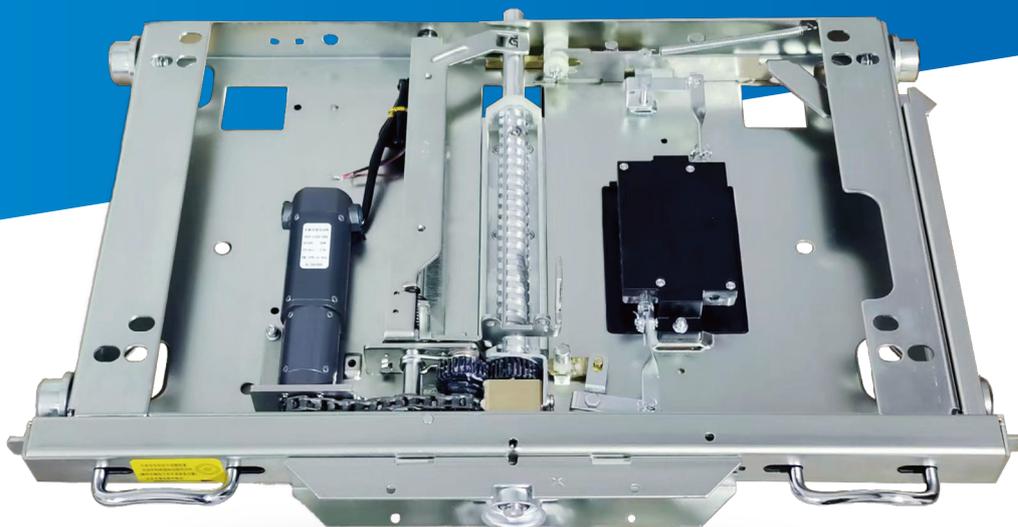


SKD-4-800/DD6 ELECTRIC CRADLE



Product Overview

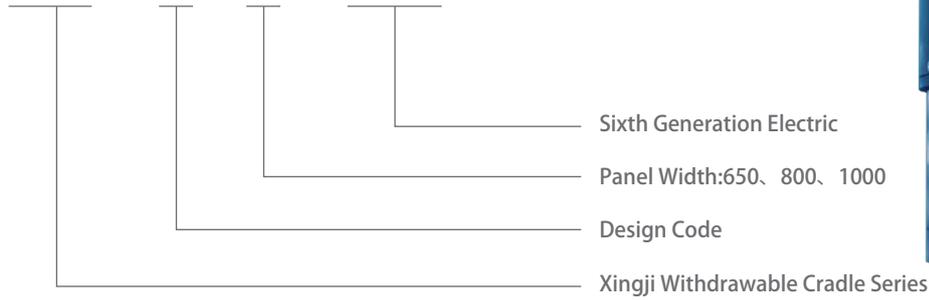
Our company is the first in China to independently develop electric cradles. Since its initial development, the product has evolved to the sixth generation. From the third generation onward, a horizontal motor design has been adopted (Patent No.: CN201498909U). The sixth-generation electric cradle features 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 \geq 96 hours.
-  Auxiliary switch: integrated design, better insulation.
-  The mechanical life can reach \geq 3000 racking in/out operations.
-  Equipped with various control modules, supports 110V/220V control voltages.

Model Composition And Meaning

SKD - 4 - □ / DD6



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

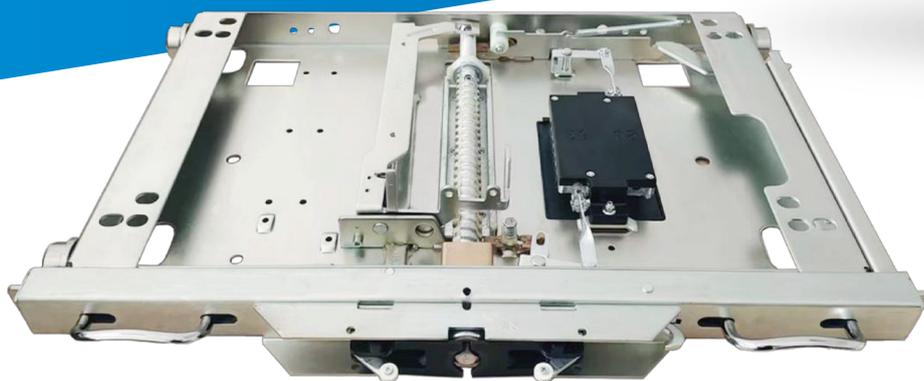
Product Features

-  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.

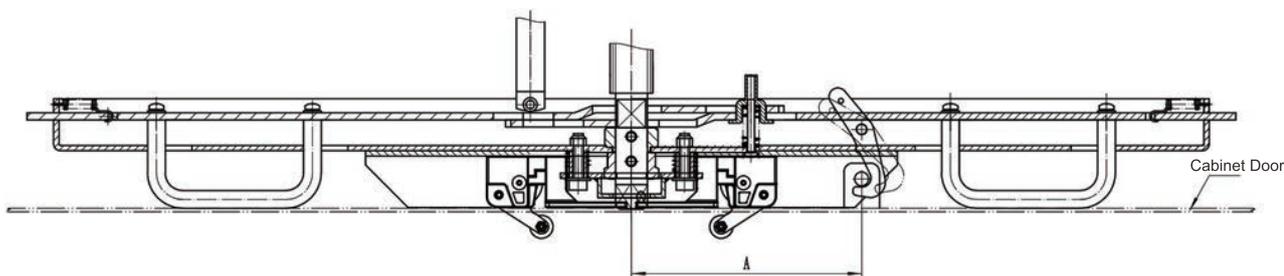
SKD-4-800/S6 CRADLE (MODULAR PATENTED PRODUCT)



S6 Door Interlock Module
Patent No : CN219106895U



Appearance and Installation Dimensions



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	

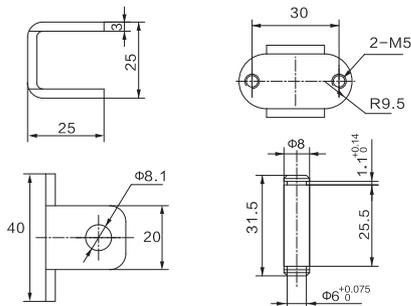
SKD Cradle Door Interlock Function

SKD- □ - □ /S6 Cradle

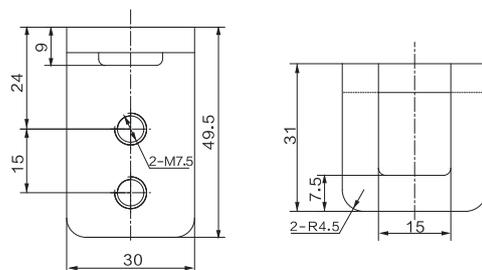
This chassis model adds a door lock interlock function on top of the first item. That is, after the handcart leaves the test position, the cabinet door is locked and cannot be opened. Only when returned to the test position can the door be opened. This interlock function requires modification of the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



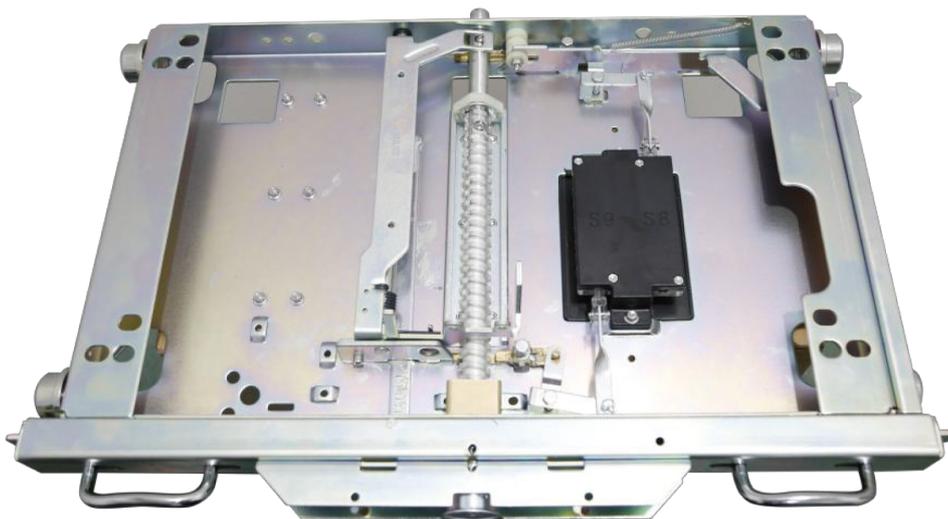
Mode 2 :



FULLY INSULATED AUXILIARY SWITCH FOR SKD CRADLE



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



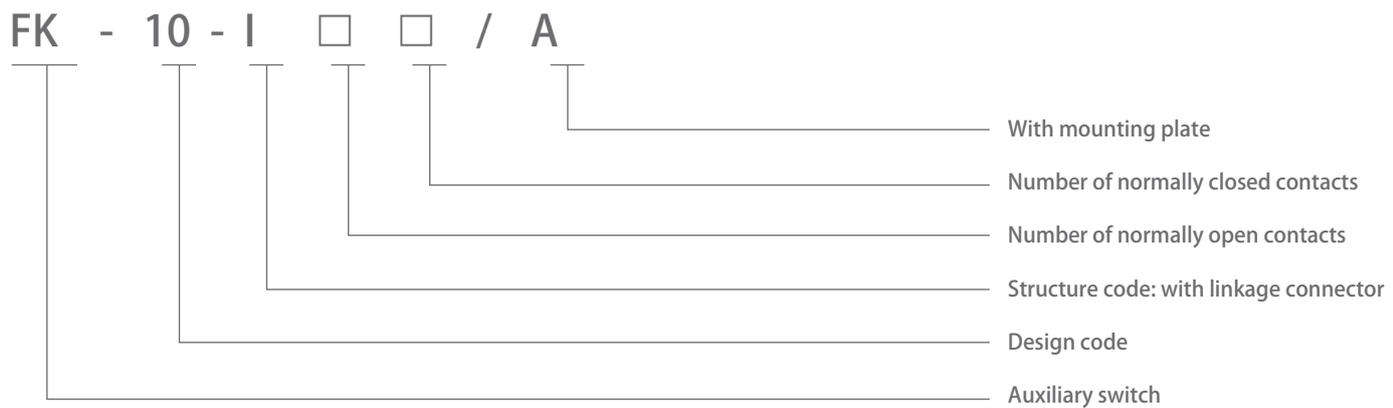
Product Overview

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.

Product Features

-  Auxiliary switch: integrated design, better insulation.
-  Mechanical life of the auxiliary switch \geq 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

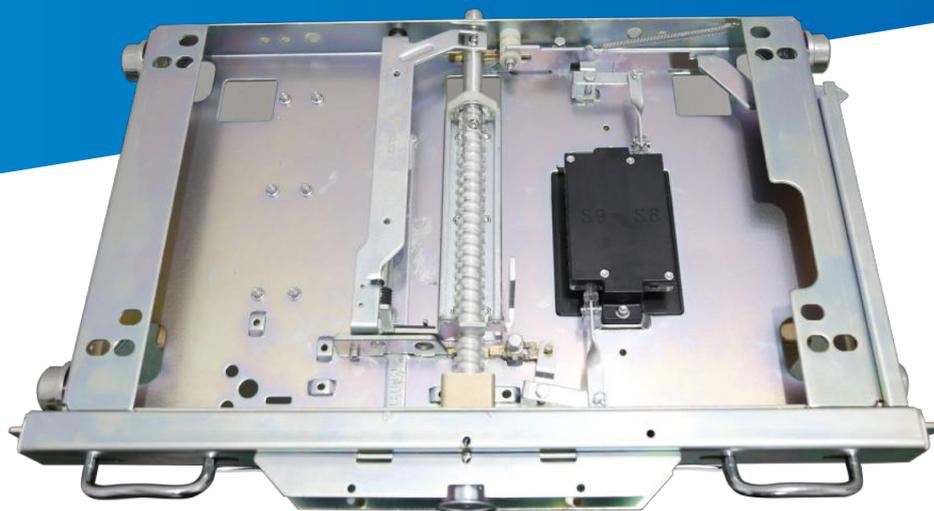


6NO + 6NC



10NO + 10NC

MANUAL CRADLE



Product Overview

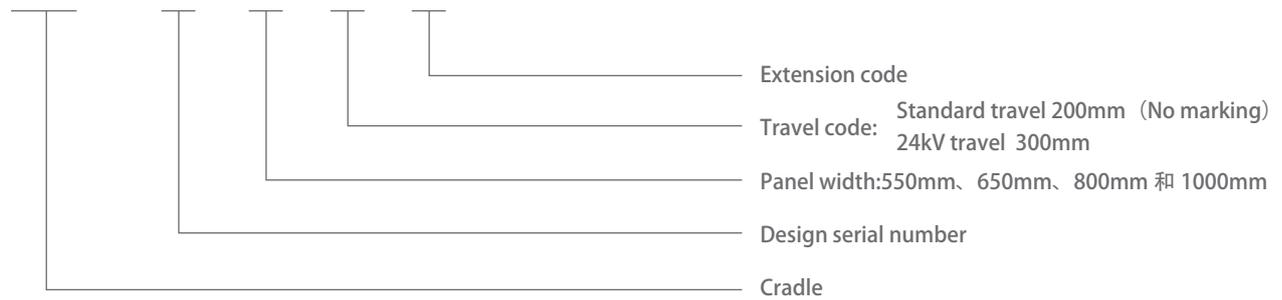
The cradle is primarily used in withdrawable switchgear to house components such as circuit breakers and current transformers, enabling their insertion and withdrawal, and serving as an auxiliary mechanism for connecting the components to the busbars. When the cradle is interlocked with the internal 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 - □ / □ / □

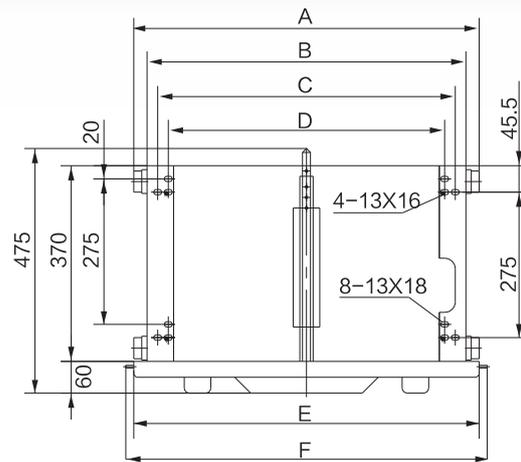


1、SKD-4- □底盘车

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



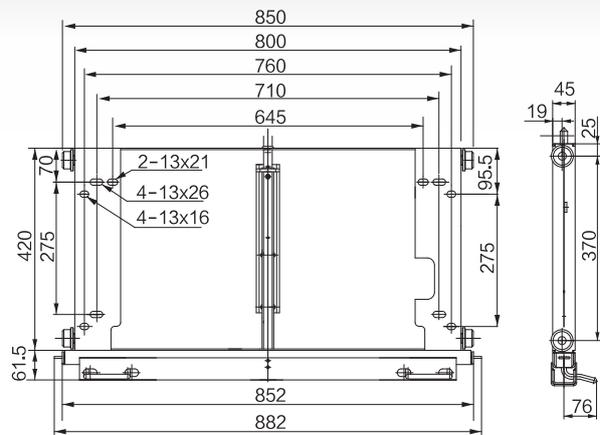
Note: 800 cradle has extra 4×13×16 mounting holes; not available on other models.



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



8XS.141.012



8XS.141.012.1



8XS.141.012.2

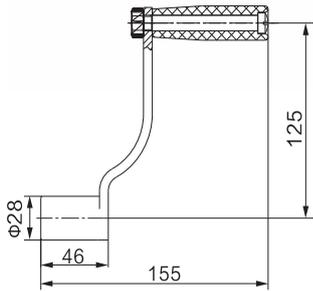


8XJ.141.050.2

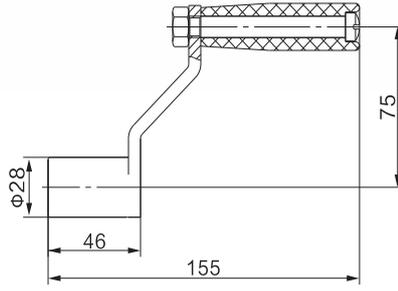


8XS.141.012S (VS1+)

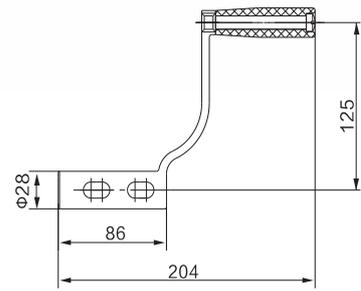
2、 Handle



Standard : 5XS.253.013



下层车 : 5XS.253.013.4

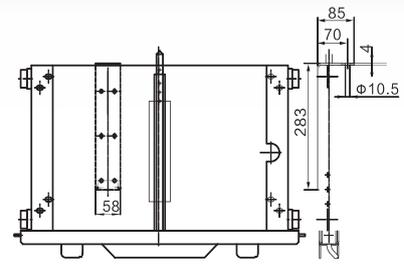
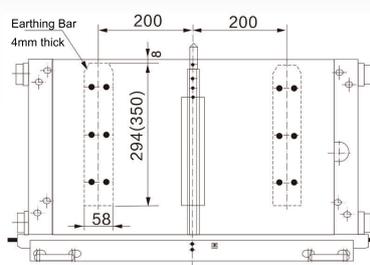
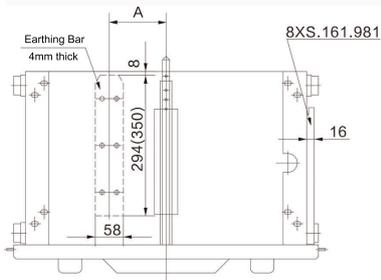


加长型 : 5XS.253.013.6/WK (用于凹凸门)

如需下层万象手柄，下单请注明。



3、 Earthing Bar



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

L-shaped earthing bar

Earthing bar DPC.8XJ.588.001.51/CZZ

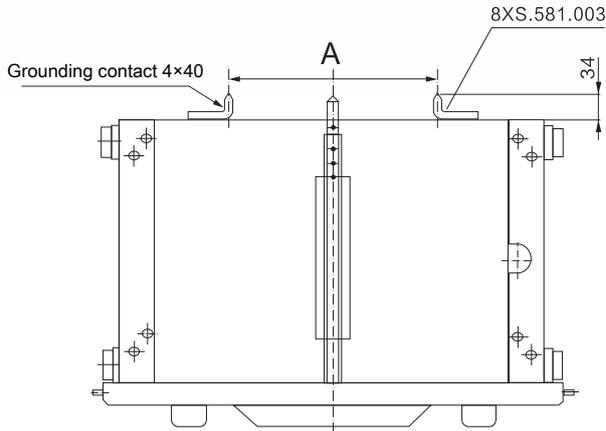
Just note this earthing bar in the order.

For other dimensions, please contact us.



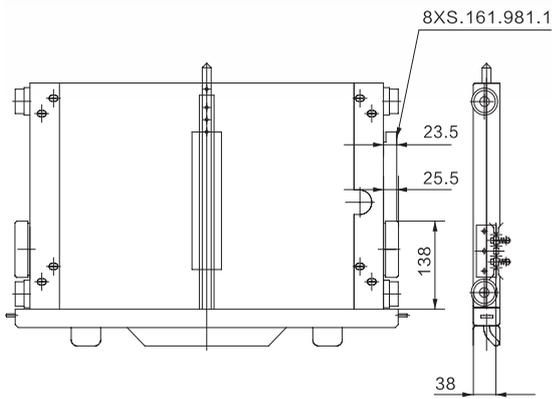
Dimensions in parentheses: 24 kV cradle SKD- □ -1000

4、 Grounding Contact

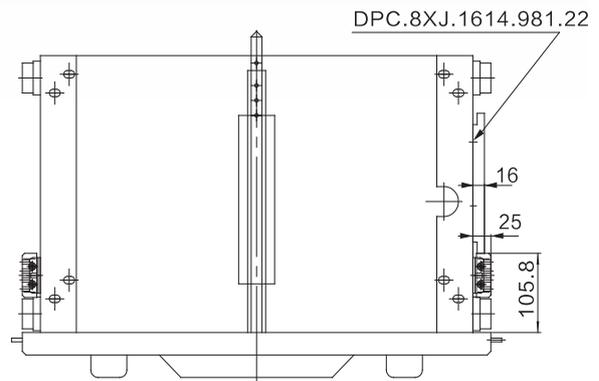


Type	A
SKD- □ -650	180
SKD- □ -800	296
SKD- □ -1000	496

5、 Earthing Clamp



Our model:J



Our model:JX



Note: Adjust rail interlock when changing earthing clamp.



JX (VEP EC)
DPC.5XJ.577.005



J (VD4 EC)
5WXJ.577.001

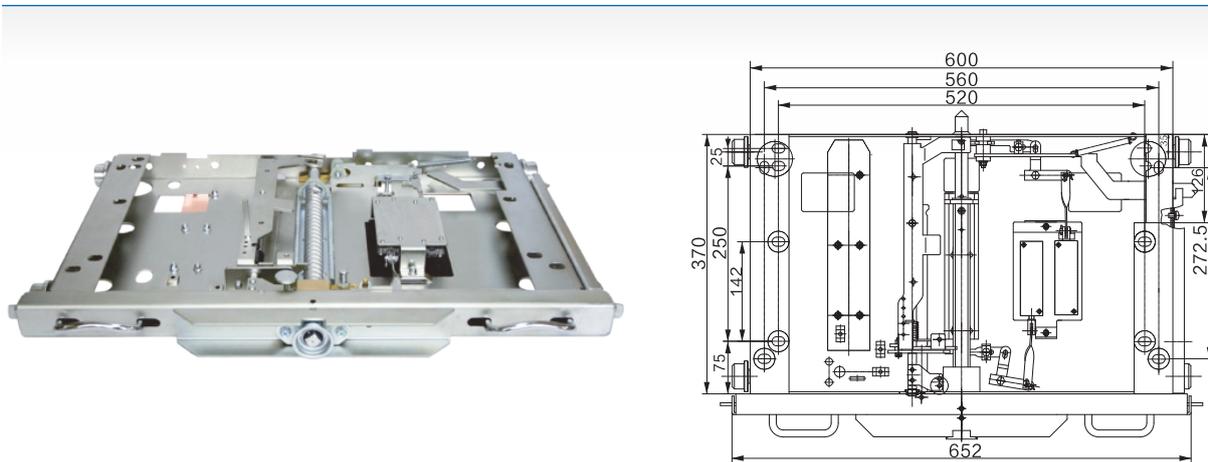


JD (Short-time withstand EC)
DPC.5XJ.577.001.10/JD

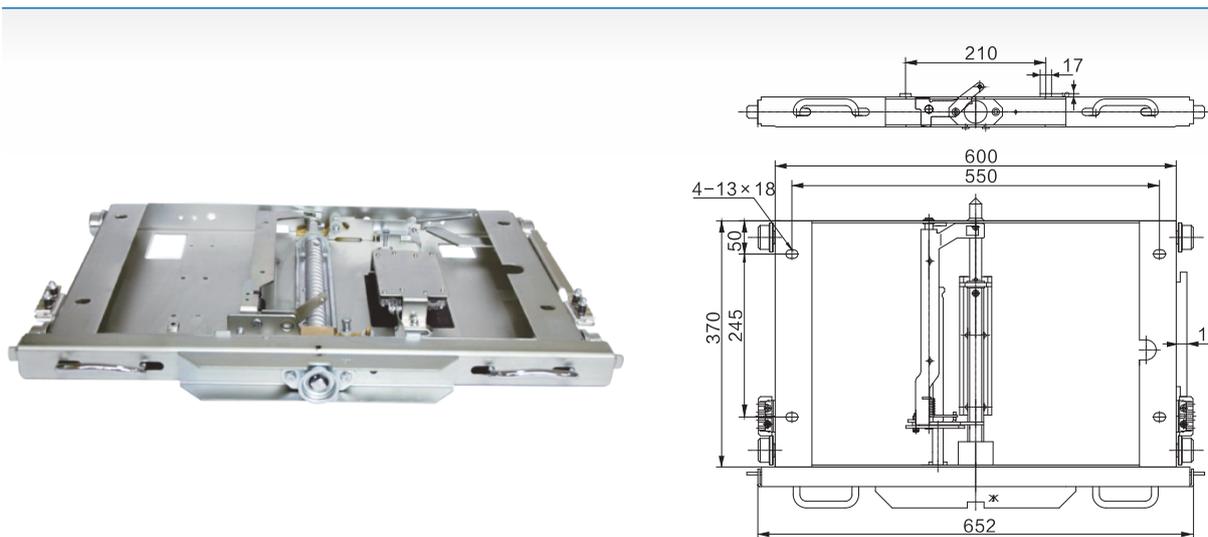


J/24 (VD4 EC 24kV)
DPC.5XJ.577.001.3

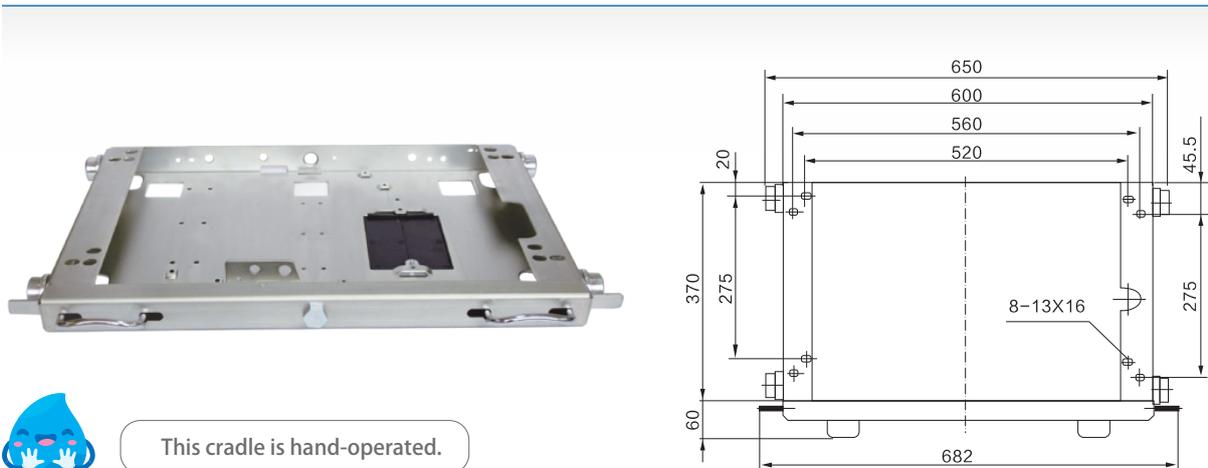
1、SKD-4-800/VD4



2、SKD-4-800/VEP

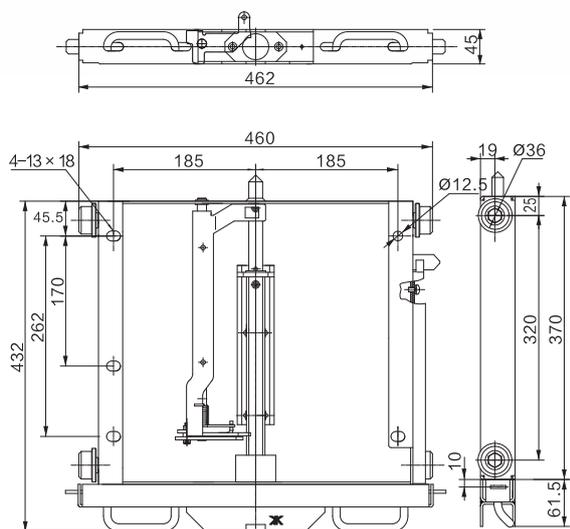


3、SKD-4-800/XC2 (For lower layer)

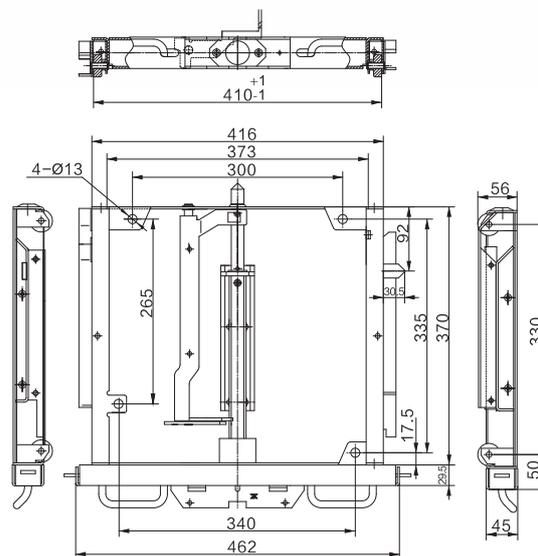


This cradle is hand-operated.

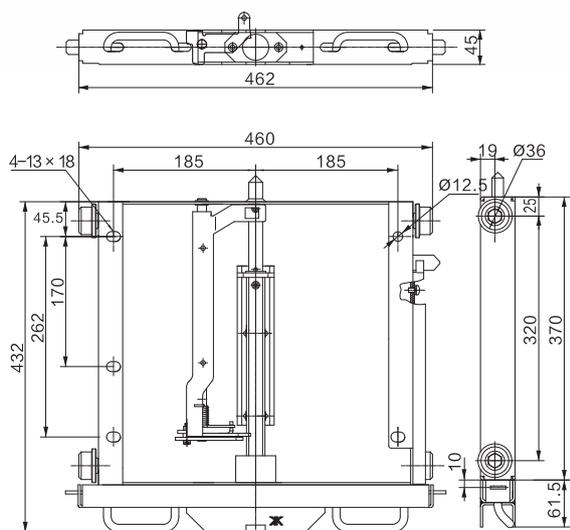
SKD-4-550



SKD-Vmax-550



SKD-4- 800 /JY Test Cradle

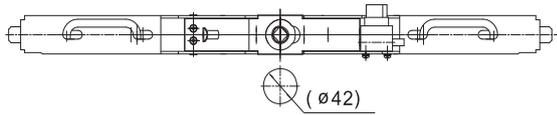


1、SKD- □ - □ /2J1 Cradle with two-in-one interlock device

Outline Installation Dimension Drawing

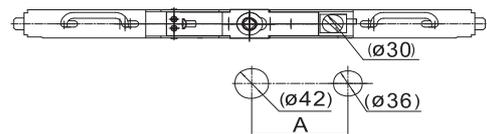
Option 1: Vertical Installation

No cabinet door drilling; operate with door open.



Option 2: Horizontal Installation

Cabinet door holes required; operation without door opening.



Overview:

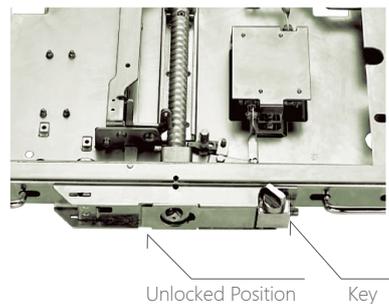
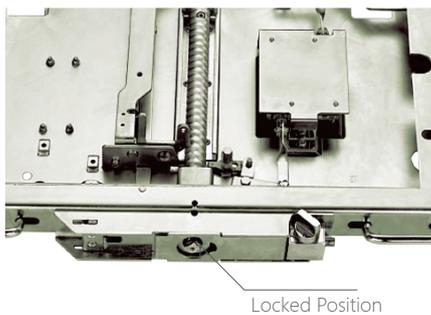
This interlock device is mainly used to prevent two withdrawable units from entering the service position simultaneously.

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.

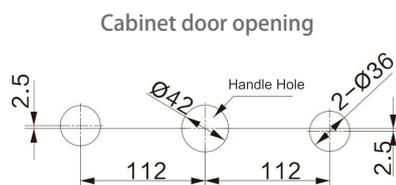
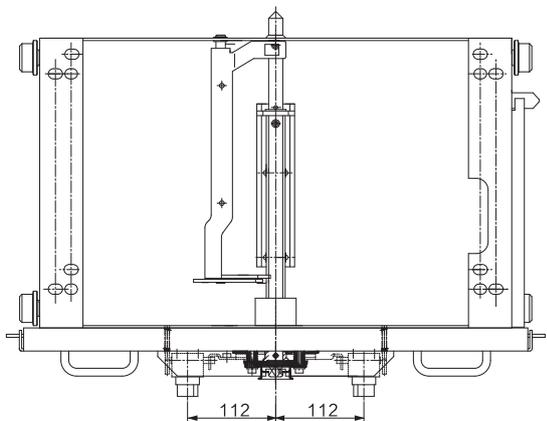
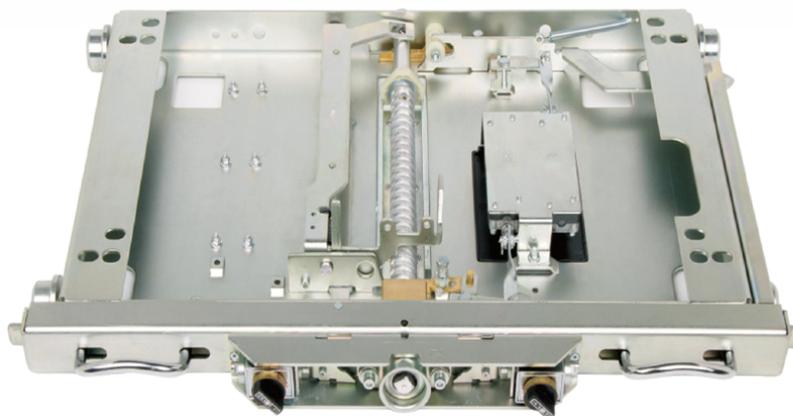
b.SKD- □ - □ /S5 Cradle

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.

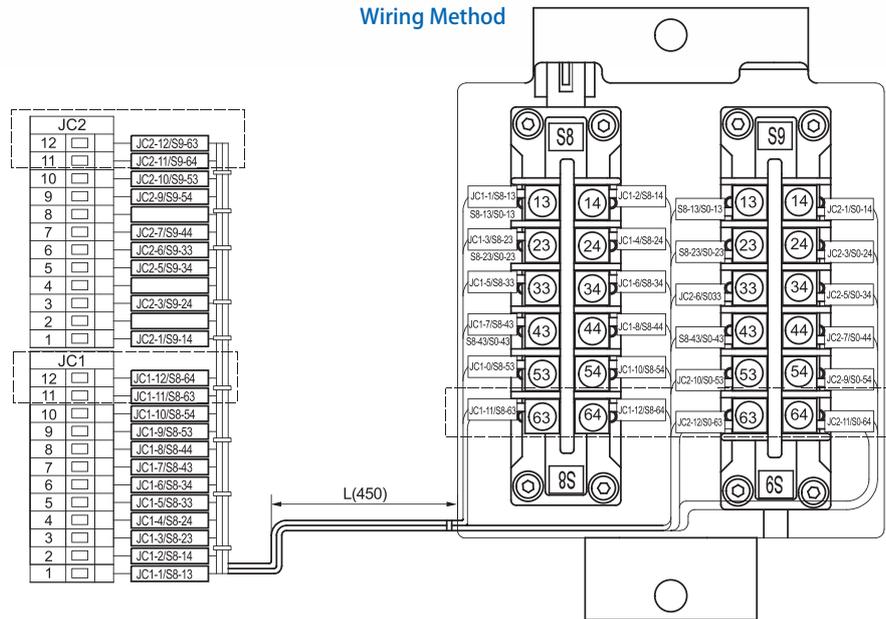


Note: Block structure design for easy installation and replacement.

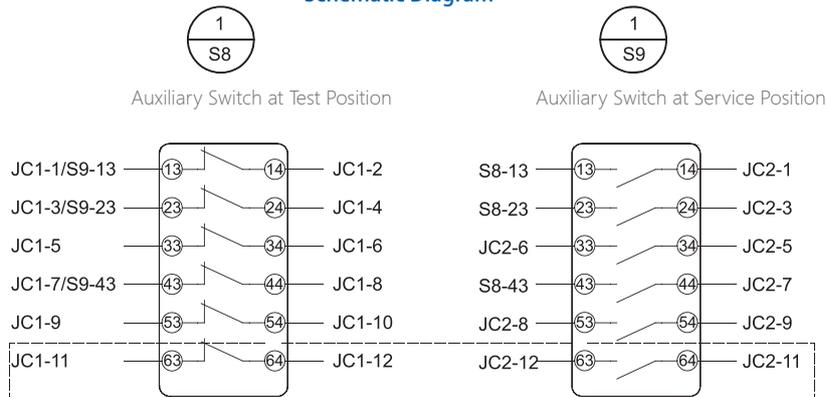
3、 SKD-4-800/SHS/1J1 Cradle with Dual Key Interlock



4. Cradle Wiring



Schematic Diagram



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	



FK10-I-60
Auxiliary switch



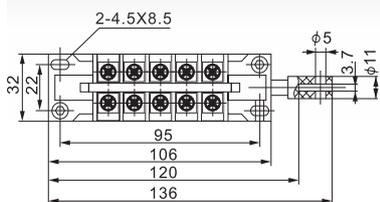
FK10-II-60
Auxiliary switch

Model Composition And Meaning

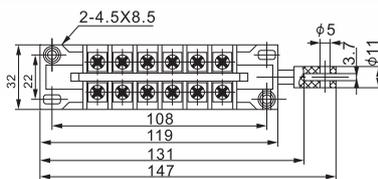
Fk10 - □ - □ □



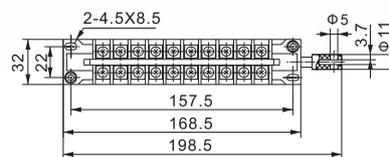
1、FK10-I- □ □



5 sets of contacts

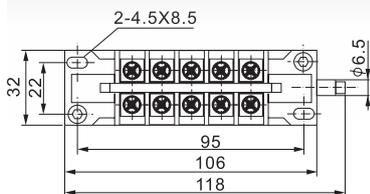


6 sets of contacts

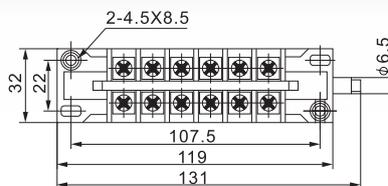


10 sets of contacts

2、FK10-II- □ □

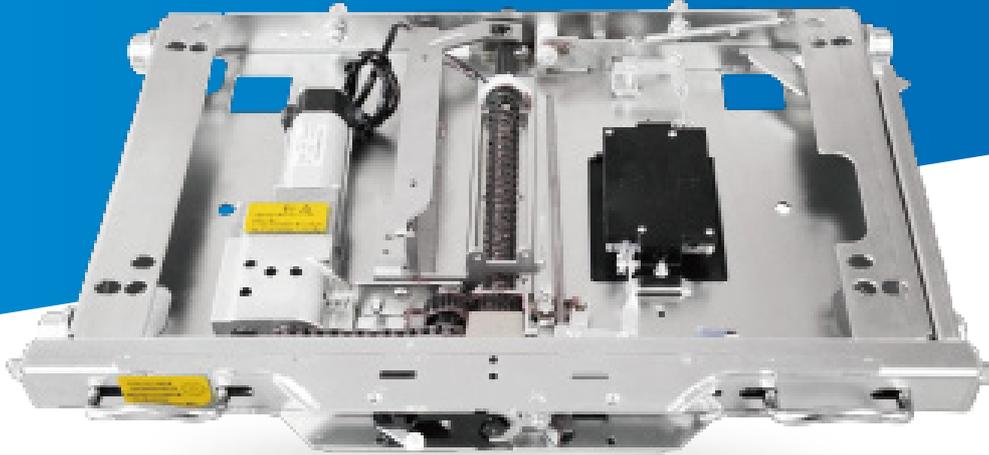


5 sets of contacts



6 sets of contacts

ELECTRIC CRADLE

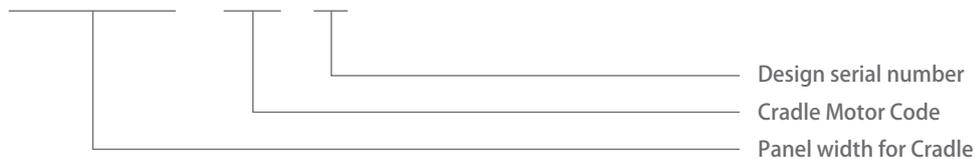


Product Overview

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

SKD - □ / DD □



1、 Manual Operation Priority for Electric Cradle S

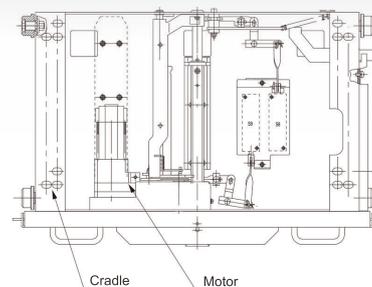
Overview:

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

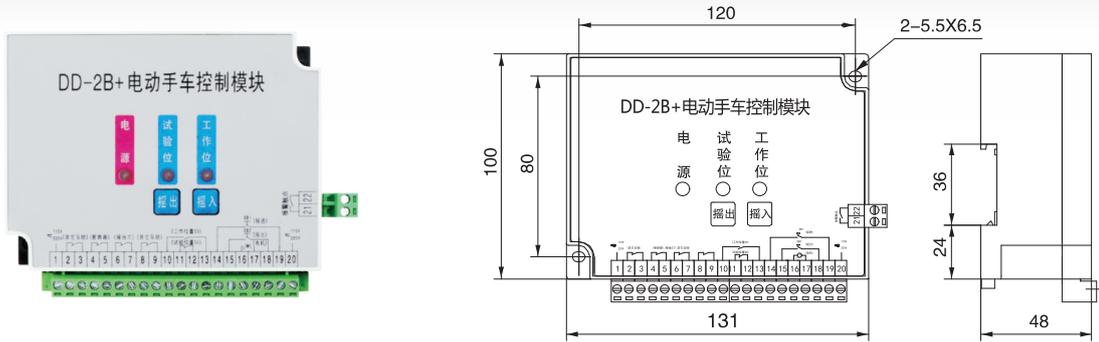
A micro-switch linked to the operating crank hole is installed on the cradle.

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:

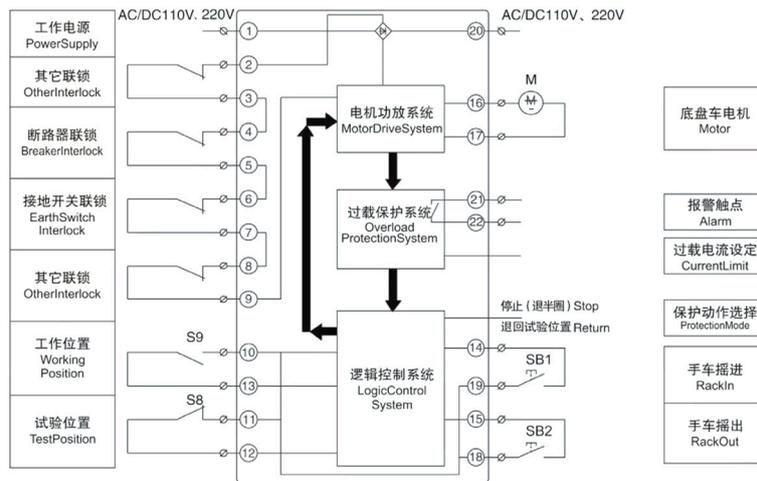


2、Control Module DD-2B+

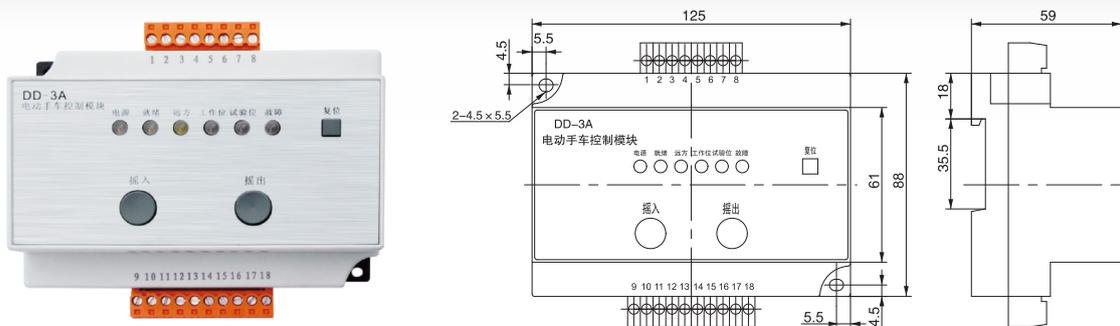


- Installation: Indoor, DIN35mm rail mounting or fixed mounting
- DD-2B+ is an upgraded and improved version of the earliest product, featuring soft start and high cost-performance.

3、Wiring Schematic Diagram DD-2B+



4、Control Module DD-3A

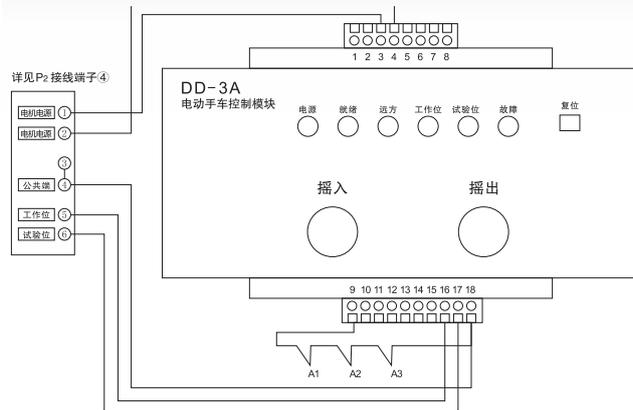


Installation: Indoor, DIN35mm rail mounting or fixed mounting

Note: Can include communication interface; specify when ordering.



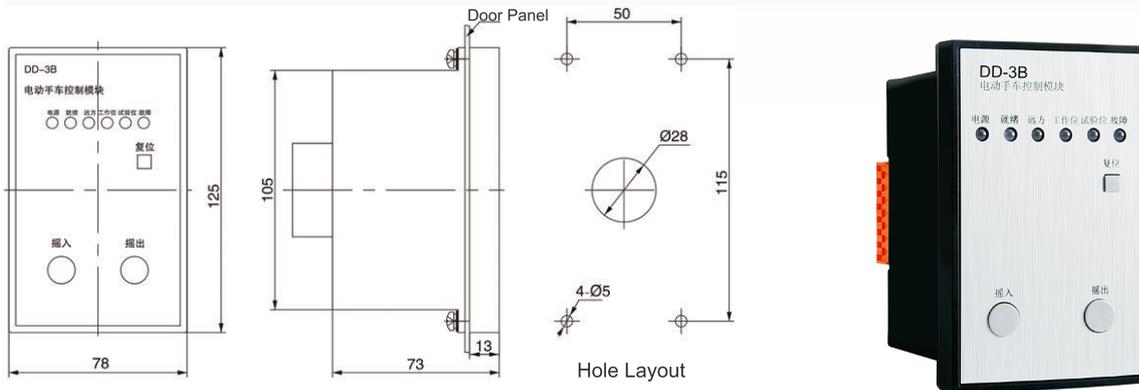
5、Wiring Schematic Diagram DD-3A



- 220V
- | | |
|------------------|------------------------------|
| 1 Power + | 10 Earthing Switch Interlock |
| 2 Power - | 11 Backup Interlock |
| 3 Motor+ | 12 Local Plug-in |
| 4 Motor- | 13 Local Pull-out |
| 5 } Fault Output | 14 Remote Plug-in |
| 6 } Fault Output | 15 Remote Pull-out |
| 7 Local/Remote | 16 Working Position |
| 8 Remote Reset | 17 Test Position |
| 9 CB Interlock | 18 Common Terminal |

A1 Rear Door Closed Position Limit Switch
A2/A3 Circuit Breaker Auxiliary Switch, Manual Priority Switch

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

