.3	5XS.320.010.4	5XS.320.010.5	Note: If insulated shutters are required, please specify separately.
Panel Width	650mm	700mm	840mm	900mm	1000mm	
Upper Shutter	8XS.320.011.1	8XS.320.011.2	8XS.320.011.3	8XS.320.011.4	8XS.320.011.5	
Lower Shutter	8XS.320.010.1	8XS.320.010.2	8XS.320.010.3	8XS.320.010.4	8XS.320.010.5	
Insulated Shutter	5XS.320.013.7	5XS.320.013.6	5XS.320.012.2	5XS.320.012.1	5XS.320.012.4	



1. 800mm Upper shutter mechanism 5XS.320.012
1000mm 5XS.320.012.1 Installation diagram

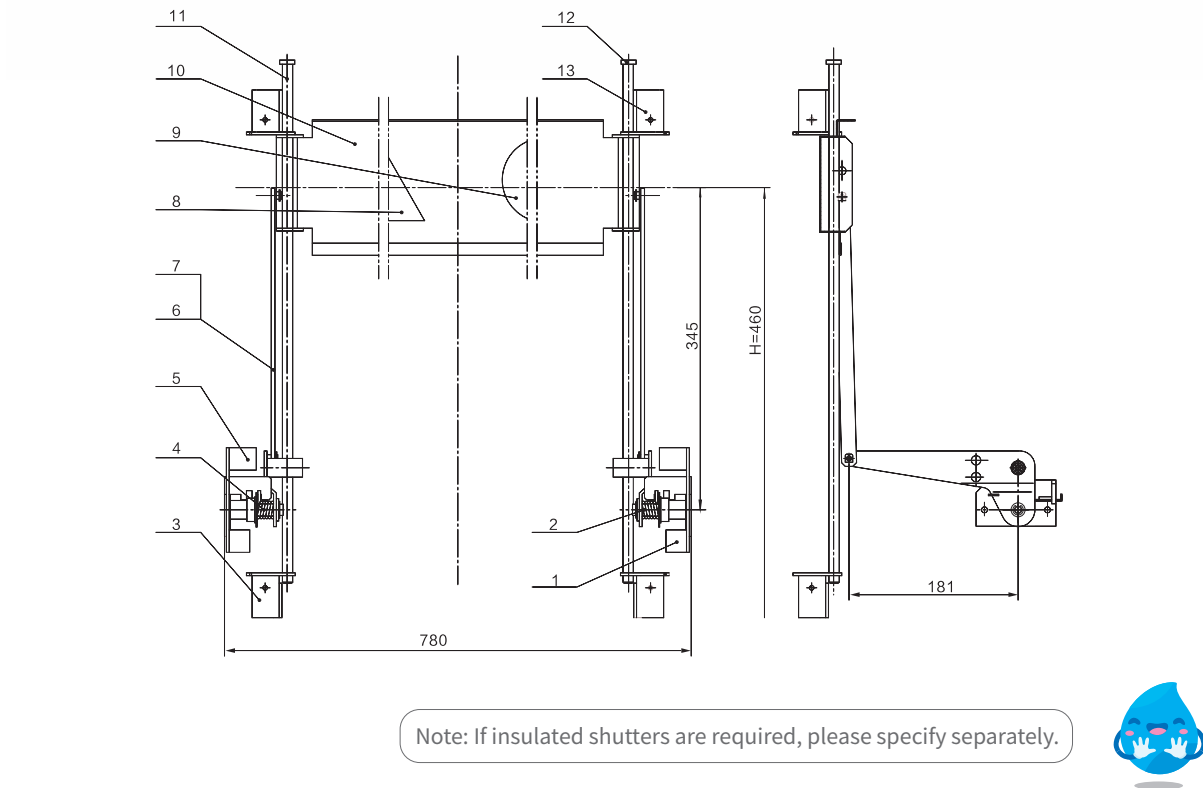


2. 800mm Upper shutter mechanism 5XS.320.012
1000mm 5XS.320.012.1 -Matching list

No.	Name	Code	Quantity
1	Right Support Bracket	8XS.123.011	1
2	Lower Link Plate (Right)	5XS.174.004	1
3	Bracket Plate	8XS.123.012	2
4	Lower Link Plate (Left)	5XS.174.003	1
5	Washer 6	GB97.1-85	14
6		GB93-87	8
7	Bolt M6X12	GB5783-86	8
8	Left Support Bracket	8XS.123.010	1
9	Stop Clip	DK-8	4

No.	Name	Code	Quantity
10	Welded Link Plate	5XS.174.015.1 (H=535、Same as VD4、40kA)	2
		5XS.174.015.2 (H=465、Same as VD4、31.5kA)	
		5XS.174.015.3 (H=555、Same as VS1)	
11	Bracket Plate	8XS.123.013	2
12	Guide Rod	8XS.234.011	2
13	Upper Shutter	8XS.320.011(For800mm) 8XS.320.011.5(For1000mm)	1
14	Indicator Plate	8XS.866.013	1
15		8XS.866.012	1
16	Limit Sleeve	8XS.210.011	2

800mm Lower Shutter Mechanism Assembly 5XS.320.014
1000mm 5XS.320.014.1 Diagram



800mm Lower Shutter Mechanism Assembly 5XS.320.014
1000mm 5XS.320.014.1 -Matching list

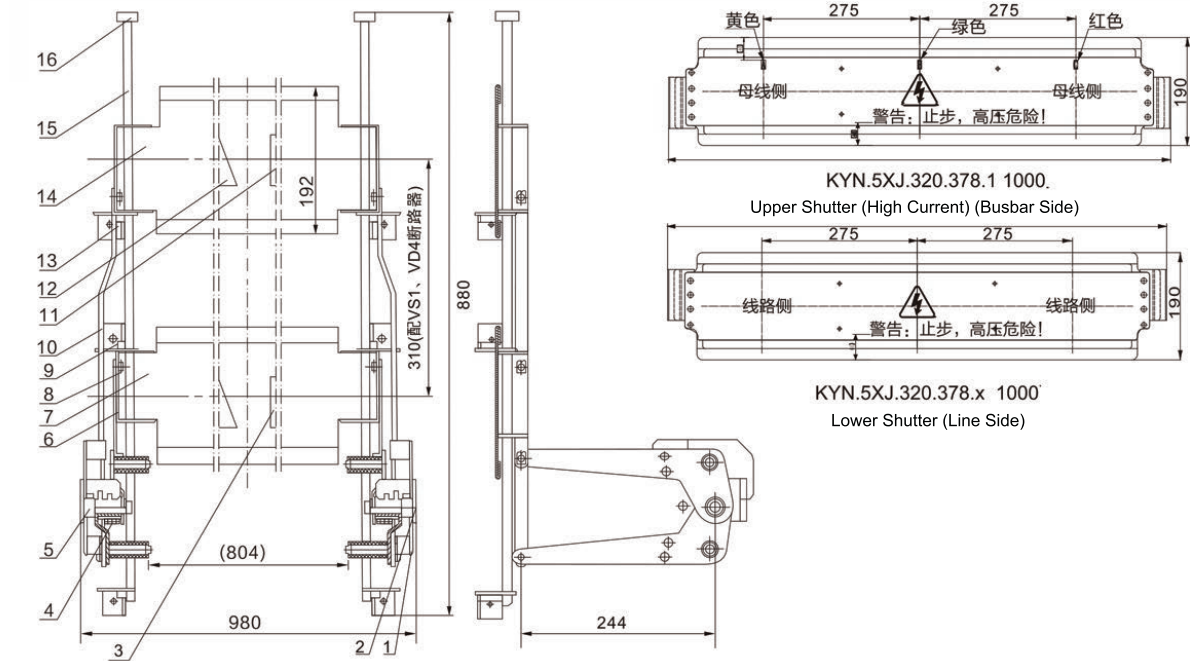
No.	Name	Code	Quantity
1	Right Support Bracket	8XS.123.011	1
2	Right Connecting Plate	5XS.235.011.2	1
3	Bracket Plate	8XS.123.012	2
4	Plate	5XS.235.010.2	1
5	Left Support Bracket	8XS.123.010	1
6	Stop Clip	DK-8	4
7	Connecting Plat	5XS.174.016.305	2

No.	Name	Code	Quantity
8	Indicator Plate	8XS.866.012	1
9		8XS.866.013	1
10	Lower Shutter	8XS.320.010 (For800mm) 8XS.320.011.5 (For1000mm)	1
11	Guide Rod	KYN.8XJ.234.047.560	2
12	Limit Sleeve	8XS.210.011	2
13	Bracket Plate	8XS.123.013	2



1.Installation Schematic Diagram of Shutter Mechanism Device 5XS.320.011
(for 1000mm Wide Metal-Clad Switchgear)

(First Generation Cabinet, Guide Rod Type Solution)



2.Shutter Mechanism Device 5XS.320.011 -Matching List

No.	Name	Code	Quantity
1	Right Support Bracket	8XS.123.276	1
2	Right Link Plate	5XS.235.012	1
3	Indicator Plate	8XS.866.014	2
4	Right Link Plate	5XS.235.013	1
5	Left Support Bracket	8XS.123.275	1
6	Link Plate Weldment	5XS.174.281	2
7	Lower Shutter	8XS.320.273	1
8	Retaining Clip 10	DK-10	8

No.	Name	Code	Quantity
9	Bracket Plate	8XS.123.278	3
10	Link Plate Weldment	5XS.174.282	2
11	Indicator Plate	8XS.866.012	1
12		8XS.866.013	2
13	Bracket Plate	8XS.123.277	3
14	Upper Shutter	8XS.320.274	1
15	Guide Rod	8XS.234.272	2
16	Limit Sleeve	8XS.210.011	2

3.Matching List for Other Shutter Specifications

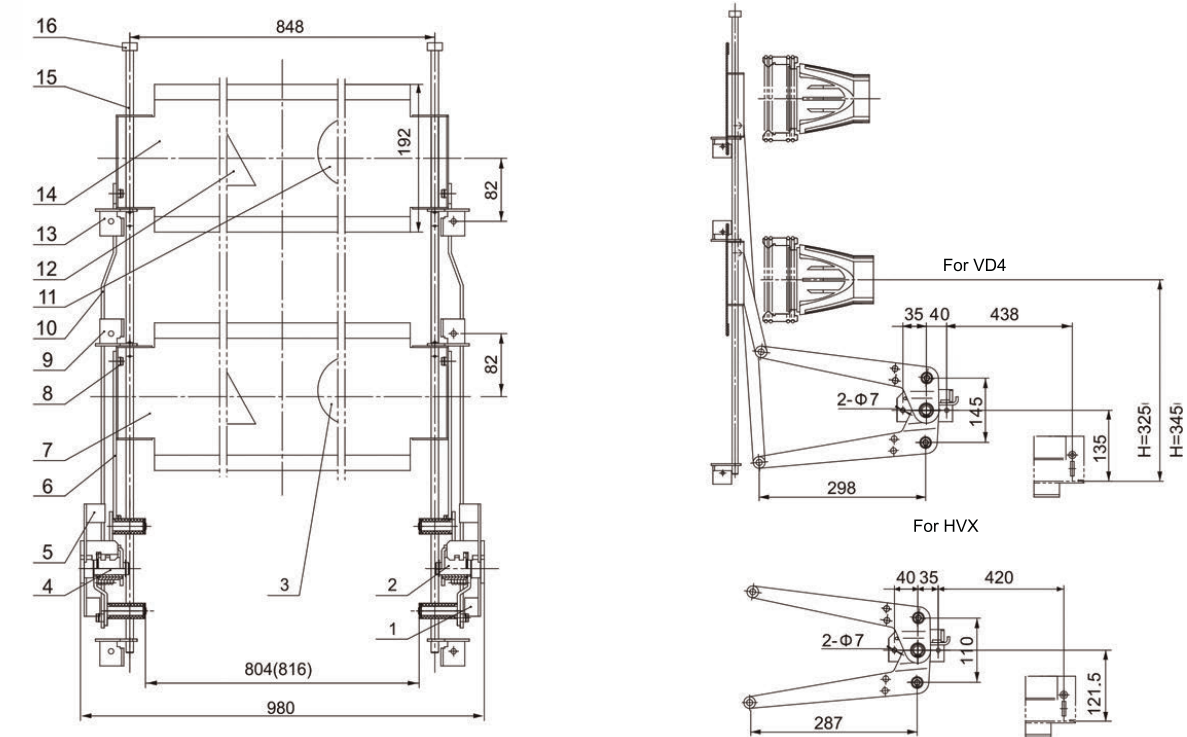
Code	5XS.320.011.1	5XS.320.011/JY	5XS.320.011.2	5XS.320.011.3
Cabinet Width	800mm	1000mm (绝缘)	1100mm	1200mm
Upper Shutter	8XS.320.274.1	5XS.320.275	8XS.320.274.2	8XS.320.274.3
Lower Shutter	8XS.320.273.1	5XS.320.275	8XS.320.273.2	8XS.320.273.3



Note: 5XS.320.275 is an insulated shutter, consisting of a DMC plate in the middle and steel plates at both ends.

1.Installation Schematic Diagram of Shutter Mechanism Device 5XS.320.011/24
(for 1000mm Wide 24kV Metal-Clad Switchgear)

(First Generation Cabinet, Guide Rod Type Solution)



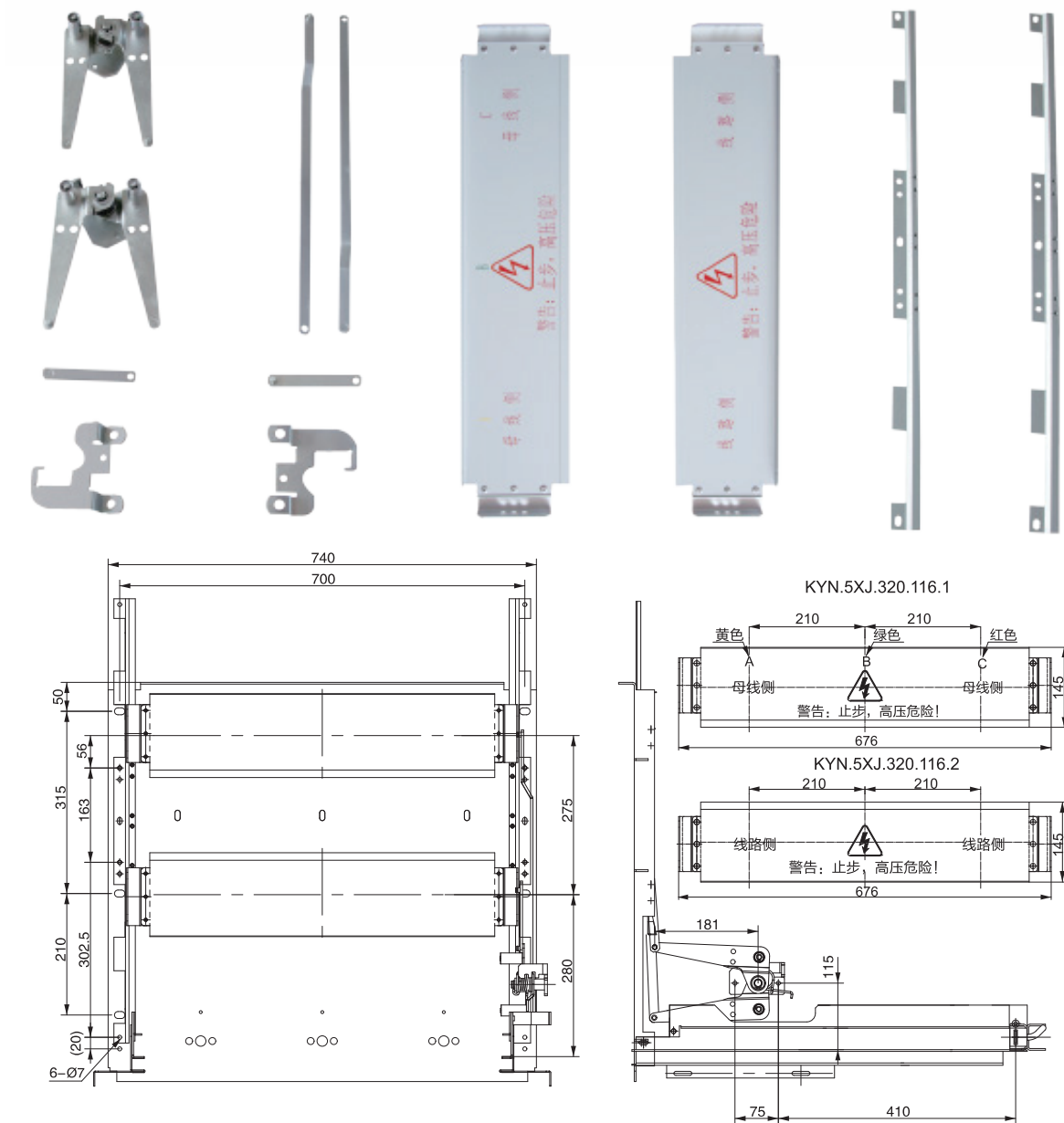
Note:
1. When ordering, please specify: for VD4 or HVX circuit breaker, with shaft center distance 804mm or 816mm;
2. For insulated shutter, use 5XS.320.011/24/JY or 5XS.320.011/24/HVX/JY;
3.if PT is required please specify.

2.Shutter Mechanism Device 5XS.320.011/24 -Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Right Support Bracket	8XS.123.276.1	1	15	Lower Shutter	8XS.320.273	1
2	Right Link Plate	5XX.235.012.10 (for VD4, 804)	1	16	Stop clip 10	DK-10	8
3		5XX.235.012.14 (for VD4, 816)		17	Brackte Plate	8XS.123.278	3
4		KYN.5XJ.235.030 (for HVX, 804)		18	Link Plate	5XS.174.282.585 (ForVD4, Low)	2
5		KYN.5XJ.235.028 (for HVX, 816)		19		5XS.174.282.605 (ForVD4, High)	
6	Plate	8XS.866.014	1	20		5XS.174.282.555 (For HVX)	
7	Left Link Plate	5XX.235.013.10 (for VD4, 804)	1	21	Indicator Plate	8XS.866.012	1
8		5XX.235.013.14 (for VD4, 816)		22	Plate	8XS.866.013	2
9		KYN.5XJ.235.029 (for HVX.804)		23	Bracket Plate	8XS.123.277	3
10		KYN.5XJ.235.027 (for HVX, 816)		24	Upper Shutter	8XS.320.274	1
11	Left Support Bracket	8XS.123.275.1	1	25	Guide Rod	8XS.234.272/24	2
12	Connecting plate	5XS.174.281.150 (配 VD4, 小电流)	2	26	Limit Sleeve	8XS.210.010	2
13		5XS.174.281.170 (配 VD4, 大电流)					
14		5XS.174.281.200 (配 HVX)					

1.800 Shutter Mechanism KYN.5XJ.320.110

(Second Generation Cabinet: Guide Rail Type Solution)



Note: If the SGCC lettering as shown is required, please specify when ordering.



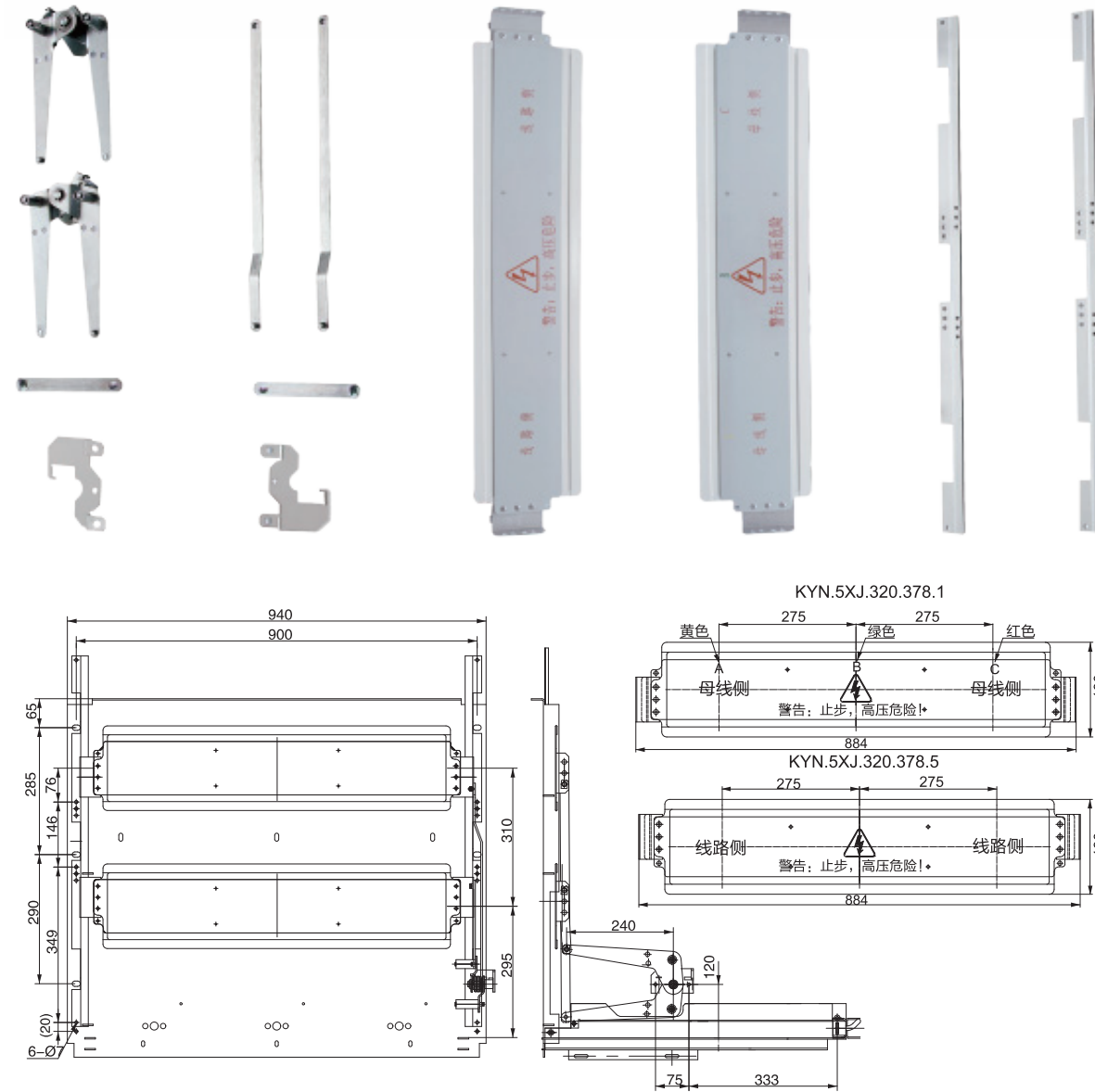
2.Specification

- No need to modify the cabinet structure.
- Please specify the truck model (e.g., VS1, VD4, etc.) when ordering. For special trucks, please provide drawings.
- The standard shutter plate is a metal plate. For an insulated shutter, add /JY after the model number.
- For self-locking function, add /HZS after the model number.

1.1000 Shutter Mechanism KYN.5XJ.320.111 - Universal for VS1 and VD4

(Second Generation Cabinet: Guide Rail Type Solution)

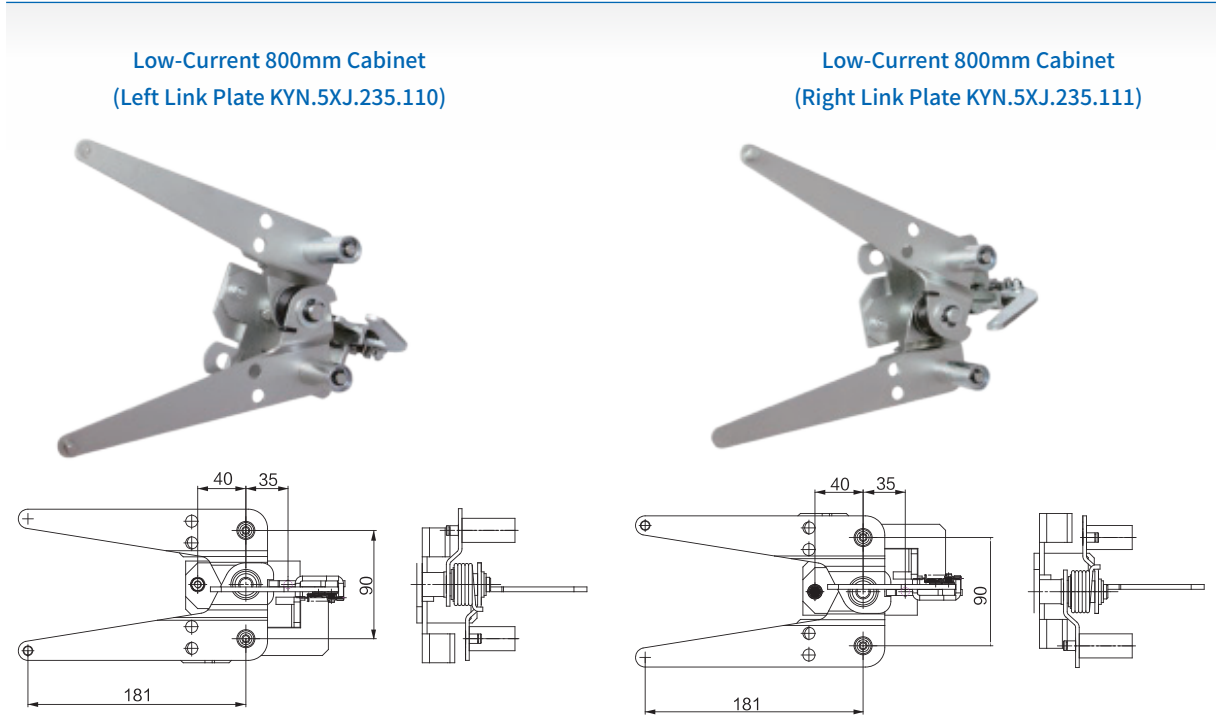
(Sulfurization solutions are available. For details, please consult our technical department.)



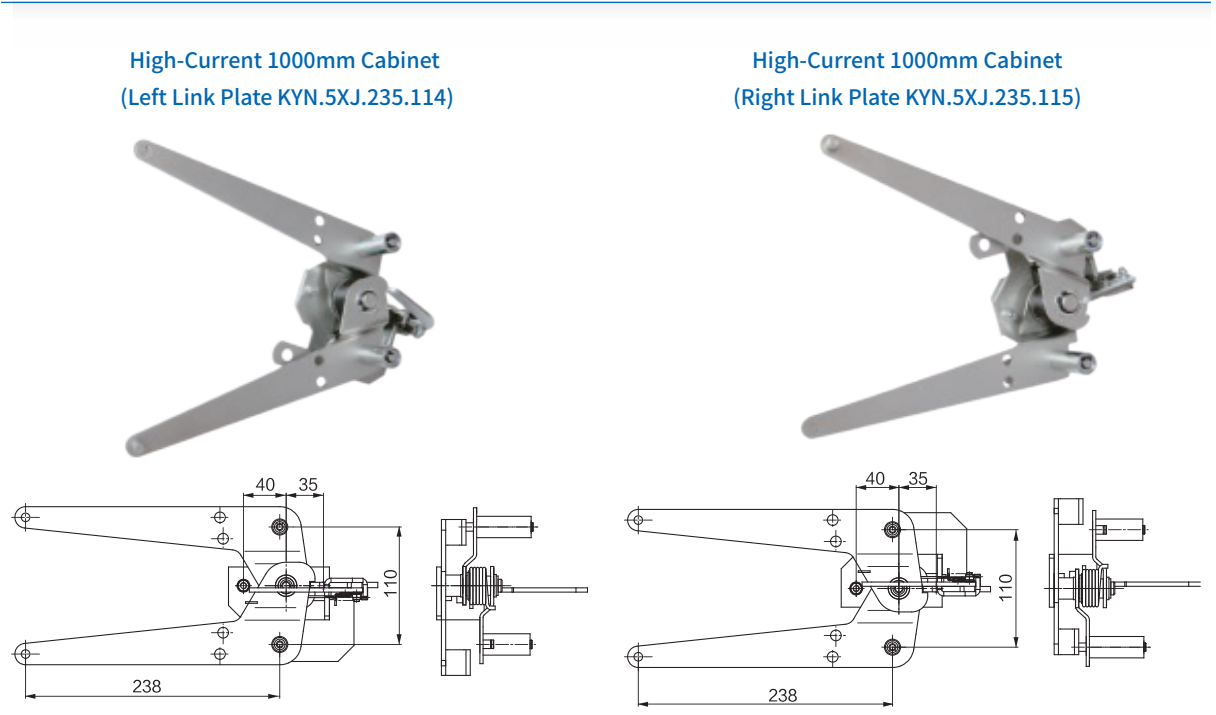
2.Specification

- No need to modify the cabinet structure.
- Please specify the truck model (e.g., VS1, VD4, etc.) when ordering. For special trucks, please provide drawings.
- Shutter mechanism fits standard contact boxes. For raised/taller types, specify when ordering.
- Standard shutter: insulated (clearance limited).Optional metal plate available; specify when ordering.
- For self-locking function, add /HZS after the model number.

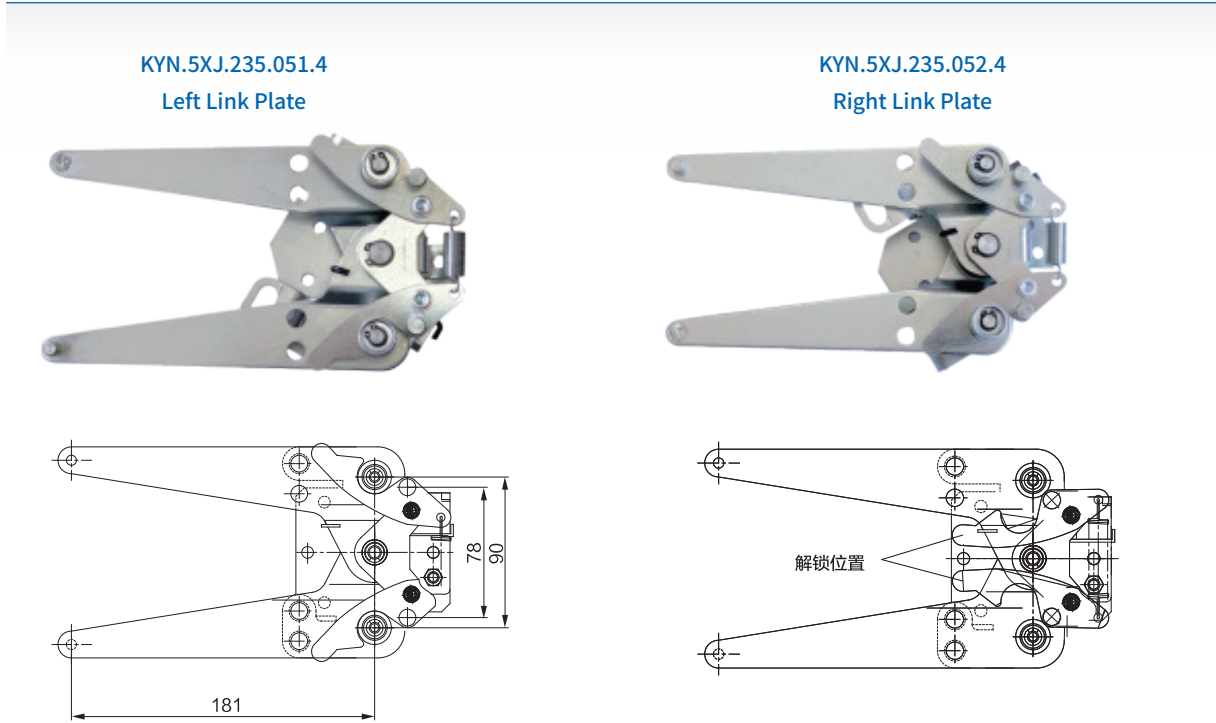
Shutter Mechanism Self-Locking Device 5XS.320.010/HZS



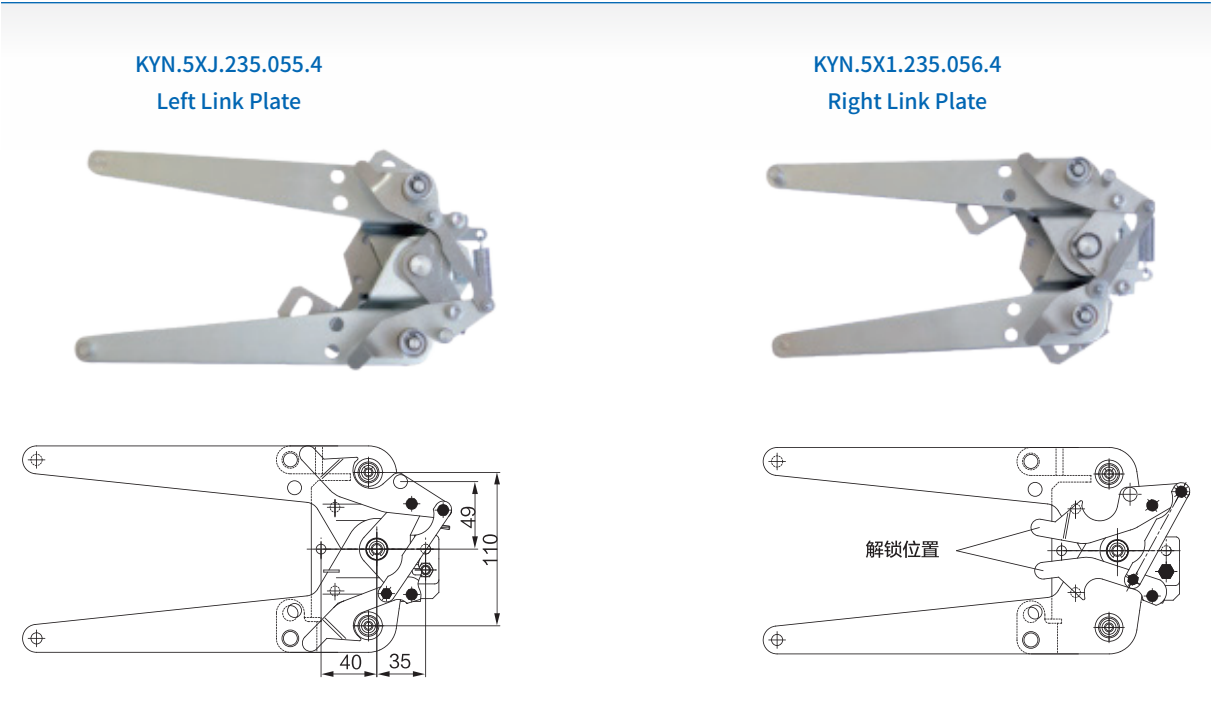
Shutter Mechanism Self-Locking Device 5XS.320.011/HZS



Shutter Mechanism Self-Locking Device 5XS.320.010/HZS1



Shutter Mechanism Self-Locking Device 5XS.320.011/HZS



Guide Rail Interlock Device

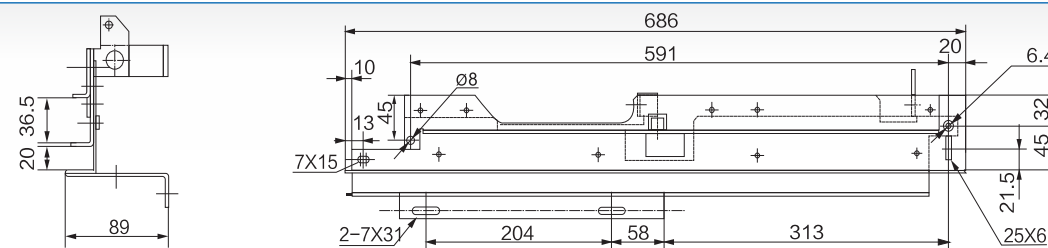


Left Guide Rail 5XS.260.011

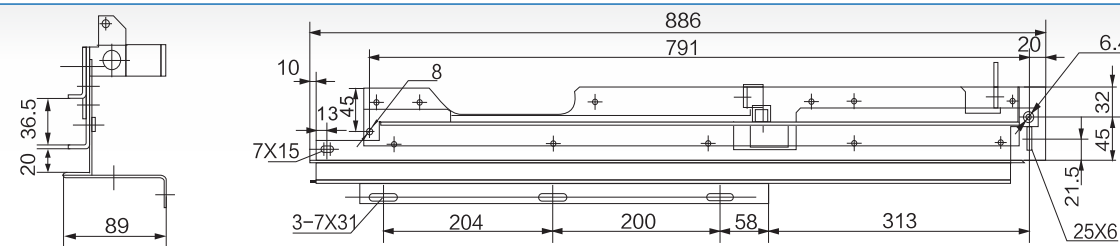
Guide Rail Interlock and Rail Assembly
3WJ.836.001

Guide Rail Interlock Device
5XS.363.011

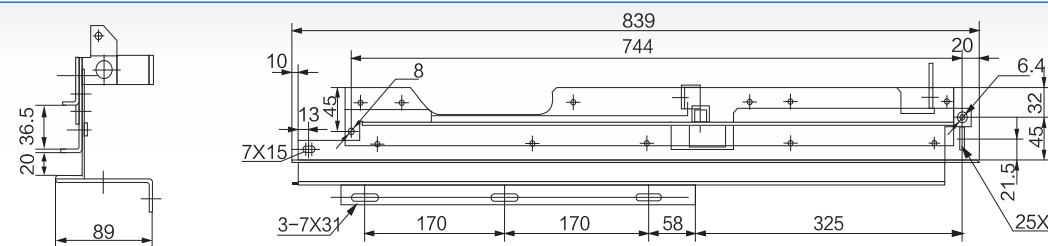
1. Guide Rail 5XS.260.010/011 (Standard Type) Overall



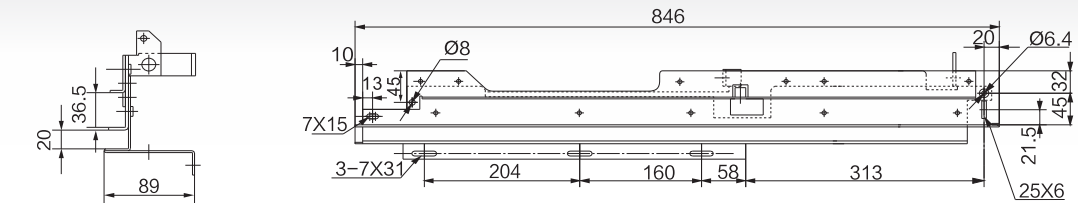
2. Guide Rail 5XS.260.010/011.3 (Extended Type 200, for Retrofitted Withdrawable Circuit)



3. Guide Rail 5XS.260.010/011.10 (Extended Type: Extension 153mm, for VB2)



4.24kV Guide Rail 5XS.260.010/24 5XS.260.011/24 Overall



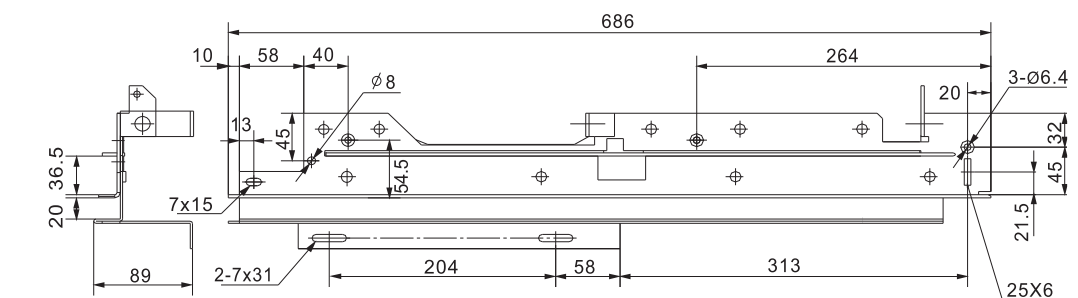
Guide Rail with Grounding Clamp (Copper Rail)



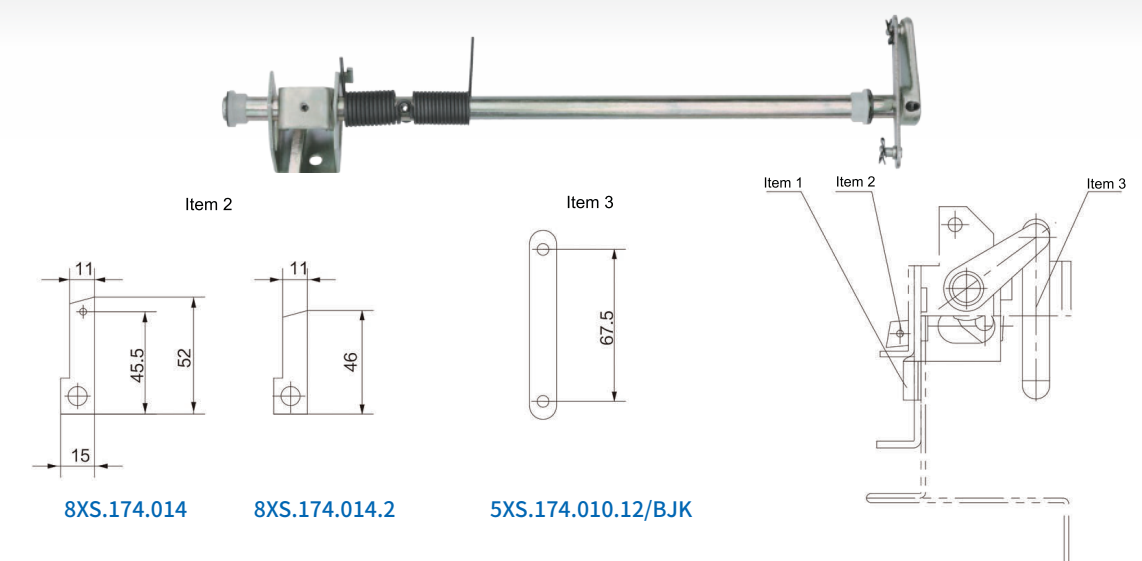
Left Guide Rail 5XS.260.11.20/BJK

Left Guide Rail with Rail Interlock Assembly 3WJ.836.001.1

Guide Rail Interlock Device 5XS.363.011.10

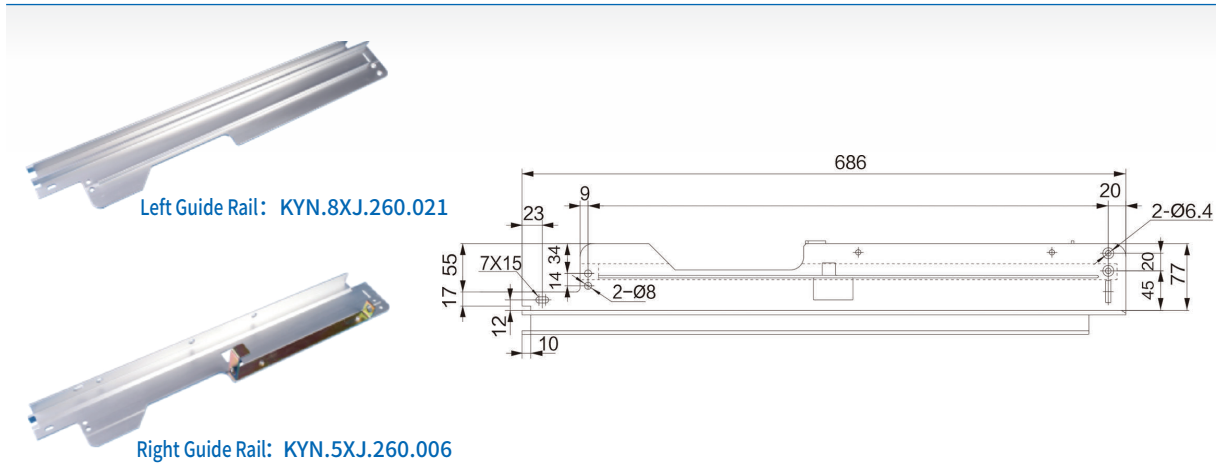


Guide Rail Interlock Device KYN.5XJ.363.031 (VS1) KYN.5XJ.363.031.1 (VD4)

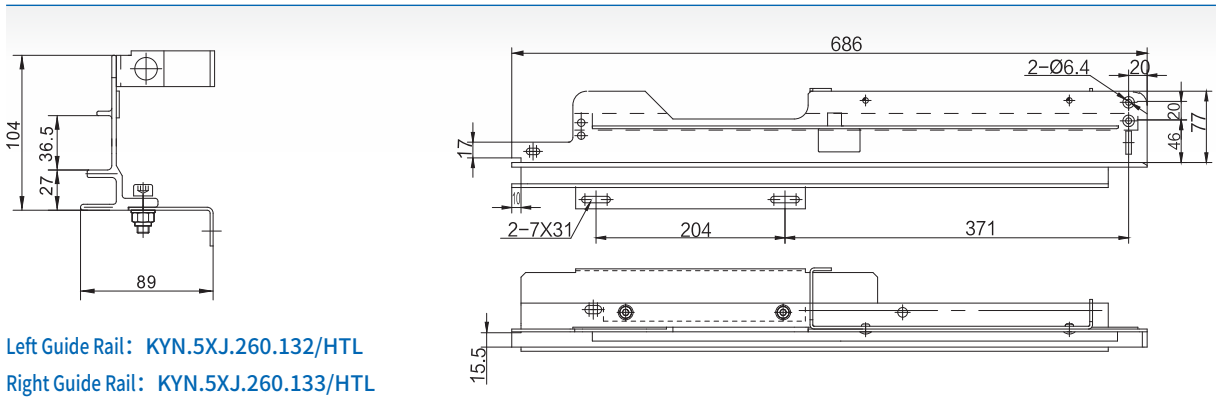


Number	Name	Code	Notes
1	Bent Plate	KYN.8XJ.128.076	Vertical Type with Increased Slope on Both Sides
2	Baffle	8XS.174.014	For use with VS1 (Steel Guide Rail)
2	Baffle	8XS.174.014.2	For use with VD4 (Copper Guide Rail)
3	Link Plate	5XS.174.010.12/BJK	Length can be customized according to requirements

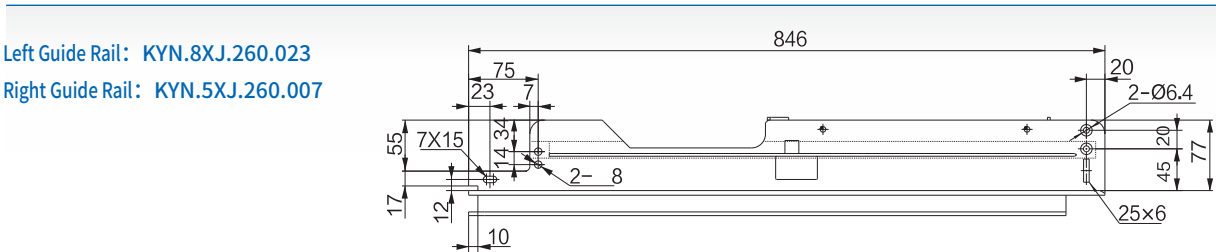
Aluminum Guide Rail



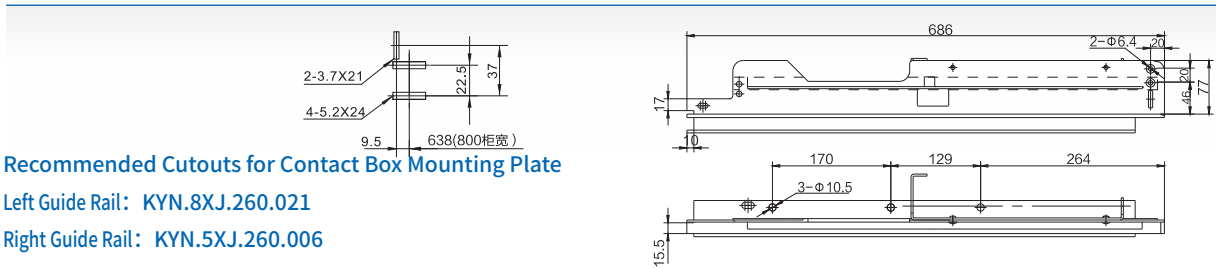
Aluminum Guide Rail with Bent Plate Overall Dimensions (Designed to Meet IP2X)



24kV Aluminum Guide Rail Overall Dimensions (Front Cabinet Depth Increased by 160mm)



Aluminum Alloy Guide Rail Overall Dimensions



KYN-61 Cabinet Accessories

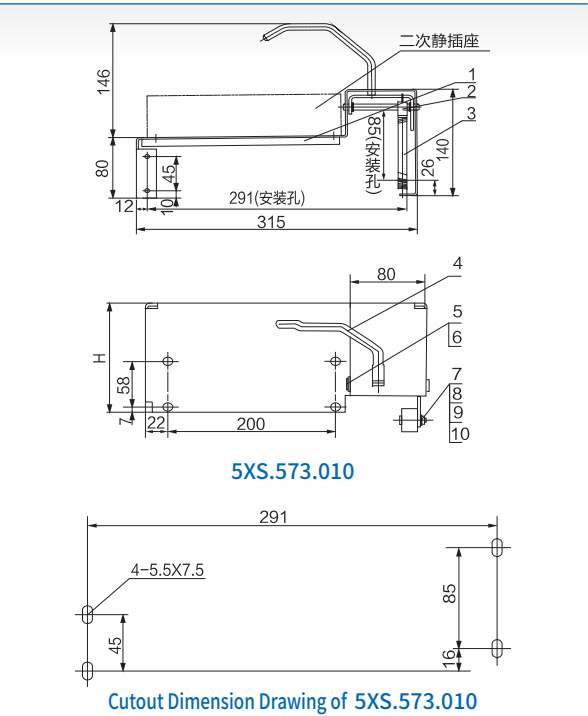
Matching List of Secondary Socket Interlock Mechanism 5XS.573.010

No.	Name	Code	quantity
1	Bracket	8XS.043.017.1-4	1
2	Roller	8XS.224.021	1
3	Tension Spring	8XS.288.015	1
4	Interlock Rod	5XS.174.017	1
5	Shaft	8XS.200.020	1
6	Snap Ring 6	GB896-88	2
7	Screw	8XS.900.010	1
8	Nut M5	GB6170-86	1
9	Washer 5	GB93-87	1
10		GB97.1-85	1



Mounting Dimensions of Secondary Socket Interlock Mechanism 5XS.573.010

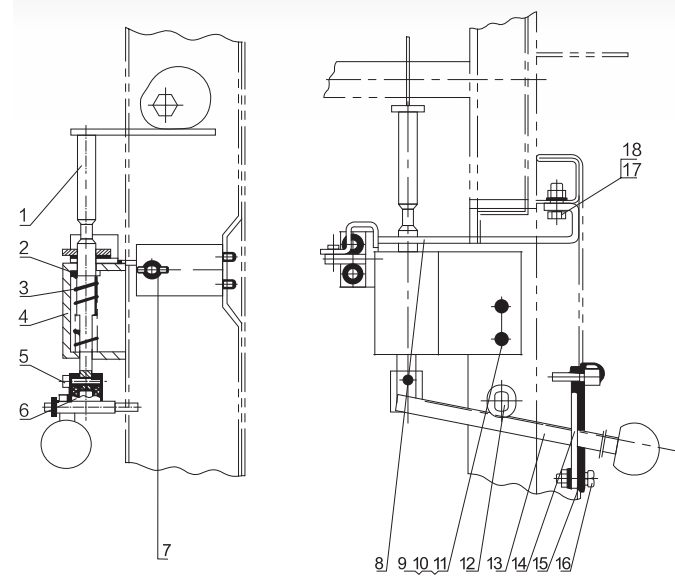
Selection Table for Bracket 8XS.043.017.1-4 in Secondary Socket Interlock Mechanism 5XS.573.010



Model	Code	H (mm)	Notes:
Bracket	8XS.043.017.1	136	For use with VD4 circuit breaker trucks rated ≤ 1250A and other trucks of similar dimensions
	8XS.043.017.2	116	For use with VS1 circuit breaker
	8XS.043.017.3	126	For use with VD4 circuit breaker trucks rated 1600-2500A and other trucks of similar dimensions
	8XS.043.017.4	80	For use with VD4 circuit breaker trucks rated 3150A and other trucks of similar dimensions
	8XS.043.017.14	100	



1.Assembly Schematic Diagram of Interlock Mechanism 5XS.239.010



Item 7:

5XS.043.021

Features:

This mechanism has been improved to allow the earthing switch to be opened even when the lower door is not properly closed, while preventing the truck from entering the working position. To ensure personnel safety, the correct sequence must be followed: first close the lower door properly, then open the earthing switch. Only after these steps can the truck be moved from the test position to the working position.

2.Assembly List of Interlock Mechanism 5XS.239.010



Support Assembly: 5XS.043.020



Item 8



Item 13



Bracket Assembly: 5XS.043.021

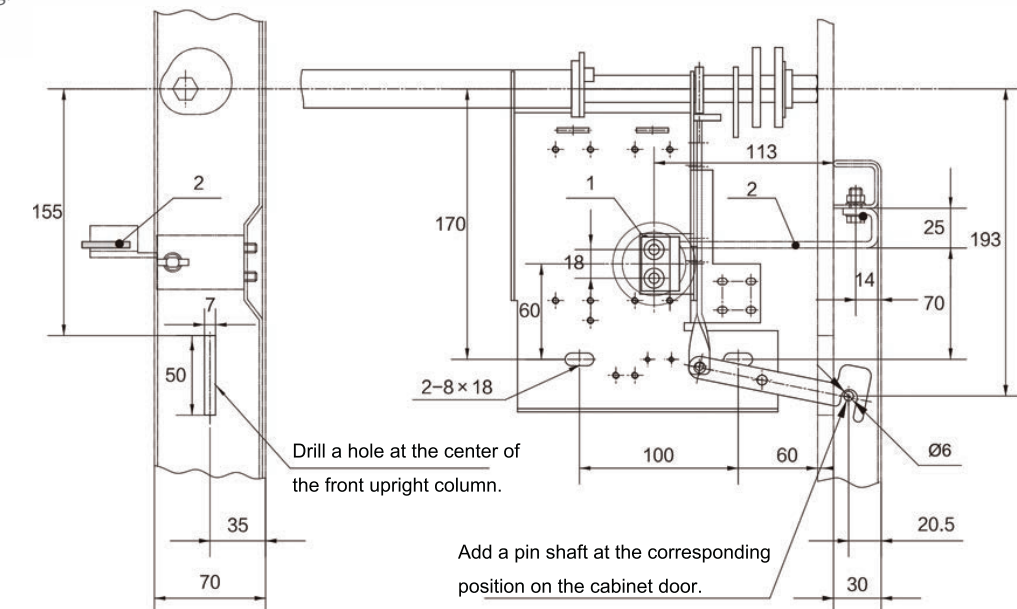
No.	Model	Code	Quantity
1	Pin Shaft	5XS.234.013	1
2	Spring	8XS.282.021	1
3	Pin 3X20	GB879-86	2
4	Support	8XS.043.020	1
5	Screw M5X12	GB70-85	1
6	End Cap	8XS.017.010	1
7	Bracket	5XS.043.021	1
8	Tongue Plate	8XS.060.012	1
9	Screw M6X20	GB70-85	3

No.	Model	Code	Quantity
10	Washer 6	GB93-87	5
11		GB97.1-85	7
12	Pin	8XS.200.015	1
13	Handle	5XS.253.010	1
14	Spacer Plate	8XS.156.011	1
15	Bent Plate	8XS.161.055	1
16	Pin	8XS.993.051	2
17	Screw M8X20	GB5783-85	2
18	Nut M6	GB6170-86	2

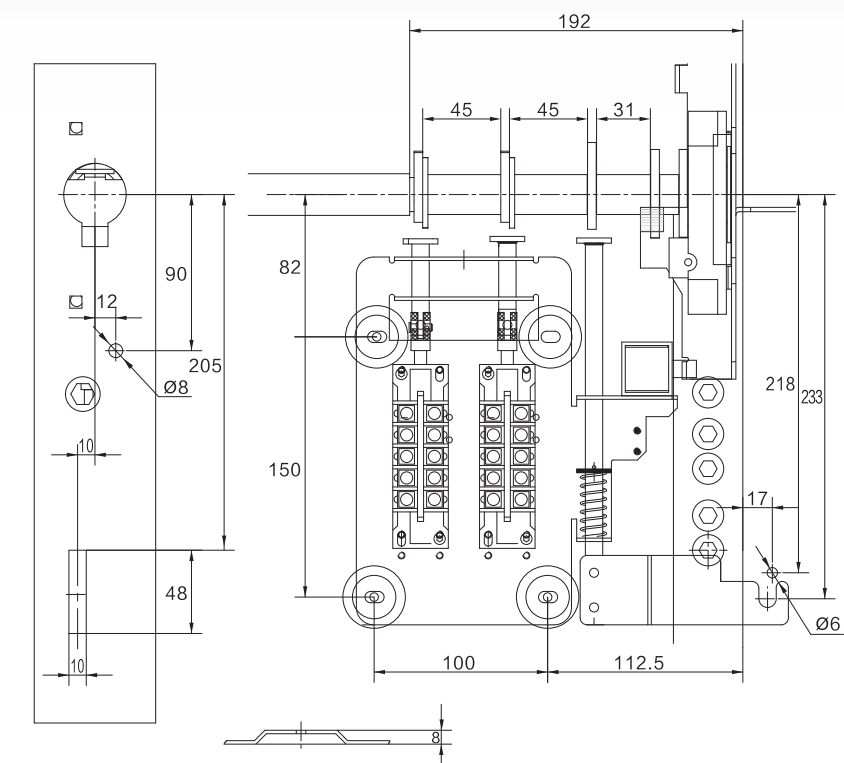


1. Interlock Mechanism KYN.5XJ.239.011

When the earthing switch (ES) is open, the movable plate hooks the door pin, preventing the front lower door from opening.



2. Interlock Mechanism KYN.5XJ.239.012



1. Emergency Trip Device KYN.5XJ.259.003

(Two cutout sizes available, for three-hole cutout dimensions please contact our company)

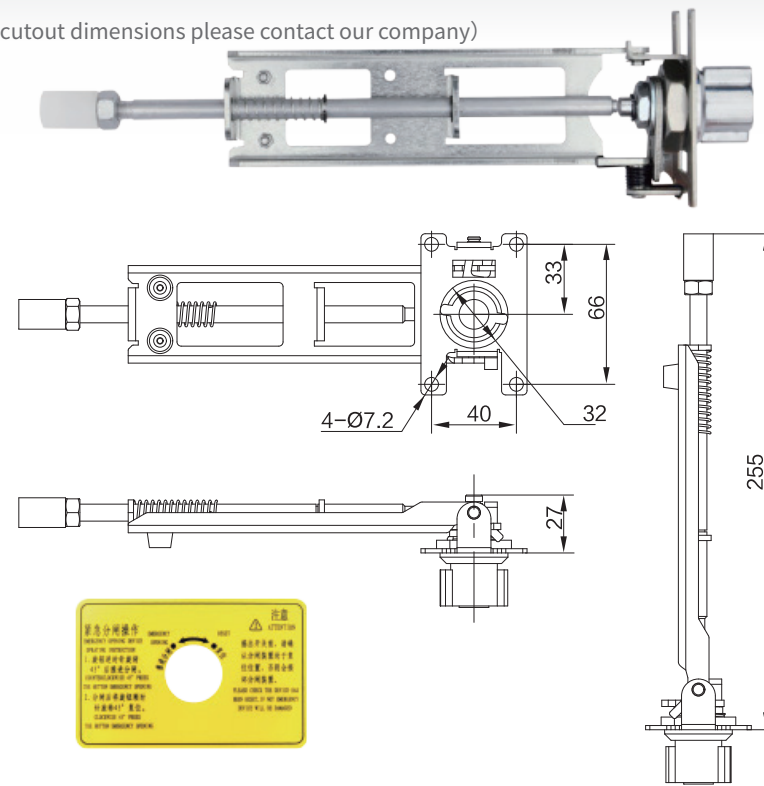
Description:

- Note: Standard total length is 255mm. If other lengths are required, please specify when ordering.

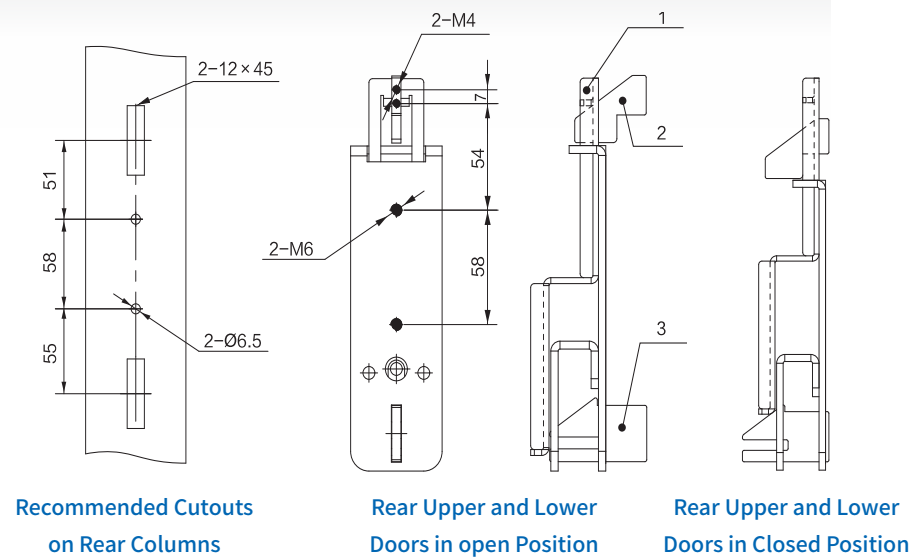
- Your company's cabinet door only needs to have 4-M6 studs welded on the back and a $\varnothing 32.5\text{mm}$ cutout.

Principle:

Turn the knob sleeve with one hand to expand the device, and push in the ejector pin with the other hand to realize manual opening of the circuit breaker.



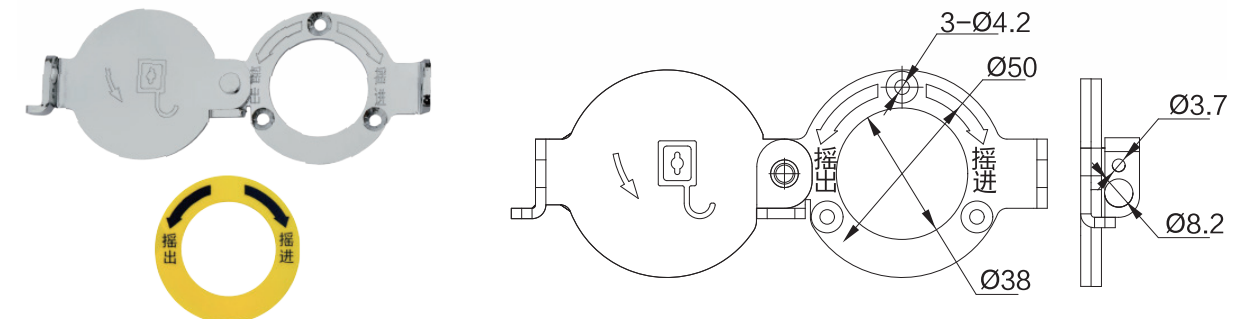
2. Interlock Mechanism KYN.5XJ.239.014



Description:

This interlock mechanism is easy to install, flexible, reliable, and offers high strength.

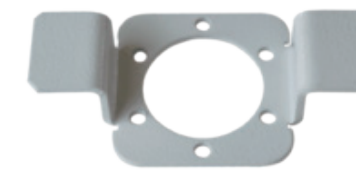
3.Center Door Padlock KYN.5XJ.161.022



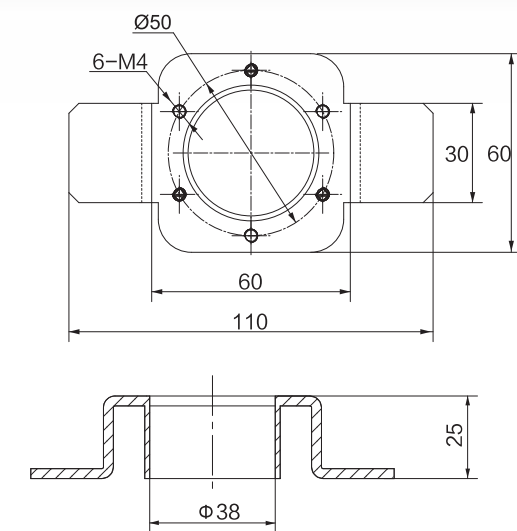
4.Door Inner Bushing



KYN.8XJ.211.322



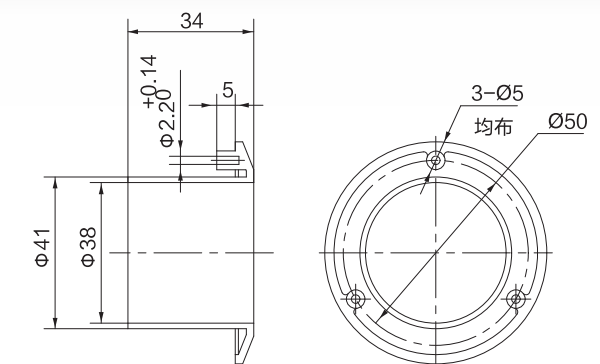
KYN.8XJ.211.321



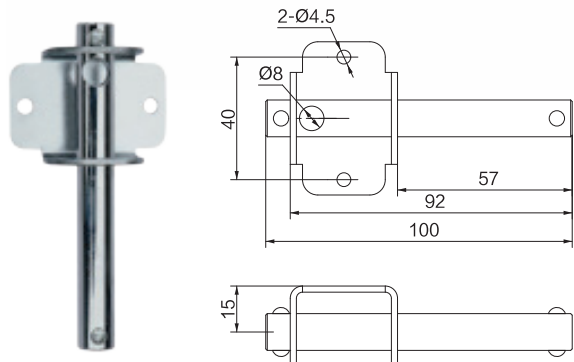
5.Truck Position Label



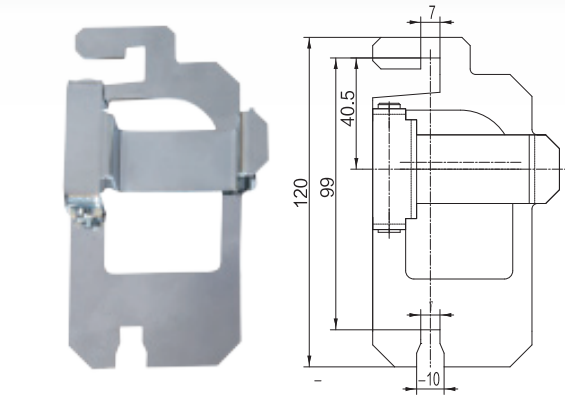
KYN.5XJ.869.030



Padlock KYN.5XJ.161.018

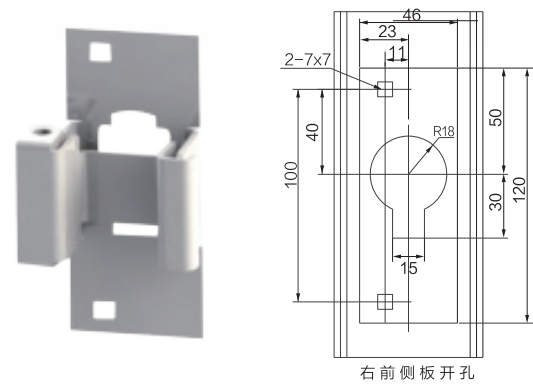


Earthing Switch Padlock KYN.5XJ.161.010.3/SJN



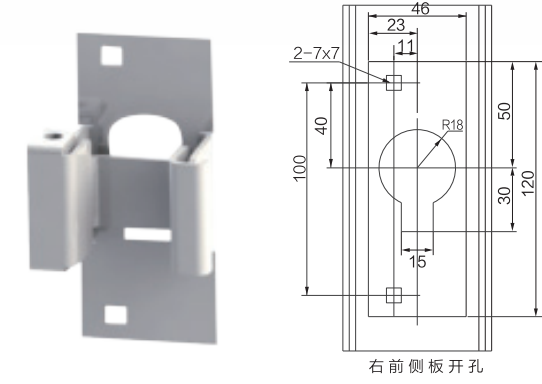
Earthing Switch Padlock KYN.5XJ.161.030

High pull-out function when in position without handle
Matching handle: KYN.5XJ.253.011.33



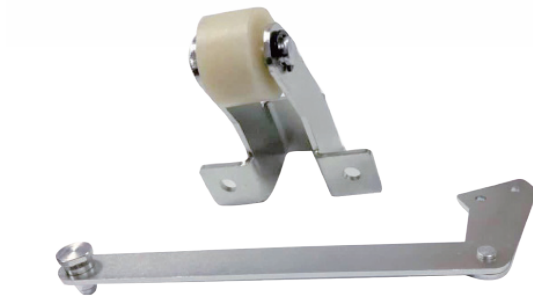
Earthing Switch Padlock KYN.5XJ.161.010.3

Conventional universal solution



Upper Door Limit Device KYN.5XJ.363.036

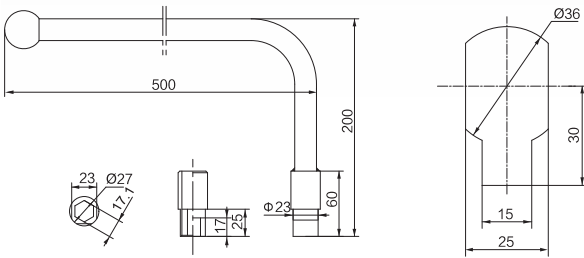
Upper door limit device



High-Voltage Operating Handle



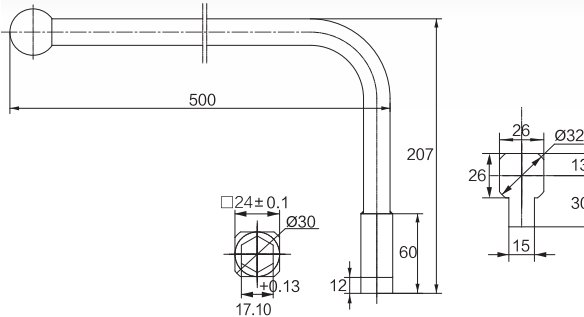
KYN.5XJ.253.011.10



Note: For Bevel Gear Cutout



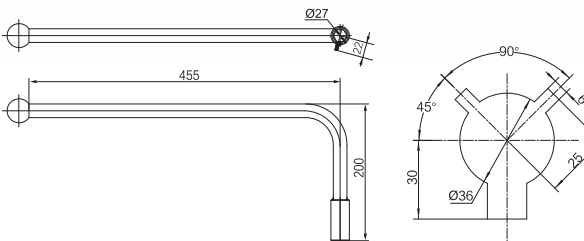
KYN.5XJ.253.011.33



Note: For Crank Arm Cutout



KYN.5XS.253.011.30



Note: For Crank Arm Cutout



1.Model Designation Explanation



GJL1- □ High-Voltage Cabinet Door Hinge

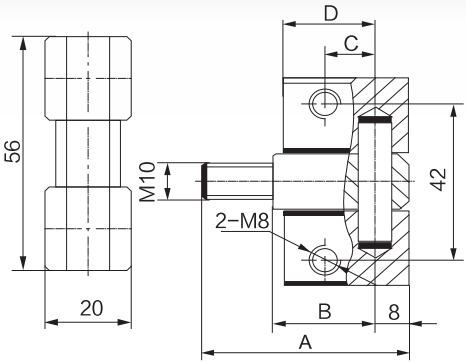
GJL □ - □

Specification Code

Design Serial Number

Code

2.GJL1- □ High-Voltage Cabinet Door Hinge Mounting Dimensions



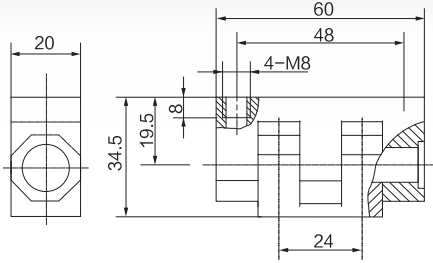
Unit: mm

Model	Code	A	B	C	D	2-M8
GJL1-1	5XS.872.011	55	23	8	18	Through hole
GJL1-2	5XS.872.011.1	56	26	12	22	
GJL1-3	5X8.872.012	55	23	8	18	
GJL1-4	5XS.872.012.1	56	26	12	22	

3.GJL2-1 High-Voltage Cabinet Door Hinge Mounting Dimensions



GJL2-1 High-Voltage Cabinet Door Hinge

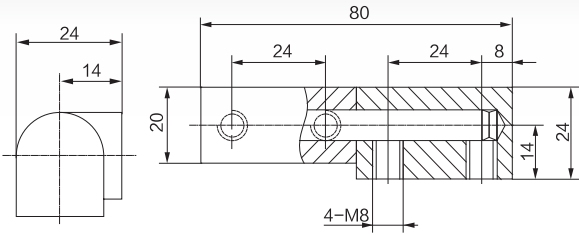


Mounting Dimension Drawing

4.GJL3-1 High-Voltage Cabinet Door Hinge Mounting Dimensions

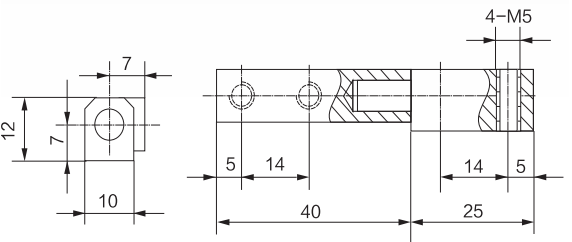


GJL3-1 High-Voltage Cabinet Door Hinge



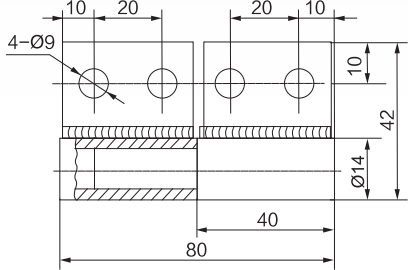
Mounting Dimension Drawing

5.GJL4-1 High-Voltage Cabinet Door Hinge Outline



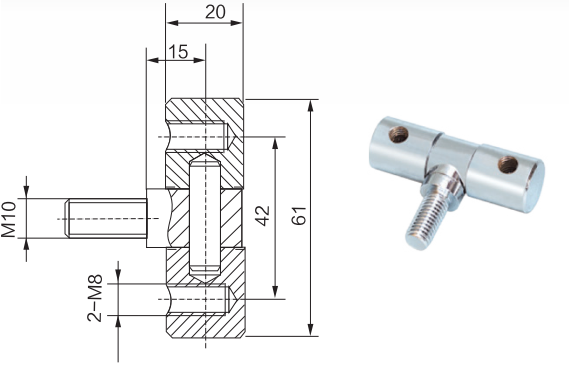
GJL4-1High-Voltage Cabinet Door Hinge

6.GJL5-1 High-Voltage Cabinet Door Hinge Outline



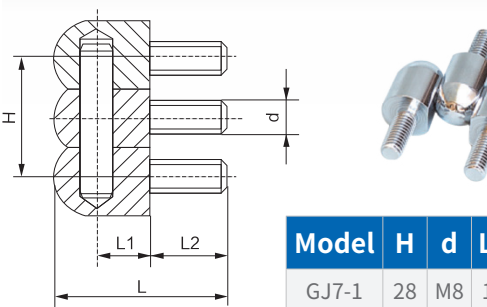
GJL5-1High-Voltage Cabinet Door Hinge

7.GJL6-1 High-Voltage Cabinet Door Hinge Outline



GJL6-1High-Voltage Cabinet Door Hinge

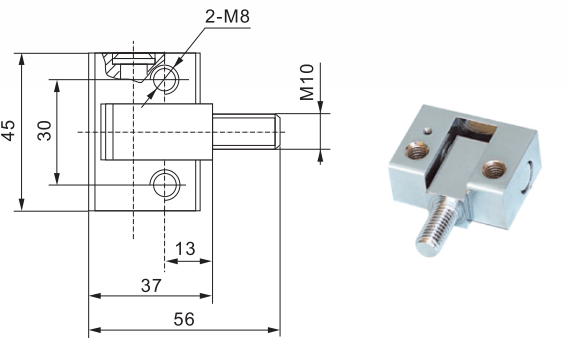
8.GJL7-1 High-Voltage Cabinet Door Hinge Outline



GJL7High-Voltage Cabinet Door Hinge

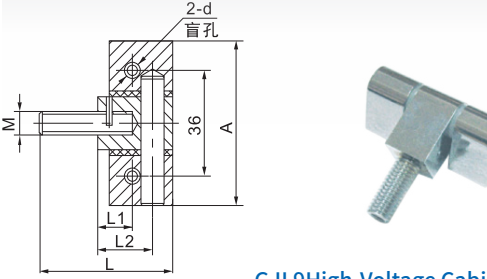
Model	H	d	L1	L2	L
GJ7-1	28	M8	13	18	41
GJ7-2	20	M6	9	11	30

9.GJL8-1 High-Voltage Cabinet Door Hinge Outline



GJL8-1High-Voltage Cabinet Door Hinge

10.GJL9 High-Voltage Cabinet Door Hinge Outline



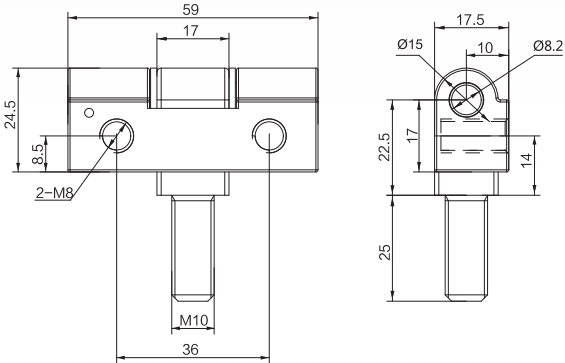
GJL9High-Voltage Cabinet

Model	A	M	L	L1	L2	D
GJL9-1	58	M10	53	14	22	M8
GJL9-2	56	M8	46	12	19	M6

11.Hinge GJL9-1P



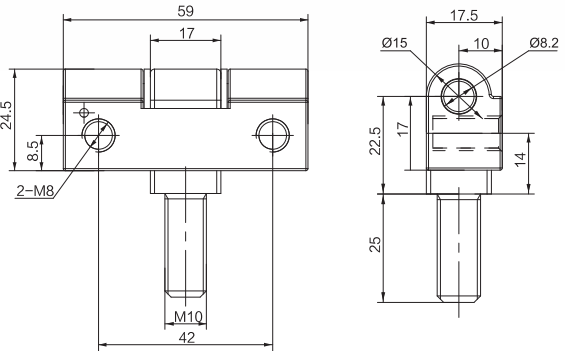
Matte Black



12.Hinge GJL9-3P



Matte Black

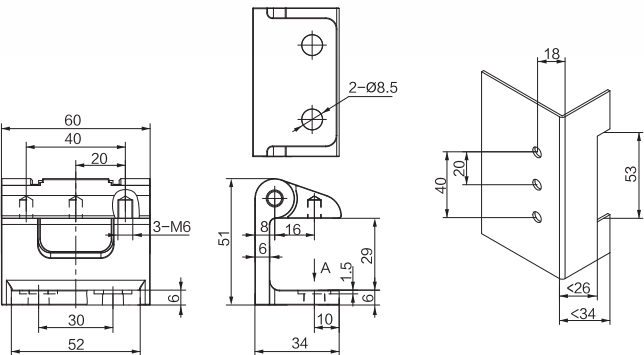


Note: The default material is zinc-aluminum alloy. Please specify if cast steel is required for ordering.

13.Hinge GJL10-2P



Matte Black



Hole Layout Drawing

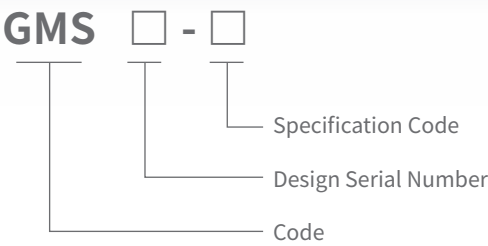


Note: The default material is zinc-aluminum alloy. Please specify if cast steel is required for ordering.

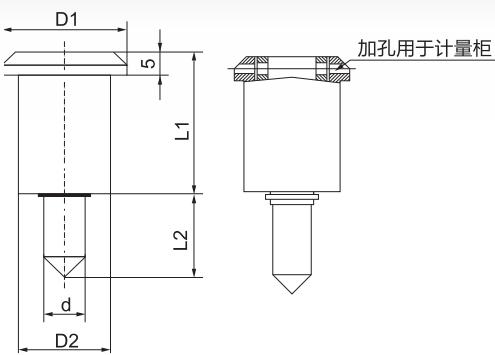
1.Model Designation Explanation



GMS1 High-Voltage
Cabinet Door Lock



2.GMS1 High-Voltage Cabinet Door Lock Mounting Dimensions



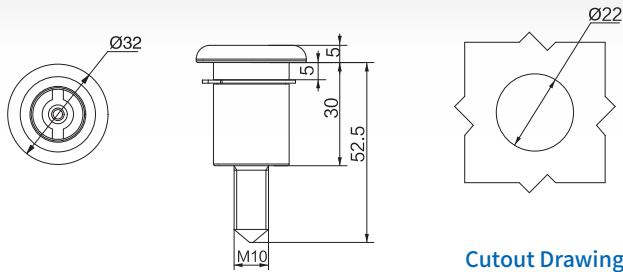
Unit: mm

Model	A	B	C	D	E
GMS1-1	24	Ø 20	M8	31	22.5
GMS1-2	30	Ø 22	M10	35	20.5
GMS1-3	24	Ø 20	M8	31	34.5
GMS1-4	30	Ø 22	M8	35	20.5
GMS1-5	30	Ø 22	M10	35	29
GMS1-6	30	Ø 22	M10	40	20.5
GMS1-7	30	Ø 22	M8	27	23
GMS1-8	30	Ø 22	M10	45	20.5
GMS1-9	30	Ø 22	M8	35	25
GMS1-10	30	Ø 22	M10	31	24.5

3.Door Lock GMS1-2P



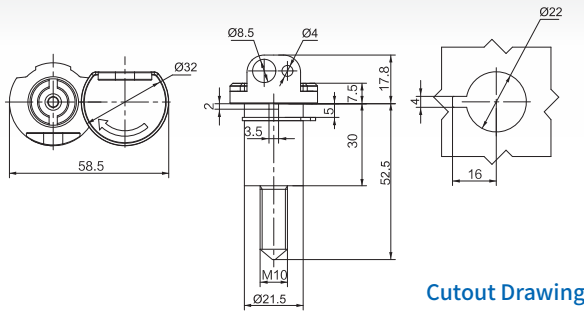
Matte Black



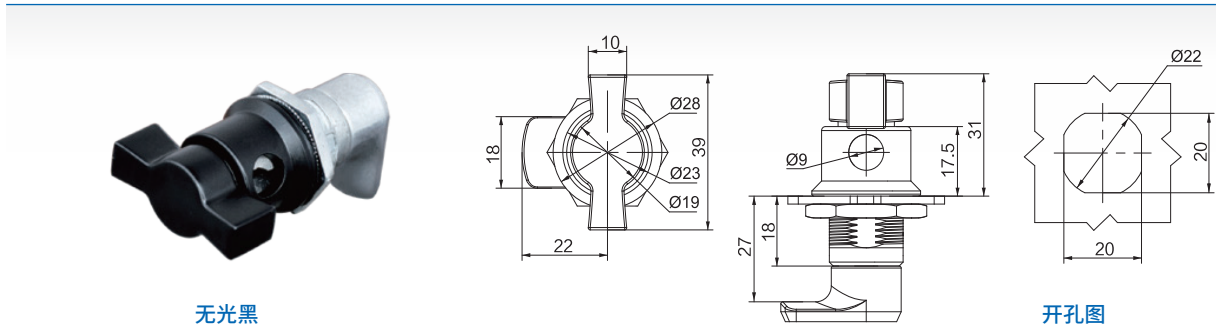
3.Door Lock GMS2-1P



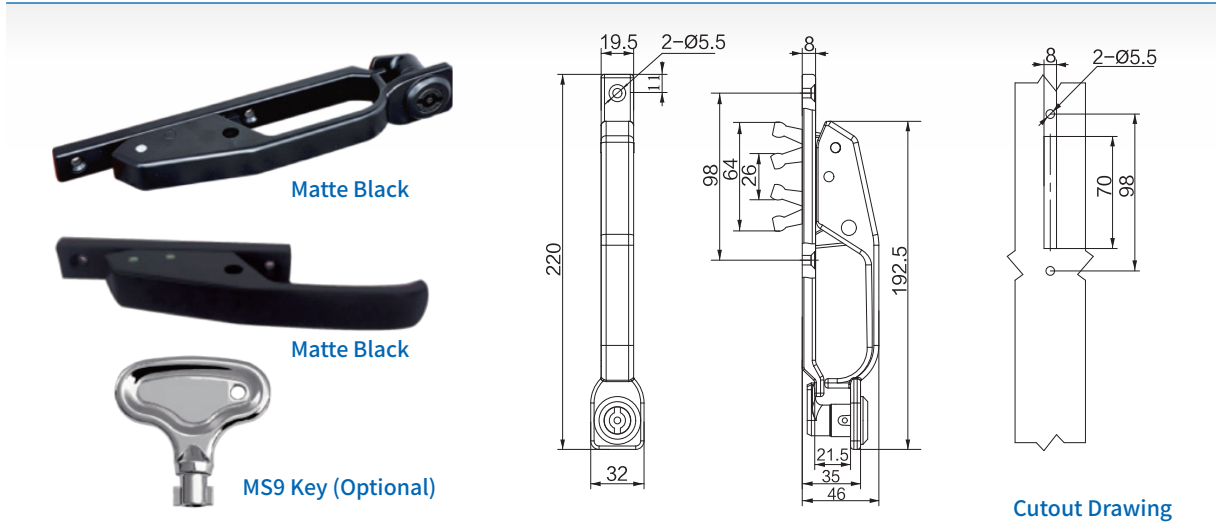
Matte Black



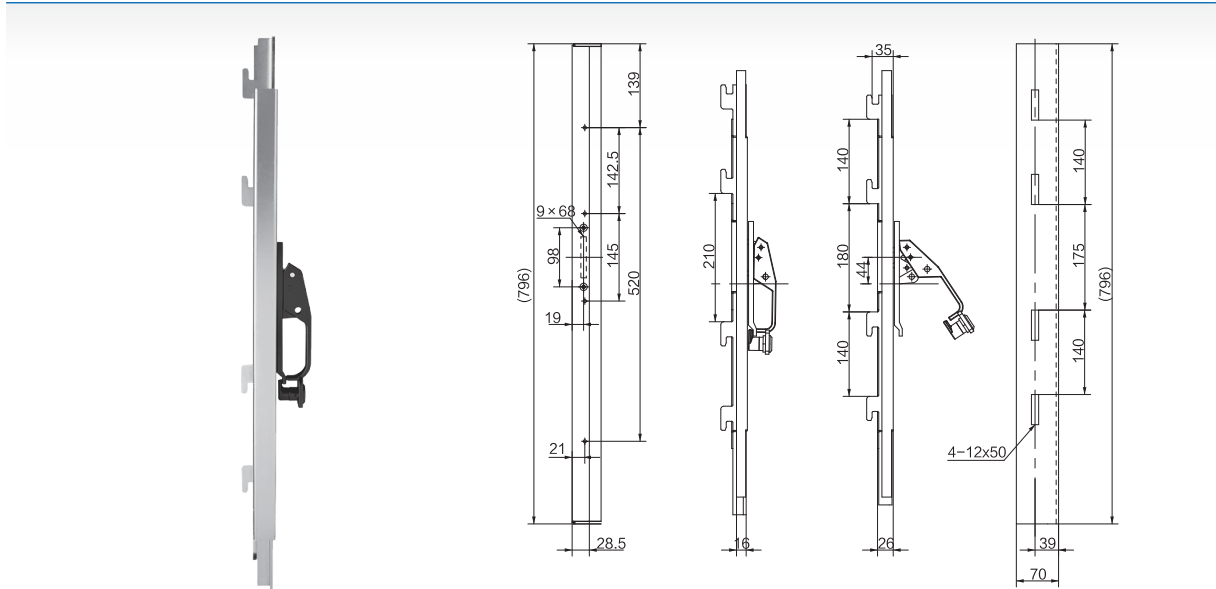
5.Door Lock GMS3-1P



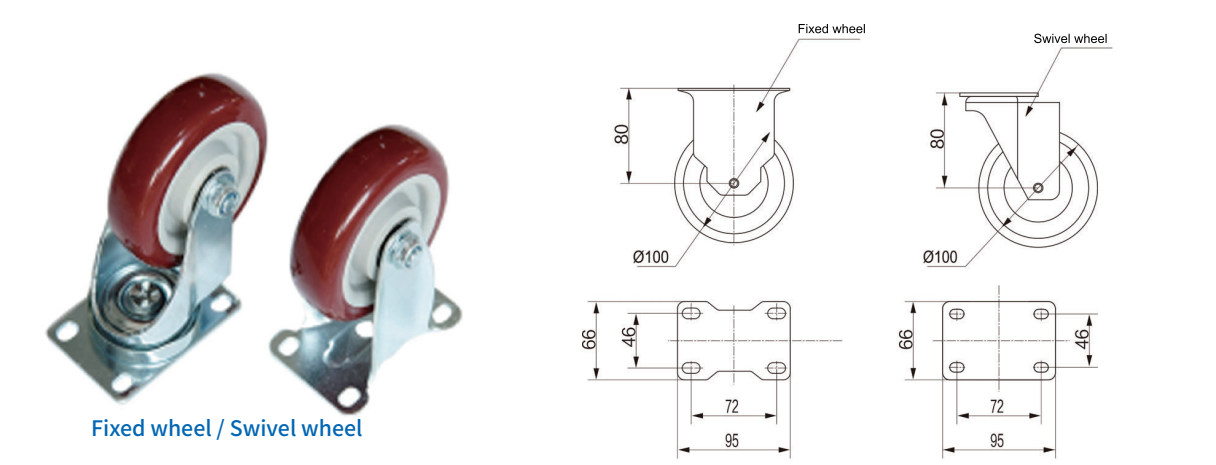
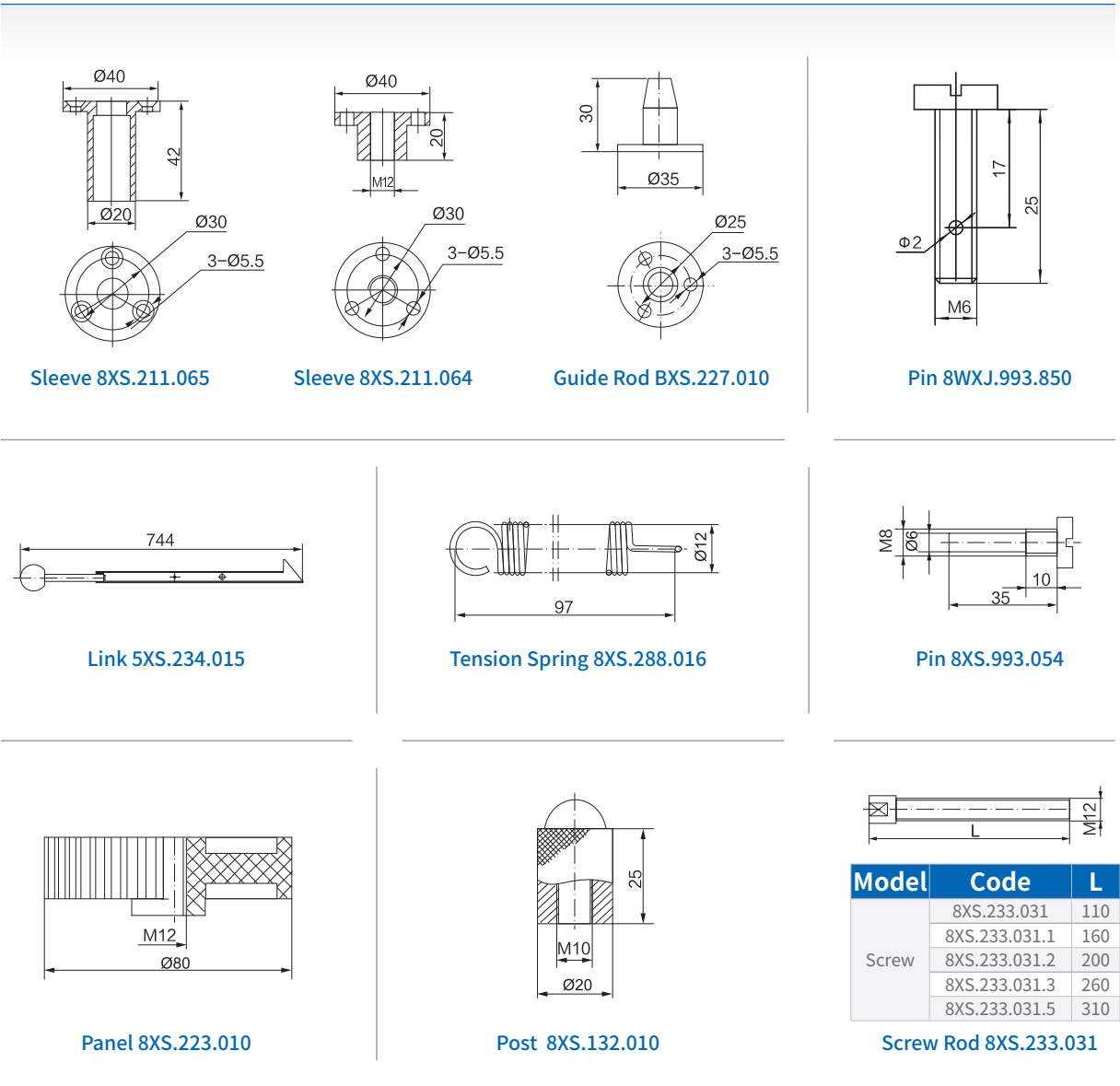
6.Quick Release Door Lock GMS4-1P GMS4-2P



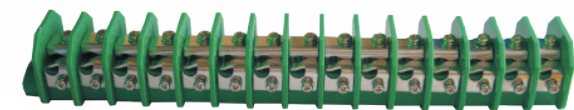
7.Quick-Release Door Lock KYN.5XJ.GMS4-1P



10.ransfer Cart Accessories ZYC.3XJ.087.004



2.MJ2- □ Small Busbar Base



sections	10	12	15	17	20
A	203	255	315	355	415
B	205	243	303	343	403

Features:
The number of sections can be assembled according to customer requirements..

Basic Parameters

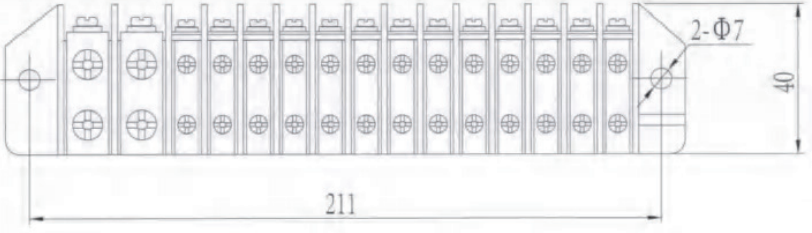
- Rated Voltage: 660V • Rated Current: 120A
- Specification: 2.5mm² wire

Note: Please specify the number of sections when ordering, e.g. MJ2-10, 12, 15, 17, 20, 22, 24, 26 sections, etc.



3.CM1 Busbar Support-15 Sections (4-6mm Wire Type)





211

2-Φ7

40

4.MJ1 Busbar Support(Ø 8 Copper Rod Type)





H

MJ1	sections	8	9	10	11	12	13	14	15	16	17
	H	182	203	240	263	288	317	344	364	393	425

五、ZYC-1-650、ZYC-1-800、ZYC-1-1000 Lifting Transfer Trolley



Maximum



Minimum

Lowered height:310mm
Lifted height:940mm
Lifting capacity:300kg

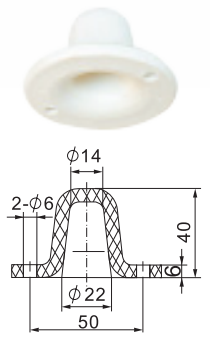
6.Other accessories



Secondary Cable Sheath



Middle Cabinet Seal Strip



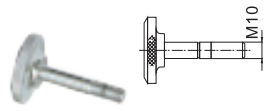
Sleeve: 8XS.211.053



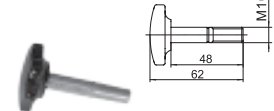
Nylon Screw: M6X20



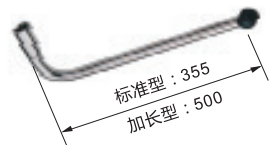
Locking Electromagnet
Please specify when ordering:
AC AC11V、220V
DC DC11V、220V



Screw Handle 8XS.989.010



Screw Handle KYN.5XJ.989.001



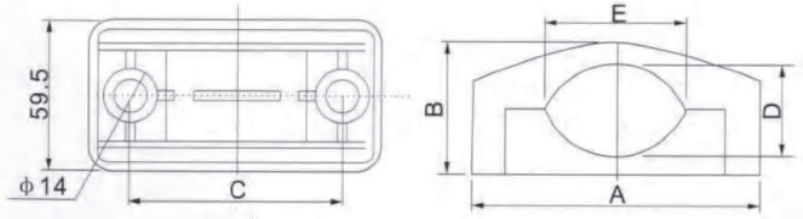
High-voltage Handle
Standard Type
5XS.253.011
Extended Type
5XS.253.011.1



Tower-shaped Seal Ring
Note: Diameter of tower-shaped seal ring
Standard: □ 110, optional
□ 50, □ 70, □ 80, □ 90, □ 150



电锁头
注：配购件



59.5

Φ14

C

B

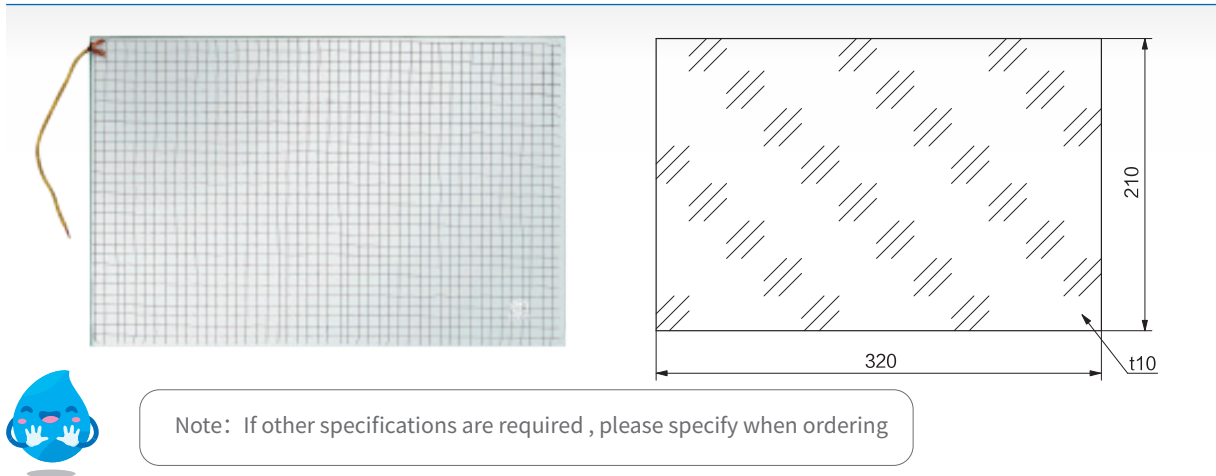
E

D

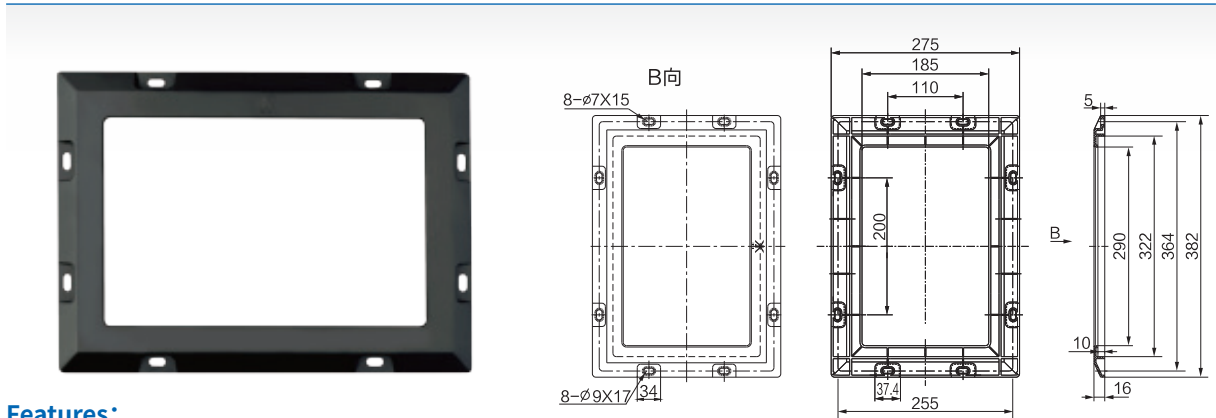
A

Model	A	B	C	D	E	Remark
K20/30	90	43	60.5	22	34	Small
K36/52	108	49.5	75	32.7	48	Small
K55/75	114.5	52.6	83.5	36	57	Medium
K75/95	128	66	96	46.7	69	Large
K90/150	150	55	120	65	95	Extra Large

7.Laminated Shielded Glass(with Grounding Wire)

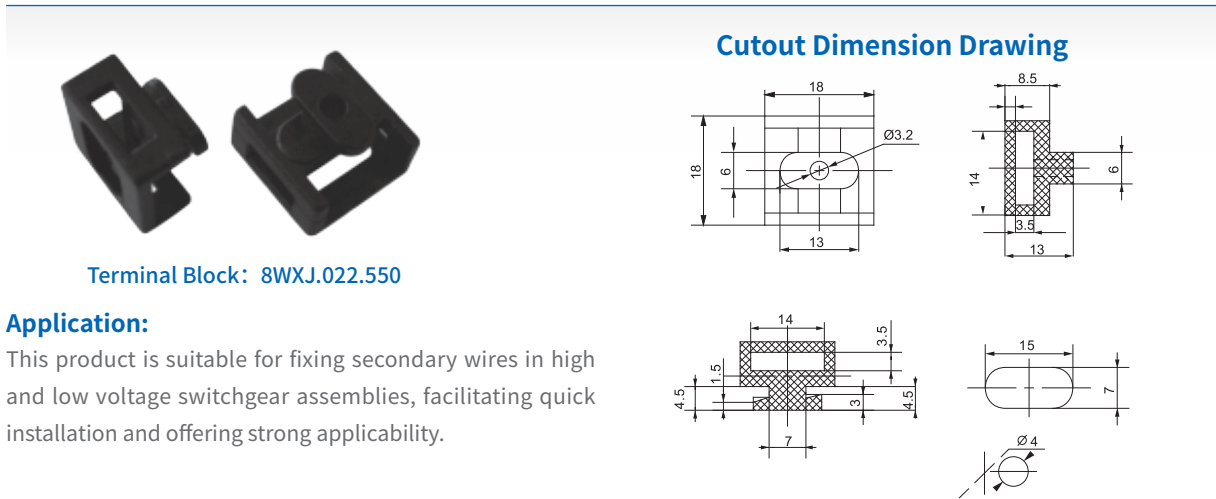


8.Glass Clamping Frame 8WXJ.321.550

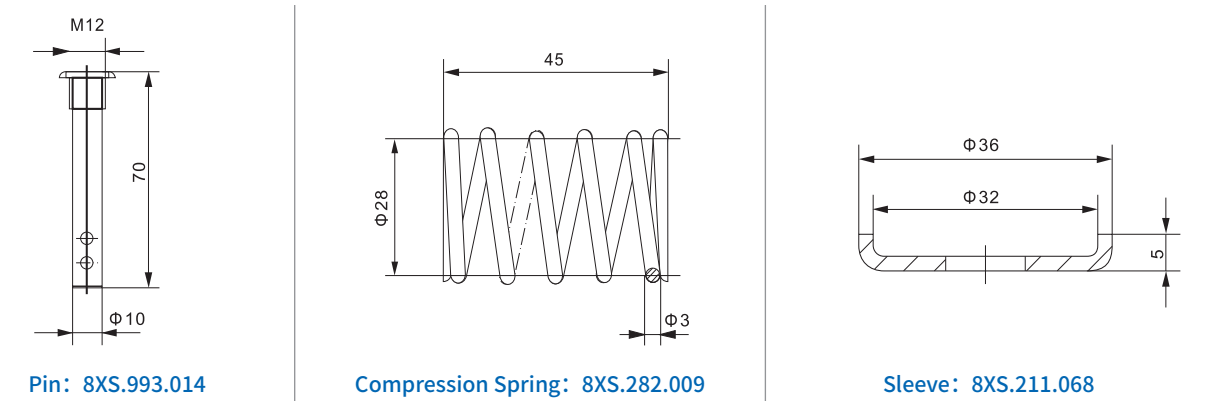
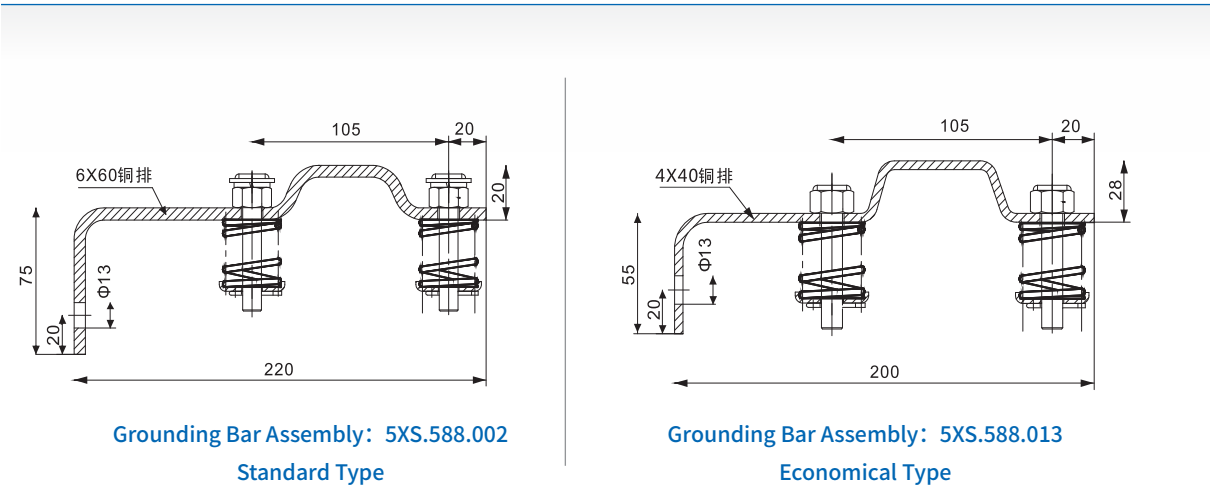


Features:
It features a simple structure and easy installation, is suitable for high-temperature and high-pressure environments, and can effectively resist flame.

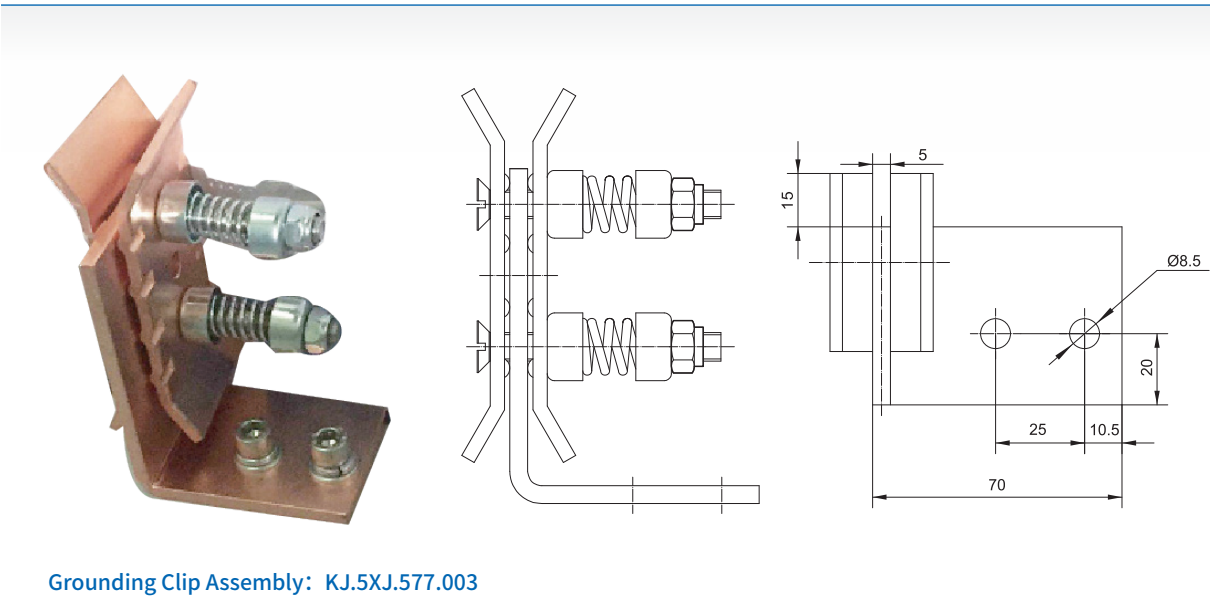
9.Terminal Block: 8WXJ.022.550



10.Grounding Bar Assembly

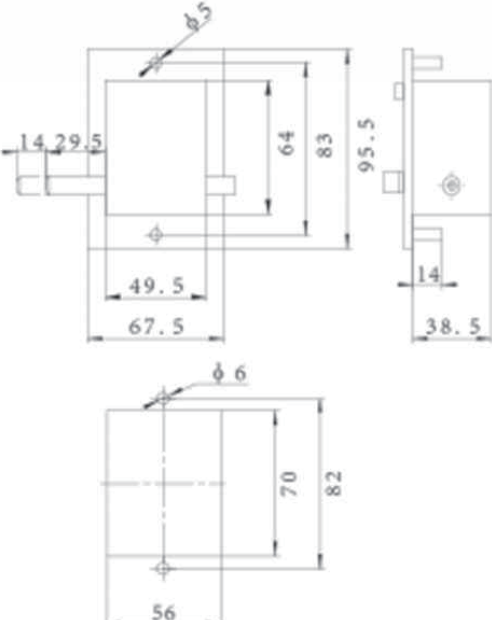


11.Grounding Clip Assembly KJ.5XJ.577.003



1.DSN-AM Indoor Electromagnetic Lock





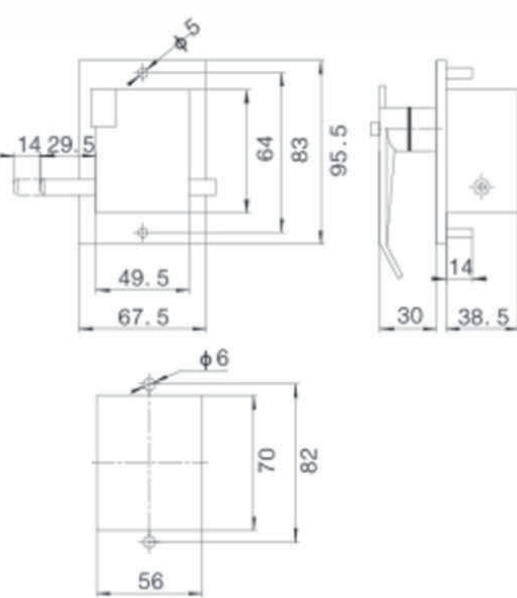
Note: Left code: Z, Right code: Y. The picture shows the right lock.

Power

AC/DC110 ~ 220V
DH24-48V

2.DSN-BM Indoor Electromagnetic Lock





Note: Left code: Z, Right code: Y. The picture shows the right lock.

Power

AC/DC110 ~ 220V

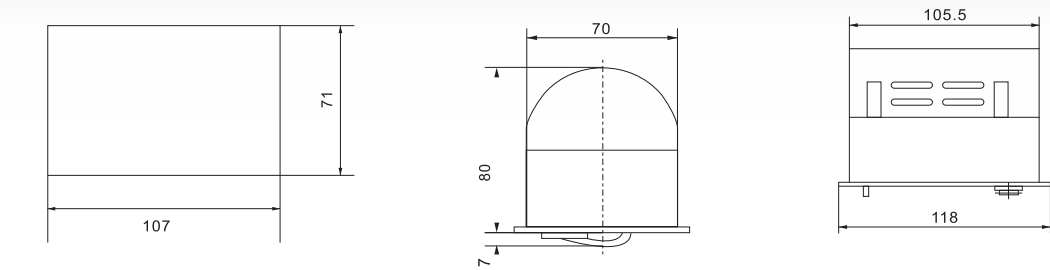
1.Lighting Lamp

Feature:
The CM Series Interior Lighting Lamp Features a Housing and Protective Cover Made of High-Strength, High-Temperature-Resistant Materials, It Offers the Advantages of High Transparency, Compact Size, Excellent Safety Performance, and Easy Bulb Replacement, Making it an Ideal Lighting Fixture for Various Types of Switchgear.



- Parameter**
- Rated Voltage: AC220V
 - Ambient Temperature: -20~60°C
 - Rated Power: ≤ 25W
 - Altitude: ≤ 2000m
 - Lamp Holder: E27/27 Screw Type

2.Lighting Lamp CM-1 Type Outline

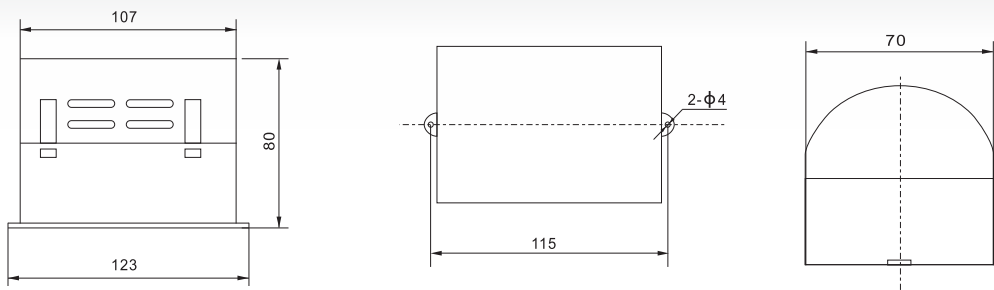


CM-1 Type Cutout Dimensions

Note: Optional Accessories



3.CM-3 Type Outline



Note: Optional Accessories



ZS TYPE MONITOR



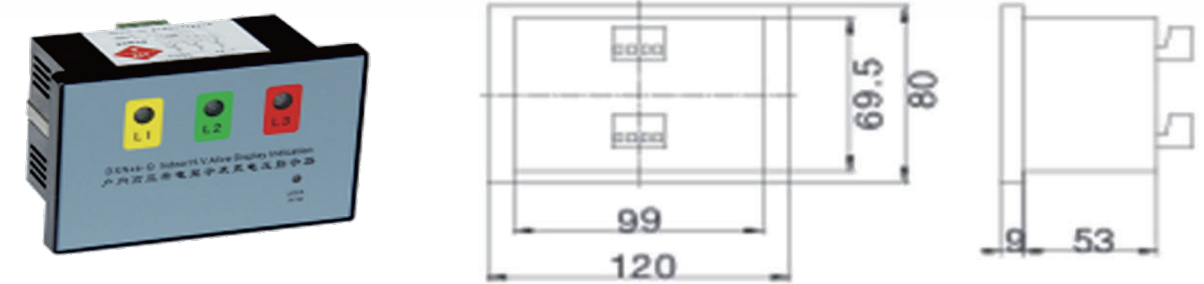
Model Composition And Meaning



ZS Type Indicator Type I And Type II-Opening dimension

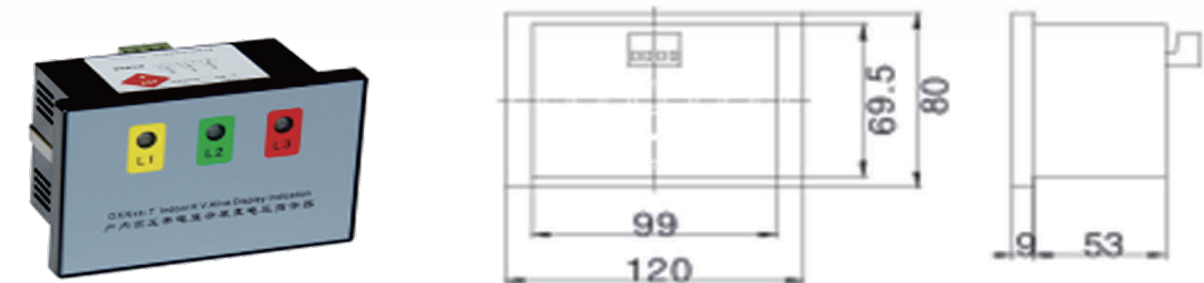
Model	Cut-out	Ue (kV)	Power Supply	Connection	K1/K2 Output	Phase Checking	Sign Grounding	Applicable Capacitance
T1	100*70	7.2~40.5	/	Plug-in Type	/	No	No	100~120PF
T2	100*70		/	Plug-in Type	/	Yes	No	
Q5	100*70		AC220V	Plug-in Type	Active Output	No	No	
Q6	100*70		DC220V	Plug-in Type	Active Output	No	No	
Q7	100*70		DC110V	Plug-in Type	Active Output	No	No	
Q8	100*70		AC/DC110 ~ 220V	Plug-in Type	Passive Output	No	No	
Q9	100*70		AC/DC110 ~ 220V	Plug-in Type	Passive Output	Yes	No	
Q10	100*70		AC220V	Plug-in Type	Active Output	Yes	No	
Q11	100*70		DC220V	Plug-in Type	Active Output	Yes	No	
Q12	100*70		AC110V	Plug-in Type	Active Output	No	No	
Q13	100*70		DC110V	Plug-in Type	Active Output	Yes	No	
Q14	100*70		AC110V	Plug-in Type	Active Output	Yes	No	
T3	92*44		/	Plug-in Type	/	Yes	Yes	
T3A	92*44		/	Plug-in Type	/	No	No	
T3B	92*44		/	Plug-in Type	/	Yes	Yes	
Q1	92*44		AC220V	Pluggable Type	Active Output	Yes	Yes	
Q2	92*44		DC110V	Pluggable Type	Active Output	Yes	Yes	
Q3	92*44		DC220V	Pluggable Type	Active Output	Yes	Yes	
Q4	92*44		AC/DC110~220V	Pluggable Type	Passive Output	Yes	Yes	
Q4A	92*44		AC/DC110~220V	Plug-in Type	Passive Output	No	No	
Q4B	92*44		AC/DC110~220V	Plug-in Type	Passive Output	Yes	No	

DXN-Q8 Voltage Indicator



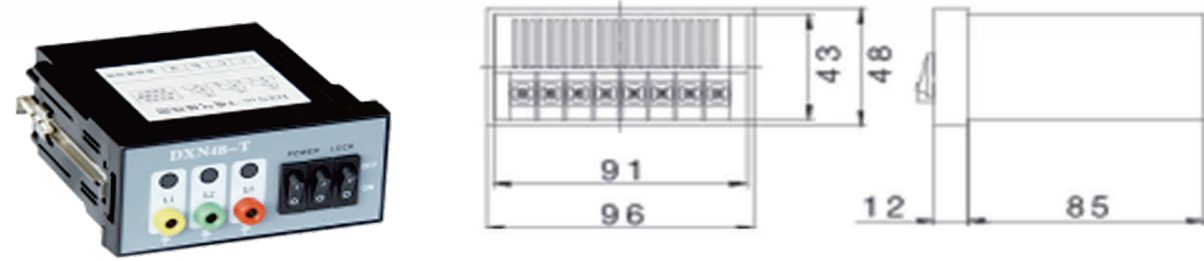
Cut-out Dimensions 100×70

DXN-T1 Voltage Indicator



Cut-out Dimensions100×70

DXN-T3 Voltage Indicator



LABEL



Racking-In/Racking-Out Label: 8XS.866.015

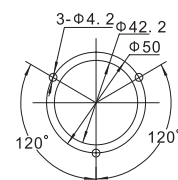
Note: Self-Adhesive



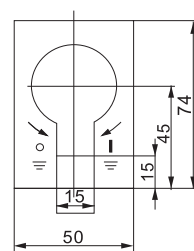
Truck Positon Label: 8XJ.869.001

Note: Plastic

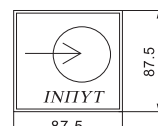
Cutout Dimension Drawing



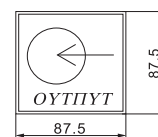
Earthing Switch Label: 8XS.860.010



Input Label: 8XS.866.012



Output Label: 8XS.866.014



Model Composition And Meaning

SKT - □□ - □ / □ / □

Extension code: G indicates fixed type

Travel code

Panel width

D: motorized, A: central screw

Design serial number

Pushing Mechanism

Note:

- 1.Position switches are not included as standard; optional (5NO+5NC, 6NO+6NC, 10NO+10NC).
- 2.Earthing interlock and emergency trip device are optional; specify if not required in the order.

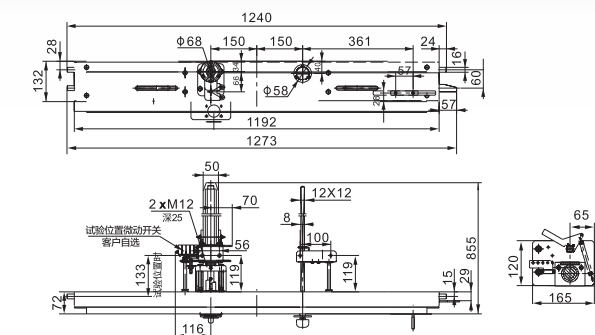
Purpose

As an accessory of KYN61-40 switch cabinet, the pushing mechanism is used to push removable devices such as ZN85 series circuit breakers, various handcars, etc.

SKT-1-1400 Pushing mechanism(for ZN85)



Outline and Installation Dimensions of SKT-1-1400 Racking Mechanism

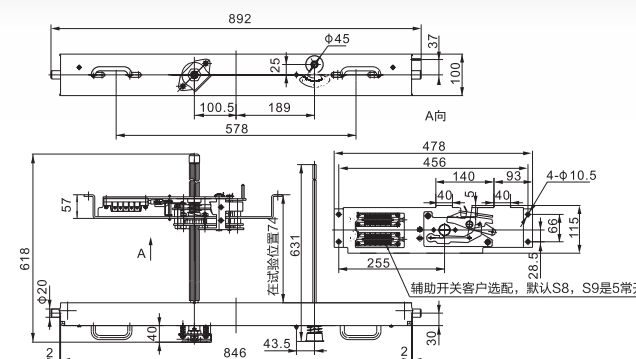


Travel: 610mm

SKT-3- □ Pushing mechanism(for VD4-40.5 handcart)



Travel: 450mm



Outline and Installation Dimensions of SKT-3-1200 Racking Mechanism

YAOZE SKM-40.5 Circuit Breaker

Operating Mechanism Assembly



Product Features

-  Circuit breaker assembly: mechanism, frame & racking mechanism, matched height.
 -  Frame pole mounting holes compatible with mainstream solid-sealed poles.
 -  Mechanism bottom layout, easy commissioning & maintenance.
 -  The racking mechanism supports ≥ 3000 racking in/out operations.
- Mechanism: stable performance, high reliability, mechanical life ≥ 5000 operations.

Service Conditions

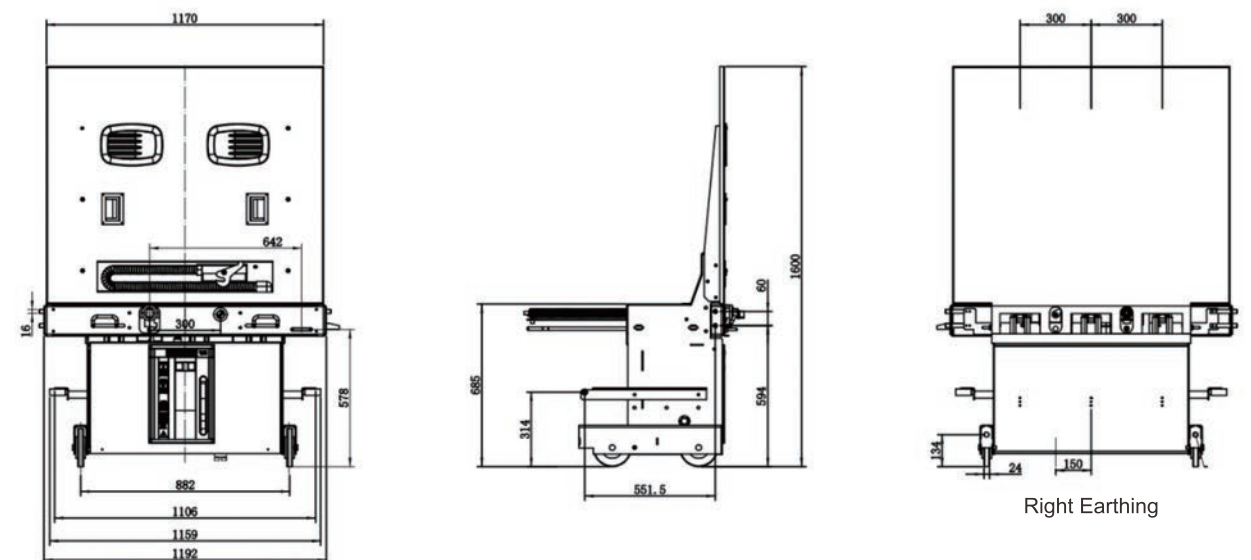
Altitude: Not exceeding 2000 m;

Ambient Temperature: Upper limit $+40^{\circ}\text{C}$, lower limit -50°C ;

Ambient Humidity: Daily average relative humidity $\leq 95\%$, monthly average relative humidity $<90\%$;

Seismic Intensity: Not exceeding Grade 8; No fire or explosion hazard, no severe vibration, and no serious pollution such as chemical corrosion.

Outline and Installation Dimensions



Product Overview

Yaoze SKM-40.5 indoor high-voltage vacuum circuit breaker mechanism assembly is suitable for three-phase AC 50Hz, 40.5kV systems. It can be used in industrial and mining enterprises, power plants and substations for making and breaking load current, overload current and fault current, and is suitable for frequent operation.

Model Composition And Meaning

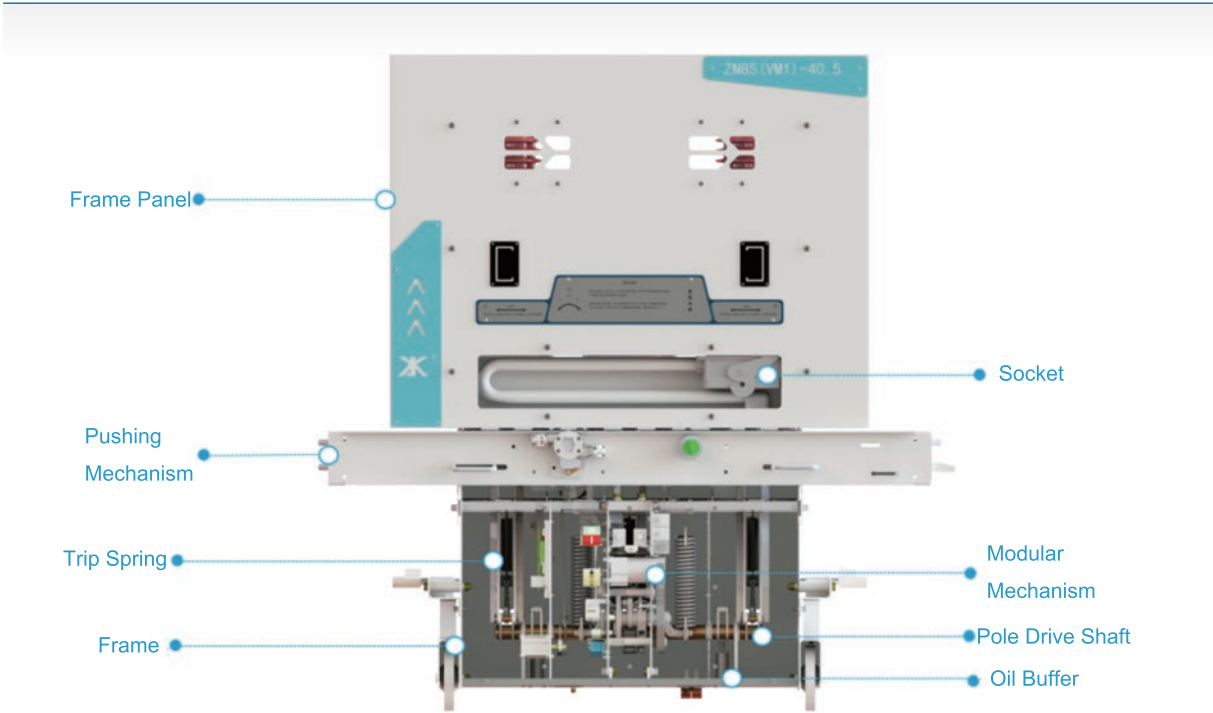
SKM 1 - 40.5 - □ / □

- Motor Voltage
- Phase Spacing: 300
- Rated Voltage
- Product Design Code
- Modular Mechanism Code

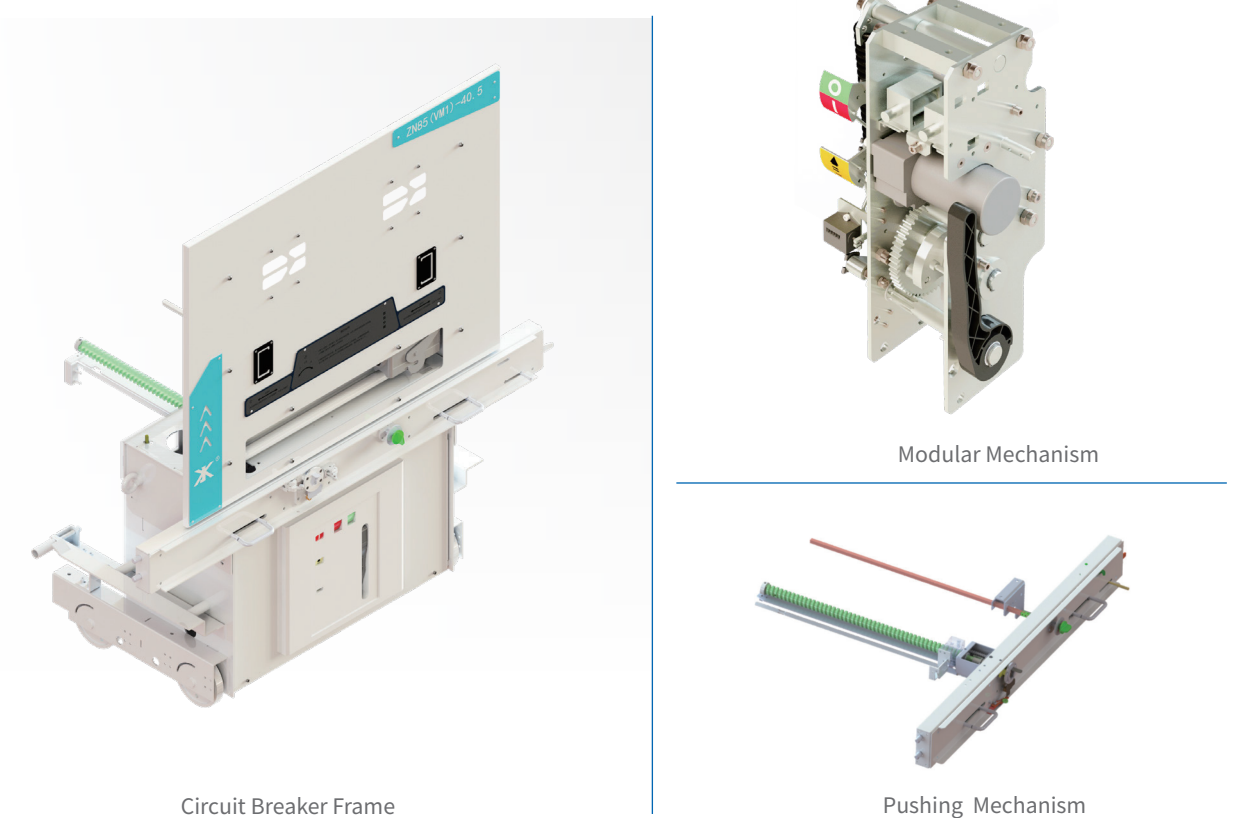
Main Technical Parameters

Item		Unit	Value
Rated Voltage		V	DC:220V/110V/48V/24V
Rated Current		S	≤ 15
Rated Short-Circuit Breaking Current		m/s	≥ 3
Peak Withstand Current		m/s	≥ 4
4s Short-Time Withstand Current		N.m	≤ 120
Rated Short-Circuit Making Current (Peak)		ms	≤ 60
Rated Short-Circuit Breaking Times		J	2-5
Rated Operating Sequence			0-0.3S-C0-180s-CO
Rated Insulation Level	1min PFWV	kV	95
	LIW (Peak)		185
Mechanical Life		Times	10000
Rated Single Capacitor Bank Switching Current		A	630
Rated Back-to-Back Capacitor Bank Current		A	400
Rated Voltage of Energy Storage Motor		V	AC、DC: 110; 220
Rated Power of Energy Storage Motor		W	≤ 230
Energy Storage Time of Motor		s	≤ 15
Rated Voltage of Closing/Opening Coil		v	DC: 110; 220
Rated Current of Closing/Opening Coil		A	1.05(110V) 0.96(220V)
Contact Opening Distance		mm	20 ± 2
Contact Overtravel		mm	7.5 ± 1.5
Three-Phase Closing/Opening Asynchronism		ms	≤ 2
Contact Bounce Time at Closing		ms	≤ 3
Main Circuit Resistance (excluding contact arm)		μΩ	≤ 40

Circuit Breaker Assembly (Without Poles)

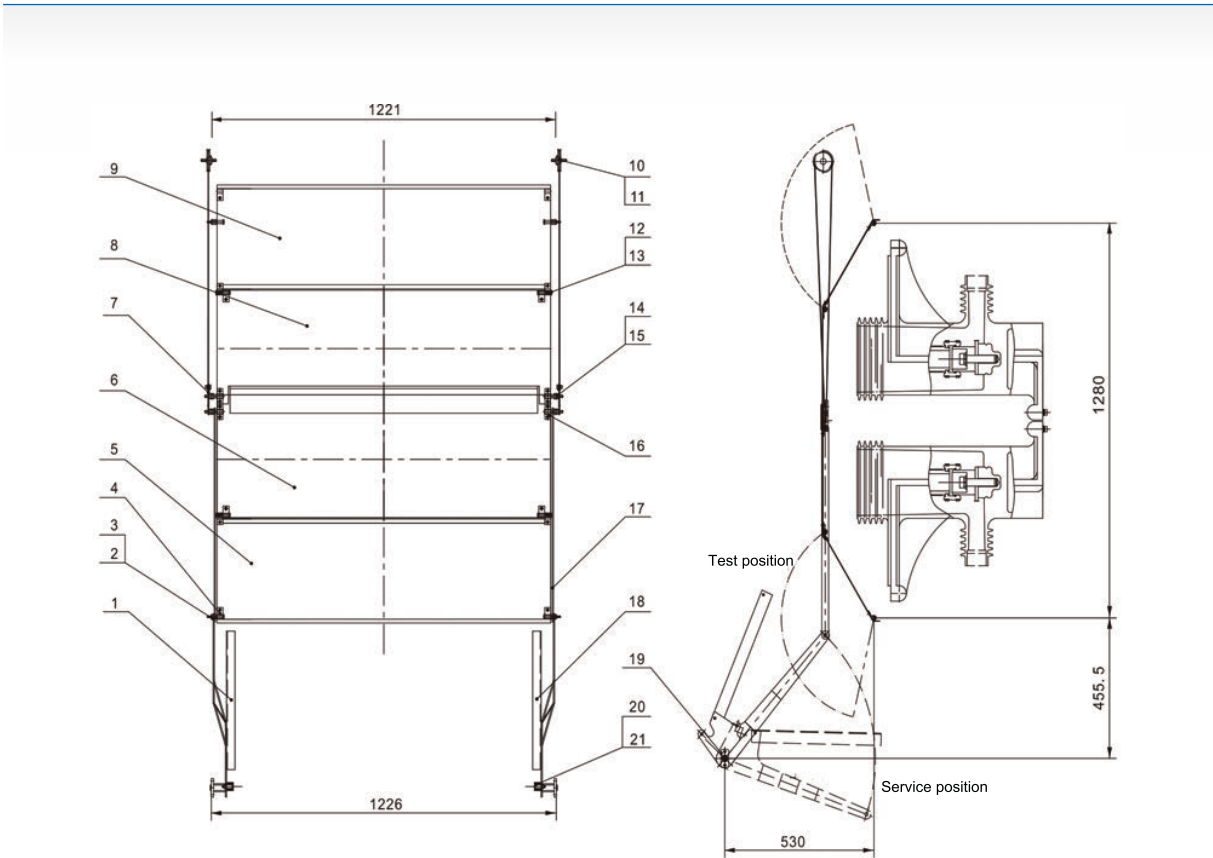


Matching Selection Table



Name	Picture	Applicable Cabinet Width	Model
Modular Mechanism		1400mm; 1680mm	SKM1-12-31.5/1250A
Circuit Breaker Frame			ZN85G-40.5/1250-31.5 (1400) SKM2-40.5-1476-1250/31.5/P400/ D/DK1-PT2 (1680)
pushing mechanism			TJ-1-1400(6666)-DR(Manual) TJ-1D2S-1400(6666W)-DR (Electric) TJ-1-1680(6666)-DR (Manual) TJ-1D2S-1680(6666W)-DR (Electric)

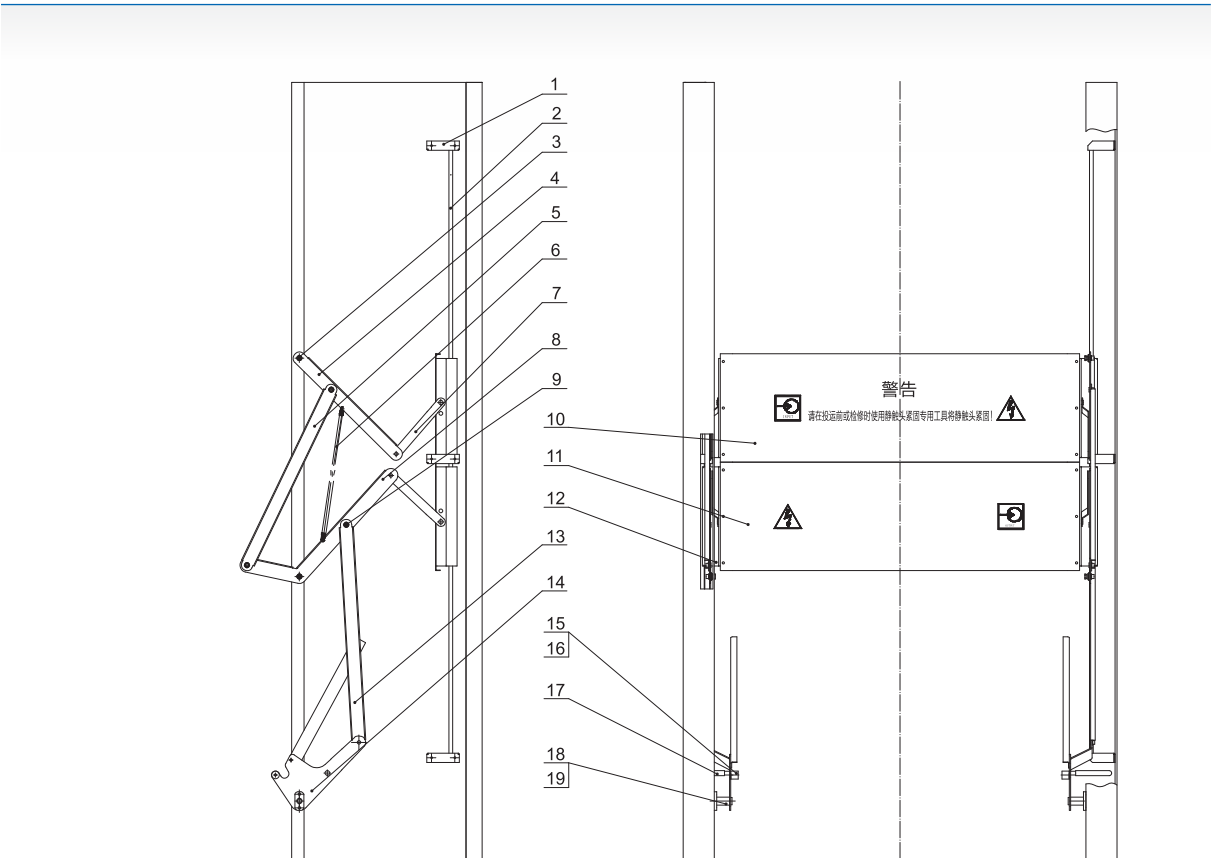
1.KYN61 Shutter Mechanism (Cable-Type) KYN.5XJ.320.041



2. Shutter Mechanism Device KYN.5XJ.320.041-Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Linkage (Left)	KYN.6XJ.364.1523	1	12	Flap Shaft	KYN.8XJ.200.1531	4
2	Flap Shaft	KYN.8XJ.200.1525	4	13	Threaded Rod	KYN.8XJ.200.1532	4
3	Sleeve	KYN.8XJ.210.1525	4	14		KYN.8XJ.200.1526	4
4	Hinge	KYN. 8XJ.211.1521	12	15	Roller	KYN.8XJ.224.1521	4
5	Flap Plate	KYN.8XJ.320.1524	1	16	Hinge	KYN.8XJ.211.1522	4
6		KYN.8XJ.320.1522	1	17	Small Linkage	KYN.8XJ.174.1523	2
7	Fixing Plate	KYN.8XJ.050.1521	4	18	Linkage (Right)	KYN.6XJ.364.1522	1
8	Flap Plate	KYN.8XJ.320.1523	1	19	Shaft Support	KYN.8XJ.210.1521	2
9		KYN.8XJ.320.1521	1	20	Sleeve	KYN.8XJ.210.1523	2
10	Pulley Shaft	KYN.8XJ.200.1524	2	21	Screw	KYN.8XJ.920.1522	2
11	Pulley	KYN.8XJ.224.1522	2				

1.KYN61 Linkage-Type Shutter Mechanism KYN.5XJ.320.051 (1400)

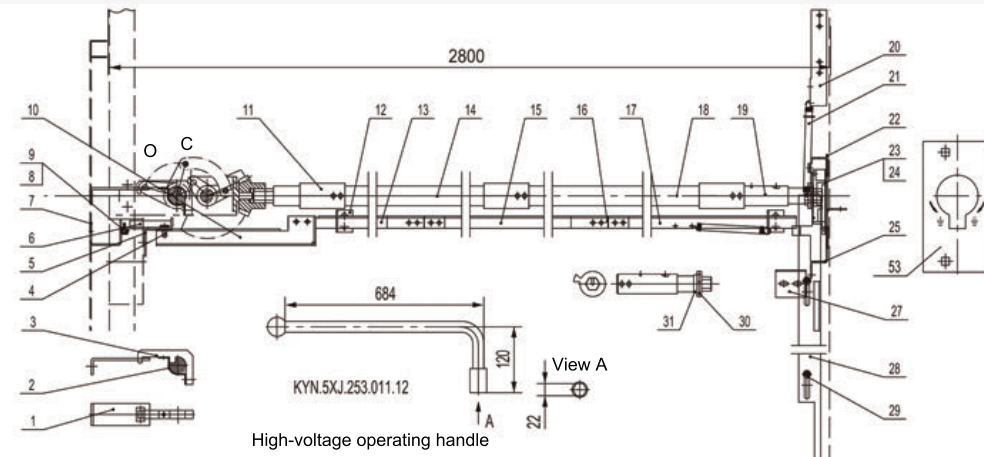


2. KYN61 Linkage-Type Shutter Mechanism KYN.5XJ.320.051 (1400) -Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Bent Plate	KYN.8XJ.210.1536	4	10	Flap Plate	KYN.8XJ.320.1521.11	1
2	Guide Rod	KYN.8XJ.174.1524	2	11	Bracket	KYN.8XJ.210.1530	4
3	Threaded Pin	KYN.8XJ.210.1528.1	4	12	Connecting Rod	KYN.5XJ.210.1534	5
4	Linkages	KYN.5XJ.210.1536 KYN.5XJ.210.1537	1 pc each	13	Main Linkage	KYN.5XJ.364.1522.6 KYN.5XJ.364.1523.6	1 pc each
5	Linkage Welding	KYN.5XJ.174.1523	2	14	Sleeve	KYN.8XJ.210.1523	2
6	Tension Spring	KYN.8XJ.288.145	2	15	Screw	KYN.8XJ.920.1522	2
7	Connecting Plate	KYN.8XJ.210.1531	4	16	Limit Rod	KYN.8XJ.234.071.1	2
8	Linkage Welding	KYN.5XJ.210.1532 KYN.5XJ.210.1532	1 pc each	17	Threaded Rod	KYN.8XJ.200.1521.2	2
9	Pivot Pin	KYN.8XJ.993.248	16	18	Threaded Rod	KYN.8XJ.210.1521	2



1.Earthling Switch Operating Mechanism Interlock Device KYN.5XJ.363.021 Outline Schematic Diagram



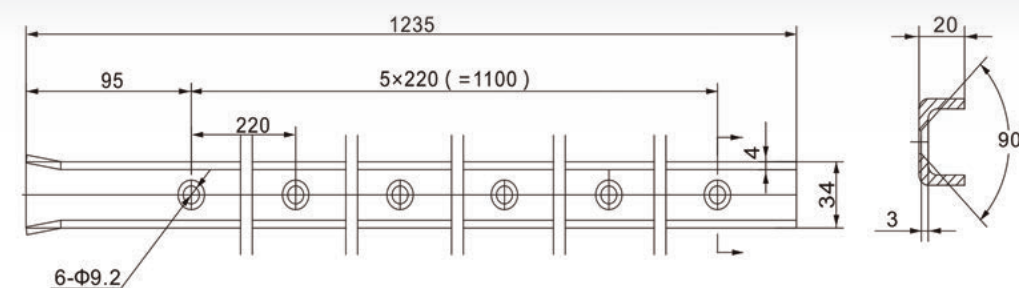
2.Earthing Switch Operating Mechanism Interlock Device

KYN.5XJ.363.021– Matching List

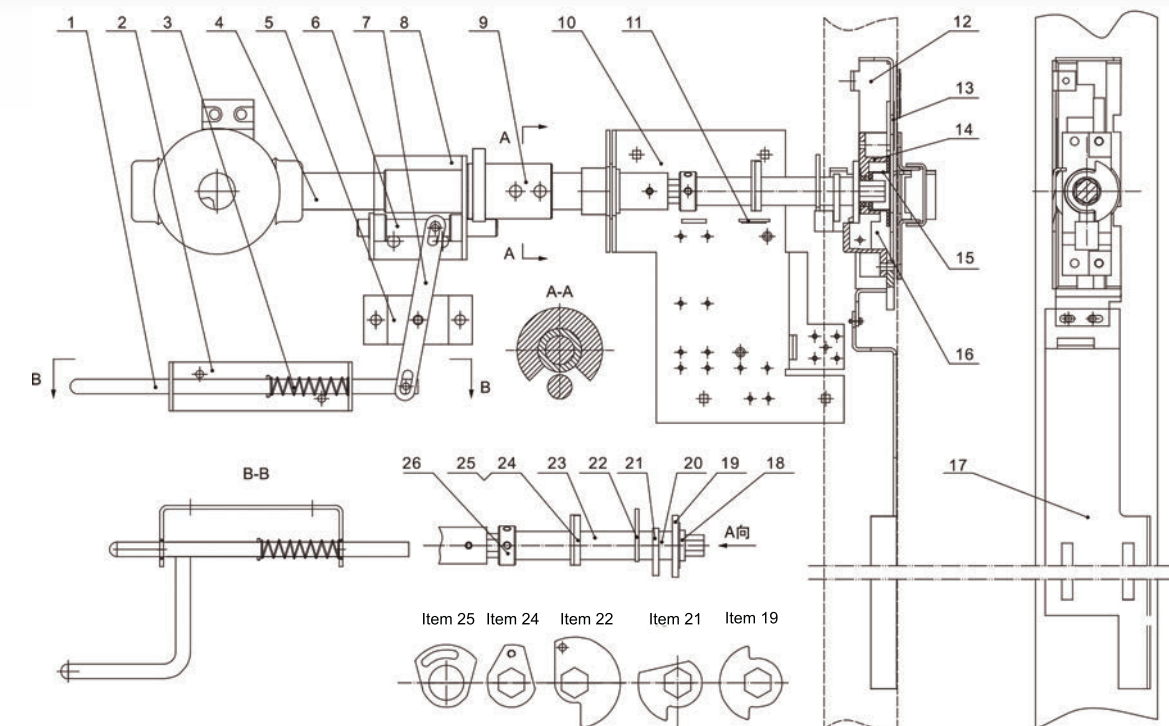
No.	Name	Code	Quantity
1	Rear Door	KYN.8XJ.264.1510	1
2	Interlocking Plate	KYN.8XJ.264.1512	1
3	Lock Hook	KYN.8XJ.264.1511	1
4	Screw Rod	KYN.8XJ.200.1533	1
5	Bracket	KYN.8XJ.038.1533	1
6	Interlocking Plate	KYN.8XJ.264.1508	1
7		KYN.8XJ.264.1509	2
8	Screw	8XS.900.033	1
9	Washer	DPC.8XJ.210.314.2	1
10	Slotted Plate	KYN.8XJ.623.1512	1
11	Coupling Sleeve	KYN.8XJ.210.1527	3
12	Bracket	KYN.8XJ.038.1534	1
13	Bent Plate	KYN.8XJ.623.1516	1
14	Operating Shaft	KYN.8XJ.200.1511	1
15	Bent Plate	KYN.8XJ.623.1515	1
16	Connecting Plate	KYN.8XJ.264.1507	2

No.	Name	Code	Quantity
17	Bent Plate	KYN.8XJ.623.1514	1
18	Operating Shaft	KYN.8XJ.200.1512	1
19		KYN.8XJ.200.1513	1
20	Mounting Bracket	KYN.8XJ.038.1536	1
21	Tension Spring	8XS.282.016	3
22	Slider	KYN.8XJ.143.1529	2
23	Support Base	KYN.8XJ.200.1529	1
24	Spacer Plate	KYN.8XJ.143.1530	1
25	Bent Plate	KYN.8XJ.628.1525	1
26	ON/OFF Indicator Plate	KYN.8XJ.200.1530	1
27	Interlock Bracket	KYN.8XJ.038.1549	3
28	Interlocking Rod	KYN.8XJ.200.1514	1
29	Nut	KYN.8XJ.940.1500	2
30	Sector Plate	KYN.8XJ.192.1510	2
31	Washer	KYN.8XJ.950.1522	1

3.KYN.8XJ.201.1502 Outline And Dimension Diagram



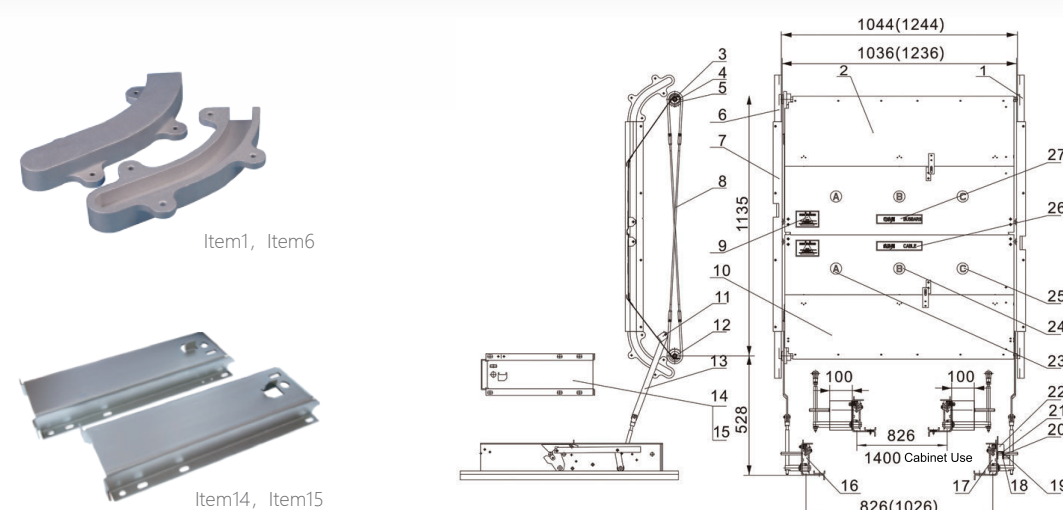
1.KYN61 Earthing Switch Operating Mechanism Interlock Device (Bevel Gear)KYN.5XJ.363.022 (2800)



2. Matching List For Earthing Switch Operating Mechanism Interlock Device KYN.5XJ.363.022

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Push rod	KYN.5XJ.235.119	1	14	Support base	5XS.043.022	1
2	Fixing plate	KYN.8XJ.233.048	1	15	Cover plate	8XS.017.011.2	1
3	Compression spring	8XS.282.021	1	16	Slider	8XS.143.010	2
4	Operating shaft	KYN.5XJ.200.130	1	17	Bent plate	KYN.8XJ.161.134	1
5	Bracket welding	KYN.5XJ.043.045	1	18	Label	8xS.263.011	1
6	Limit shaft	KYN.8XJ.205.129	1	19	Limit plate	8XS.151.084	1
7	Connecting plate	KYN.8XJ.233.047	1	20	Sleeve	8XS.210.14.9/HL	2
8	Mounting plate	KYN.5XJ.062.026	1	21	Sector plate	KYN.8XJ.192.012	1
9	Limit sleeve	KYN.5XJ.210.012	1	22		KYN.8XJ.192.013	1
10	Bent plate	KYN.8XJ.161.076	1	23	Sleeve	8XS.210.014.10/HL	2
11	Toothed insert plate	8XS.151.044	1	24	Sector plate	8XS.151.043	1
12	Bent plate	8XS.161.059	1	25		8xS.151.042	1
13	Label	KYN.8XJ.867.029	1	26	Limit sleeve	8XS.210.322	1

1. Guide Shutter Mechanism KYN.5XJ.320.031 (Cabinet Width 1200mm)



二、Guide Shutter Mechanism KYN.5XJ.320.031 – Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Guide Slot	KYN.8XJ.357.001	2	15	Positioning Plate	KYN.8XJ.271.049	1
2	Upper Shutter Assembly	KYN.5XJ.320.275.18	1	16	Left Guide Rail	KYN.5XJ.260.014	1
3	Shaft Sleeve	KYN.8XJ.211.095	3	17	Right Guide Rail	KYN.5XJ.260.015	2
4	Bronze Bushing	KYN.8XJ.211.096	2	18	Nut	KYN.8XJ.950.044	1
5	Pin	KYN.8XJ.993.080	2	19	Sleeve	KYN.8XJ.211.098	1
6	Guide Slot	KYN.8XJ.357.002	2	20	Connecting Rod	KYN.8XJ.174.036	1
7		KYN.8XJ.357.003	2	21	Sleeve	KYN.8XJ.211.097	1
8	Chain Assembly	KYN.5XJ.294.001	1	22	Locking Plate	KYN.8XJ.141.047	1
9	Label	KYN.8XJ.867.028	2	23	Label	KYN.8XJ.867.025	2
10	Lower Shutter Assembly	KYN.5XJ.320.275.19	1	24		KYN.8XJ.867.026	2
11	Pin	KYN.8xJ.993.082	2	25		KYN.8XJ.867.027	2
12		KYN.8XJ.993.081	2	26		KYN.8XJ.867.023	1
13	Connecting Rod	KYN.8XJ.174.041	2	27		KYN.8XJ.867.024	1
14	Positioning Plate	KYN.8XJ.271.046	1				

3. Grounding Busbar

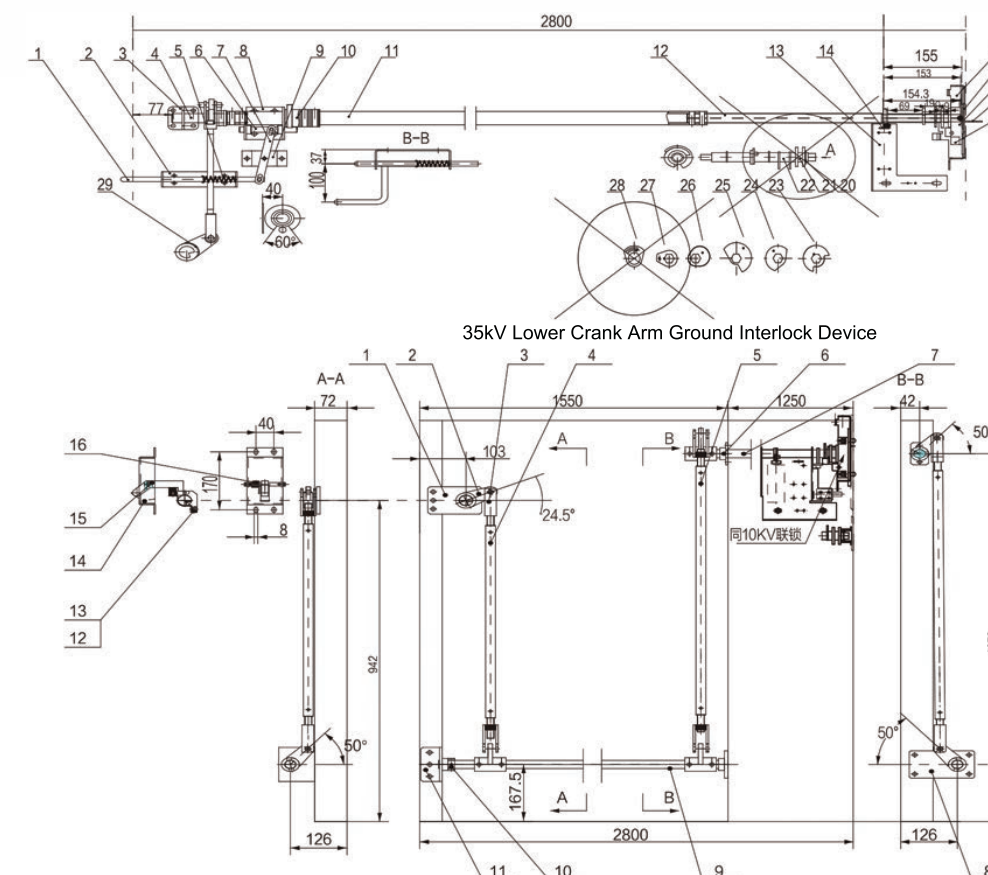


Grounding Busbar KYN.8XJ.588.006



1.KYN61C Earthing Switch Operating Mechanism In (Bevel Gear) KYN.5XJ.362.015 (2600)

If SGCC Lettering As Shown Is Required, Please Specify When Ordering



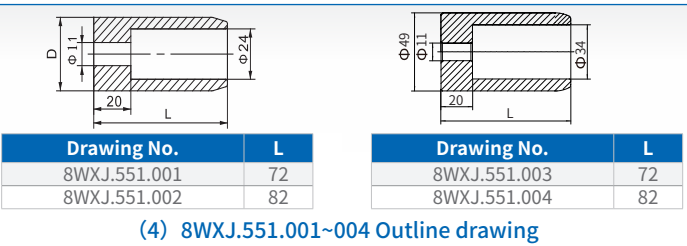
2.Earthing Switch Operating Mechanism Interlock Device KYN.5XJ.362.015– Matching List

No.	Name	Code	Quantity	No.	Name	Code	Quantity
1	Push Rod	KYN.5XJ.235.119	1	15	Support Base	5XS.043.022	1
2	Fixing Plate	KYN.8xJ.233.048	1	16	Cover Plate	8XS.017.011.2	1
3	Compression Spring	8XS.282.021	1	17	Slider	8XS.143.010	2
4	Operating Shaft	KYN.5XJ.200.130	1	18	Connecting Plate	KYN.5XJ.174.033	1
5	Bracket Welding Assembly	KYN.5XJ.043.045	1	19	Interlocking Device	KYN.5XJ.362.012	1
6	Limit Shaft	KYN.8XJ.205.129	1	20	Bearing	8XS.263.011	1
7	Connecting Plate	KYN.8XJ.233.047	1	21	Limit Plate	8XS.151.084	1
8	Mounting Plate	KYN.5XJ.062.026	1	22	Sleeve	8XS.210.14.9/HL	2
9	Limit Sleeve	KYN.5XJ.210.012	1	23	Sector Plate	KYN.8XJ.192.012	1
10	Bent Plate	KYN.8XJ.161.076	1	24		KYN.8XJ.192.013	1
11	Toothed Insert Plate	8XS.151.044	1	25	Sleeve	8XS.210.014.10/HL	2
12	Earthing Travel Device	KYN.5XJ.362.013	1	26	Sector Plate	8XS.151.043	1
13	Bent Plate	8XS.161.059	1	27		8XS.151.042	1
14	Label	KYN.8XJ.867.029	1	28	Limit Sleeve	8XS.210.322	1

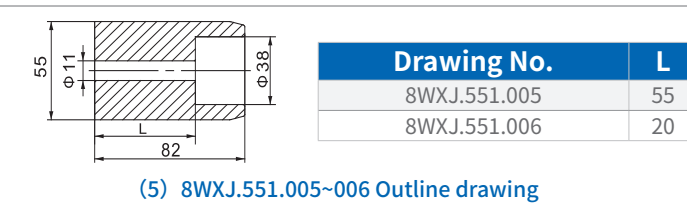
1.Type and mounting dimensions of HV primary static contact



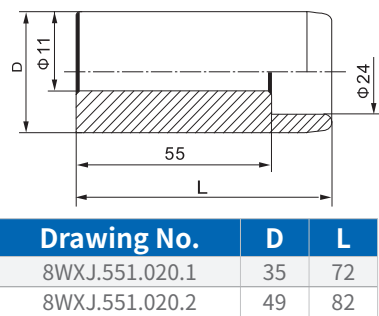
HV primary static contact



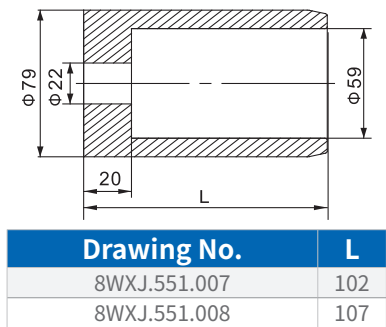
(4) 8WXJ.551.001~004 Outline drawing



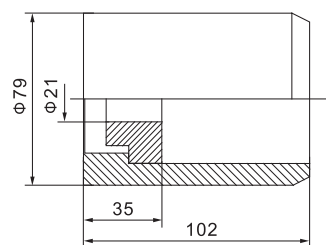
(5) 8WXJ.551.005~006 Outline drawing



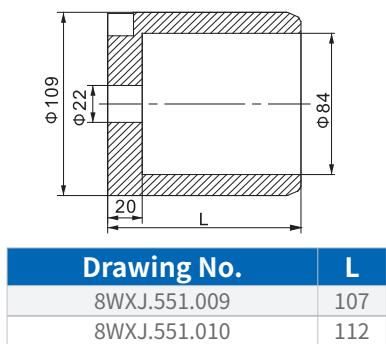
(1) 8XS.551.020.1~2 Outline drawing



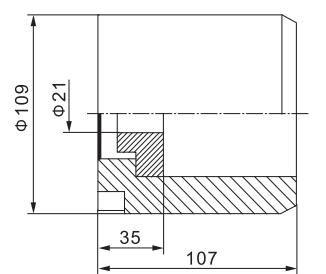
(6) 8WXJ.551.007~008 Outline drawing



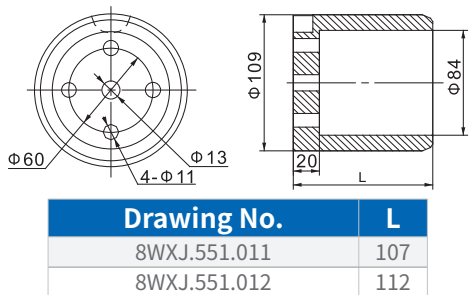
(2) 5XS.551.010 Outline drawing



(7) 8WXJ.551.009~010 Outline drawing



(3) 5XS.551.011 Outline drawing



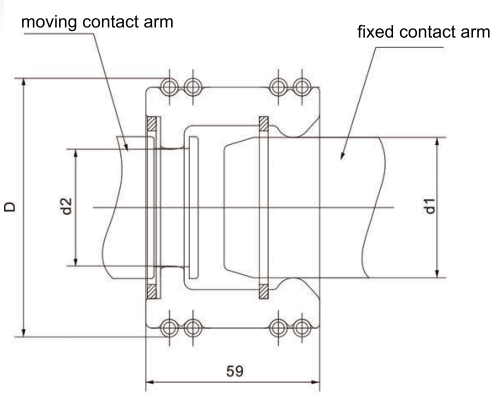
(8) 8WXJ.551.011~012 Outline drawing

MTC-630A~4000A
Tulip Contact Series

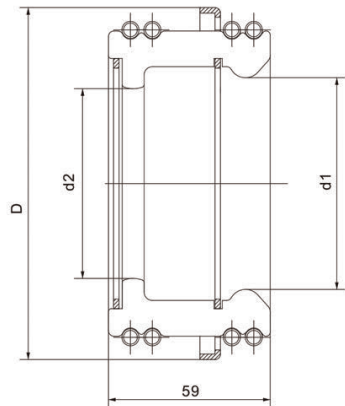
MTC-630A~4000A SERIES
PLUM BLOSSOM CONTACT



Tulip Contact CT-630A~4000A Series Outline
And Installation Dimensions



MTC630A~1600A



MCT2000A~4000A

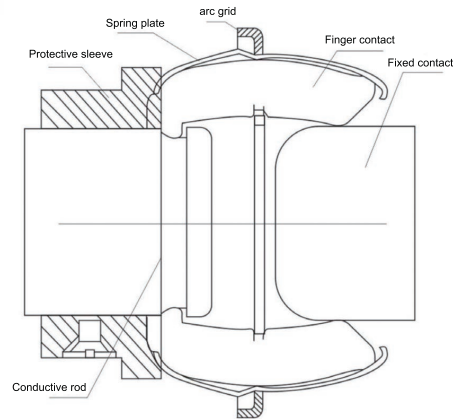
2.Matching List For Earthing Switch Operating Mechanism
Interlock Device

No.	Model	Number Of Contacts	D	d1	d2	Matching Fixed Contact Diameter	Movable contact arm diameter	Note
1	MCT-630A-12	12	φ74	φ33.5	φ26	φ35	φ28	
2	MCT-630A-24	24	φ74	φ33.5	φ26	φ35	φ28	
3	MCT-1250A-30	30	φ88	φ47.5	φ40	φ49	φ42	
4	MCT-1600A-36	36	φ94	φ53.5	φ46	φ55	φ48	
5	MCT-2000/2500A-48	48	φ128	φ77.5	φ70	φ79	φ72	
6	MCT-2500/3150A-64	64	φ158	φ107.5	φ100	φ109	φ102	
7	MCT-4000A-82	82	φ158	φ107.5	φ100	φ109	φ102	



1.Tulip Contact Series

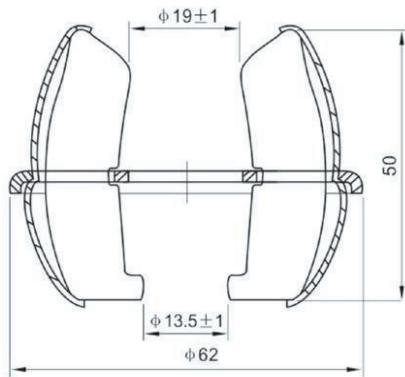
Contact Installation Diagram



Structural feature

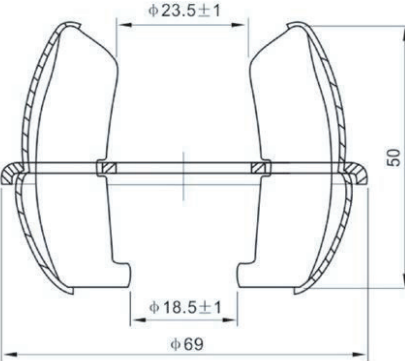
Spring Leaf Treated With Anti-Rust Paint To Prevent Oxidation And Rusting ;
Thick Silver Plating, High Wear Resistance ;
Anti-Tarnish Treatment To Prevent Silver Layer Oxidation And Peeling ;
The Aluminum Protective Sleeve Provides Fixation And Protection, Preventing
The Spring Leaf From Deformation And Falling Off.

Product Code: DYA201



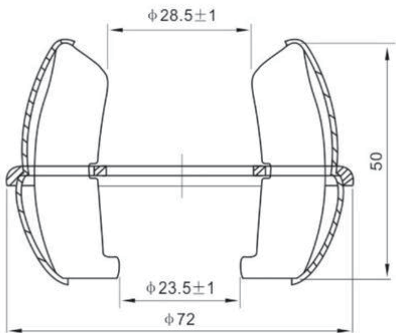
GC4-400A Tulip Contact
Number Of Contacts: 4 Pieces

Product Code: DYA202



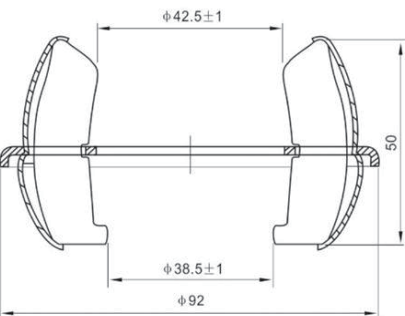
GC4-630A Tulip Contact
Number Of Contacts: 6 Pieces

Product Code: DYA203



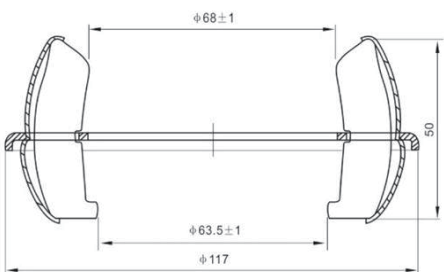
GC4-1000A Tulip Contact
Number Of Contacts: 10 Pieces

Product Code: DYA204



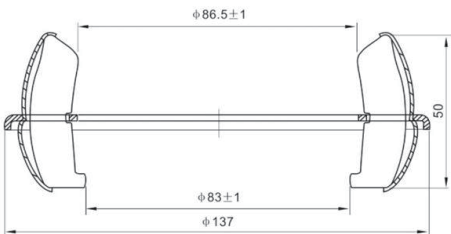
GC4-1250A Tulip Contact
Number Of Contacts: 15 Pieces

Product Code: DYA205



GC4-2500A Tulip Contact
Number Of Contacts: 24 Pieces

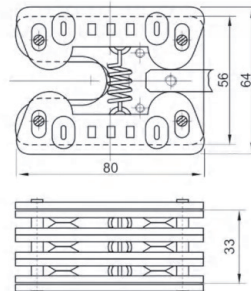
Product Code: DYA206



GC4-3150A Tulip Contact
Number Of Contacts: 30 Pieces

1.35KV Flat Contact Series-Product Code: **DYA301**

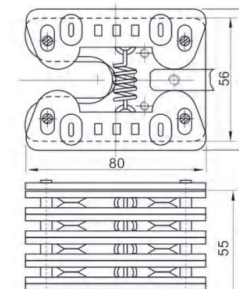
Product Code: **DYA301**



**GC8-630A Tension Spring
Flat Contact**

Number Of Contacts: 12 pieces
Contact Thickness: 10mm
Insertion Depth: 34±2

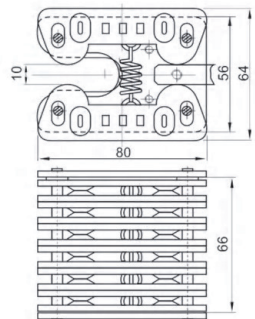
Product Code: **DYA302**



**GC8-1000A Tension Spring
Flat Contact**

Number Of Contacts: 20 pieces
Contact Thickness: 10mm
Insertion Depth: 34±2

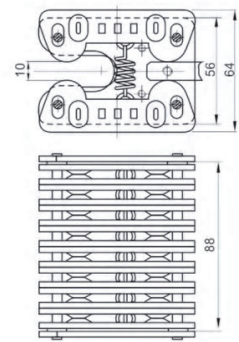
Product Code: **DYA303**



**GC8-1250A Tension Spring
Flat Contact**

Number Of Contacts: 24 pieces
Contact Thickness: 10mm
Insertion Depth: 34±2

Product Code: **DYA304**

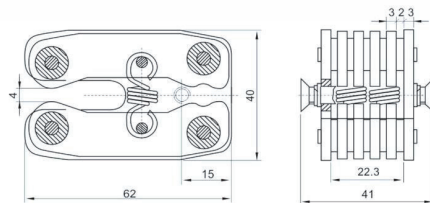


**GC8-1600A Tension Spring
Flat Contact**

Number Of Contacts: 32 pieces
Contact Thickness: 10mm
Insertion Depth: 34±2

2.35KV Product Contact Series-Product Code: **DYA401**

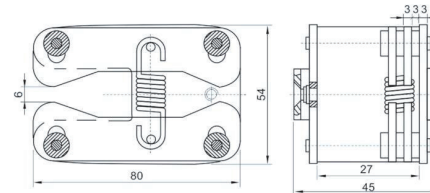
Product Code: **DYA401**



**GC6-400A Tension Spring
Flat Contact**

Number Of Contacts: 8 pieces
Contact Plate Thickness: 6mm
Insertion Depth: 22±2

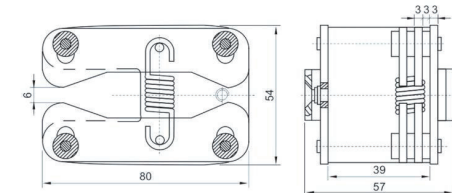
Product Code: **DYA402**



**GC6-400A Tension Spring
Flat Contact**

Number Of Contacts: 8 pieces
Contact Plate Thickness: 10mm
Insertion Depth: 34±2

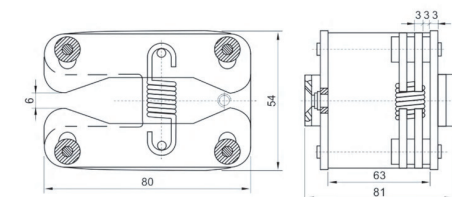
Product Code: **DYA403**



**GC6-630A Tension Spring
Flat Contact**

Number Of Contacts: 12 Pieces
Contact Plate Thickness: 10mm
Insertion Depth: 34±2

Product Code: **DYA404**

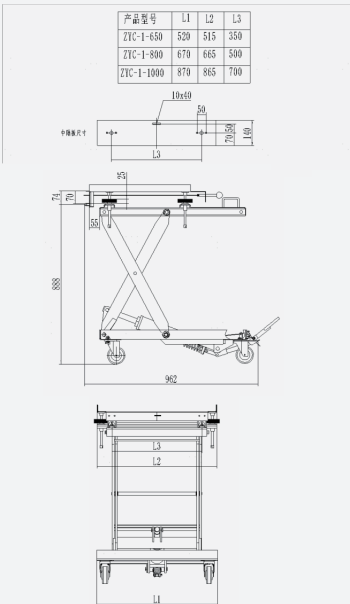
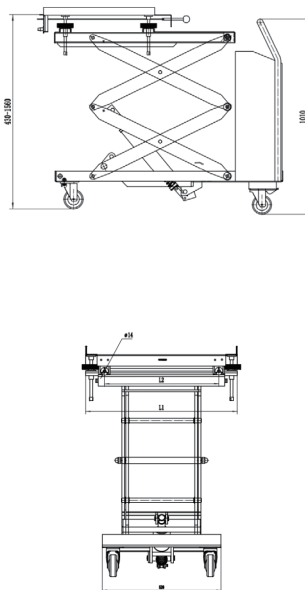


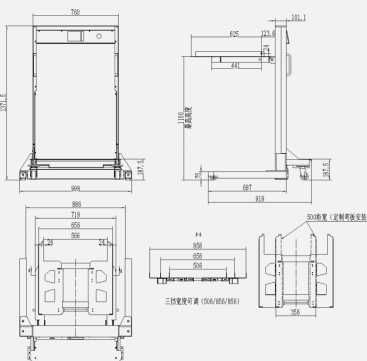
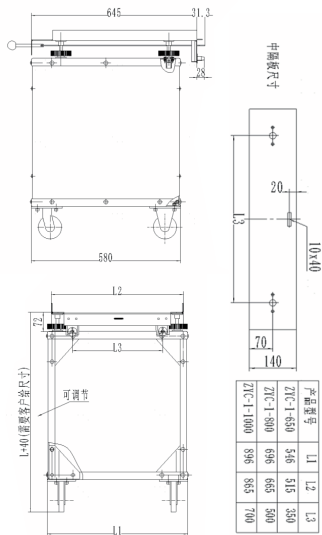
**GC6-1000A Tension Spring
Flat Contact**

Number Of Contacts: 20 pieces
Contact Plate Thickness: 10mm
Insertion Depth: 34±2



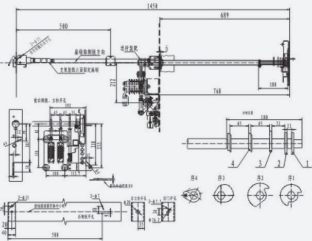
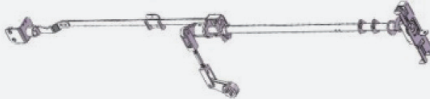
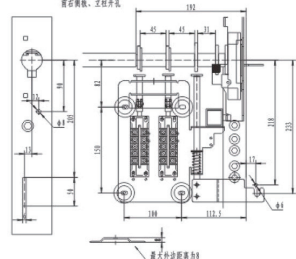
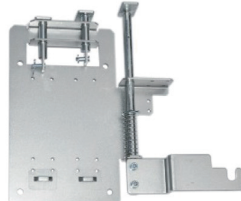
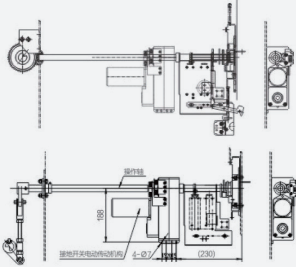
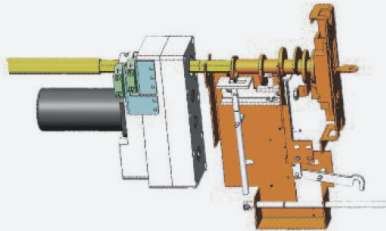
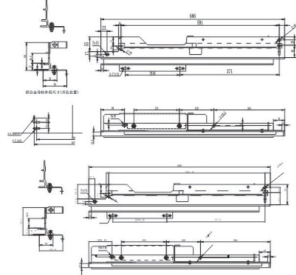
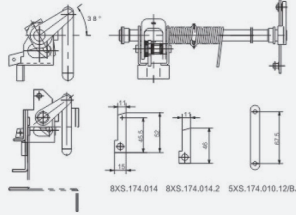
Lifting Trolley Selection Table

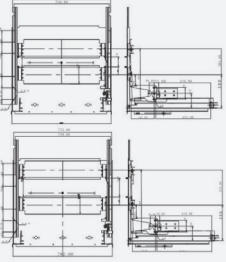
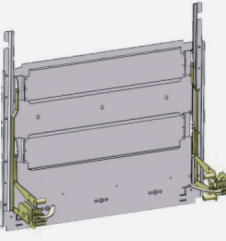
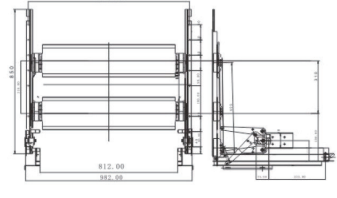
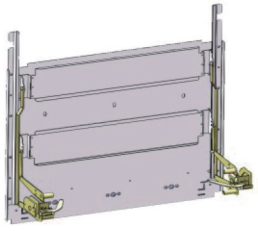
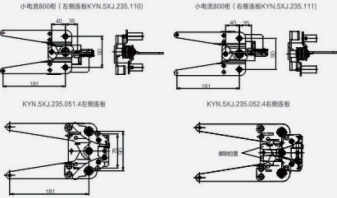
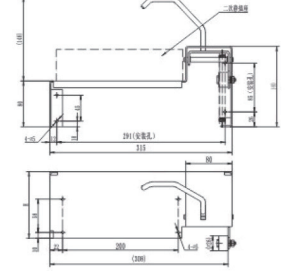
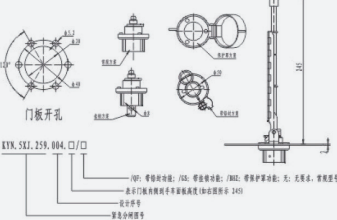
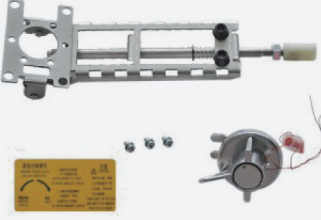
Name	Type	Picture	Outline Dimension Drawing	Parameters																
Lifting Trolley	ZYC-1-650/800 ZYC-1-800/1000	Single-layer	<table><tr><th>产品型号</th><th>L1</th><th>L2</th><th>L3</th></tr><tr><td>ZYC-1-650</td><td>520</td><td>515</td><td>350</td></tr><tr><td>ZYC-1-800</td><td>670</td><td>665</td><td>500</td></tr><tr><td>ZYC-1-1000</td><td>870</td><td>865</td><td>700</td></tr></table>	产品型号	L1	L2	L3	ZYC-1-650	520	515	350	ZYC-1-800	670	665	500	ZYC-1-1000	870	865	700	Hydraulic adjustable lifting trolley, with two universal adjustable width ranges: 650-800 mm and 800-1000 mm. Specifications: Minimum height: 350 mm Maximum height: 940 mm (excluding screw lifting height) Load capacity: 400 kg.
		产品型号		L1	L2	L3														
ZYC-1-650	520	515	350																	
ZYC-1-800	670	665	500																	
ZYC-1-1000	870	865	700																	
Double-layer																				
Electric Lifting Trolley	ZYC-1D	Double-layer	 	Minimum height: 350 mm Maximum height: 1500 mm Load capacity: 300 kg																

Name	Type	Picture	Outline Dimension Drawing	Parameters
Floor-standing Lifting Trolley	ZYC-3D	Electric 		1.Compatible with vacuum circuit breakers for panel widths of 650–1000 mm 2.Maximum load capacity: 300 kg 3.Fully charged battery supports up to 100 operation cycles 4.Lifting and lowering speed can be adjusted according to usage conditions
Fixed transfer trolley	ZYC-650 ZYC-800 ZYC-1000			Fixed transfer trolley, available in three widths: 650 / 800 / 1000 mm, with fixed height



Accessories for KYN28 Withdrawable Switchgear (2nd Generation)

No.	Product Name/ Specification	Product Drawing	3D Product Model
1	KYN.5XJ.363.010.6X2 Flat Steel Earthing Interlock (Cabinet Depth 1450mm)		
2	KYN.5XJ.239.012 Front Lower Door Interlock		
3	Motorized Earthing Interlock And Motorized components (For Different Earthing Interlock Configurations, Contact Technical Support)		
4	Aluminum Guide Rails, Left/Right KYN.5XJ.260.132/HTL Left Guide Rail KYN.5XJ.260.133/HTL Right Guide Rail Designed to meet IP2X		
5	Guide Rail Interlock KYN.5XJ.363.031(VS1) KYN.5XJ.363.031.1(VD4)		

No.	Product Name/ Specification	Product Drawing	3D Product Model
6	Low-Current Shutter Mechanism 5XS.320.010/WK (VS1) Or (VD4) Shutter Plate With Powder Coating RAL7035 /Without lettering		
7	High-Current Shutter Mechanism 5XS.320.011/WK Insulated Shutter Plate Without Lettering		
8	Shutter Self-Locking Mechanism (Mounting Holes Available With 2-Hole and 3-Hole Options)		
9	Secondary Socket Interlock 5XS.573.010 (Height To Be Confirmed)		
10	KYN.5XJ.259.004.245 Emergency Trip Device(Length)		



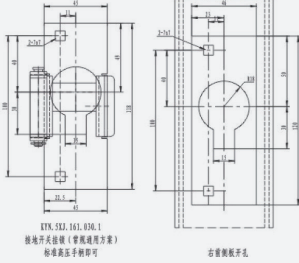
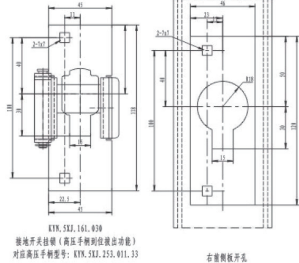
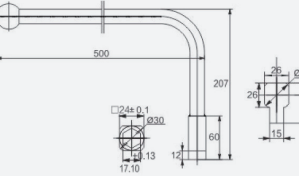
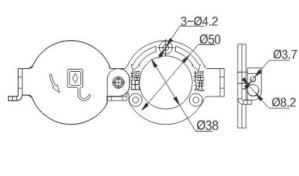
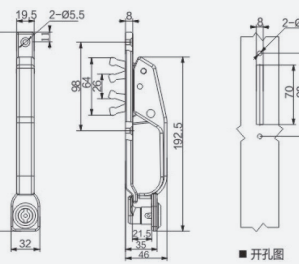
Accessories for KYN28 Withdrawable Switchgear (2nd Generation)

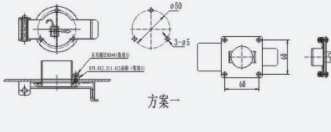
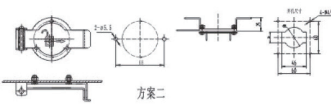
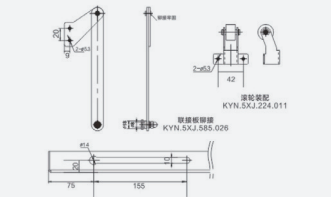
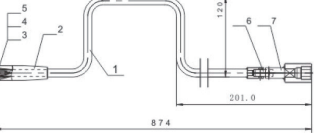
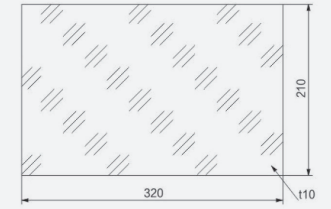
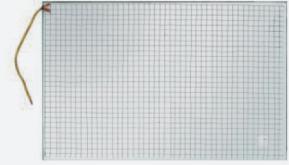
No.	Product Name /Specification	Product Drawing	3D Product Model
11	Quick-Release Door Lock Assembly		 8K8.156.030 PT Front Lower Door Lock Kit
			 8KD.156.001 Instrument Door Lock Kit
			 8KD.156.002 Low-Current Center Door Lock Kit
			 8KD.156.003 Low-Current Front Lower Door Lock Kit
			 8KD.156.004 High-Current Center Door Lock Kit
			 8KD.156.005 High-Current Front Lower Door Lock Kit

No.	Product Name /Specification	Product Drawing	3D Product Model
12	Hinge GJL9-1P		



Accessories for KYN28 Withdrawable Switchgear (2nd Generation)

No.	Product Name /Specification	Product Drawing	3D Product Model
13	Earthing Padlock KYN.5XJ.161.030.2 Earthing Switch Padlock (Universal Solution)		
14	Earthing Padlock KYN.5XJ.161.030.1 Earthing Switch Padlock (Removable Only When In Opsition)		
15	High-Voltage With Grounding Padlock KYN.5XJ.161.030.1 KYN.5XJ.253.011.33 Earthing Switch Padlock (Removable Only When In Opsition)		
16	Center Door Padlock KYN.5XJ.161.022		
17	Quick-Release Door lock GMS4-1P		 Matte Black Matte Black MS9 Key

No.	Product Name /Specification	Product Drawing	3D Product Model
18	Center Door Padlock KYN.5XJ.161.022.14		
19	Upper Door Limit Device KYN.5XJ.363.036		
20	Upper Door Limit Device KYN.5XJ.363.036		 提示 先向上轻抬活板，才能关合此门
21	Universal Operating Handle For Lower Chassis Truck GTJ.5XJ.253.006.1		
21	Double-Layer Laminated Tempered Glass (With Grounding Wire) T10*320*210		
21	Glass Retaining Frame 8WXJ.321.550	