



# 中置式高压开关柜附件

Mid-Set High-Voltage Switchgear Accessories



青电电力设备（温州）有限公司

Green Energy Electrical Industry Co., Ltd

Email: sales@green-energy-elec.com

Mobile/Whatsapp: +8613396988128

Address: Floor No.3, The Union Building A, Jiangbin Road,  
Lucheng District, Wenzhou City, Zhejiang Province, China

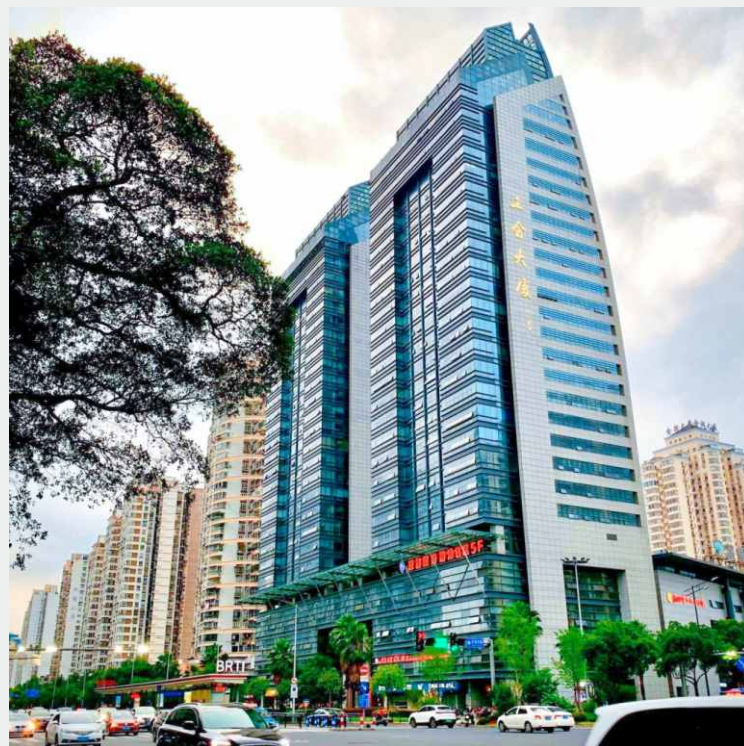
<https://www.green-energy-elec.com>

青电电力设备（温州）有限公司

Green Energy Electrical Industry Co., Ltd

## Our Headquarters

Located in electrical city of China, Green Energy Electrical is a professional exporter, invested by five experienced factories. It has a history of more than ten years in the power and electrical industry, some of which have a history of more than 30 years. We supplies power electrical products and OEM/ODM services across LV/MV switchgears and its components & accessories, switching devices, insulation products, cooper machining products and EV Charging. All five factories have ISO9001, ISO14001 certificates. The company aims to make green electrical supply more safe and efficient. Meanwhile, we became Official Authorized Distributor of Eaton Electrical from year 2022.



P1 **导轨系列**  
Guide Rail Series

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P5 **操作机构联锁装置系列**  
Perating Mechanism Interlocking Device Series

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P29 **活门机构装置系列**  
Valve Mechanism Device series

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P40 **联锁机构装置系列**  
Interlocking Mechanism Device Series

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P48 **底盘车系列**  
Chassis Car Senes

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P62 **中置柜高压开关柜配套件**  
Central Cabinet High voltage Switch Cabinet Kit

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## Certificates





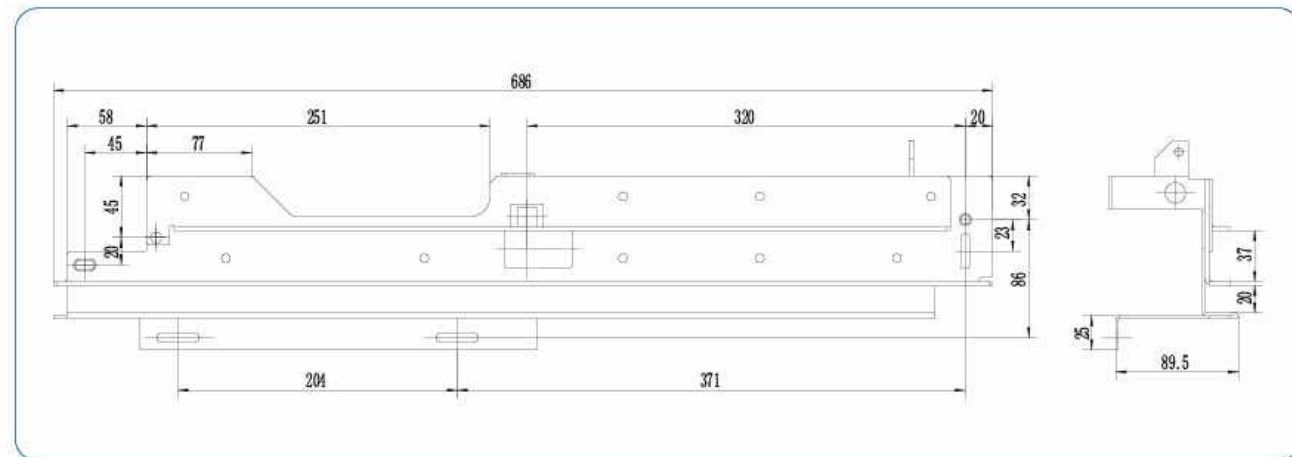
◇ 左右导轨系列：标准型、加长型、可配各种断路器手车

Left and right guide rail series: Standard type, extended type, can be equipped with a variety of circuit breaker handcart.



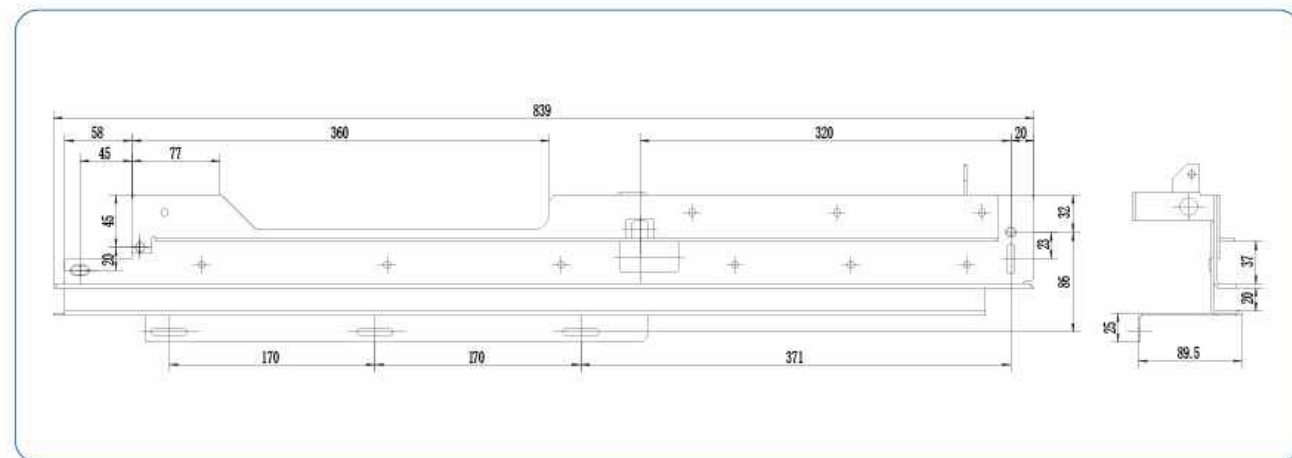
◇ 导轨 5YF.260.010 (标准型) 外形及安装尺寸

Guide rail 5YF.260.010 (standard) outline and mounting dimensions



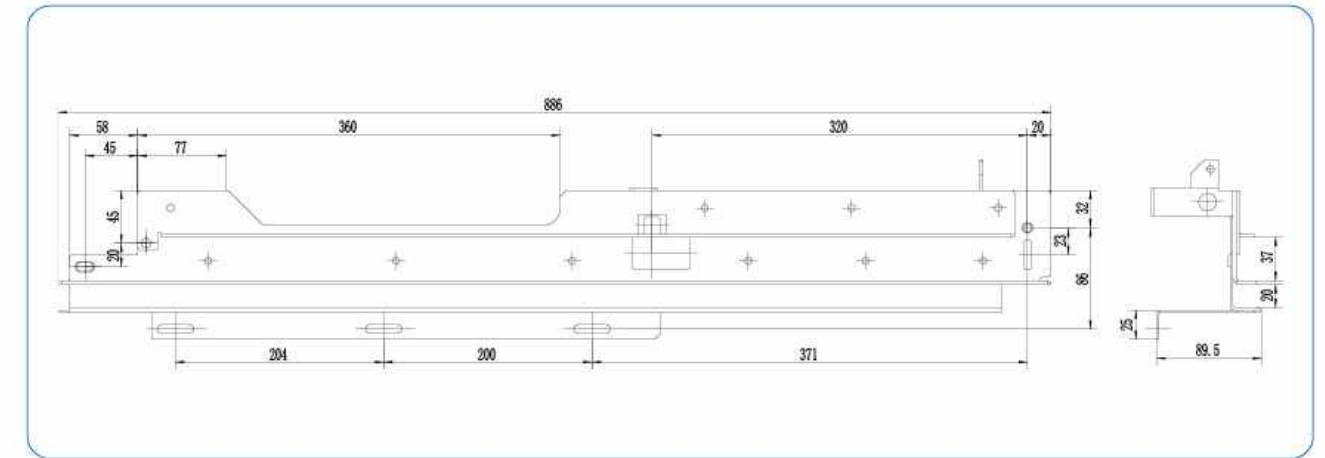
◇ 导轨 5YF.260.010 (加长型：加长 153, 配 VB2 等)

Guide rail 5YF.260.010 (extension: Extension 153, with VB2, etc.)



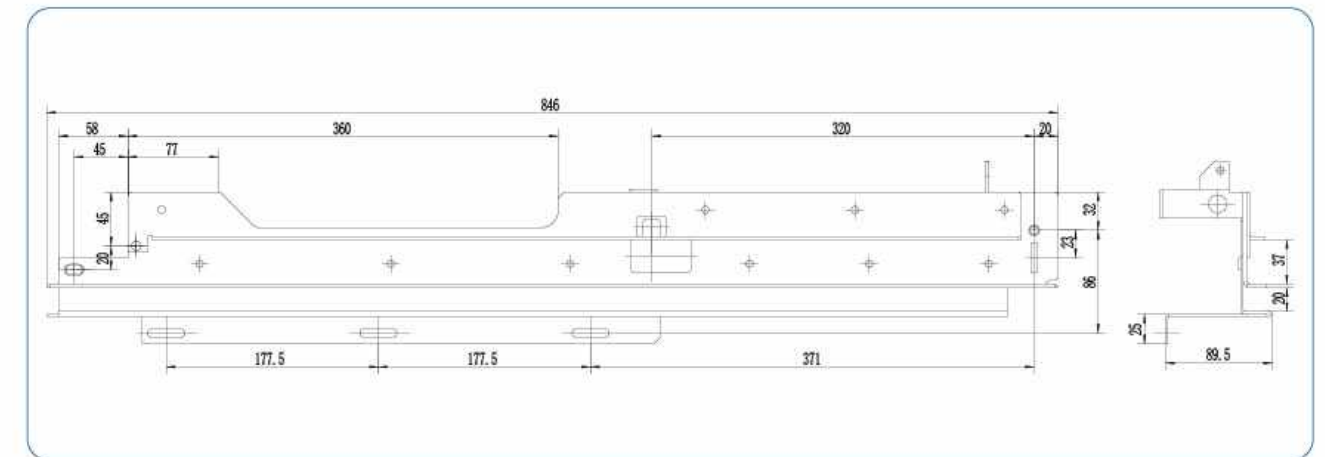
◇ 导轨 5YF.260.010.3 (加长型：加长 200, 配 3AH, ZN12, ZN65 等改装手车式断路器)

Rail 5YF.260.010.3 (lengthened type: lengthened 200, with 3AH, ZN12, ZN65 and other refitted handcart type circuit breaker)



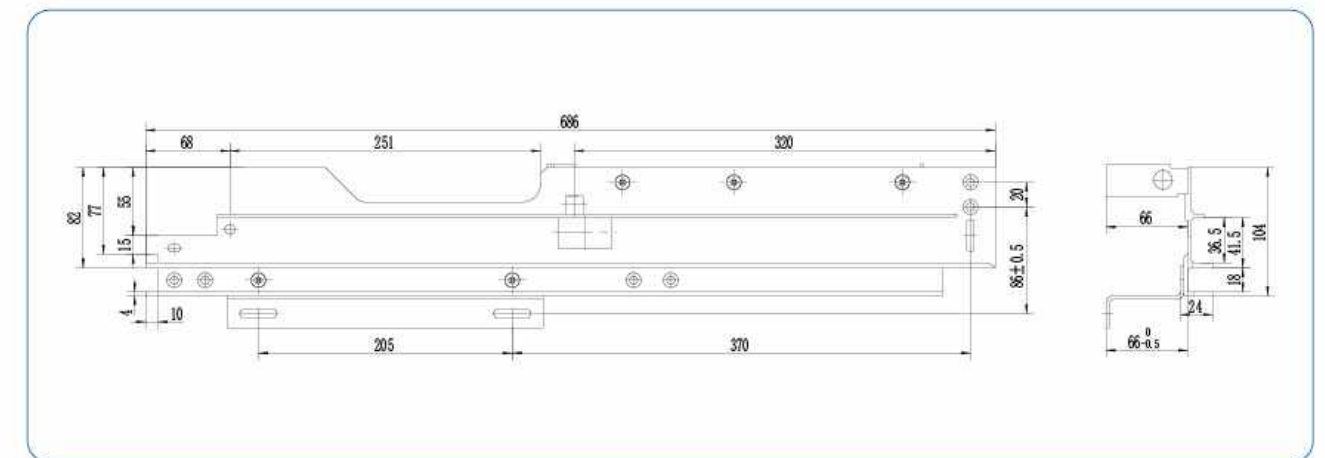
◇ 导轨 5YF.260.010.4 (加长型：加长 160, 配小电流 VB2、24kV 等断路器手车)

Guide rail 5YF.260.010.4 (extended: Extended 160, with small current VB2, 24 kV circuit breaker handcart)



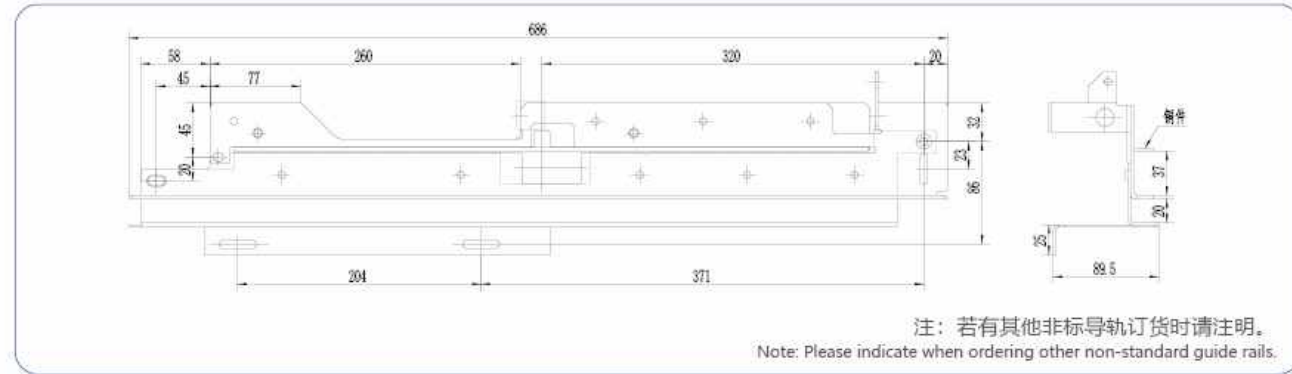
◇ 铝导轨 5YF.260.010.A

Aluminum guide rails 5YF.260.010.A



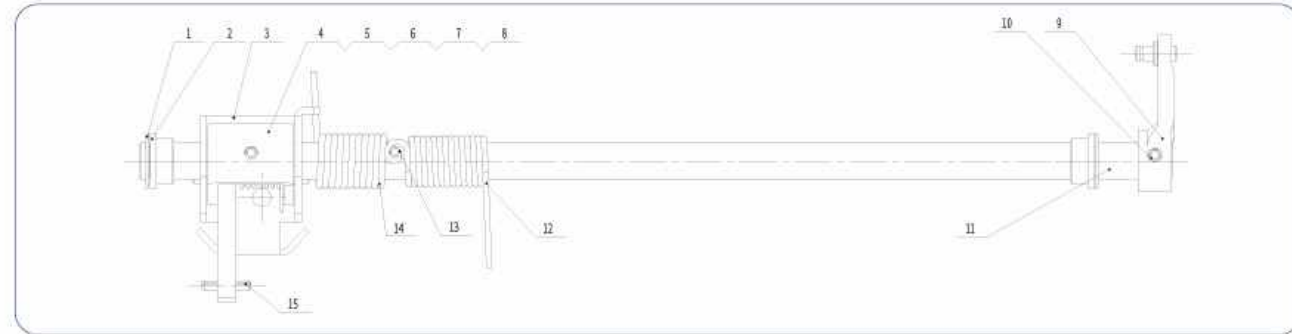
◇ 铜导轨 5YF.260.010.B (配 VD4 断路器)

Copper guide rails 5YF.260.010.B (with VD4 circuit breaker)



◇ 导轨联锁装置 (5YF.363.011) 装配示意图及配套表

Assembly diagram and supporting table of guide rail interlocking device (5YF.363.011)

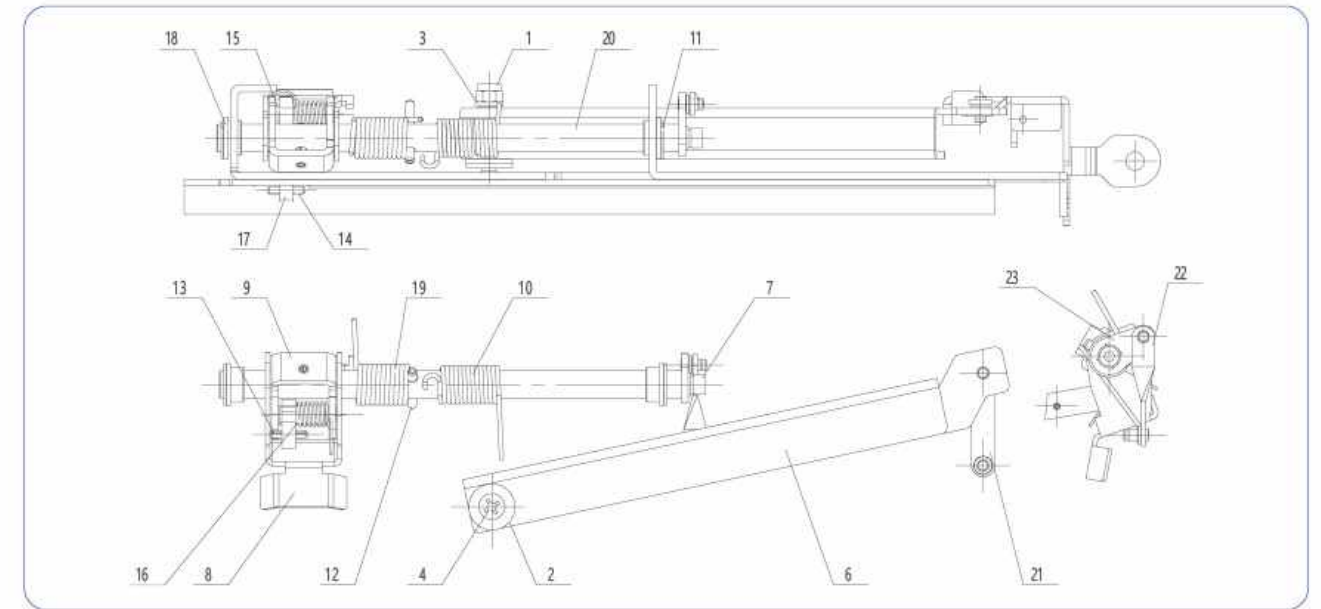


序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	发黑开口挡圈 M9×1 Blackened open retaining ring M9 × one	GBT896	2
2	轴承 Bearing	8YF.263.010	2
3	弯板 Bending plate	8YF.161.056	1
4	弯板 Bending plate	8YF.161.057	1
5	销轴 Pin shaft	8YF.206.010	1
6	扭簧 Torsion spring	8YF.288.011	1
7	发黑开口挡圈 Blackened open retaining ring	GBT896	1
8	挡板 bafße	8YF.174.014	1
9	小拐臂铆接 Small arm riveting	5YF.456.010	1
10	发黑弹性销 4×30 Blackened elastic pin 4 × thirty	GBT879.1	2
11	轴 axis	8YF.206.011	1
12	扭簧 Torsion spring	8YF.288.014	1
13	发黑弹性销 4×30 Blackened elastic pin 4 × thirty	GBT879.10	1
14	扭簧 Torsion spring	8YF.288.013	1
15	发黑弹性销 3×18 Blackened elastic pin 3 × eighteen	GBT879.1	1

注：当手车为 VD4，接地方式为接地夹时，序 11 改为 8YF.174.014.1  
Note: when handcart is Vd4 type earthing clip used for earthing, please use item 118YF.174.014.1

◇ 导轨联锁装置 (5YF.363.011.4) 装配示意图及配套表

Assembly diagram and supporting table of guide rail interlocking device (5YF.363.011.4)

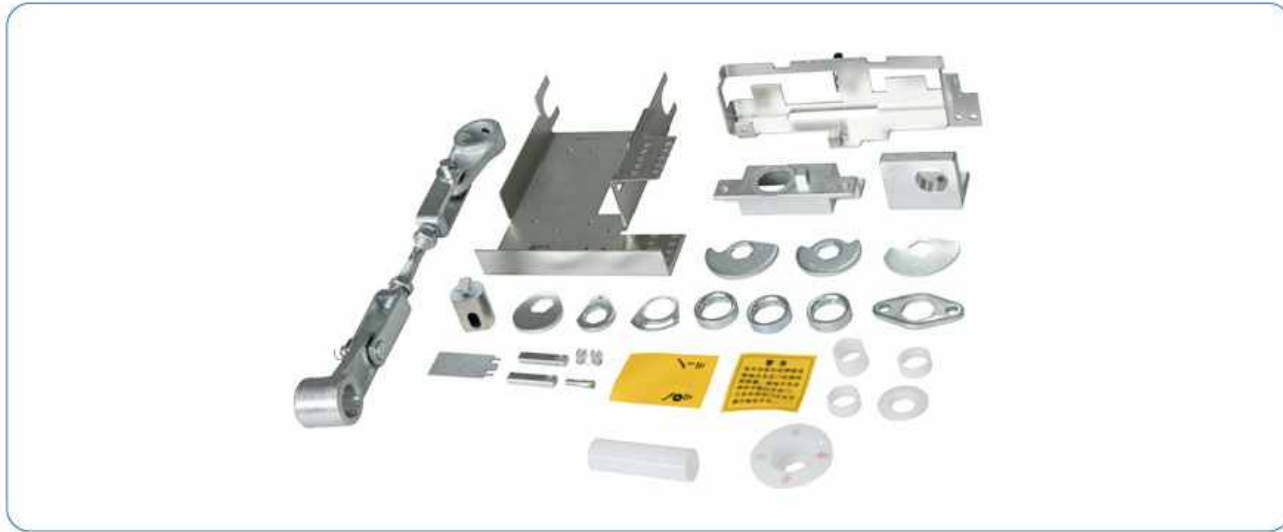


序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	镀彩封闭锁紧螺母 Colored closed locking nut	GBT889.1	1
2	镀彩封闭平垫 Colored sealed Bat pad	GBT97.1	2
3	镀彩平垫 M6×1.6 Colored Bat washer M6 × one point six	GBT97.1	1
4	镀彩沉头螺钉 Colored countersunk head screws	GBT819.1	1
5	套 Set	8YF.0501.0403	1
6	弯板 Bending plate	8YF.0501.0302.1	1
7	镀彩内六角三组合螺钉 Colored hexagonal triple combination screw	GBT70.1	1
8	弯板 Bending plate	8YF.161.057.1	1
9	弯板 (056) Bending plate (056)	8YF.161.056.2	1
10	扭簧 Torsion spring	8YF.288.014	1
11	发黑开口挡圈 M9×1 Blackened open retaining ring M9 × one	GBT896	2
12	发黑弹性销 4×30 Blackened elastic pin 4 × thirty	GBT879.1	1
13	发黑弹性销 3×16 Blackened elastic pin 3 × sixteen	GBT879.1	1
14	发黑弹性销 4×20 Blackened elastic pin 4 × twenty	GBT879.1	1
15	销轴 Pin shaft	8YF.206.101.1	1
16	扭簧 Torsion spring	8YF.288.011	1
17	挡板 Bafße	8YD.174.014.2	1
18	轴承 Bearing	8YF.263.010	2
19	扭簧 Torsion spring	8YF.288.013	1
20	轴 Axis	8YF.206.011.2	1
21	连板铆接 Connecting plate riveting	5YF.0501.0203-KJ42	1
22	连板铆接 Connecting plate riveting	5YF.0501.0202-KJ40	1
23	小拐臂焊接 Welding of small crank arm	5YF.156.010.4	1



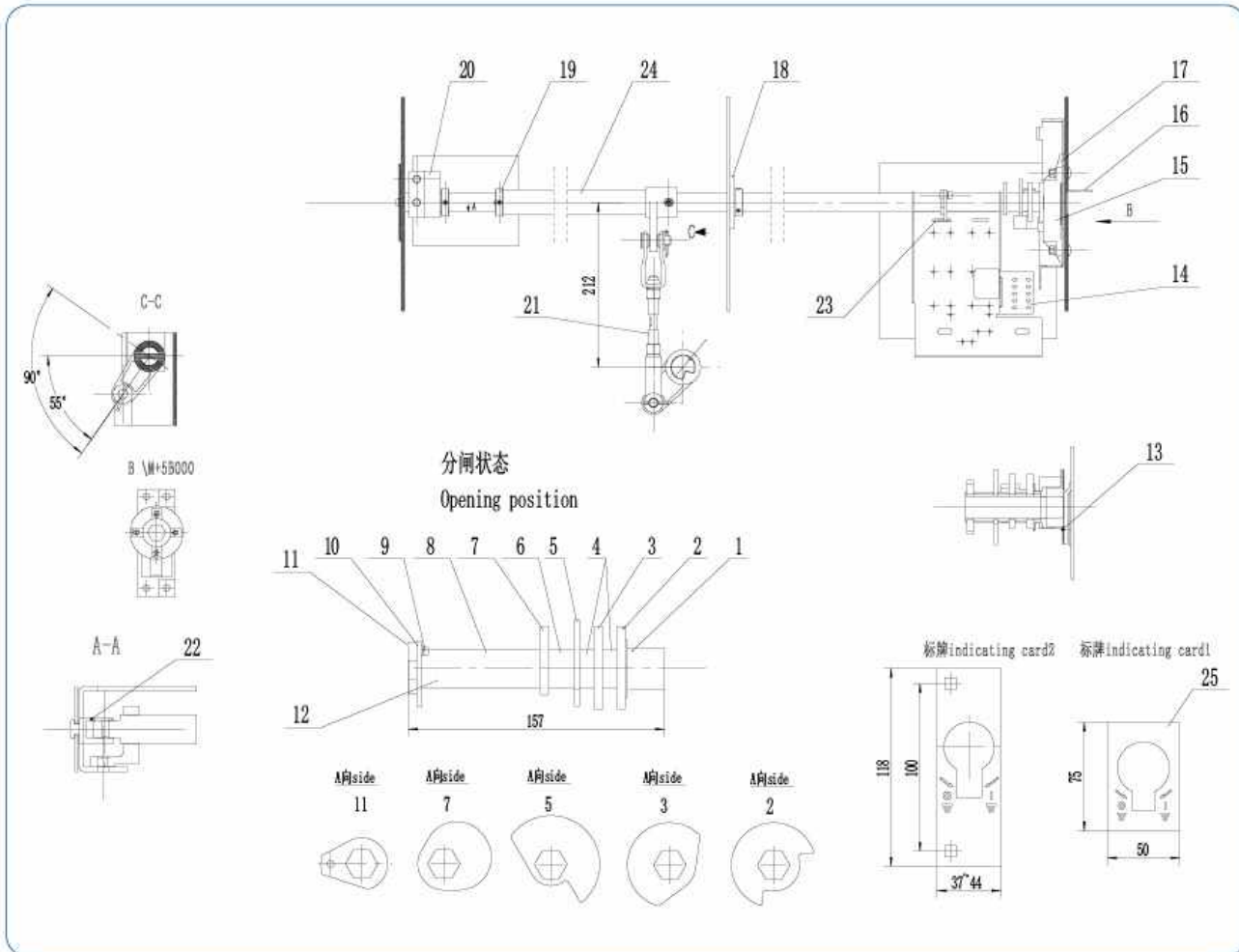
◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010

- Ground switch operating mechanism interlock (for arm drive operation) 5YF.363.010



◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010 装配示意图

- Grounding switch operator interlock (for arm drive operation) 5YF.363.010 assembly diagram



◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010 配套表

- Ground switch operating mechanism interlock (for arm drive operation) 5YF.363.010

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	扇形板 Sector plata	8YF.192.010	1
3	扇形板 Sector plata	8YF.192.011	1
4	轴套 Shaft sleeve	8YF.210.014.1	2
5	扇形板 Sector plate	8YF.151.041	1
6	轴套 Shaft slaeve	8YF.211.061	1
7	扇形板 Sector plate	8YF.151.039	1
8	轴套 Shaft slaeve	8YF.211.062	1
9	M5*12 螺钉 Screw	GB70-85	1
10	扇形板 Sector plate	8YF.151.042	1
11	扇形板 Sector plate	8YF.151.043	1
12	操作轴 (轴长按柜深定) Operating shaft (The length of shaft is decided by the depth of cabinet)	8YF.200.010.1-3	1
13	盖 Cover	8YF.017.011	1
14	弯板 (选用) Curved platel(choose)	8YF.161.058	1
15	支座 (铝 / 铁) Support(aluminum/iron)	8YF.043.022	1
16	弯板 (选用) Curved plate(choose)	8YF.161.059	1
17	滑块 Slider	8YF.143.010	2
18	轴套 Shaft sleeve	8YF.211.058	1
19	限位套 Limit sleeve	8YF.211.057	3
20	支座 Support	8YF.043.019	1
21	连杆装配 Connecting rod Assembly	8YF.233.030.1-3	1
22	锁套 Lock sleeve	8YF.211.059	1
23	齿插板 Tooth Bapper	8YF.151.044	1
24	轴套 Shaft sleeve	8YF.211.060	1
25	标牌 Indicating card	8YF.860.010	1

注: 序 12 轴长 1430 配常规 1450 柜深 (不含门) . 其他柜深请注明.  
序 14 标配为 8YF.161.058.1 当需装闭锁电磁铁时, 请选用 8YF.161.058, 当同时装闭锁电磁铁和联锁机构时, 请注明.  
序 25 标牌为选配, 可选标牌 1 / 标牌 2  
Note: No.12 axis length 1430 matches conventional 1450 cabinet depth (excluding doors). Please specify other cabinet depths.  
The common configuration for sequence 14 is 8YF.161.058.1. When installing a locking electromagnet and interlocking mechanism at the same time, please indicate.  
The number 25 tag is optional, with optional tag 1/tag 2

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.1

· Earthing switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.1

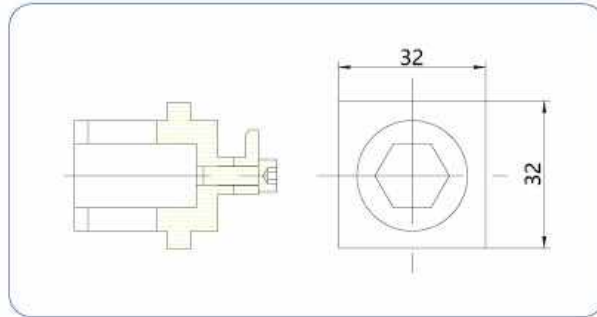
说明 Introduction

本联锁装置在原 5YF.363.010 接地开关操作机构联锁装置的基础上增加与后门的反向联锁。接地开关合闸后打开后门 (封板)。原联锁仍可操作接地开关, 而本联锁不能操作, 必须先关好后门 (封板) 方可操作接地开关。

本联锁装置的工作原理是在原 5YF.363.010 基础上将序 24 锁套改为如右图所示并加弹簧。当后门 (封板) 打开时锁套的四方处进入柜体方孔 (推荐尺寸 35×35) 内, 接地开关无法操作。

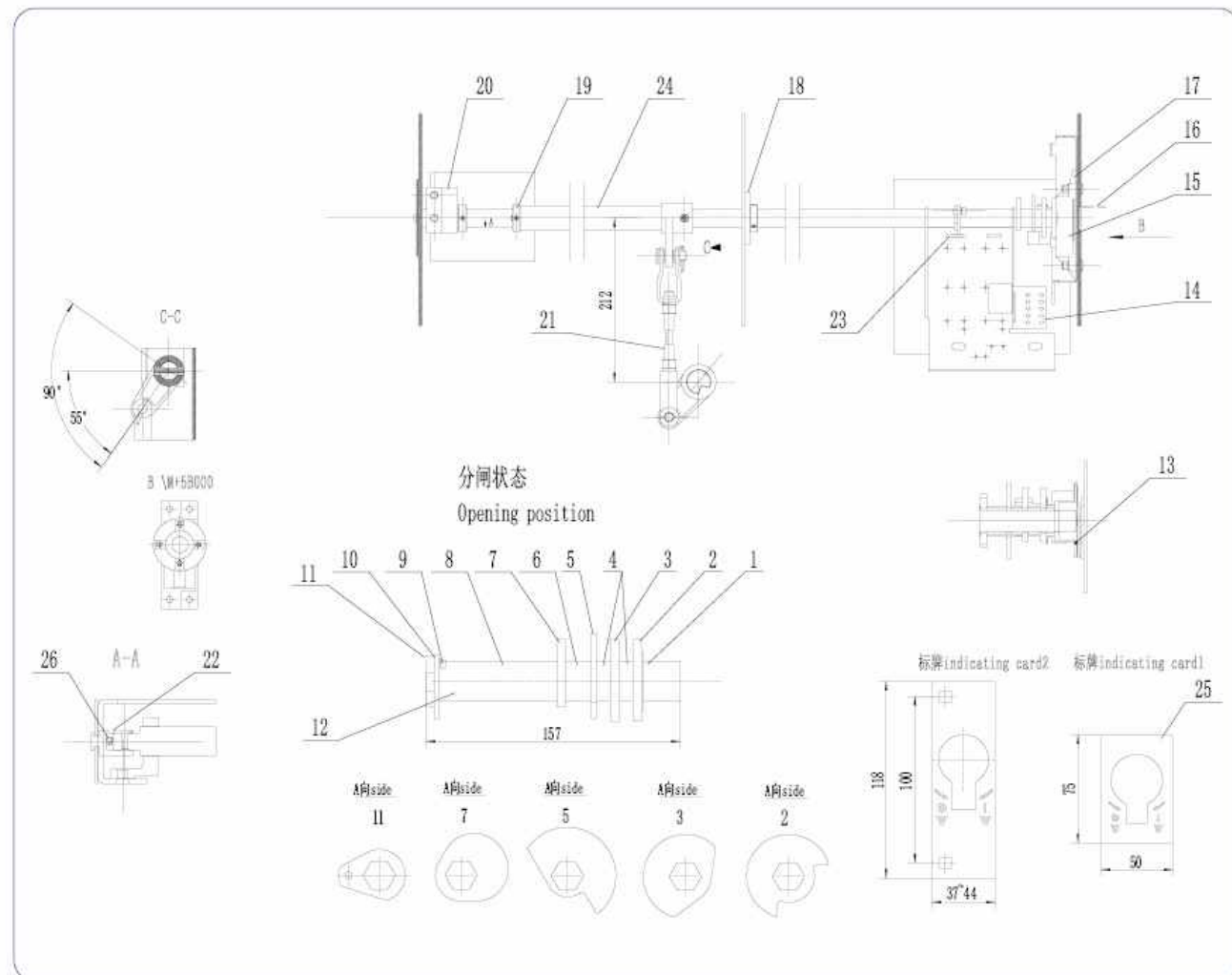
This interlocking device adds reverse interlocking with the rear door on the basis of the original 5YF.363.010 grounding switch operating mechanism interlocking device. After the grounding switch is closed, open the rear door (sealing plate). The original interlocking can still operate the grounding switch, but this interlocking cannot be operated. The rear door (sealing plate) must be closed before the grounding switch can be operated.

The working principle of this interlocking device is to change the No. 24 lock sleeve from the original 5YF.363.010 to the one shown in the right circle and add a spring. When the rear door (sealing plate) is opened, the four corners of the lock sleeve enter the rejection square hole (recommended size 35 × Within 35), the grounding switch cannot be operated.



◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.1 装配示意图

· Grounding switch operator interlock (for arm drive operation) 5YF.363.010.1 assembly diagram



◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.1 配套表

· Ground switch operating mechanism interlock (for arm drive operation) 5YF.363.010.1

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	扇形板 Sector plate	8YF.192.010	1
3	扇形板 Sector plate	8YF.192.011	1
4	轴套 Shaft sleeve	8YF.210.014.1	2
5	扇形板 Sector plate	8YF.151.041	1
6	轴套 Shaft sleeve	8YF.211.061	1
7	扇形板 Sector plate	8YF.151.039	1
8	轴套 Shaft sleeve	8YF.211.062	1
9	M5*12 螺钉 Screw	GB70-85	1
10	扇形板 Sector plate	8YF.151.042	1
11	扇形板 Sector plate	8YF.151.043	1
12	操作轴 (轴长按柜深定) Operating shaft (The length of shaft is decided by the depth of cabinet)	8YF.200.010.1-3	1
13	盖 Cover	8YF.017.011	1
14	弯板 (选用) Curved plate (choose)	8YF.161.058	1
15	支座 (铝 / 铁) Support (aluminum/iron)	8YF.043.022	1
16	弯板 (选用) Curved plate (choose)	8YF.161.059	1
17	滑块 Slider	8YF.143.010	2
18	轴套 Shaft sleeve	8YF.211.058	1
19	限位套 Limit sleeve	8YF.211.057	3
20	支座 Support	8YF.043.019	1
21	连杆装配 Connecting rod Assembly	8YF.233.030.1-3	1
22	锁套 Lock sleeve	8YF.211.059	1
23	齿插板 Tooth Baffle	8YF.151.044	1
24	轴套 Shaft sleeve	8YF.211.060	1
25	标牌 Indicating card	8YF.860.010	1
26	压簧 Pressure spring	8YF.282.201	1

注: 序 12 轴长 1430 配常规 1450 柜深 (不含门)。其他柜深请注明。

序 14 常配为 8YF.161.058.1 当需装闭锁电磁铁时, 请选用 8YF.161.058, 当同时装闭锁电磁铁和联锁机构时, 请注明。

序 25 标牌为选配, 可选标牌 1 / 标牌 2

Note: No.12 axis length 1430 matches conventional 1450 cabinet depth (excluding doors). Please specify other cabinet depths.

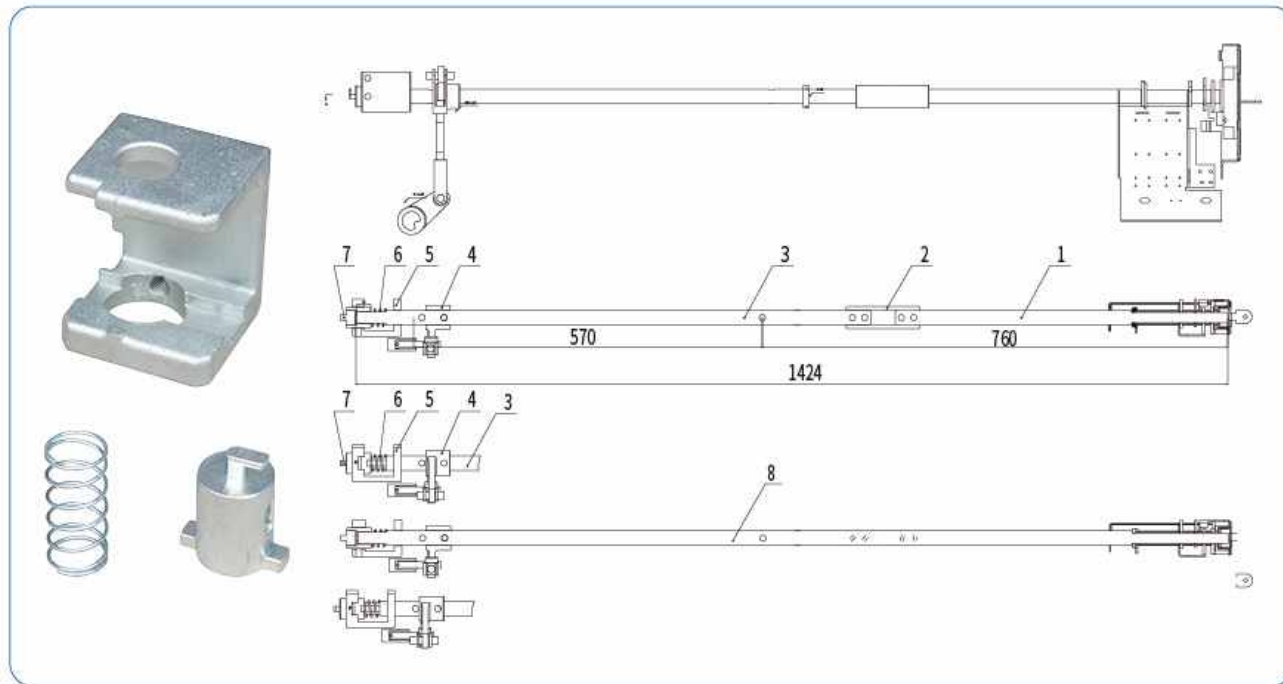
The common configuration for sequence 14 is 8YF.161.058.1. When installing a locking electromagnet, please choose 8YF.161.058. When installing a locking electromagnet and interlocking mechanism at the same time, please indicate.

The number 25 tag is optional, with optional tag 1/tag 2



#### ◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.3 示意图

· Earthing switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.3 schematic diagram



#### ◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.3 配套表

· Grounding switch operating mechanism interlocking device (used for crank arm transmission operation) 5YF.363.010.3 Supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set	备注 Notes
1	前轴 Front shaft	8YF.098.184	1	
2	连接套 Connecting sleeve	8YF.098.186	1	
3	后轴 Back shaft	8YF.098.185	1	L=841, 配 1500 柜 Length 841mm For 1500mm cabinet
4	连杆装配 Connecting rod assembly	5YF.223.030.1-3	1	
5	联锁支座 Interlock support	5YF.098.160	1	
6	压簧 Pressure spring	8YF.099.141	1	
7	T形锁套 T type lock sleeve	8YF.098.187	1	
8	操作轴 (单轴方案) Shaft(single)		1	L=1424, 配 1500 柜 Length 1424mm For 1500mm cabinet

#### ◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.4

· Interlocking device of grounding switch operating mechanism (for crank arm transmission operation) 5YF.363.010.4



#### 说明 illustrate

本联锁装置在原 5YF.363.010 接地开关操作机构联锁装置的基础上改进后门的反向闭锁。打开后门 (封板), 原联锁仍然可操作接地开关, 而本联锁不能操作, 必须先关好后门 (封板) 方可操作接地开关。

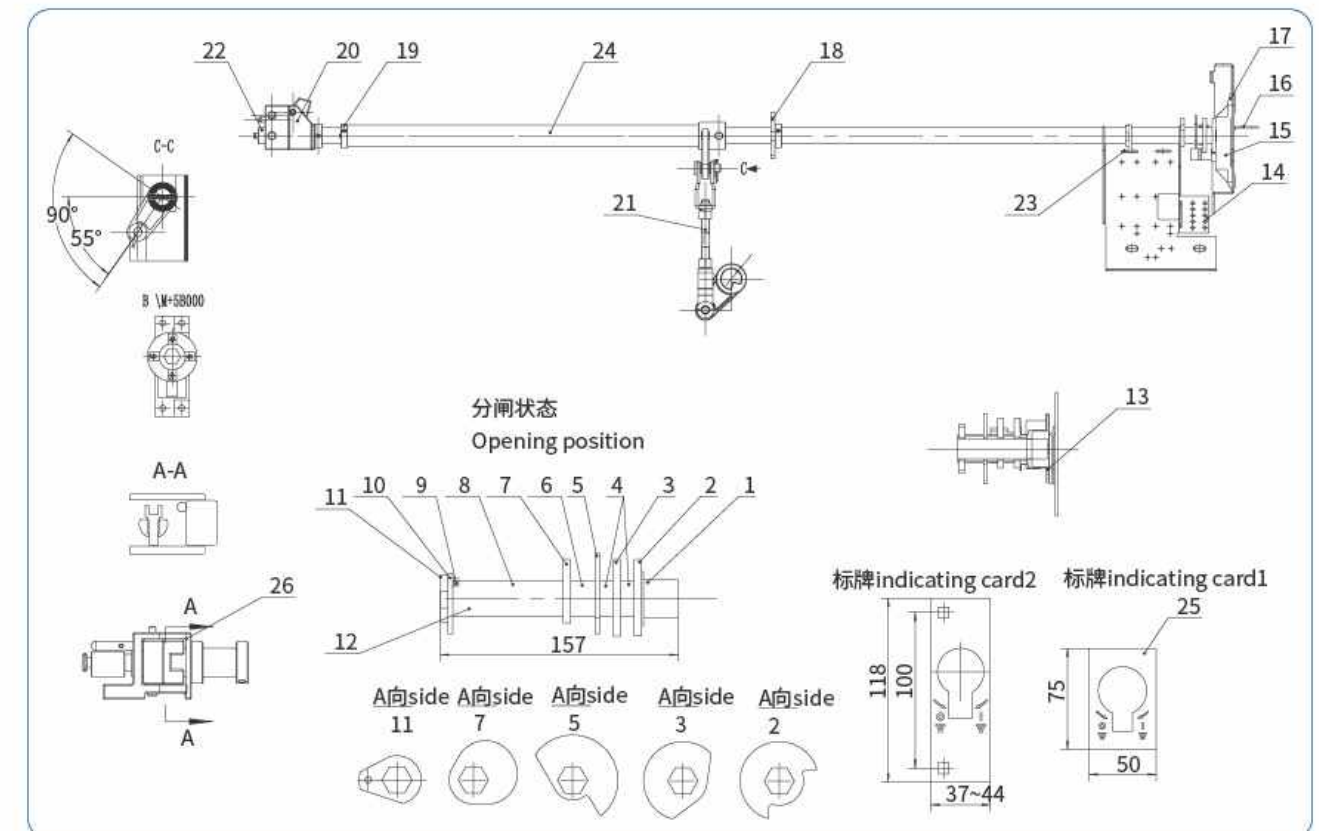
本联锁装置的工作原理是在原 5YF.363.010 的基础上将后部支座改为反闭锁, 当后门 (封板) 打开时 13YF.02.286 销杆在压簧的作用下向柜体外运动, 被顶住的转块向下卡住联锁螺钉, 接地开关无法操作。

This interlocking device improves the reverse locking of the rear door on the basis of the original 5YF.363.010 grounding switch operating mechanism interlocking device. Open the rear door (sealing plate), the original interlock can still operate the grounding switch, but this interlock cannot operate. The rear door (sealing plate) must be closed first before operating the grounding switch.

The working principle of this interlocking device is to change the rear support to reverse locking on the basis of the original 5YF.363.010. When the rear door (sealing plate) is opened, the 13YF.02.286 pin rod moves towards the outside of the cabinet under the force of the compression spring, and the blocked rotating block catches the interlocking screw downwards, making the grounding switch unable to operate.

#### ◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.4 装配示意图

· Assembly diagram of grounding switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.4





◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.4 配套表

· Grounding switch operating mechanism interlocking device (used for crank arm transmission operation) 5YF.363.010.4 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	扇形板 Sector plate	8YF.192.010	1
3	扇形板 Sector plate	8YF.192.011	1
4	轴套 Shaft sleeve	8YF.210.014.1	2
5	扇形板 Sector plate	8YF.151.041	1
6	轴套 Shaft sleeve	8YF.211.061	1
7	扇形板 Sector plate	8YF.151.039	1
8	轴套 Shaft sleeve	8YF.211.062	1
9	M5*12 螺钉 Screw	GB70-85	1
10	扇形板 Sector plate	8YF.151.042	1
11	扇形板 Sector plate	8YF.151.043	1
12	操作轴 (轴长按柜深度) Operating shaft (The length of shaft is decided by the depth of cabinet)	8YF.200.010.1	1
13	盖 Cover	8YF.017.011	1
14	弯板 (选用) Curved plate (choose)	8YF.161.058	1
15	支座 (铝 / 铁) Support (aluminum / iron)	8YF.043.022	1
16	弯板 (选用) Curved plate (choose)	8YF.161.059	1
17	滑块 Slider	8YF.143.010	2
18	轴套 Shaft sleeve	8YF.211.058	1
19	限位套 Limit sleeve	8YF.211.057	3
20	支座 Support	8YF.043.019	1
21	连杆装配 Connecting rod Assembly	8YF.233.030.1-3	1
22	锁套 Lock sleeve	8YF.211.059	1
23	齿插板 Tooth Bapper	8YF.151.044	1
24	轴套 Shaft sleeve	8YF.211.060	1
25	标牌 Indicating card	8YF.860.010	1
26	支座装配 bearing assembling	13YF.03.161	1

注: 序 12 轴长 1430 配常规 1450 柜深 (不含门), 其他柜深请注明。  
Note: No.12 axis length 1430 is matched with a conventional 1450 cabinet depth (excluding doors), please specify other cabinet depths.

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.6

· Interlocking device for grounding switch operating mechanism (used for crank arm transmission operation) 5YF.363.010.6



说明 Introduction

本联锁装置在原 5YF.363.010 接地开关操作机构联锁装置的基础上改进后门的反向闭锁。打开后门 (封板), 原联锁仍然可操作接地开关, 而本联锁不能操作, 必须先关好后门 (封板) 方可操作接地开关。

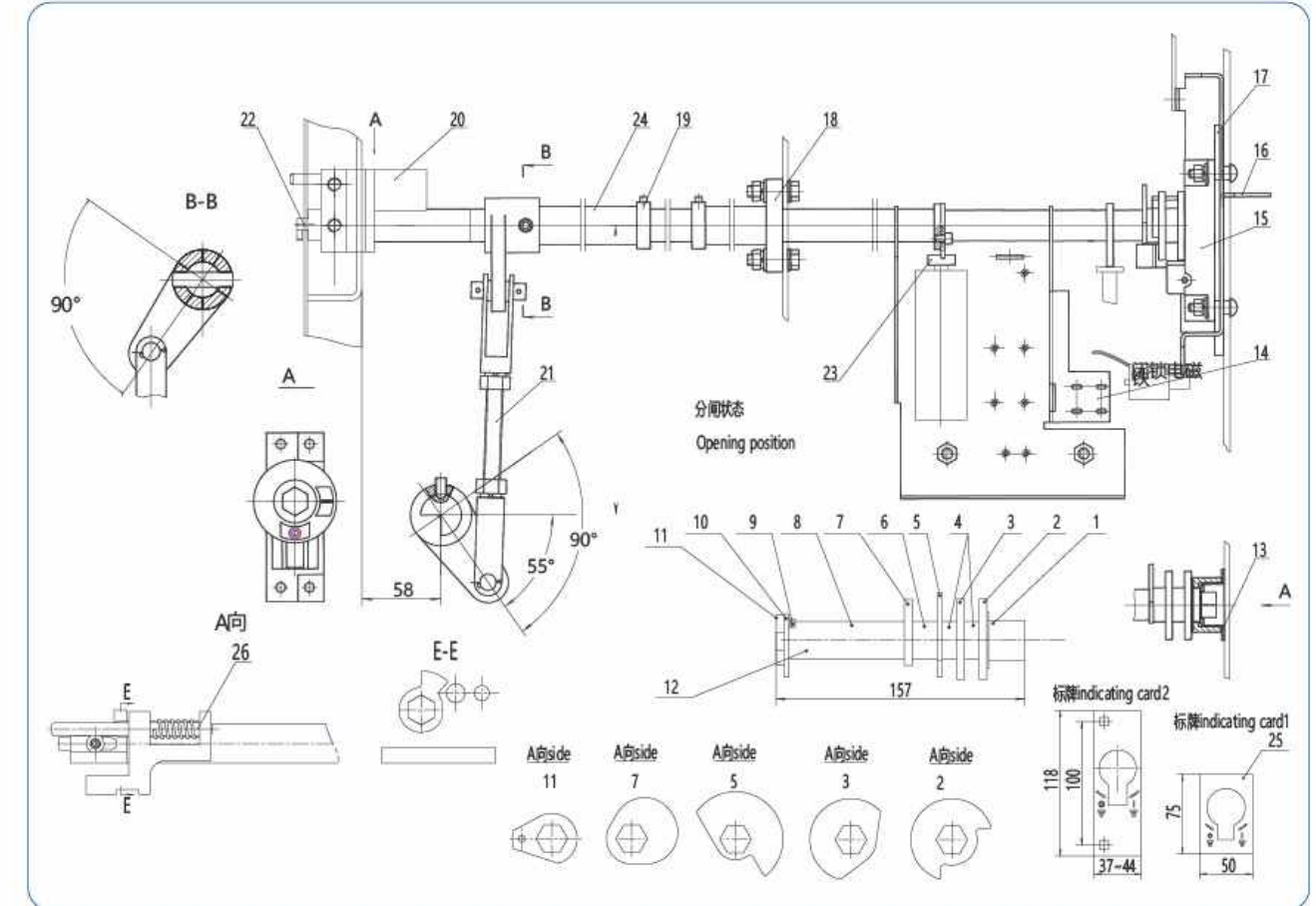
本联锁装置的工作原理是在原 5YF.363.010 的基础上将后部支座改为反闭锁, 当后门 (封板) 打开时压销在压簧的作用力下向柜体外运动, 被顶住的锁杆向柜体后部伸出达到闭锁, 接地开关无法操作。该联锁可靠, 且灵活性强。

This interlocking device improves the reverse locking of the rear door on the basis of the original 5YF.363.010 grounding switch operating mechanism interlocking device. Open the rear door (sealing plate), the original interlock can still operate the grounding switch, but this interlock cannot operate. The rear door (sealing plate) must be closed first before operating the grounding switch.

The working principle of this interlocking device is to change the rear support to reverse locking on the basis of the original 5YF.363.010. When the rear door (sealing plate) is opened, the pressure pin moves towards the outside of the cabinet under the force of the pressure spring, and the blocked lock rod extends towards the rear of the cabinet to achieve locking. The grounding switch cannot be operated. This interlocking is reliable and flexible.

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.6 装置示意图

· Grounding switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.6 Device schematic diagram





◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.6 配套表

- Grounding switch operating mechanism interlocking device (used for crank arm transmission operation) 5YF.363.010.6 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	扇形板 Sector plate	8YF.192.010	1
3	轴套 L=11 Shaft sleeve	8YF.210.014.1	1
4	扇形板 Sector plate	8YF.192.011.1	1
5	扇形板 Sector plate	8YF.211.061	1
6	轴套 L=45 Shaft sleeve	8YF.151.039.1	1
7	扇形板 Sector plate	8YF.211.062	2
8	扇形板 Sector plate	8YF.151.042	2
9	M5*12 螺钉 Screw	GB70-85	2
10	扇形板 Sector plate	8YF.151.043	2
11	操作轴 (轴长按柜深定) Operating shaft (The length of shaft is decided by the depth of cabinet)	8YF.200.010.1-3	1
12	联锁机构 (另外订购) Interlocking Mechanism (Please order separately)	8YF.239.012.2	1
13	支座 (铝 / 铁) Support (aluminum / iron)	8YF.043.022	1
14	弯板 Curved plate	8YF.161.059.7	1
15	滑块 Slider	8YF.143.010	2
16	连接套 Adapter Sleeve	8YF.098.186	1
17	轴套 Shaft sleeve	8YF.211.060	1
18	限位套 Limit sleeve	8YF.211.057	3
19	连杆 [装配] Connecting rod Assembly	8YF.233.030.1-3	1
20	解锁轴 Deblocking Shaft	8YF.1607.2903	1
21	55 弯板 55 Curved Plate	8YF.1607.2901	1
22	支座 Support	8YF.043.019.7	1
23	推柱 push plunger	8YF.1407.0402.7	1
24	联锁盖 Interlocking Cover	8YF.1407.0410	1
25	联锁块 Interlocking Block	8YF.1407.0401	1
26	50 压簧 50 Pressure Spring	8YF.1607.2906	1

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.7

- Grounding switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.7



说明 Introduction

本联锁装置在原 5YF.363.010 接地开关操作机构联锁装置的基础上改进后门的反向闭锁。打开后门 (封板), 原联锁仍可操作接地开关, 而本联锁不能操作, 必须先关好后门 (封板) 方可操作接地开关。

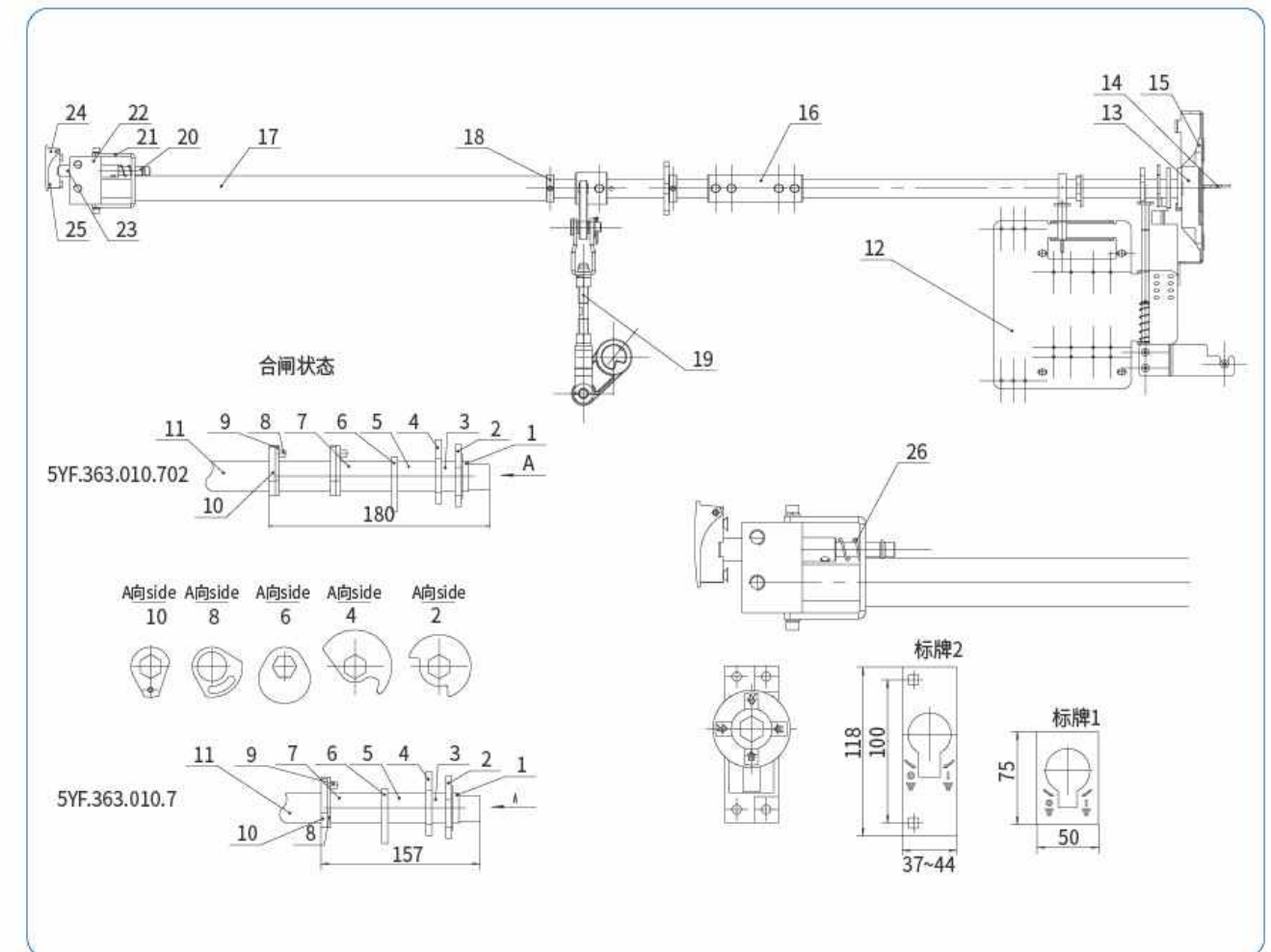
本联锁装置的工作原理是在原 5YF.363.010 的基础上将后部支座改为反闭锁, 当后门 (封板) 打开时压销在压簧的作用力下向柜体外运动, 被顶住的锁杆向柜体后部伸出达到闭锁, 接地开关无法操作。该联锁可靠, 且灵活性强。

This interlocking device improves the reverse locking of the rear door on the basis of the original 5YF.363.010 grounding switch operating mechanism interlocking device. Open the rear door (sealing plate), the original interlock can still operate the grounding switch, but this interlock cannot operate. The rear door (sealing plate) must be closed first before operating the grounding switch.

The working principle of this interlocking device is to change the rear support to reverse locking on the basis of the original 5YF.363.010. When the rear door (sealing plate) is opened, the pressure pin moves towards the outside of the cabinet under the force of the pressure spring, and the blocked lock rod extends towards the rear of the cabinet to achieve locking. The grounding switch cannot be operated. This interlocking is reliable and flexible.

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.7 装置示意图

- Grounding switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.7 Device schematic diagram



◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.7 配套表

· Grounding switch operating mechanism interlocking device (used for crank arm transmission operation) 5YF.363.010.7 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	扇形板 Sector plate	8YF.192.010	1
3	轴套 L=11 Shaft sleeve	8YF.210.014.1	1
4	扇形板 Sector plate	8YF.192.011.1	1
5	扇形板 Sector plate	8YF.211.061	1
6	轴套 L=45 Shaft sleeve	8YF.151.039.1	1
7	扇形板 Sector plate	8YF.211.062	2
8	扇形板 Sector plate	8YF.151.042	2
9	M5*12 螺钉 Screw	GB70-85	2
10	扇形板 Sector plate	8YF.151.043	2
11	操作轴 (轴长按柜深定) Operating shaft (The length of shaft is decided by the depth of cabinet)	8YF.200.010.1-3	1
12	联锁机构 (另外订购) Interlocking Mechanism(Please order separately)	8YF.239.012.2	1
13	支座 (铝 / 铁) Support(aluminum / iron)	8YF.043.022	1
14	弯板 Curved plate	8YF.161.059.7	1
15	滑块 Slider	8YF.143.010	2
16	连接套 Adapter Sleeve	8YF.098.186	1
17	轴套 Shaft sleeve	8YF.211.060	1
18	限位套 Limit sleeve	8YF.211.057	3
19	连杆 [装配] Connecting rod Assembly	8YF.233.030.1-3	1
20	解锁轴 Deblocking Shaft	8YF.1607.2903	1
21	55 弯板 55 Curved Plate	8YF.1607.2901	1
22	支座 Support	8YF.043.019.7	1
23	推柱 push plunger	8YF.1407.0402.7	1
24	联锁盖 Interlocking Cover	8YF.1407.0410	1
25	联锁块 Interlocking Block	8YF.1407.0401	1
26	50 压簧 50 Pressure Spring	8YF.1607.2906	1

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.8

· Earthing switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.8



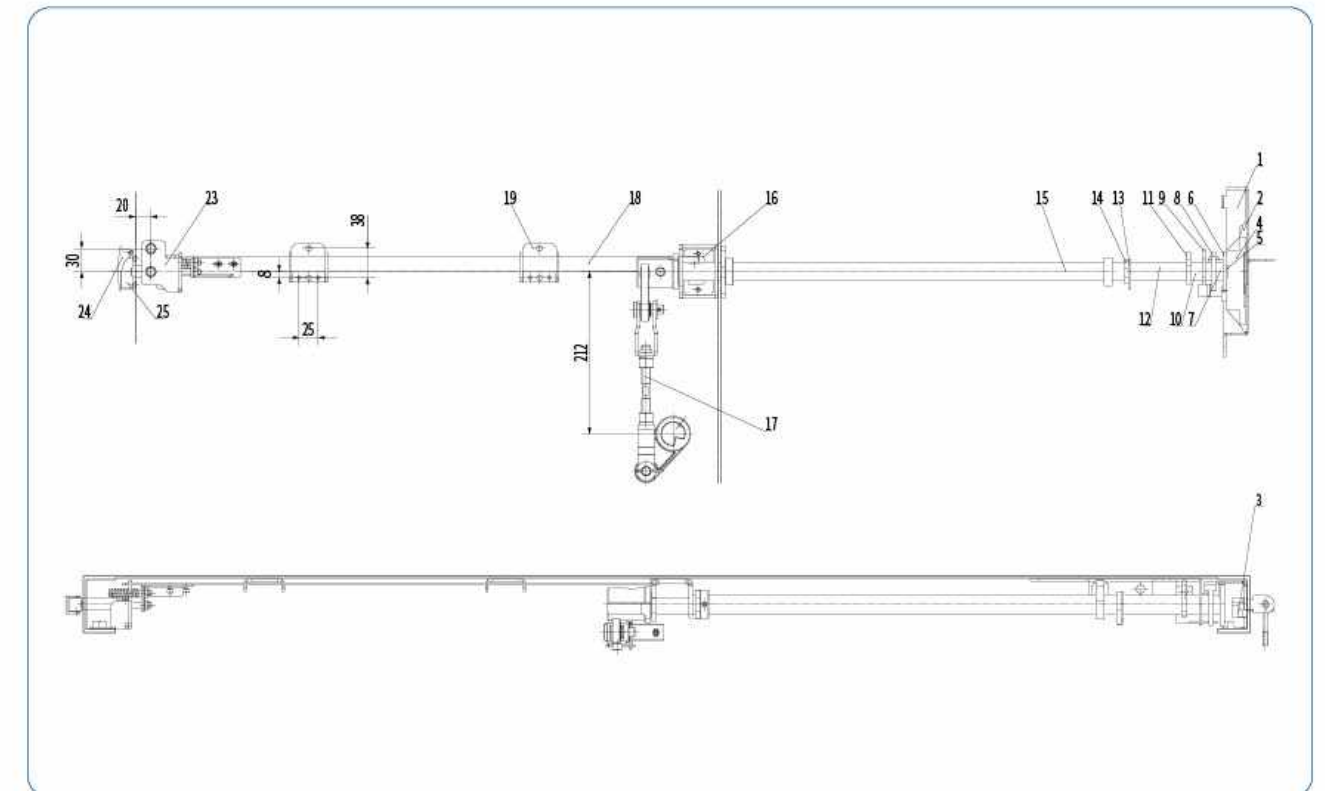
说明 illustrate

本联锁装置在原 5YF.363.010 接地开关操作机构联锁装置的基础上改进后门的反向闭锁。打开后门 (封板), 原联锁仍然可操作接地开关, 而本联锁不能操作, 必须先关好后门 (封板) 方可操作接地开关。而且后部改成扁铁, 可以满足电缆室空气净距不足的问题。

This interlocking device improves the reverse locking of the rear door on the basis of the original 5YF.363.010 grounding switch operating mechanism interlocking device. Open the rear door (sealing plate), the original interlock can still operate the grounding switch, but this interlock cannot operate. The rear door (sealing plate) must be closed first before operating the grounding switch. And the rear part is changed to a flat iron, which can meet the problem of insufficient air clearance in the cable room.

◇ 接地开关操作机构联锁装置 (用于拐臂传动操作) 5YF.363.010.8 装置示意图

· Earthing switch operating mechanism interlocking device (for crank arm transmission operation) 5YF.363.010.8 device schematic diagram





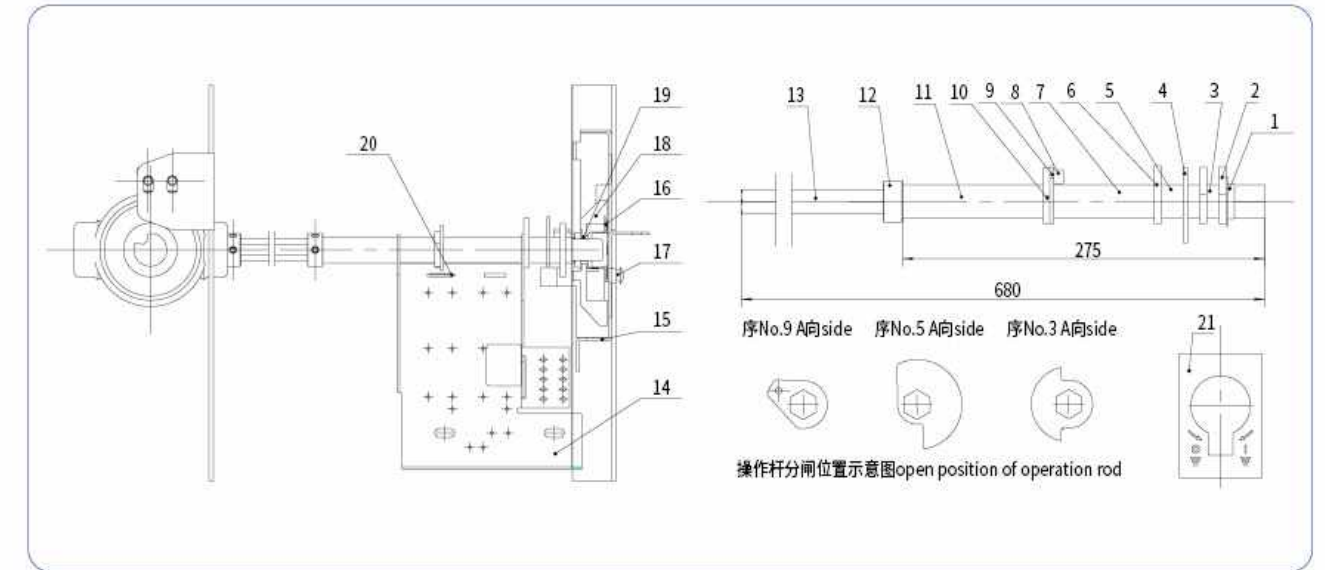
◇ 接地开关操作机构联锁装置（用于拐臂传动操作）5YF.363.010.8 配套表

· Grounding switch operating mechanism interlocking device (used for crank arm transmission operation) 5YF.363.010.8 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	弯板 Curved Plate	8YF.161.059.3	1
2	滑块 Slider	8YF.143.010	1
3	盖 Cover	8YF.017.011	1
4	铝支座 Aluminum Support	8YF.043.022	1
5	轴承 Bearing	8YF.263.011	1
6	扇形板 Sector Plate	8YF.192.010	1
7	轴套 Shaft Sleeve	8YF.210.014.1	1
8	扇形板 Sector Plate	8YF.192.011	2
9	扇形板 Sector Plate	8YF.151.041	4
10	轴套 Shaft Sleeve	8YF.211.061	1
11	扇形板 Sector Plate	8YF.151.039	2
12	轴套 Shaft Sleeve	8YF.211.062	1
13	扇形板 Sector Plate	8YF.151.042	1
14	扇形板 Sector Plate	8YF.151.043	2
15	操作轴 Operating Shaft	8YF.1610.2501	1
16	弯板 Curved Plate	8YF.161.058	1
17	支座装配 Bearing Assembling	2YF.1610.2502	1
18	连杆装配 Connecting rod Assembly	5YF.233.030.1-3	1
19	连板焊接 Connecting Plate Welding	8YF.1610.2501	1
20	导向板 guide plate	8YF.1610.2506	2
21	外六角螺丝 Outer Hexagon Screw	M6*12	1
22	螺母 Nut	M8	1
23	支座焊接 Bearing Welding	5YF.1610.2502	1
24	联锁盖 Interlocking Cover	8YF.1407.0401	1
25	联锁块 Interlocking Block	8YF.1407.0410	1

◇ 接地开关操作机构联锁装置（用伞齿轮传动操作）5YF.577.1001 装置示意图

· Grounding switch operating mechanism interlocking device (operated by bevel gear transmission) 5YF.577.1001 device schematic diagram



◇ 接地开关操作机构联锁装置（用伞齿轮传动操作）5YF.577.1001 配套表

· Grounding switch operating mechanism interlocking device (operated by bevel gear transmission) 5YF.577.1001 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	限位板 Limit plate	8YF.151.084	2
3	轴套 Shaft sleeve	8YF.210.014.1	2
4	扇形板 Sector Plate	8YF.151.041	1
5	轴套 Shaft sleeve	8YF.210.061	1
6	扇形板 Sector plate	8YF.151.039	1
7	轴套 Shaft sleeve	8YF.211.062	1
8	螺钉 M5x12 Screw M5x12	GB70-85	1
9	扇形板 Sector plate	8YF.151.042	1
10	扇形板 Sector plate	8YF.151.043	1
11	轴套 Shaft sleeve	8YF.210.014.3	1
12	限位套 Limit sleeve	8YF.210.322	1
13	操作杆 Operation rod	8YF.174.214	1
14	弯板 Curved plate	8YF.161.058	1
15	弯板 Curved plate	8YF.161.059	1
16	滑块 Slider	8YF.143.010	1
17	马车 M6x25 Carriage M6x25	GB12-88	1
18	支座 Support	5YF.043.022	2
19	盖 Cover	8YF.017.011	1
20	齿插板 Tooth Baffle	8YF.151.044	1
21	标牌 Indicating card	8YF.860.010	1

注：1. 该机构需要与下门联锁，请在订货时注明。2. 该机构包含 8YF.161.874 弯板和 8YF.143.501 固定块。  
Note: 1. This mechanism needs to be interlocked with the lower door, please indicate when ordering. 2. This mechanism includes 8YF.161.874 bending plate and 8YF.143.501 fixing block.

◇ 接地开关操作机构联锁装置 (用于双向伞齿轮传动操作) 5YF.577.1002/5YF.577.1002.1

- Grounding switch operating mechanism interlocking device (used for bidirectional bevel gear transmission operation) 5YF.577.1002/5YF.577.1002.1

特点 Introduction

采用双向 (全齿) 伞齿轮, 实现后门 (封板) 联锁, 并有两种形式:

a、5YF.577.1002 为单向联锁, 接地开关合闸后才可打开后门 (封板), 后门 (封板) 开启后, 仍可操作接地开关。其联锁功能同 5YF.363.010。

b、5YF.577.1002.1 为双向联锁。接地开关合闸后才可打开后门 (封板), 后门 (封板) 开启后, 就无法再操作接地开关。其联锁功能 5YF.363.010.1。

Adopting bidirectional (full tooth) bevel gears to achieve interlocking of the rear door (sealing plate), there are two forms:

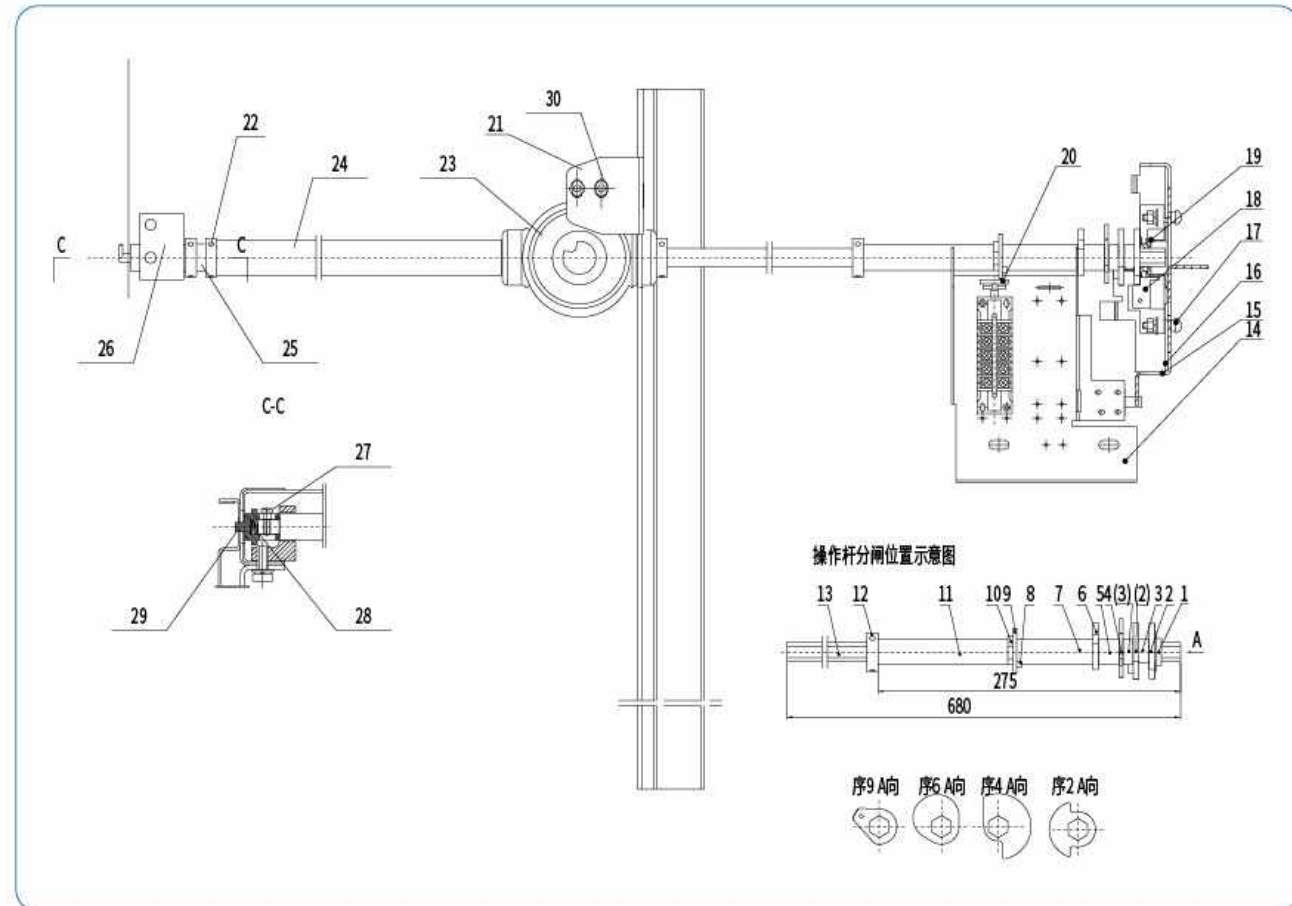
a. 5YF.577.1002 is a one-way interlock, and the rear door (sealing plate) can only be opened after the grounding switch is closed. After the rear door (sealing plate) is opened, the grounding switch can still be operated. Its interlocking function is the same as 5YF.363.010

b. 5YF.577.1002.1 is a bidirectional interlocking system. The rear door (sealing plate) can only be opened after the grounding switch is closed. Once the rear door (sealing plate) is opened, the grounding switch cannot be operated again. Its interlocking function is 5YF.363.010.1.



◇ 接地开关操作机构联锁装置 (用于双向伞齿轮传动操作) 5YF.577.1002/5YF.577.1002.1 装置示意图

- Grounding switch operating mechanism interlocking device (used for bidirectional bevel gear transmission operation) 5YF.577.1002/5YF.577.1002.1 Device schematic diagram



◇ 接地开关操作机构联锁装置 (用于双向伞齿轮传动操作) 5YF.577.1002(/1002.1) 配套表

- Grounding switch operating mechanism interlocking device (for bidirectional bevel gear transmission operation) 5YF.577.1002 (/1002.1) supporting table

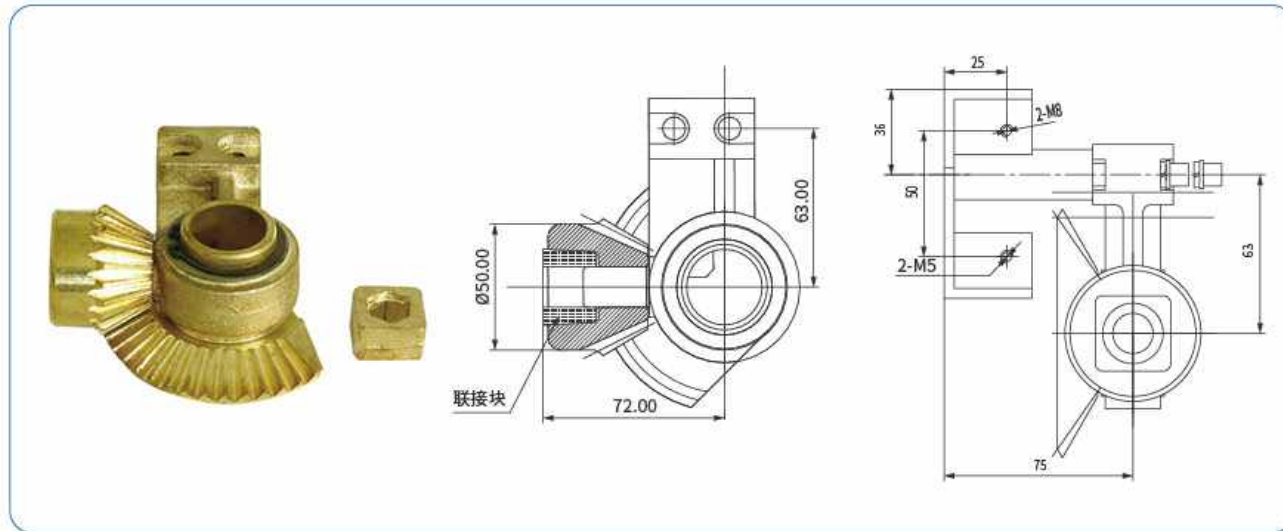
序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	轴承 Bearing	8YF.263.011	1
2	限位板 Limit plate	8YF.151.084	2
3	轴套 Shaft sleeve	8YF.210.014.1	2
4	扇形板 Sector Plate	8YF.151.041	1
5	轴套 Shaft sleeve	8YF.210.061	1
6	扇形板 Sector Plate	8YF.151.039	1
7	轴套 Shaft sleeve	8YF.211.062	1
8	螺钉 M5x12 Screw M5x12	GB70-85	1
9	扇形板 Sector Plate	8YF.151.042	1
10	扇形板 Sector plate	8YF.151.043	1
11	轴套 Shaft sleeve	8YF.210.014.3	1
12	限位套 Limit sleeve	8YF.210.322	1
13	操作杆 Operation rod	8YF.174.214	1
14	弯板 Curved plate	8YF.161.058	1
15	弯板 Curved plate	8YF.161.059	1
16	滑块 Slider	8YF.143.010	1
17	马车 M6x25 Carriage M6x25	GB12-88	1
18	支座 Support	5YF.043.022	2
19	盖 Cover	8YF.017.011	1
20	齿插板 Tooth BaPper	8YF.151.044	1
21	伞齿轮装配 Bevel gear assembly	8YF.245.002.1	1
22	联接块 Connecting block	8YF.143.108.2	1
23	轴套 Shaft sleeve	8YF.211.060	1
24	操作轴 operation shaft (配 5x5.77.1002)(match 5YF.577.1002)	8YF.200.011.1(配 1500 深柜)(For1500mm cabinet)	2
	操作轴 operation shaft (配 5YF.577.1002)(match 5YF.577.1002)	8YF.200.012.2(配 1600 深柜)(For1500mm cabinet)	1
25	限位套 Limit sleeve	8YF.211.057	2
26	支座 Support	8YF.043.019	1
27	销钉 Pin	8YF.993.051.1	1
28	压簧 Pressure spring	8YF.282.201(配 5YF.577.1002.1)(match 5YF.577.1002.1)	1
29	锁套 Lock sleeve	8YF.211.059(配 5YF.577.1002)(match 5YF.577.1002)	1
		8YF.211.201(配 5YF.577.1002.1)(match 5YF.577.1002.1)	1
30	弯板 Curved plate	8YF.161.874	1
31	固定块 Fixed block	8YF.143.501	1

注: 1. 该机构需要与下门联锁, 请在订货时注明。2. 该机构包含 8YF.161.874 弯板和 8YF.143.501 固定块。  
Note: 1. This mechanism needs to be interlocked with the lower door, please indicate when ordering. 2. This mechanism includes 8YF.161.874 bending plate and 8YF.143.501 fixing block.



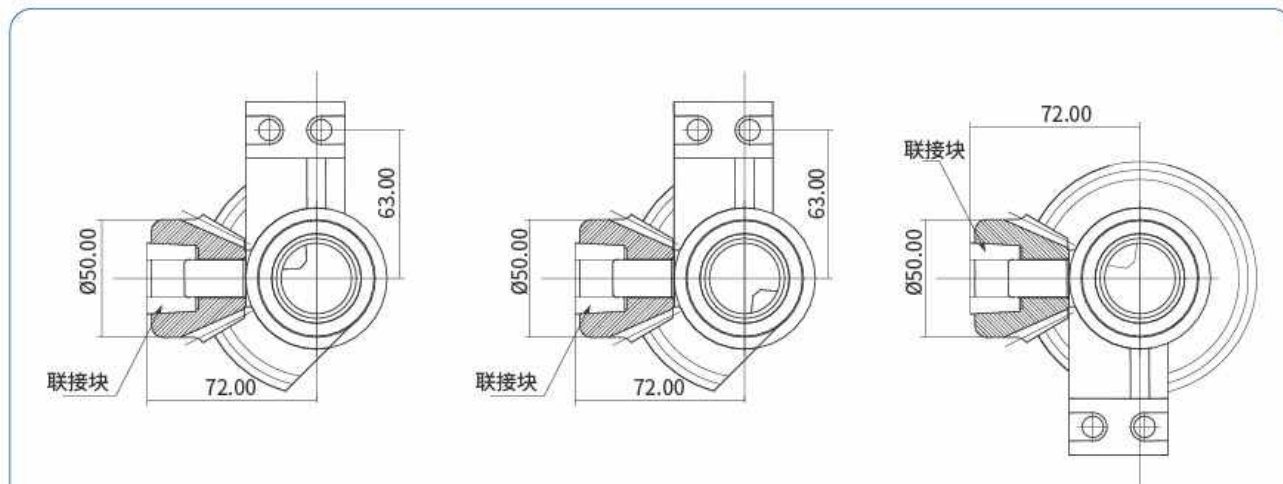
◇ 伞齿轮安装尺寸

· Installation dimensions of bevel gear



◇ 伞齿轮装配型号

· Bevel gear assembly model



伞齿轮装配 5YF.245.001.1  
接地开关中部倒装时(即右操)

伞齿轮装配 5YF.245.001.2

伞齿轮装配 5YF.245.001.4  
接地开关中部正装时(即左操)

注: 1. 订购时请注明型号; 2. 型号 8YF.161.874 弯板及 8YF.143.501 固定块为用户选购件, 不随伞齿轮配套出货。  
Note: 1. Please specify the model when ordering;  
2. The model 8YF.161.874 bending wrench and 8YF.143.501 fixing block are optional parts for users and are not shipped with the bevel gear.

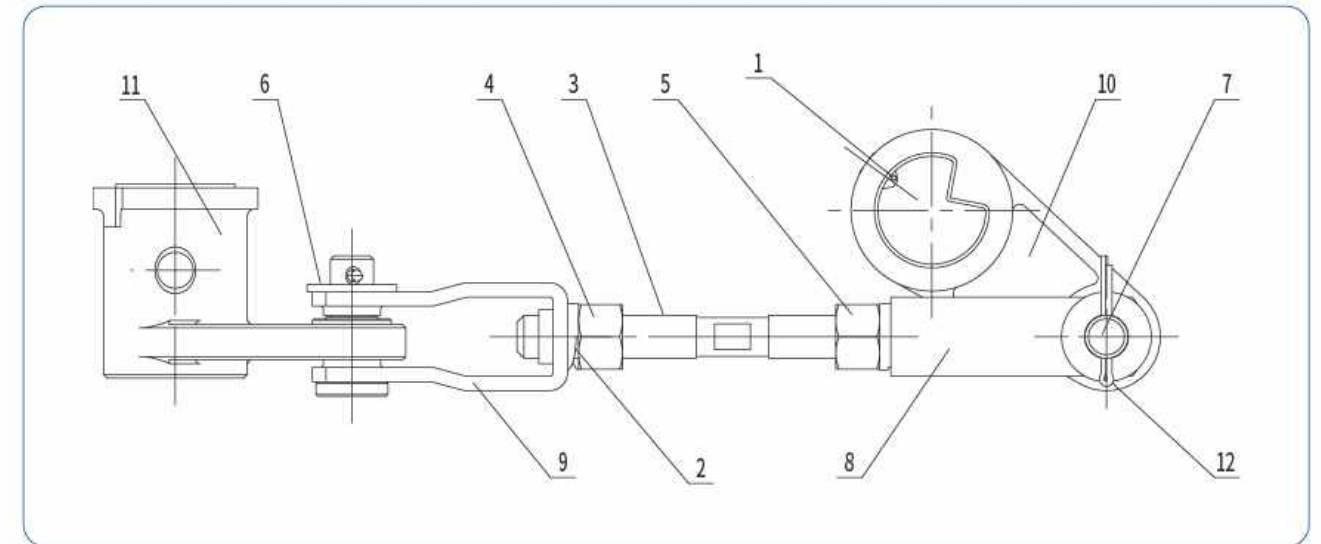
◇ 连杆装配 5YF.233.030.1-3

· Connecting rod assembly 5YF.233.030.1-3



◇ 连杆装配外形尺寸 5YF.233.030.1-3

· Connecting rod assembly dimensions 5YF.233.030.1-3

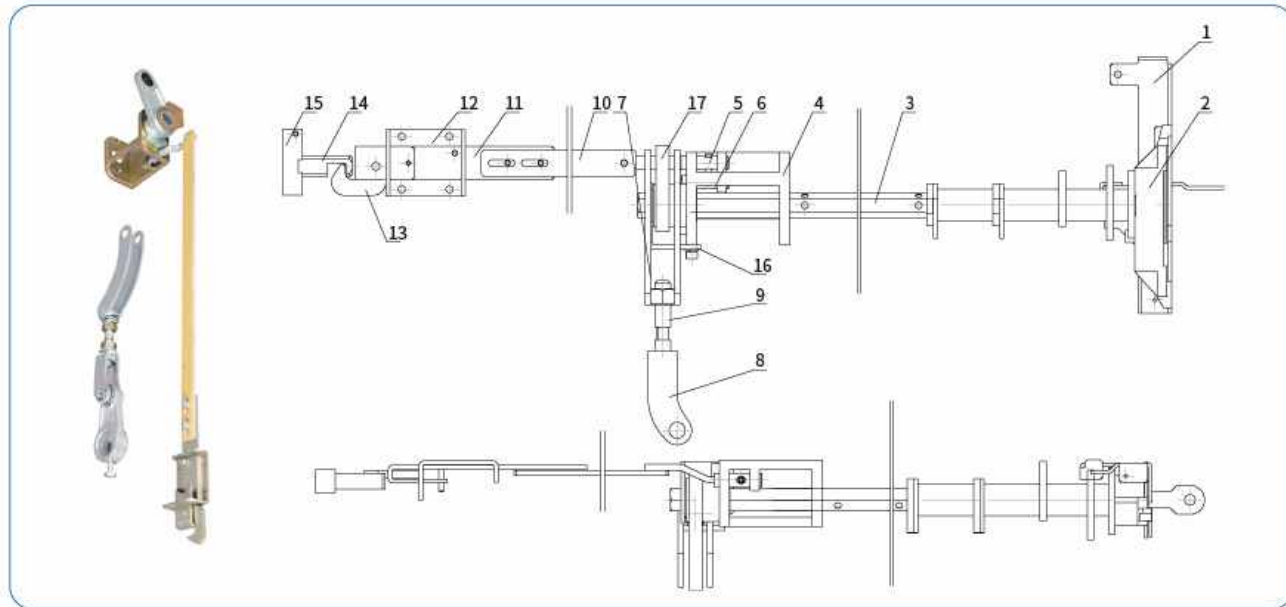


◇ 连杆装配配套表 5YF.233.030.1-3

· Connecting Rod Assembly Kit Table 5YF.233.030.1-3

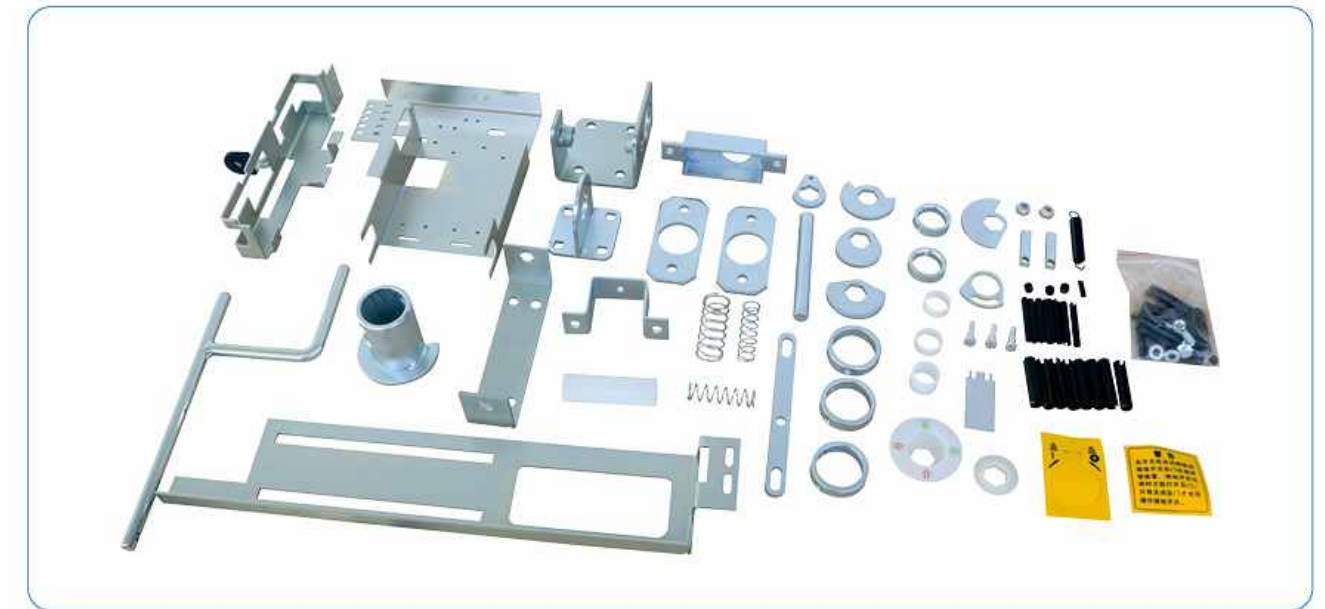
序号 NO.	名称 Title	代号 Code	数量 只/套 Quantity per/set
1	拐臂 Connecting rod	5YF.151.016	1
2	开口销 4x20Cotter pin4x20	GB91-86	4
3	带孔销 12x40Perforated pin12x40	GB880-86	2
4	垫圈 Gasket	8YF.950.010	4
5	夹叉 Clip fork	8YF.257.010	2
6	螺母 M12 Nut M12	GB170-86	2
7	垫圈 12 Gasket 12	GB93-87	2
8	螺柱 M12x120 Stud M12 x120	GB901-88	1
9	螺钉 M8x16 ScrewM8 x16	GB78-85	1
10	拐臂 Conneding rod	5YF.151.017	1

◇ 接地开关操作机构联锁装置 (配 550 柜) 1YF.0301.0101 配套表

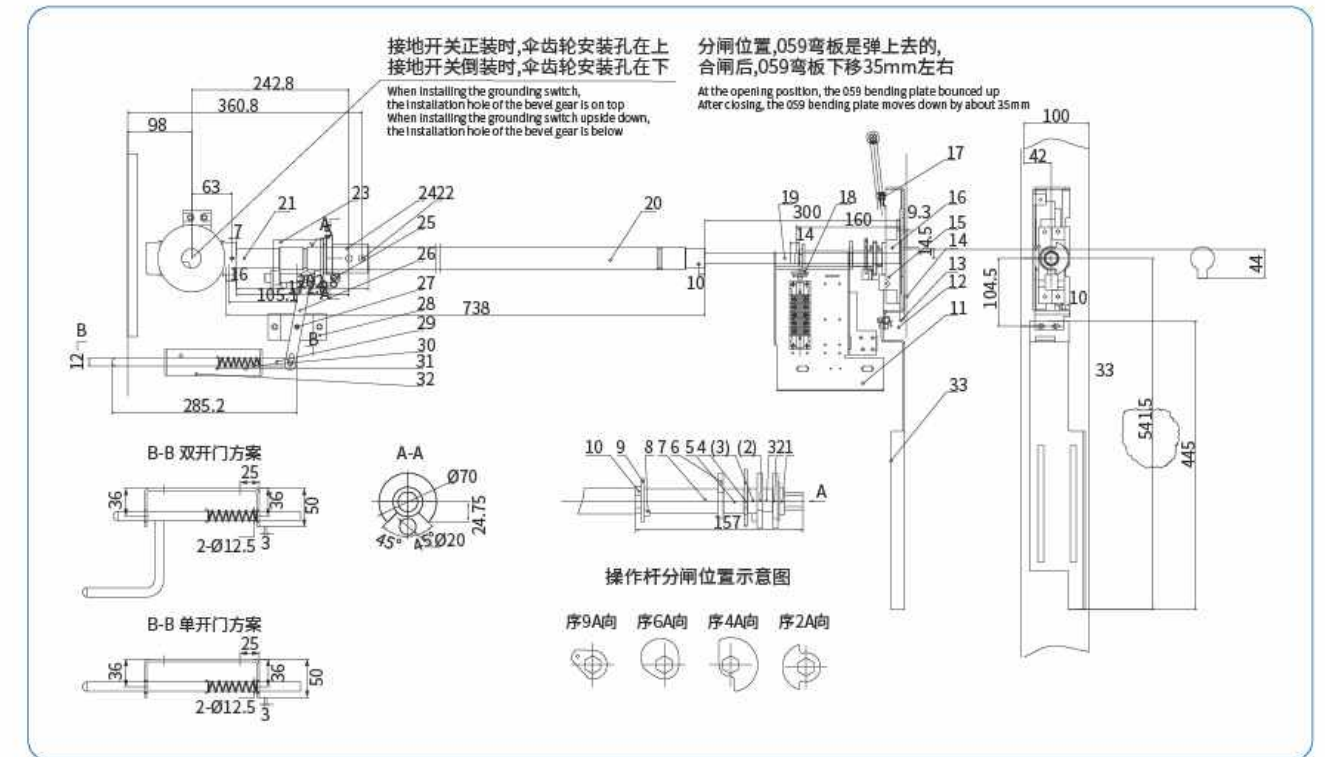


序号 NO.	名称 Title	代号 Code	数量 只/套 Quantity per/set
1	弯板 (059) Bending plate (059)	8YF.161.059.9	1
2	支座 Support	8YF.043.022.3.WMJA	1
3	操作杆 Operating lever	8YF.174.214-L800	1
4	支座 Support	8YF0301.0701	1
5	短连杆 Short connecting rod	8YF.0301.0413	1
6	限位销 Limit pin	8YF.0301.0412	1
7	夹叉 2 Clamping fork 2	8YF.0301.0329	2
8	夹叉 Clamp fork	8YF.0301.0328	2
9	螺杆 Screw	8YF.10.251-L120	1
10	绝缘联锁杆 Insulated interlocking rod	8YF.0301.0602	1
11	滑板 Skateboard	8YF.0301.0330	1
12	固定座 Fixed seat	8YF.0301.0327	1
13	钩板 Hook plate	8YF.0301.0331	1
14	锁钩 Locking hook	8YF.0301.0418	1
15	联锁块 Interlocking block	8YF.1407.0401	1
16	固定支架 Fixed bracket	8YF.0301.0324	1
17	下拐臂 Lower crutch arm	8YF.0301.0702	1

◇ 35kV 接地开关操作机构联锁装置 (用于双向伞齿轮传动) 5YF.577.1003(双开门)/5YF.577.1003.单开门)  
- 35kV grounding switch operating mechanism interlocking device (for bidirectional bevel gear transmission) 5YF.577.1003 (double door)/5YF.577.1003 Single door open)



◇ 35kV 接地开关操作机构联锁装置 (用于双向伞齿轮传动) 5YF.577.1003(双开门)/5YF.577.1003.单开门) 装置示意图  
- 35kV grounding switch operating mechanism interlocking device (for bidirectional bevel gear transmission) 5YF.577.1003 (double door)/5YF.577.1003 Schematic diagram of single door opening device



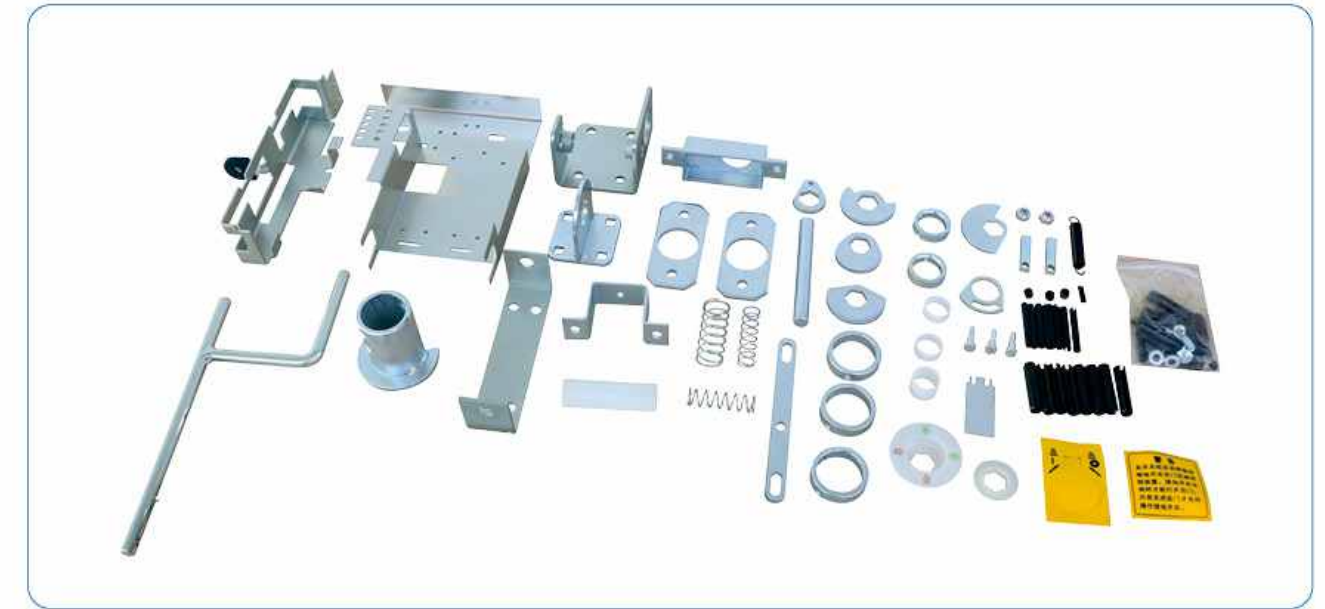
注: 配 JN22B 接地开关及 ZN85 等同类断路器  
Note: with JN22B earthing switch and ZN85 and other similar breakers



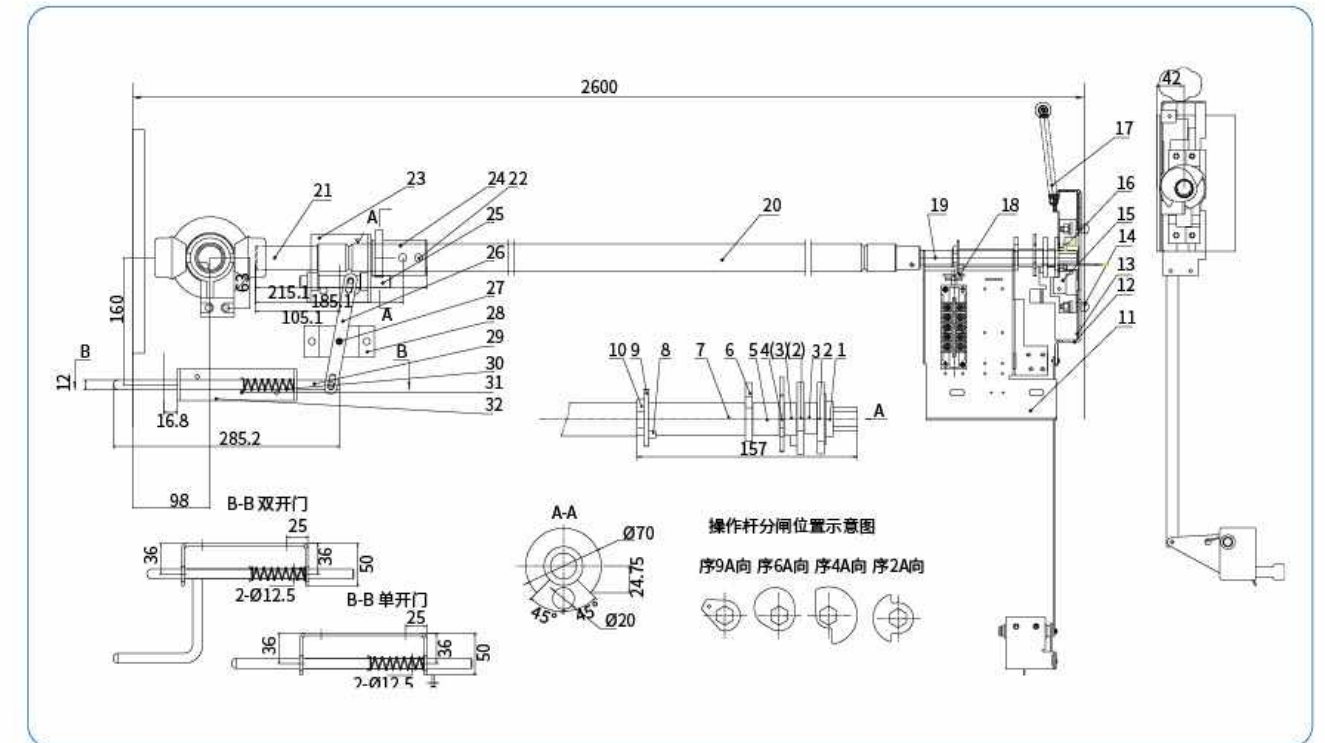
◇ 35kV 接地开关操作机构联锁装置 (用于双向伞齿轮传动) 5YF.577.1003(双开门)/5YF.577.1003.单开门) 配套表  
- 35kV grounding switch operating mechanism interlocking device (for bidirectional bevel gear transmission) 5YF.577.1003 (double door)/5YF.577.1003 Single door supporting table

序号 NO.	名称 Item	代号 Code	数量 只 / 套 Qty pcs/set	备注 Remarks
1	轴承 Bearing	8YF.263.011	1	
2	限位板 Stop plate	8YF.151.084	2	
3	轴套 Shaft sleeve	8YF.210.014.1	2	
4	扇形板 Sector plate	8YF.151.041	1	
5	轴套 Shaft sleeve	8YF.210.061	1	
6	扇形板 Sector plate	8YF.151.039	1	
7	轴套 Shaft sleeve	8YF.211.062	1	
8	螺钉 M5x12 Screw	GB70-85	1	
9	扇形板 Sector plate	8YF.151.042	1	
10	扇形板 Sector plate	8YF.157.043	1	
11	弯板 Bending plate	8YF.161.058	1	
12	弯板 Bending plate	8YF.161.059.1	1	
13	滑块 Sliding block	8YF.143.010	1	
14	马车 M6x25 Carriage	GB12-88	1	
15	支座 Support	5YF.043.022	2	
16	盖 Cover	8YF.017.011	1	
17	拉簧 Tension spring	8YF.288.016	1	
18	齿插板 Tooth spile	8YF.151.044	1	
19	操作杆 Operating rod	L=395	1	
20	轴焊接 Shaft welding	YF-050-44220		
21	操作杆 Operating rod	L=145		
22	弹性销 Spring pin	标准件	共 2 种 - 各 2 个 Each 2 pieces	∅10X45/∅6X45
23	弯板焊接 Bending plate welding	10YF.07.143	1	
24	限位套焊接 Stopper collar welding	5YF.07.149	1	
25	短轴 Short shaft	10YF.07.147	1	
26	连杆 Connecting rod	10YF.07.145	1	
27	螺钉 Screw	8YF.993.051.1	3	
28	弯板 Bending plate	10YF.07.142	1	
29	长轴焊接 Long shaft welding	10YF.09.292	1	
30	压簧 Compressspring	8YF.282.021	2	
31	弹性销 Spring pin	∅ 3X18	1	
32	弯板 Bending plate	10YF.07.141	1	
33	联锁弯板 Interlock bendingplate	8YF.101.245	1	

◇ 35kV 接地开关操作机构联锁装置 (用于双向齿轮传动操作) 5YF.577.1004/5YF.577.1004.1  
- 35kV grounding switch operating mechanism interlocking device (for bidirectional gear transmission operation) 5YF.577.1004/5YF.577.1004.1



◇ 35kV 接地开关操作机构联锁装置 (用于双向齿轮传动操作) 5YF.577.1004/5YF.577.1004.1 装置示意图  
- 35kV grounding switch operating mechanism interlocking device (for bidirectional gear transmission operation) 5YF.577.1004/5YF.577.1004.1 Device schematic diagram



◇ 35kV 接地开关操作机构联锁装置 (用于双向齿轮传动操作) 5YF.577.1004/5YF.577.1004.1 配套表

- 35kV grounding switch operating mechanism interlocking device (for bidirectional gear transmission operation) 5YF.577.1004/5YF.577.1004.1 supporting table

序号 NO.	名称 Item	代号 Code	数量 只 / 套 Qty pcs/set	备注 Remarks
1	轴承 Bearing	8YF.263.011	1	
2	限位板 Stop plate	8YF.151.084	2	
3	轴套 Shaft sleeve	8YF.210.014.1	2	
4	扇形板 Sector plate	8YF.151.041	1	
5	轴套 Shaft sleeve	8YF.210.061	1	
6	扇形板 Sector plate	8YF.151.039	1	
7	轴套 Shaft sleeve	8YF.211.062	1	
8	螺钉 M5x12 Screw	GB70-85	1	
9	扇形板 Sector plate	8YF.151.042	1	
10	扇形板 Sector plate	8YF.151.043	1	
11	弯板 Bending plate	8YF.161.058	1	
12	弯板 Bending plate	8YF.161.059.1	1	
13	滑块 Sliding block	8YF.143.010	1	
14	马车 M6x25 Carriage	GB12-88	1	
15	支座 Support	5YF.043.022	2	
16	盖 Cover	8YF.017.011	1	
17	拉簧 Tension spring	8YF.288.016	1	
18	齿插板 Tooth spile	8YF.151.044	1	
19	操作杆 Operating rod	L=395	1	
20	轴焊接 Shaft welding	YF-050-44220		
21	操作杆 Operating rod	L=145		
22	弹性销 Spring pin	标准件	共 2 种 - 各 2 个 Each 2 pieces	Φ10X45/Φ6X45
23	弯板焊接 Bending plate welding	10YF.07.143	1	反闭锁装置 Reverse blocking device
24	限位套焊接 Stopper collar welding	5YF.07149	1	
25	短轴 Short shaft	10YF.07.147	1	
26	连杆 Connecting rod	10YF.07.145	1	
27	螺钉 Screw	8YF.993.051.1	3	
28	弯板 Bending plate	10YF.07.142	1	
29	长轴焊接 Long shaft welding	10YF.09.292	1	
30	压簧 Compressspring	8YF.282.021	2	
31	弹性销 Spring pin	Φ3X18	1	
32	弯板 Bending plate	10YF.07.141	1	

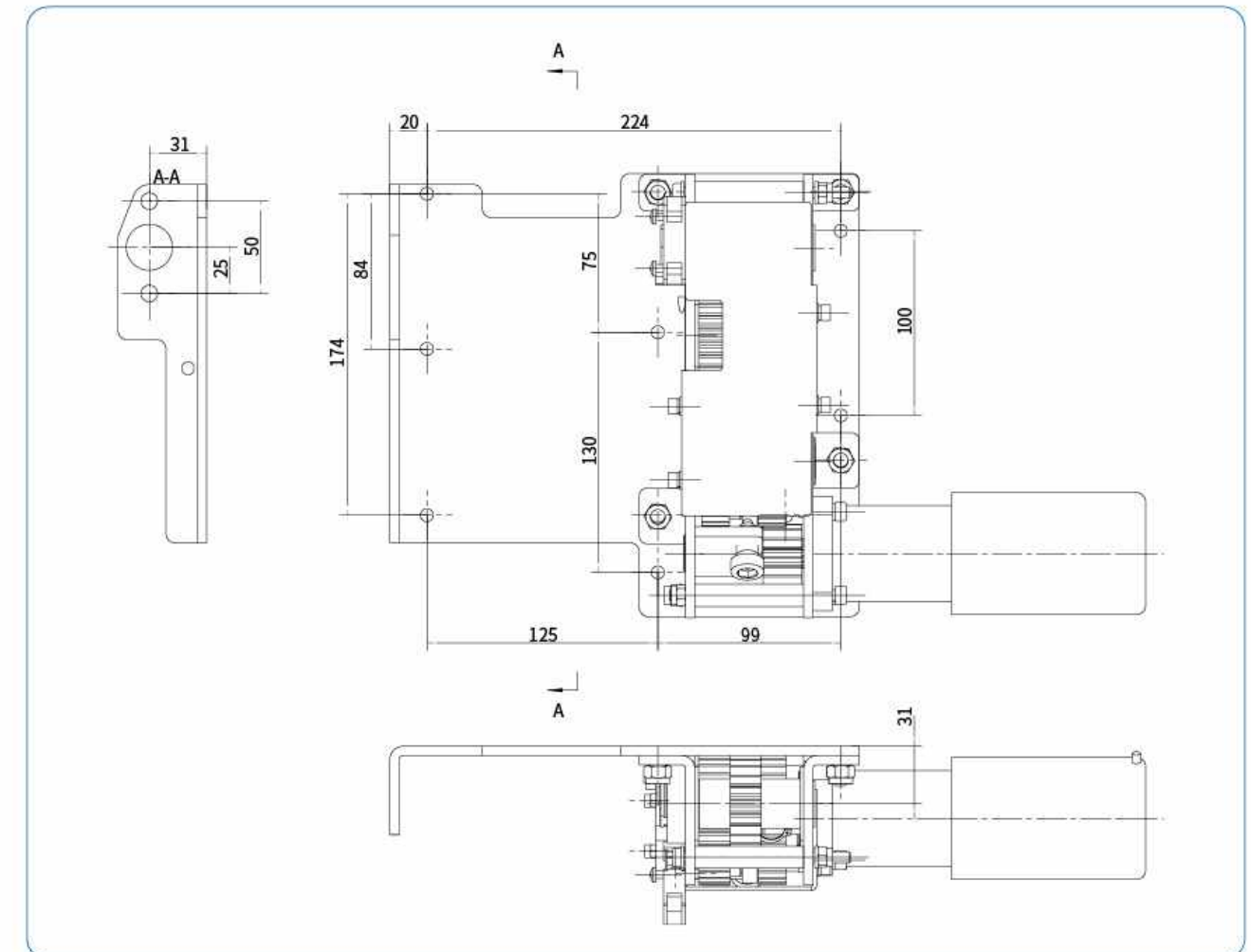
◇ 1YF.0303.0101 接地联锁电动操作机构

- 1YF.0303.0101 Grounding interlocking electric operating mechanism



◇ 1YF.0303.0101 接地联锁电动操作机构示意图

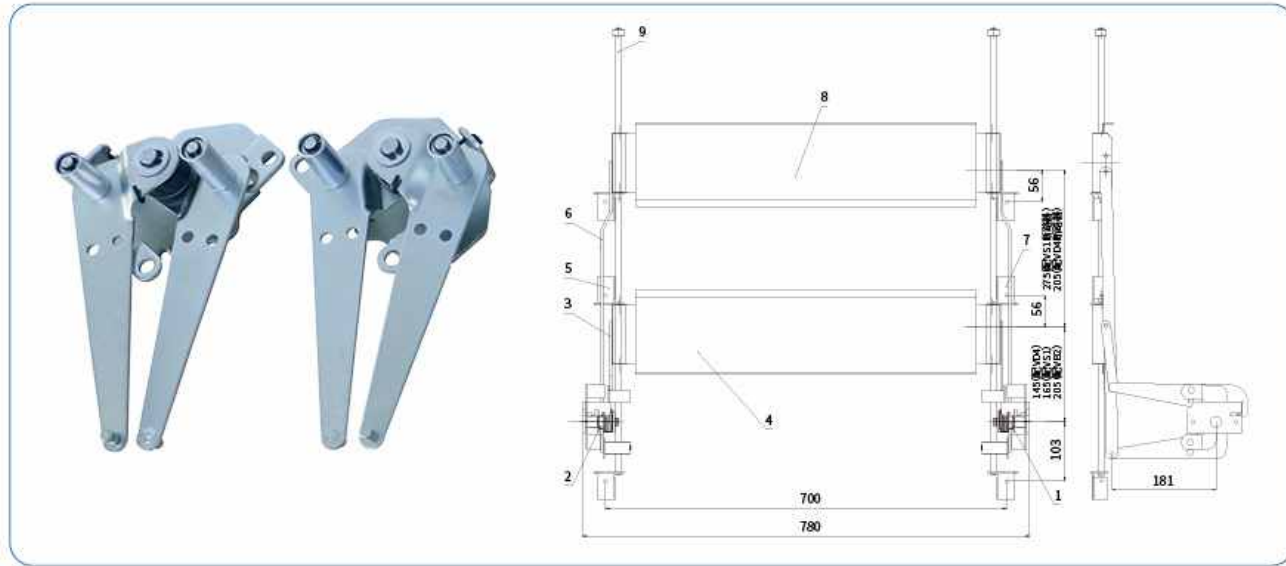
- 1YF.0303.0101 Schematic diagram of grounding interlocking electric operating mechanism





◇ (800mm 宽中置式开关柜) 活门机构装置 5YF.320.010 安装示意图

· Installation diagram of valve mechanism device 5YF.320.010 (800mm wide central switch cabinet)



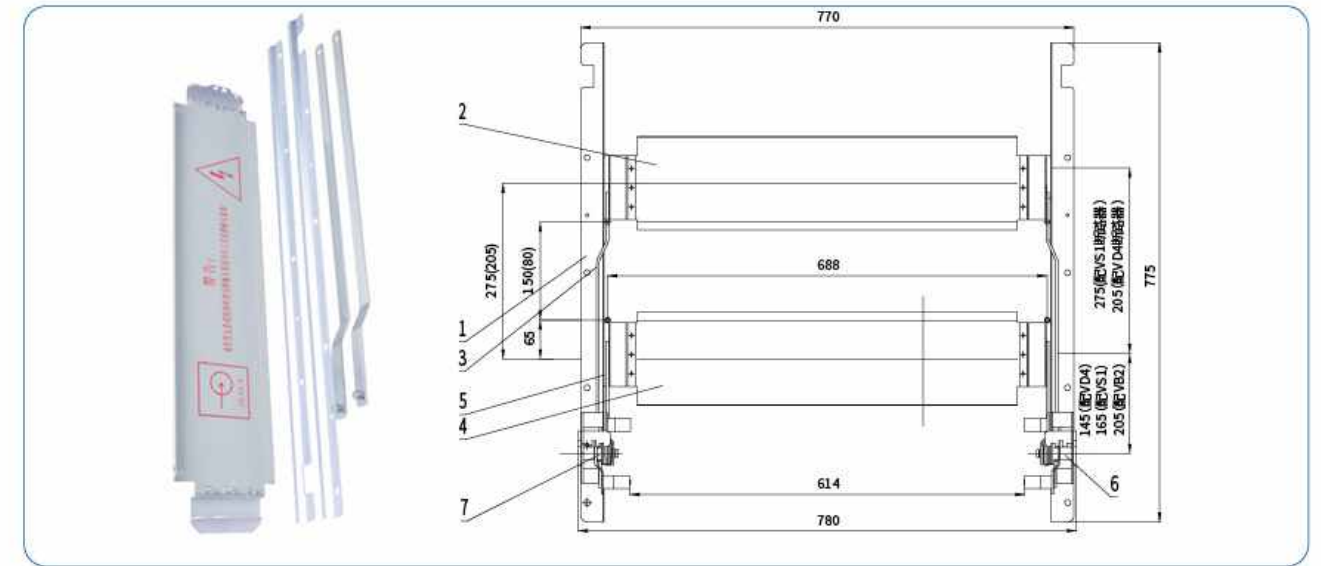
◇ (800mm 宽中置式开关柜) 活门机构装置 5YF.320.010 安装配套表

· Installation and matching table for valve mechanism device 5YF.320.010 (800mm wide central switch cabinet)

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	右侧连板装配 Right side connecting plate assembly	2YF.100.011	1
2	左侧连板装配 Left side connecting plate assembly	2YF.100.010	1
3	连板焊接 Connecting plate welding	5YF.174.015	2
4	下活门装配 Lower valve assembly	8YF.320.010	1
5	右支架板 Right bracket plate	8YF.123.013	3
6	连板焊接 Connecting plate welding	5YF.174.015	2
7	左支架板 Left bracket plate	8YF.123.012	3
8	上活门装配 Upper valve assembly	8YF.320.011	1
9	导杆 Guide rod	8YF.234.011	2
10	螺丝包 Screw pack		1

◇ (800mm 宽中置式开关柜) 活门机构 5YF.320.010.2 安装示意图 (二代柜)

· Installation diagram of valve mechanism 5YF.320.010.2 (800mm wide central switch cabinet) (second-generation cabinet)



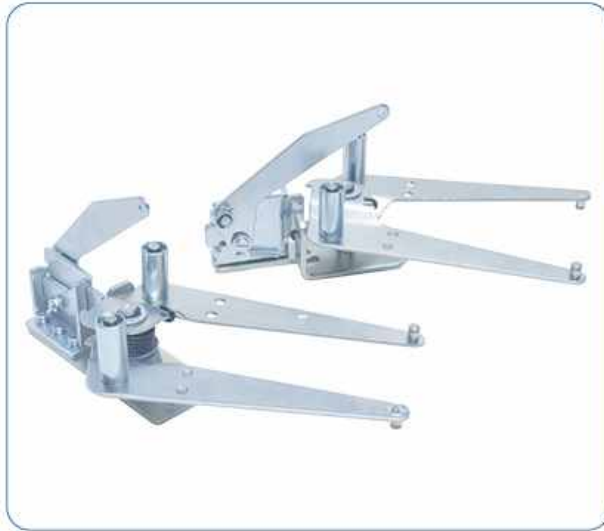
◇ (800mm 宽中置式开关柜) 活门机构 5YF.320.010.2 配套表

· (800mm wide central switch cabinet) Valve mechanism 5YF.320.010.2 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	铝导槽 (左 / 右) Aluminum guiding groove (left / right)	5YF.1411.0904	2
2	上活门板装配 Upper shutter plate assembling	5YF.1411.0901	1
3	焊接 Welding	5YF.174.015.1-3	2
4	下活门板装配 Lower shutter plate assembling	5YF.1411.0902	1
5	焊接 Welding	5YF.174.016.1-3	2
6	左支承架 Left support frame	8YF.123.010	5
7	螺栓 M6*12 Bolt M6*12	GB5783-86	5
8	弹性垫圈 Φ6 Elastic washer Φ6	GB93-87	8
9	垫圈 Φ6 Washer	GB97.1-85	1
10	固定板焊接 Fixed plate welding	5YF.100.020	1
11	上连板焊接左 Upper connecting plate welding left	5YF.1411.0906	1
12	左扭簧 Left torsional spring	8YF.288.012	1
13	下连板焊接左 Lower connecting plate welding left	5YF.1411.0908	1
14	轴套 L=25 Shaft sleeve L=25	8YF.210.012	1
15	右支承架 Right support frame	8YF.123.011	1
16	螺栓 M6*12 Bolt M6*12	GB5783-86	5
17	弹性垫圈 Φ6 Elastic washer Φ6	GB93-87	5
18	垫圈 Φ6 Washer	GB97.1-85	8
19	上连板焊接右 Upper connecting plate welding right	5YF.1411.0905	1
20	下连板焊接右 Lower connecting plate welding right	5YF.1411.0907	1

◇ (1) 活门机构装置 5YF.320.010/1ZS 示意图

(1) Schematic diagram of valve mechanism device 5YF.320.010/1ZS



说明 illustrate

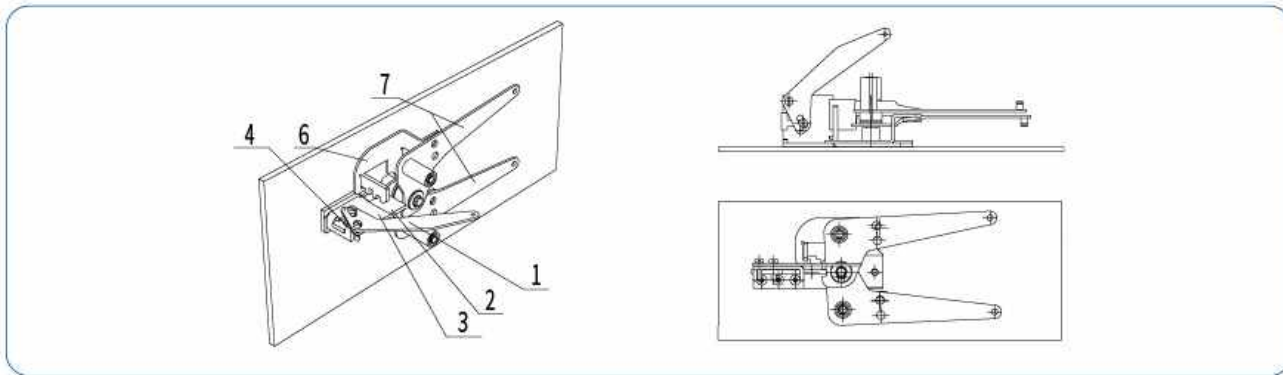
为更好的保护检修人员，本公司对原 KYN28 中置柜活门机构进行了优化，增加了自锁功能。当手车被抽出柜体后，检修人员在检修时，可将活门板锁住，挡住触头盒和静触头，避免了误操作带来的触电伤害。

本机构是在 KYN28 中置柜活门机构的基础上增加了自锁功能。工作过程：当手车抽出柜体后，1 在拉簧的作用下绕 4 逆时针旋转，驱动 3 向右滑动，挡住 7，使 7 不能旋转。推进手车后，1 在手车推板的作用下，绕 4 顺时针旋转，驱动 3 向左滑动，将 7 解锁，此时 7 可以正常工作。

To better protect maintenance personnel, our company has optimized the valve mechanism of the original KYN28 central cabinet and added a self-locking function. When the handcart is pulled out of the cabinet, maintenance personnel can lock out the valve plate during maintenance, blocking the contact box and static contacts, avoiding electric shock injuries caused by misoperation.

This mechanism adds self-locking function on the basis of KYN28 central cabinet valve mechanism. Working process: After the handcart is pulled out of the cabinet, 1 rotates counterclockwise around 4 under the action of the tension spring, driving 3 to slide to the right, blocking 7 and preventing 7 from rotating. After pushing the handcart, under the action of the handcart push plate, 1 rotates clockwise around 4, drives 3 to slide to the left, unlocks 7, and at this point, 7 can work normally.

the handcart is pulled out of the cabinet, 1 rotates counterclockwise around 4 under the action of the tension spring, driving 3 to slide to the right, blocking 7 and preventing 7 from rotating. After pushing the handcart, under the action of the handcart push plate, 1 rotates clockwise around 4, drives 3 to slide to the left, unlocks 7, and at this point, 7 can work normally.

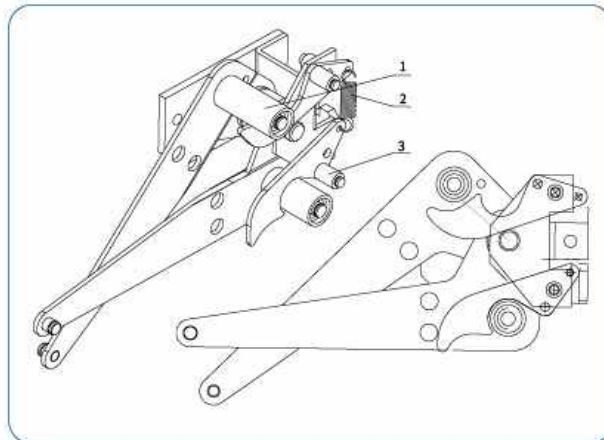


◇ (2) 活门机构装置 5YF.320.010/1ZS.1 示意图

(2) Schematic diagram of valve mechanism device 5YF.320.010/1ZS.1

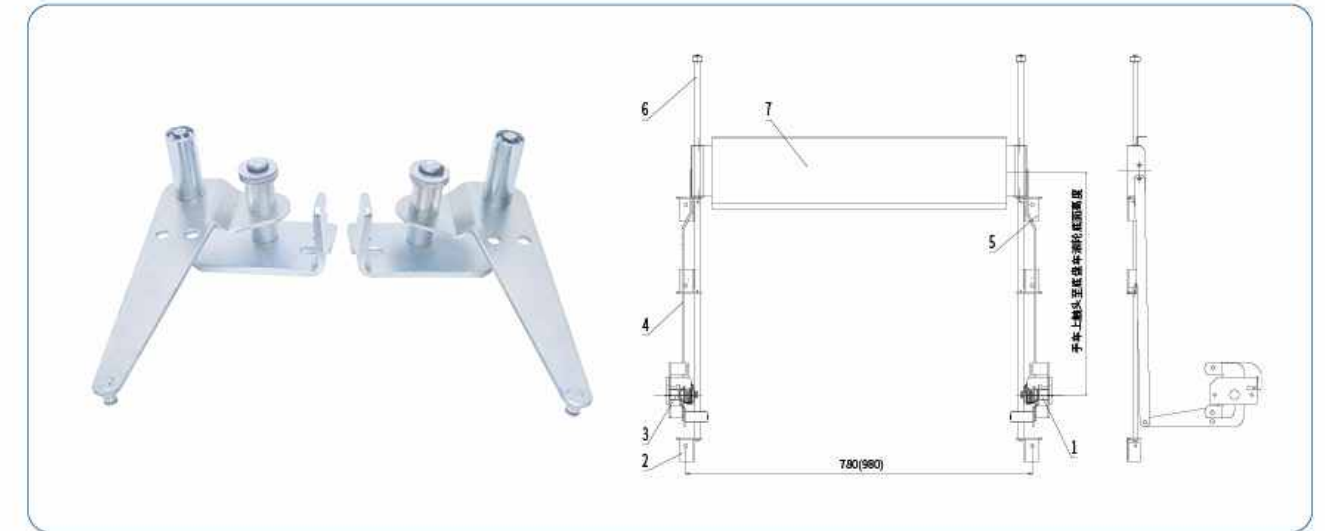
操作原理 Working Principal

1. 此机构是通过 3 弧板锁住左右侧连板上的 1 滚轮实现的活门自锁。
  2. 当断路器机构从实验位置往工作位置运行时，断路器两侧推板先压住上下 3 弧板往中间旋转，自锁机构解锁，活门机构正常打开。
  3. 断路器退出来时 3 弧板在 2 拉簧力的作用下张开锁住 1 滚轮，活门机构锁住。
1. This mechanism achieves valve self-locking by locking the 1 roller on the left and right connecting plates with 3 arc plates.
2. When the circuit breaker mechanism runs from the experimental position to the working position, the push plates on both sides of the circuit breaker first press the upper and lower three arc plates and rotate towards the middle. The self-locking mechanism unlocks and the valve mechanism opens normally.
3. When the circuit breaker withdraws, the 3-arc plate opens and locks the 1-roller under the action of the 2-spring force, and the valve mechanism locks.



◇ 800mm/1000mm 宽中置式开关柜上活门机构装置 5YF.320.012/5YF.320.012.1 安装示意图

Installation diagram of valve mechanism device on 800mm/1000mm wide central switch cabinet 5YF.320.012/5YF.320.012.1



◇ 800mm/1000mm 宽中置式开关柜上活门机构装置 5YF.320.012/5YF.320.012.1 配套表

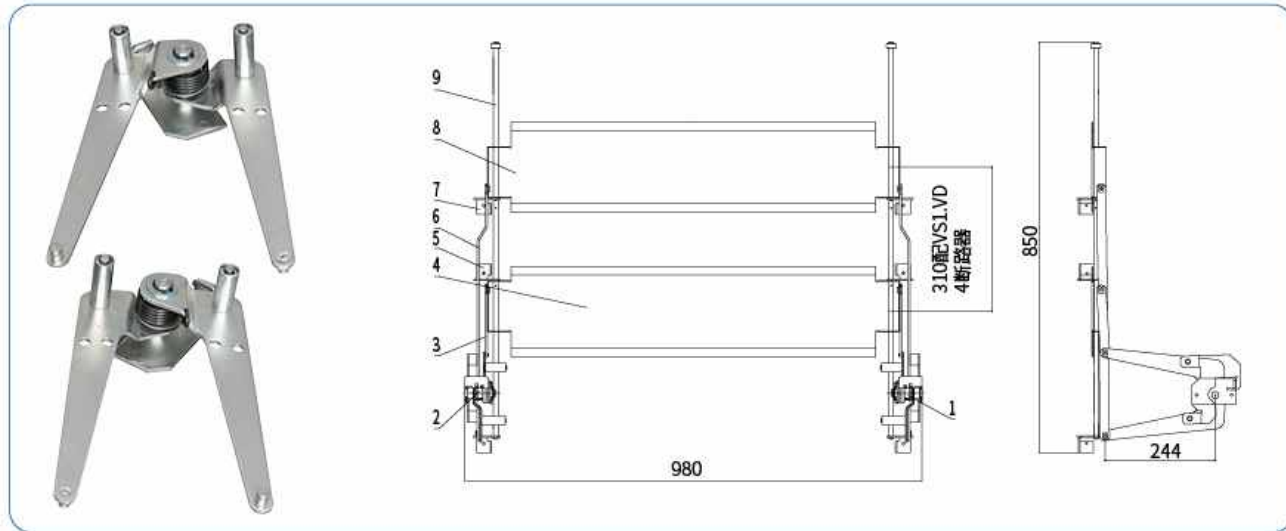
Supporting Table for Valve Mechanism Device on 800mm/1000mm Wide Center Mounted Switch Cabinet 5YF.320.012/5YF.320.012.1

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	下连板装配 (右)	2YF.1606.0610-S	1
2	左支架板	8YF.123.012	2
3	下连板装配 (左)	2YF.1601.0609-S	1
4	连板焊接	5YF.174.015	2
5	右支架板	8YF.123.013	2
6	导杆	8YF.234.011	2
7	上活门装配		1
8	螺丝包		1



◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011 安装示意图

- Installation diagram of valve mechanism device 5YF.320.011 (1000mm wide central switch cabinet)



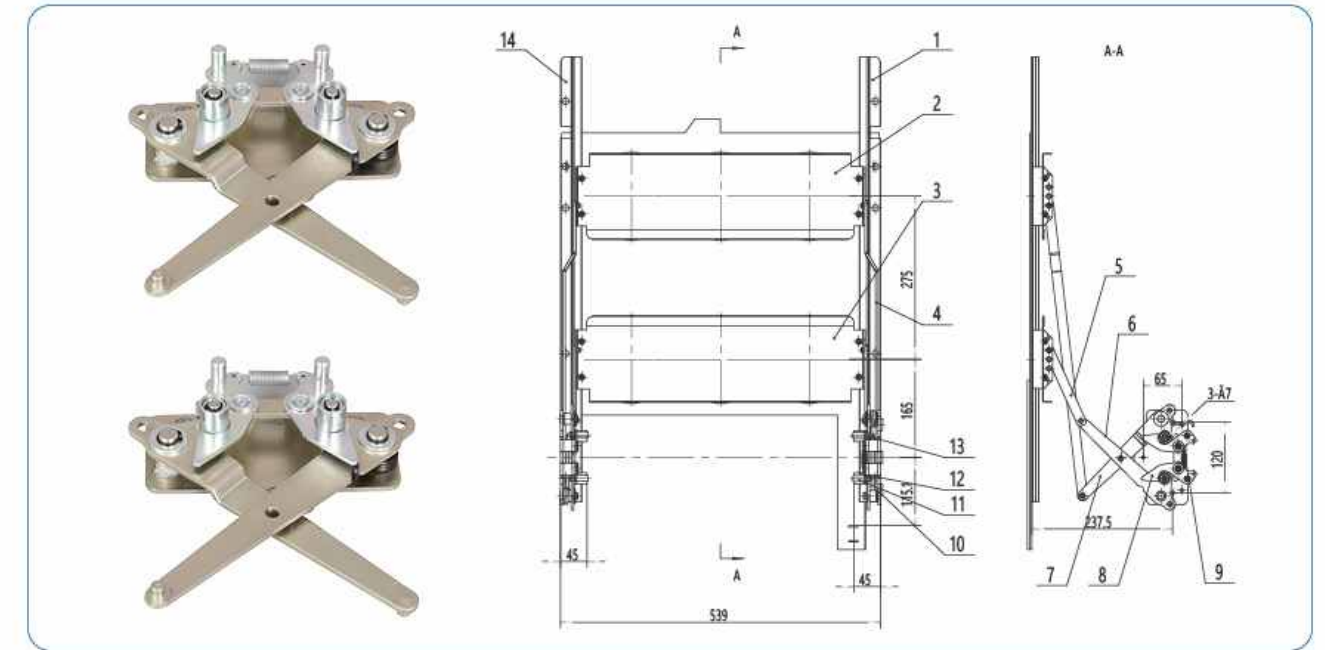
◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011 配套表

- (1000mm wide central switch cabinet) Valve mechanism device 5YF.320.011 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	右支承架 Right supporting frame	2YF.100.013	1
2	右侧连板 Right connecting plate	2YF.100.012	1
3	连板焊装	5YF.174.024	1
4	下活门装配		1
5	左支架板	8YF.123.016	16
6	连板焊装	5YF.174.024	10
7	右支架板	8YF.123.017	10
8	上活门装配		1
9	导杆	8YF.234.011	2
10	螺丝包		1

◇ 550mm 宽中置式开关柜上活门机构装置 1YF.0401.0101 安装示意图

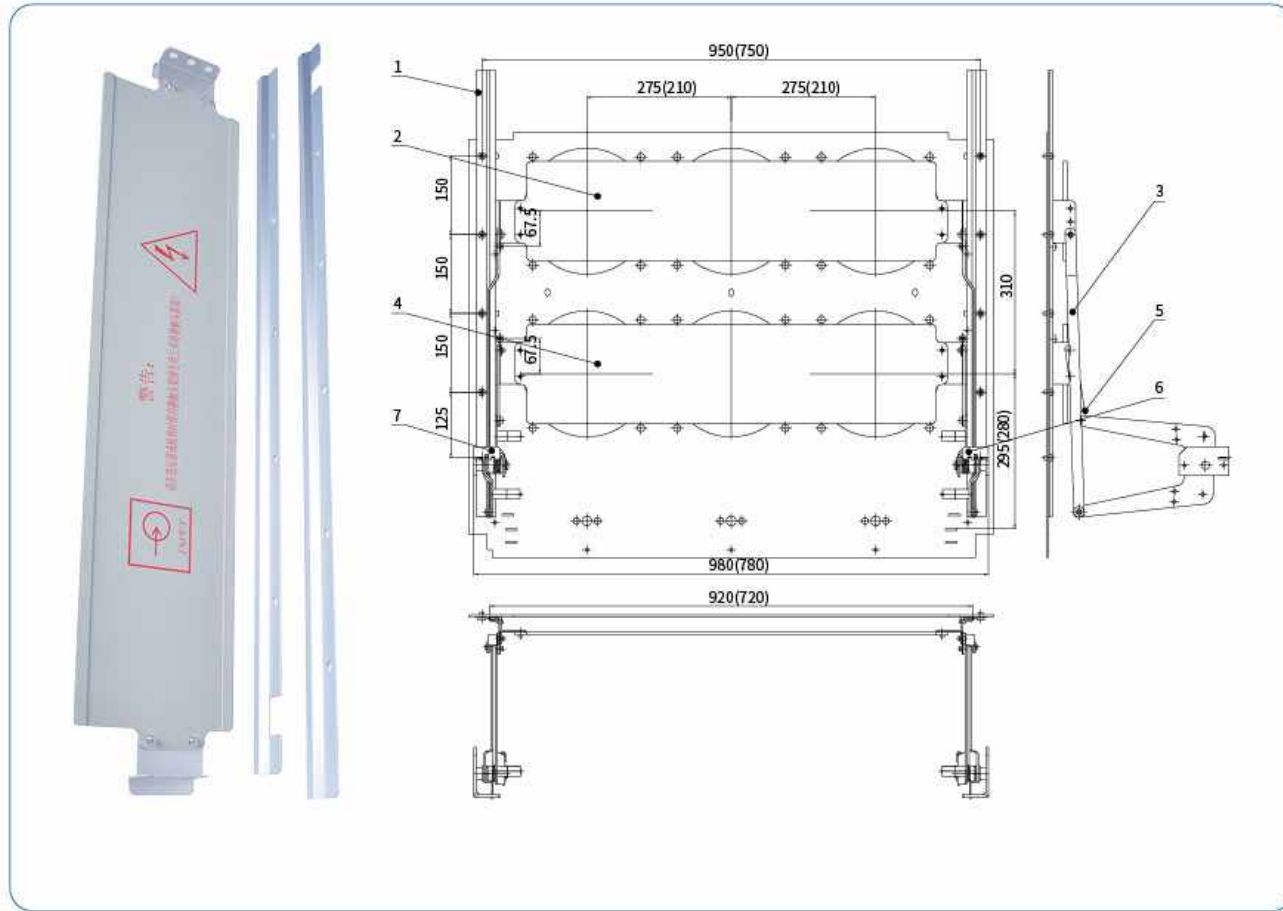
- Installation diagram of valve mechanism device 1YF.0401.0101 on 550mm wide central switch cabinet



序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	右铝导槽 (800) Right aluminum guide groove (800)	8YF.0401.07.1-L750.ZT5	1
2	上活门板装配 Upper door panel assembly	2YF.0401.0141	1
3	下活门板装配 Lower door panel assembly	2YF.0401.0140	1
4	800 焊接 800 welding	5YF.174.017.-508	2
5	800 焊接 800 welding	5YF.174.016-147	2
6	右下连板焊接 (550) Right lower connecting plate welding (550)	5YF.0401.0217	1
7	右上连板焊接 Welding of upper right connecting plate	5YF.0401.0216	1
8	弧板 (550) Arc plate (550)	8YF.0401.0320	4
9	拉簧 (550 自锁) Tension spring (550 self-locking)	8YF.0401.0501	2
10	固定板焊接 (550) Fixed plate welding (550)	5YF.0401.0215	2
11	解锁套 Unlocking sleeve	8YF.0401.0414	4
12	轴套 Shaft sleeve	8YF.210.012.2-L23	4
13	解锁销 Unlocking pin	8YF.0401.0413	4
14	左铝导槽 (800) Left aluminum guide groove (800)	8YF.0401.0702.-L750.ZT5	1
15	覆铝锌板平垫 Aluminum zinc coated Bat pad	GB/T97.1	4
16	镀彩沉头螺钉 Colored countersunk head screws	GB/T819.1	4
17	镀彩弹垫 Color coated bullet pad	GBT93	4
18	镀彩封闭平垫 M12×2.0 Colored sealed Bat pad M12 × two	GB97.1	3
19	扭簧左 (550) Torsion spring left (550)	8YF.0401.0502	2
20	镀彩封闭标准螺母 Color plated closed standard nut	GBT6170	4
21	自锁轮 (550) Self locking wheel (550)	8YF.0401.0406	4
22	左上连板焊接 (550) Left upper connecting plate welding (550)	5YF.0401.0213	1
23	左下连板焊接 (550) Left lower connecting plate welding (550)	5YF.0401.0214	1

◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011.2(二代柜) 安装示意图

· Installation diagram of valve mechanism device 5YF.320.011.2 (second generation cabinet) for 1000mm wide central mounted switchgear



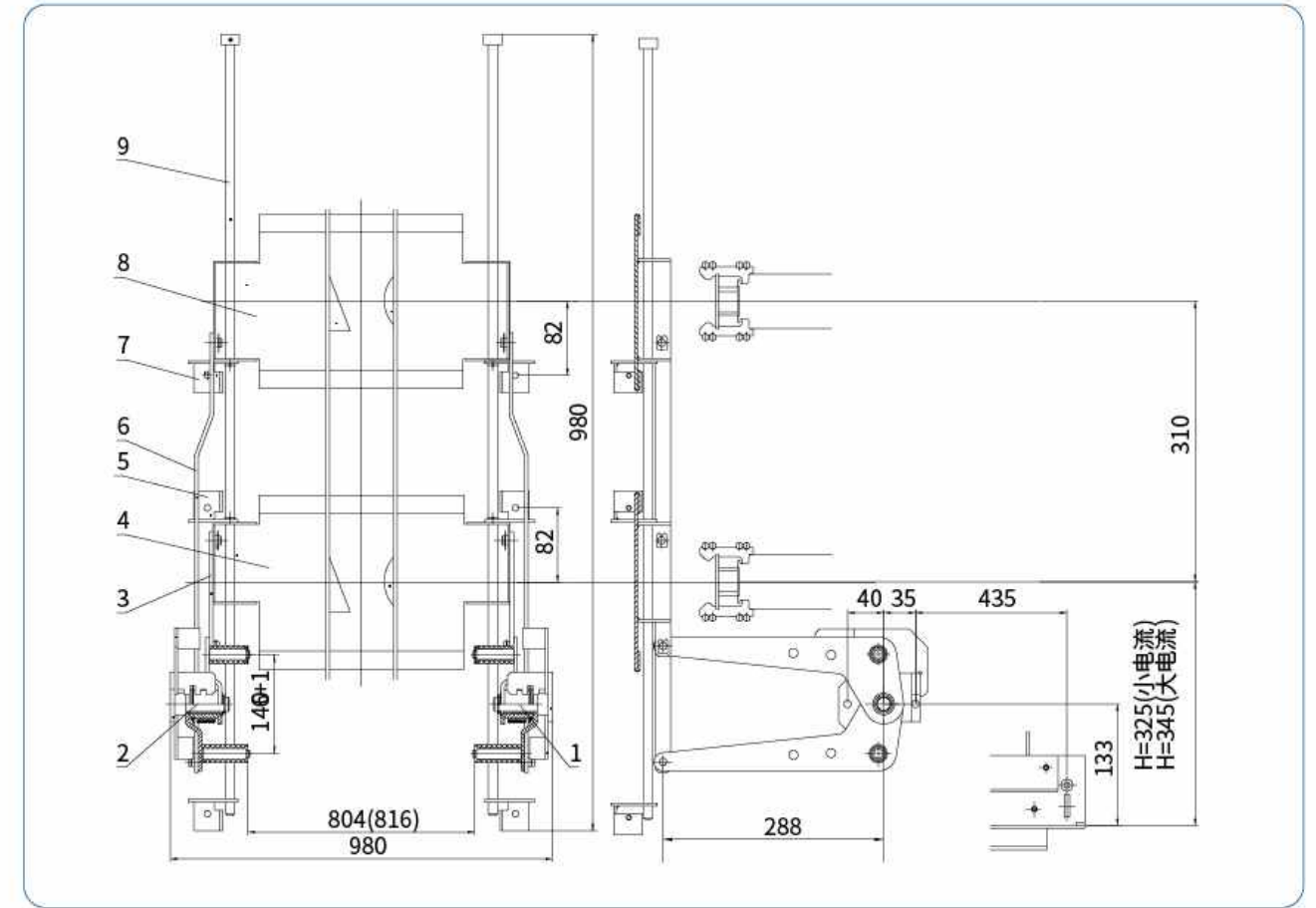
◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011.2(二代柜) 配套表

· (1000mm wide central switch cabinet) Valve mechanism device 5YF.320.011.2 (second generation cabinet) supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	铝导槽 (左 / 右) Aluminum guiding groove (left/right)	8YF.1603.3101	2
2	上活门板装配 Upper shutter plate assembling		1
3	连板焊接	5YF.174.024	2
4	下活门板装配 Lower shutter plate assembling		1
5	连板焊接	5YF.174.024	2
6	右侧连板装配	2YF.100.013	1
7	左侧连板装配	2YF.100.012	1

◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011-24 安装示意图

· (1000mm wide mid-placed switchgear cabinet) shutter echanism 5YF.320.011-24



◇ (1000mm 宽中置式开关柜) 活门机构装置 5YF.320.011-24 配套表

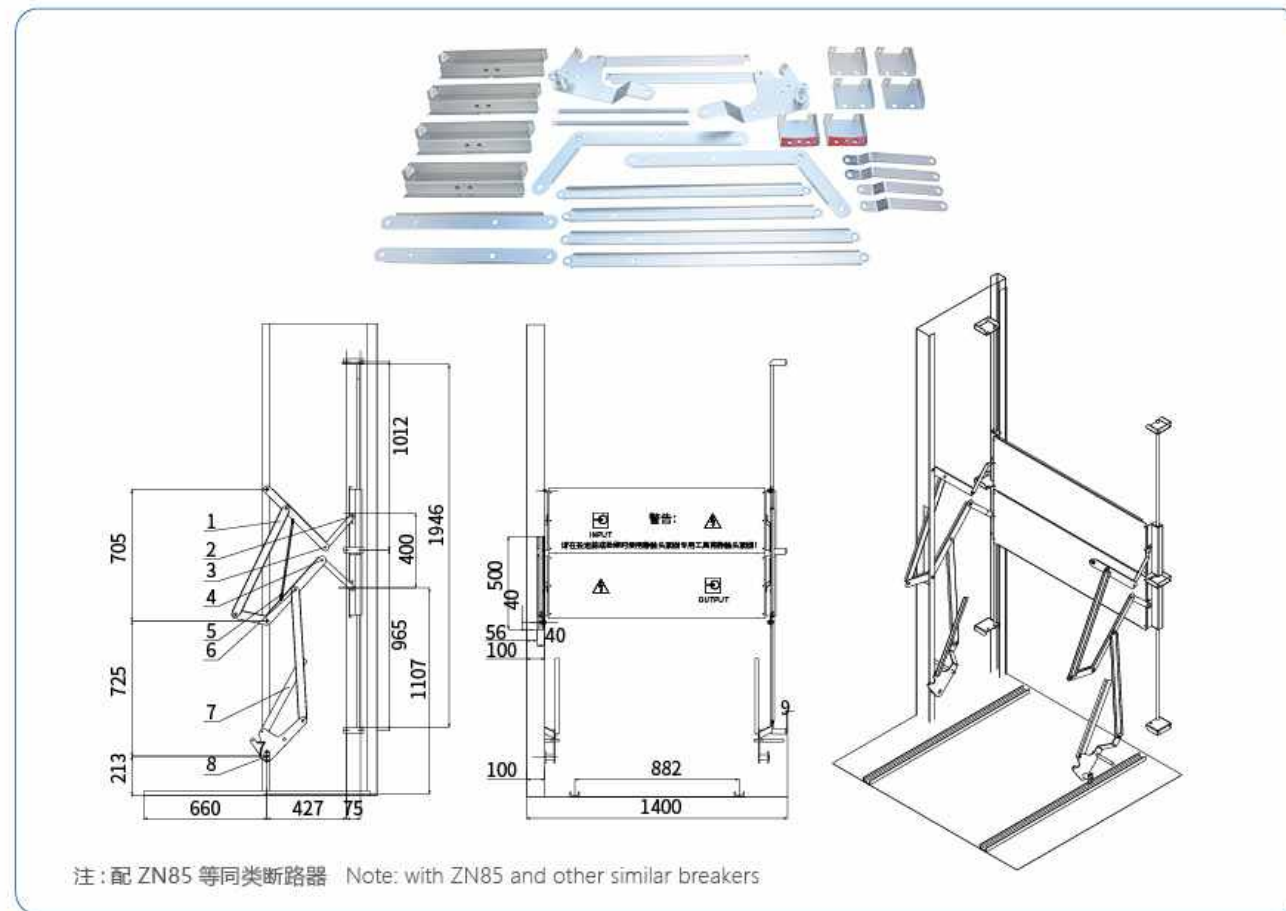
· (1000mm wide mid mounted switchgear) Valve mechanism device 5YF.320.011-24 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	右侧连板装配	2YF.100.013-24	1
2	左侧连板装配	2YF.100.012-24	1
3	连板焊接	5YF.174.024	2
4	下活门		1
5	左支架板	8YF.123.016	3
6	连板焊接	5YF.174.024	2
7	右支架板	8YF.123.017	3
8	上活门		1
9	导杆	8YF.234.011	2



◇ 35kV 活门机构装置 (连杆式) 11YF.03.240 安装示意图

· Installation Diagram of 35KV Valve Mechanism Device (connecting-rod type) 11 YF.03.240

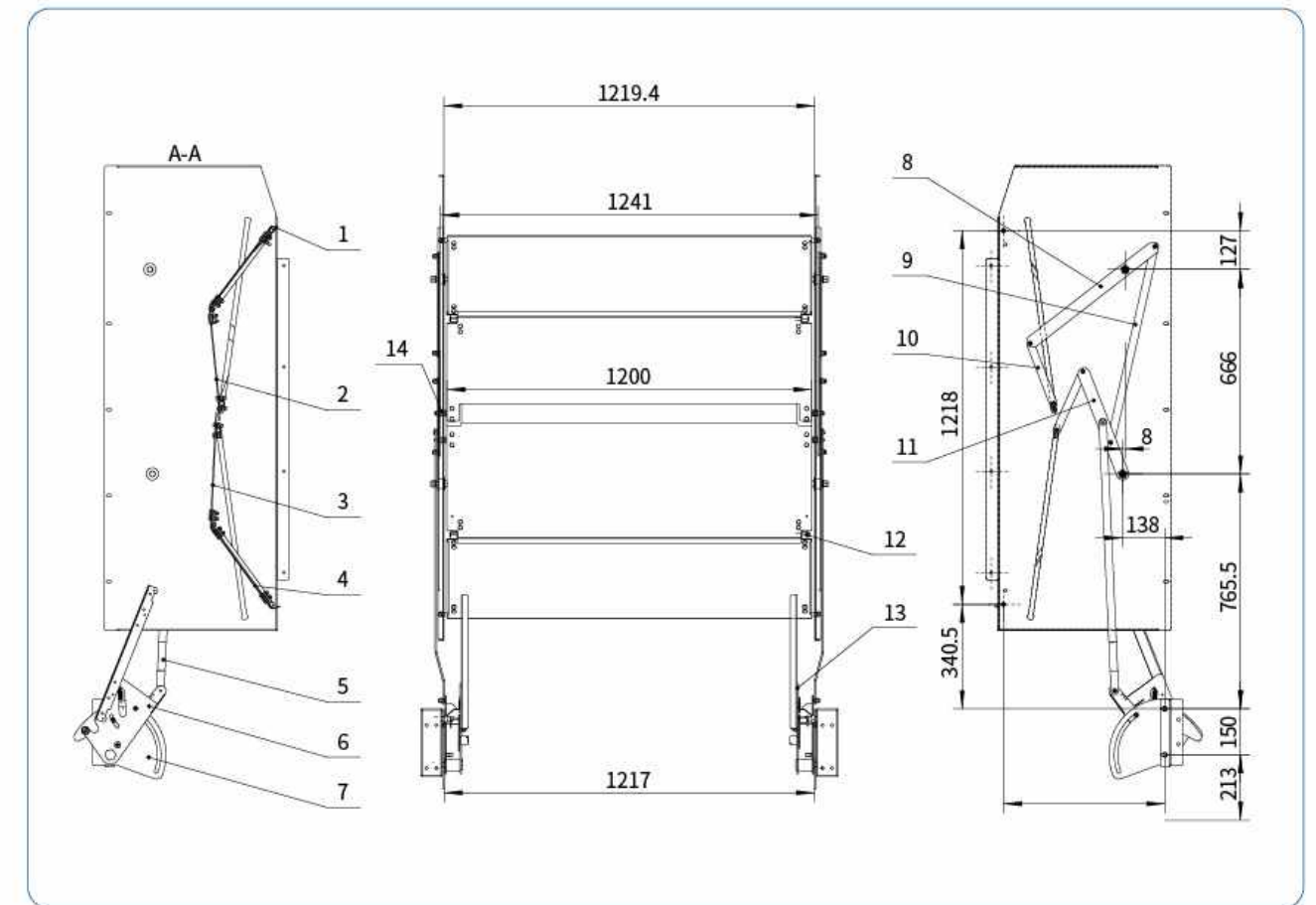


注：配 ZN85 等同类断路器 Note: with ZN85 and other similar breakers

序号 NO.	名称 Item	代号 Code	数量 只 / 套 Qty pcs/set
1	上连杆焊接 Upper connecting rod welding	5YF.1407.1608	2
2	链条 Connecting strip	8YF.1407.1615/28	4
3	上活门推杆焊接 Push rod welding of upper valve	5YF.1407.1603/4	2
4	下活门推杆焊接 Push rod welding of lower valve	5YF.1407.1605/6	2
5	大拉簧 Big extension spring	8YF.1407.1618	2
6	下连杆焊接 Lower connecting rod welding	5YF.1407.1607	2
7	大连杆焊接 Big connecting rod welding	5YF.1407.1601/2	2
8	轴座 Shaft seat	8YF.1407.0915	2
9	顶杆 Post Rod	8YF.1407.1609	2
10	支架板 Support plate	8YF.1407.1619	6
11	上活门(铁) uppershutter(iron)	5YF.1407.1626	1

◇ 35kV 活门机构装置 11YF.03.270 安装示意图

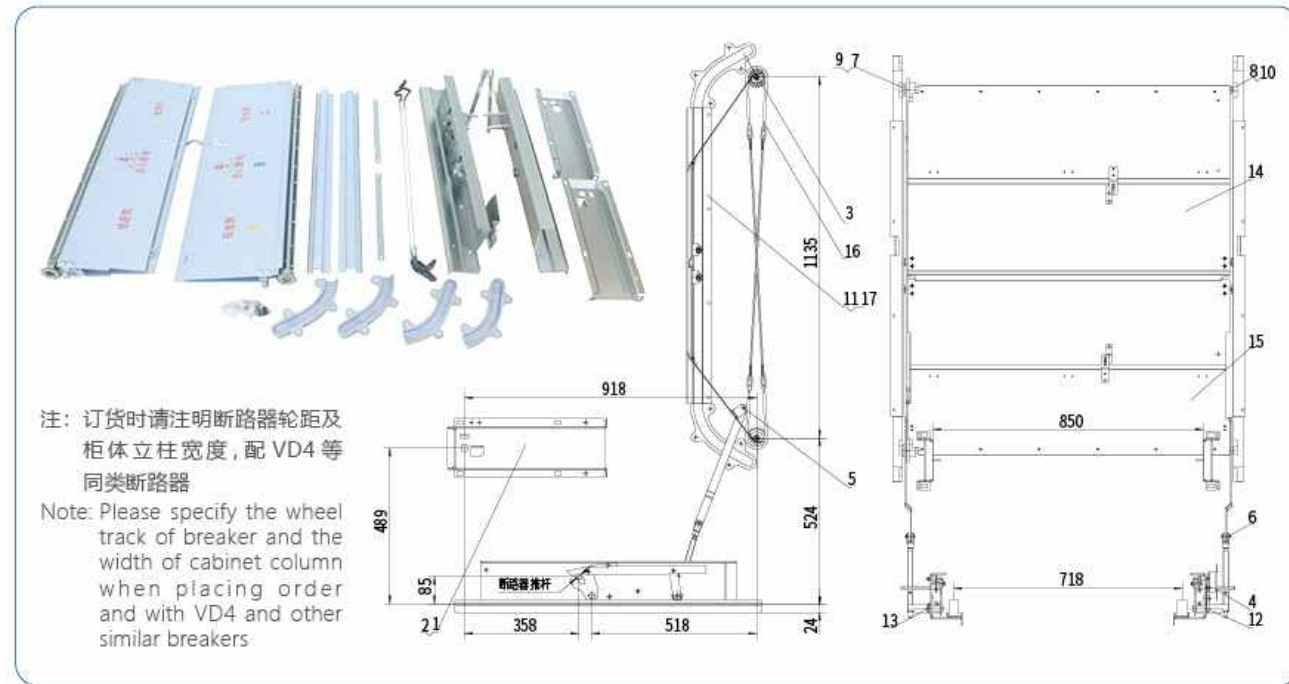
· Installation Diagram of 35KV Valve Mechanism Device 11 YF.03.270



序号 NO.	名称 Item	代号 Code	数量 只 / 套 Qty pcs/set
1	上一活门板焊接	5YF.0404.0205.JC14	1
2	上活门板二	8YF.0404.0311.JC14	1
3	下活门板一	8YF.0404.0312.JC14	1
4	下活门板二	8YF.0404.0313.JC14	1
5	下连杆	8YF.0404.0314	2
6	大连杆焊接左 (270 活门)	5YF.0404.0202	1
7	导向底座	8YF.0404.0306	2
8	上活门推杆	8YF.0404.0319	2
9	上连杆焊接	5YF.0404.0207	2
10	链条焊接	5YF.0404.0208	4
11	下活门推杆焊接	5YF.0404.0206	2
12	小活页	8YF.0404.0601	11
13	大连杆焊接右	5YF.0404.0201	1
14	导向轮	8YF.0404.0413	4

#### ◇ KYN61C 活门机构装配示意图

· KYN61C shutter mechanism earthing interlocking device



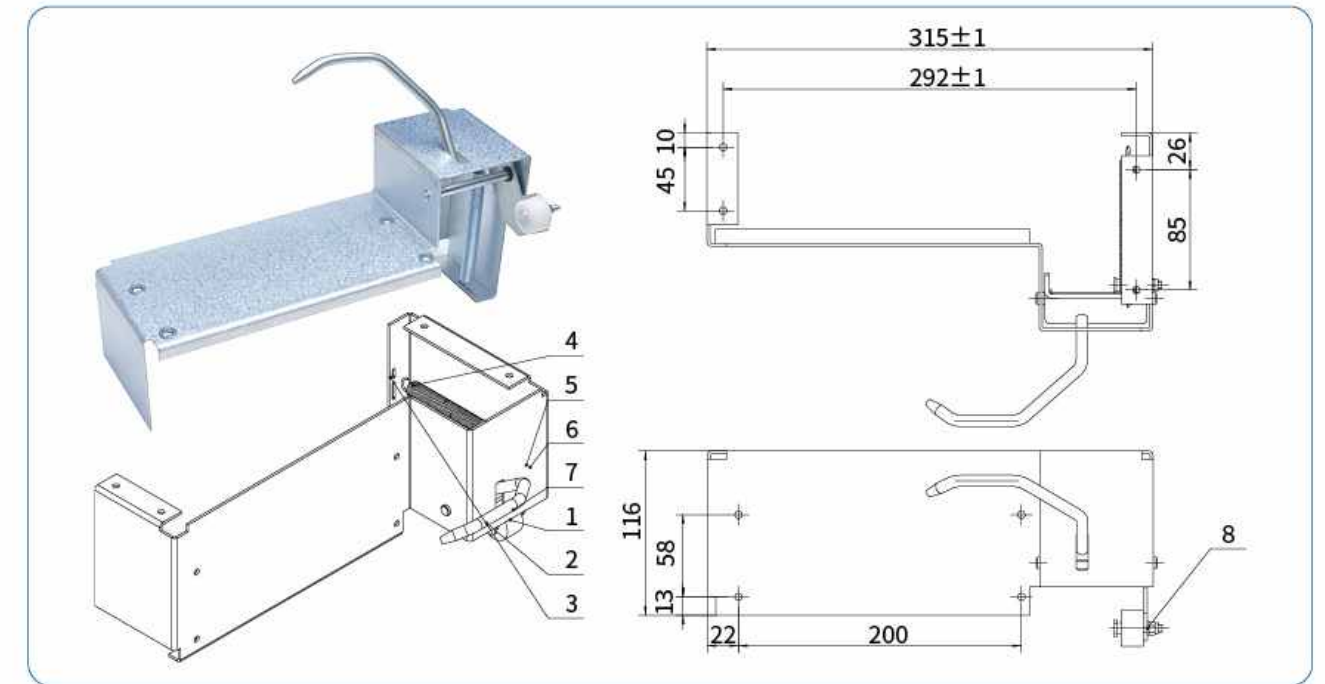
#### ◇ KYN61C 活门机构装配安装配套表

· KYN61C valve mechanism assembly and installation supporting table

序号 No.	名称 Item	代号 Code	数量只 / 套 Qty pcs/set	备注 Remarks	序号 No.	名称 Item	代号 Code	数量只 / 套 Qty pcs/set
1	VD4 航空插座 VD4 air socket	Cz58	1		12	轴套 Shaft sleeve	YF-055-44179	2
2	导轨装配 Guide rail	YF-050-34202	1		13	铜套 copper sleeve	YF-055-44180	2
3	导轨装配 Guide rail	YF-050-34202DC	1		14	销 Pin	YF-055-44181	2
4	上活门装配 Upside live door	YF-050-34210	1		15	销 Pin	YF-055-44182	2
5	下活门装配 Underside live door	YF-050-34211	1		16	连杆 Connecting rod	YF-055-44183	2
6	引轨焊接 Rail welding	YF-050-34230	1		17	销 Pin	YF-055-44184	2
7	链条装配 Chain assembly	YF-050-34230	1		18	锁板 Lock plate	YF-055-44185	1
8	导槽 Guide slot	YF-055-34102	4	正反 Front / back	19	连杆 Connecting rod	YF-055-44186	1
9	定位板 Positioning plate	YF-055-34103	2		20	套 Sleeve	YF-055-44187	1
10	导槽 Guide slot	YF-055-34110	1		21	套 Sleeve	YF-055-44188	1
11	接地母排 Busbar	YF-055-44153	1	客户自备 Customer owned	22	垫圈 Gasket	YF-055-44189	2

#### ◇ 二次插座联锁机构 5YF.573.010 开孔尺寸图

· Secondary socket interlocking mechanism 5YF.573.010 hole size diagram



#### ◇ 二次插座联锁机构 5YF.573.010 安装配套表

· Secondary socket interlocking mechanism 5YF.573.010 installation supporting table

序号 NO.	名称 Title	代号 Code	数量只 / 套 Quantity per/set
1	滚轮 (二次插座) Roller (secondary socket)	8YF.224.021	1
2	螺钉 (二次插座) Screw (secondary socket)	8YF.900.010	1
3	支架 Support	8YF.043.017,H=116	1
4	拉簧 Tension spring	8YF.288.015	1
5	连锁杆焊接 Chain rod welding	5YF.174.017	1
6	轴 Axis	8YF.200.020	1
7	镀蓝白锁紧螺母 M5×4.4 Blue plated white lock nut M5 × four point four	GBT889.1	1
8	镀彩平垫 M5×1 Colored flat pad M5 × one	GBT97.1	1

注 1: 订货时请注明支架安装孔是否铆接螺母，常规不铆接螺母。

注 2: 订货时除表格以外的支架高度请注明。

Note 1: When ordering, please indicate whether the bracket installation hole is riveted with nuts. Normally, nuts are not riveted.

Note 2: When ordering, please specify the height of the bracket other than in the table.



◇ 联锁机构 (5YF.239.010)

- Interlocking mechanism (5YF.239.010)

说明 Introduction

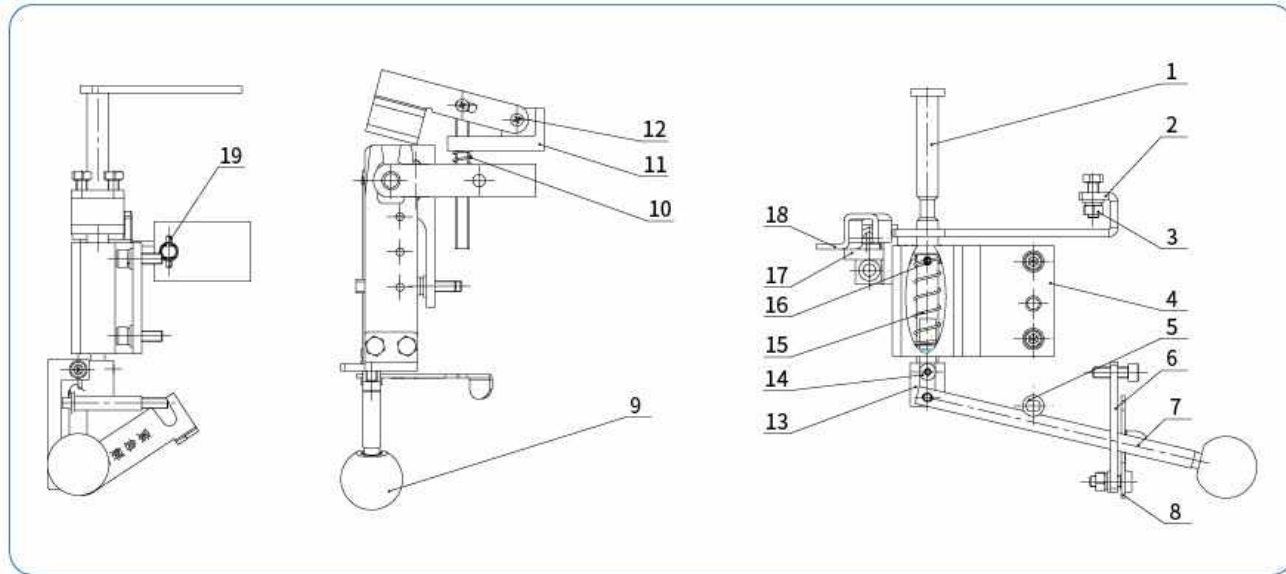
该机构经我厂改进后, 能满足在没有关好下门的情况下无法将接地开关分闸, 手车无法进入工作位置。必须按顺序先关好下门, 再分接地开关, 手车才能从试验位置进入工作位置以保证人身安全。

After improvement by our factory, this mechanism can meet the requirement that the grounding switch cannot be opened and the handcart cannot enter the working position without closing the lower door properly. The lower door must be closed in sequence before the grounding switch is opened, so that the handcart can enter the working position from the test position to ensure personal safety.



◇ 联锁机构 (5YF.239.010) 示意图

- Schematic diagram of interlocking mechanism (5YF.239.010)



◇ 联锁机构 (5YF.239.010) 配套表

- Interlocking mechanism (5YF.239.010) supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	销轴焊接 Pin shaft welding	5YF.234.013	1
2	压簧 pressure spring	8YF.060.012	1
3	舌板 Tongue	2YF.0601.0101	1
4	螺丝包 (联锁机构)	8YF.043.020	1
5	铝支座 (020)	8YF.200.015	1
6	销 Pin	8YF.156.011.1	1
7	垫板 (4.0) Plate(4.0)	5YF.234.014	1
8	杆焊接 (红球手柄)	8YF.161.055	1
9	弯板 (055) Curved plate(055)	8YF.188.010	1
10	端帽 End cap	8YF.017.010	1
11	镀锌沉头螺钉 M5×20	GBT819.1	1
12	销 (联锁机构) Pin	8YF.10.290	2
13	支座 (021)	8YF.043.021	1
14	压簧	8YF.282.020	1
15	压簧	8YF.282.021	1
16	发黑弹性销 $\varnothing 4 \times 20$	GBT879.1	1
17	杆 (012)	8YF.200.012	1
18	弯板 (054)	8YF.161.054	1
19	发黑弹性销 $\varnothing 3 \times 18$	GBT879.1	1

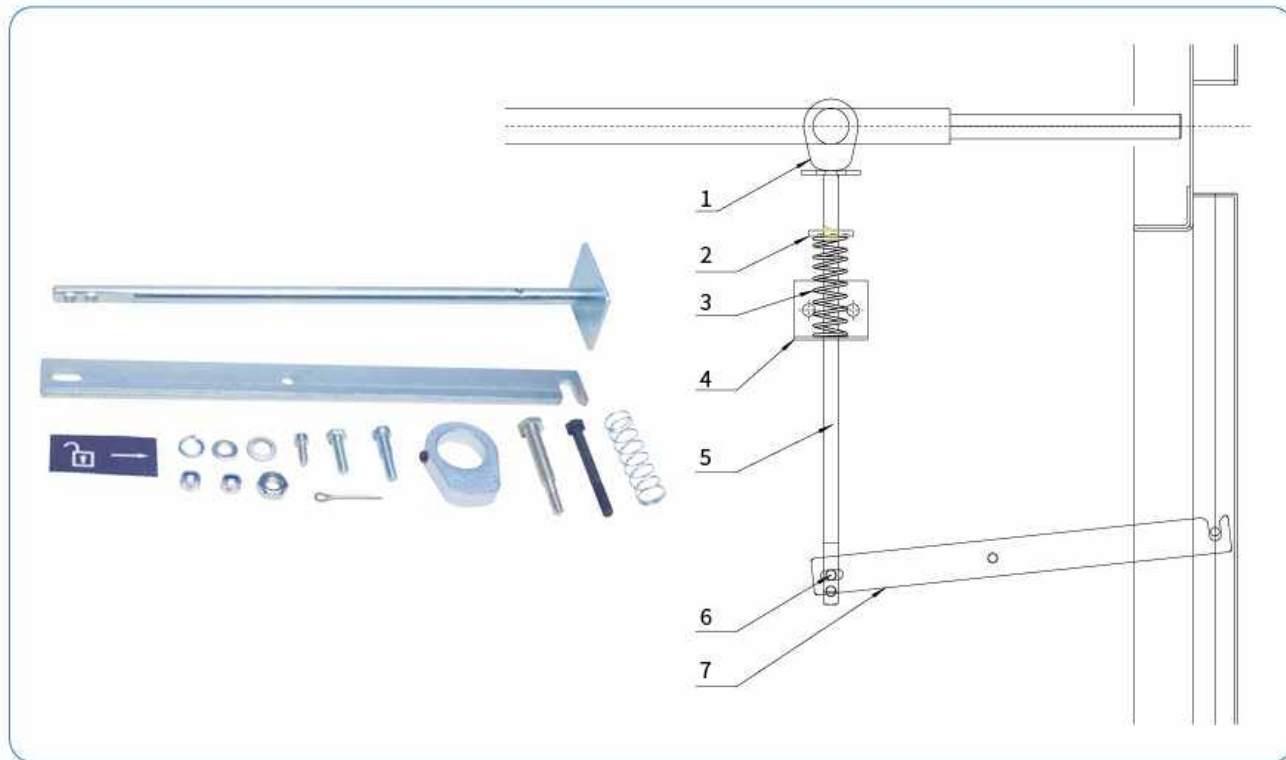
◇ 新型联锁机构 (5YF.239.010.2) 示意图

- Schematic diagram of a new interlocking mechanism (5YF.239.010.2)

说明 Introduction

该机构经我公司改进后, 能满足在接地刀分闸时, 无法打开前下门, 必须合闸接地刀才可打开前下门, 从而保证人身安全。

After improvement by our company, this mechanism can meet the requirement that when the grounding switch is opened, the front lower door cannot be opened, and the grounding switch must be closed before the front lower door can be opened, thus ensuring personal safety.



◇ 新型联锁机构 (5YF.239.011) 配套表

- Supporting Table for New Interlocking Mechanism (5YF.239.011)

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	套 Sleeve	11YF.04.232	1
2	开口销 Cotter pin	∅ 3*25	1
3	压簧 Compress spring	8YF.282.021	1
4	支架 Support	11YF.04.236	1
5	平头杆 Flat-head bolt	11YF.04.230	1
6	螺杆 Bait	11YF.04.234	1
7	板 Plate	11YF.04.233	1

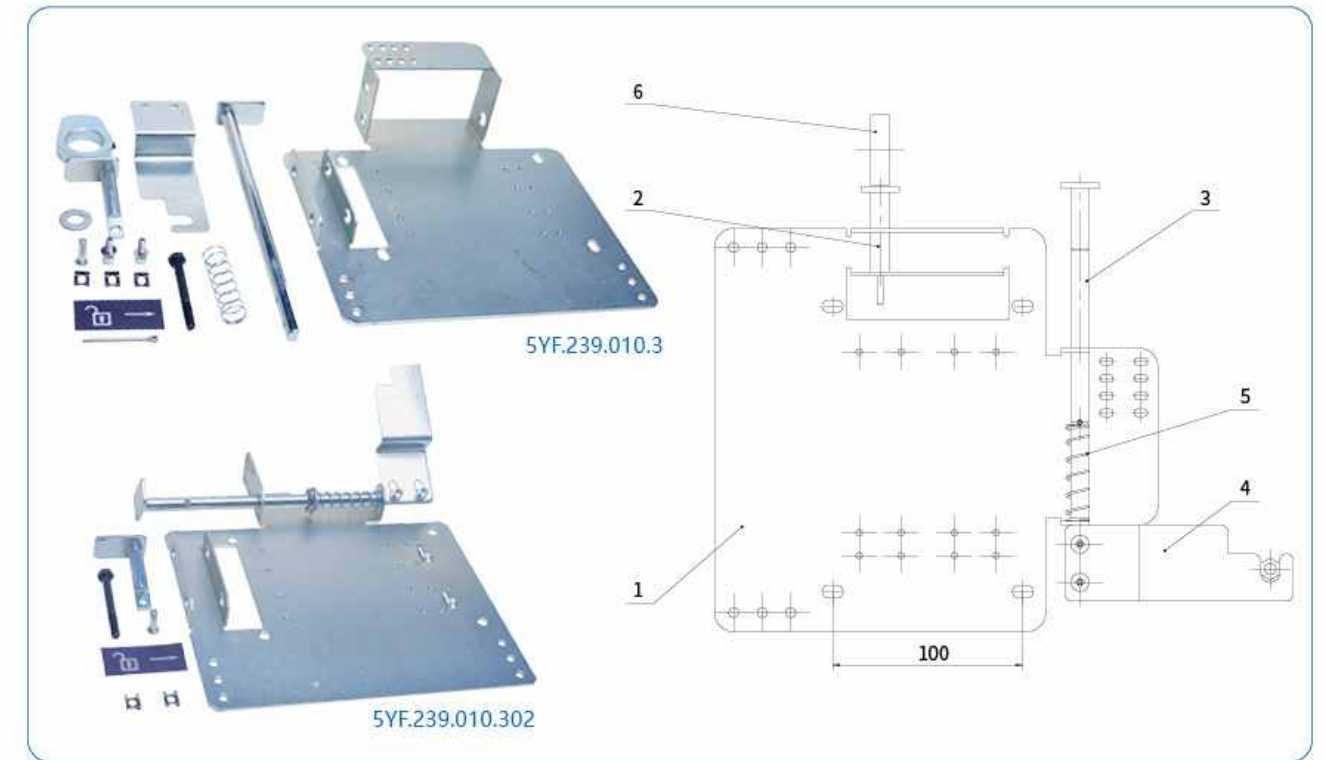
◇ 联锁机构 (5YF.239.010.3) 示意图

- Schematic diagram of interlocking mechanism (5YF.239.010.3)

说明 Introduction

该机构经我公司改进后, 能满足在接地刀分闸时, 无法打开前下门, 必须合闸接地刀才可打开前下门, 从而保证人身安全。

After improvement by our company, this mechanism can meet the requirement that when the grounding switch is opened, the front lower door cannot be opened, and the grounding switch must be closed before the front lower door can be opened, thus ensuring personal safety.



◇ 联锁机构 (5YF.239.010.3) 配套表

- Interlocking mechanism (5YF.239.012) supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	弯板焊接 Angle block welding	5YF.1411.0703	1
2	辅助杆焊接 Auxiliary rod welding	5YF.1411.0701	1
3	压杆焊接 Pressure lever welding	5YF.1411.0702	1
4	勾板 Hooking plate	8YF.1411.0704	1
5	压簧 Compressed spring	8YF.1411.0710	1
6	套 Set	8YF.04.232	1



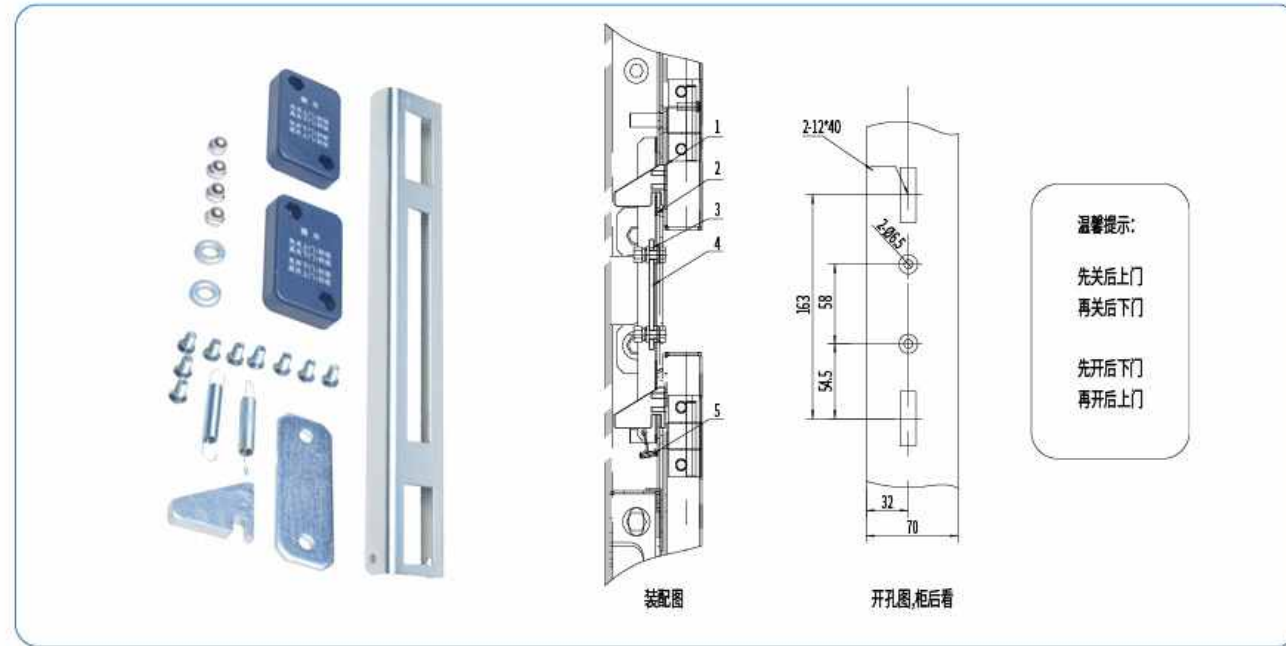
### ◇ 后门联锁 8YF.1508.0100 示意图

- Schematic diagram of rear door interlocking 8YF.1508.0100

#### 说明 Introduction

本联锁机构在常规后下门压后上门的基础上经我司加以改进而来，关门时：必须先关后上门，再关后下门，开门时：必须先开后下门，再开后上门。此联锁灵活可靠，强度高。使用此联锁柜体更美观。

This interlocking mechanism has been improved by our company on the basis of the conventional rear door pressing and rear door opening. When closing the door, it must be closed first before the door is opened, and then the door is closed. When opening the door, it must be opened first before the door is opened, and then the door is opened before the door is opened. This interlocking is flexible and reliable, with good strength. The use of this interlocking cabinet is more aesthetically pleasing.



### ◇ 后门联锁 8YF.1508.0100 配套表

- Rear door interlocking 8YF.1508.0100 supporting table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	触板 Touch plate	8YF.1508.0103	2
2	滑板 Sliding plate	8YF.1508.0105	1
3	垫圈 Washer	8YF.1508.0102	2
4	背板 Back plate	8YF.1508.0101	1
5	拉簧 Tension Spring	8YF.1508.0106	2

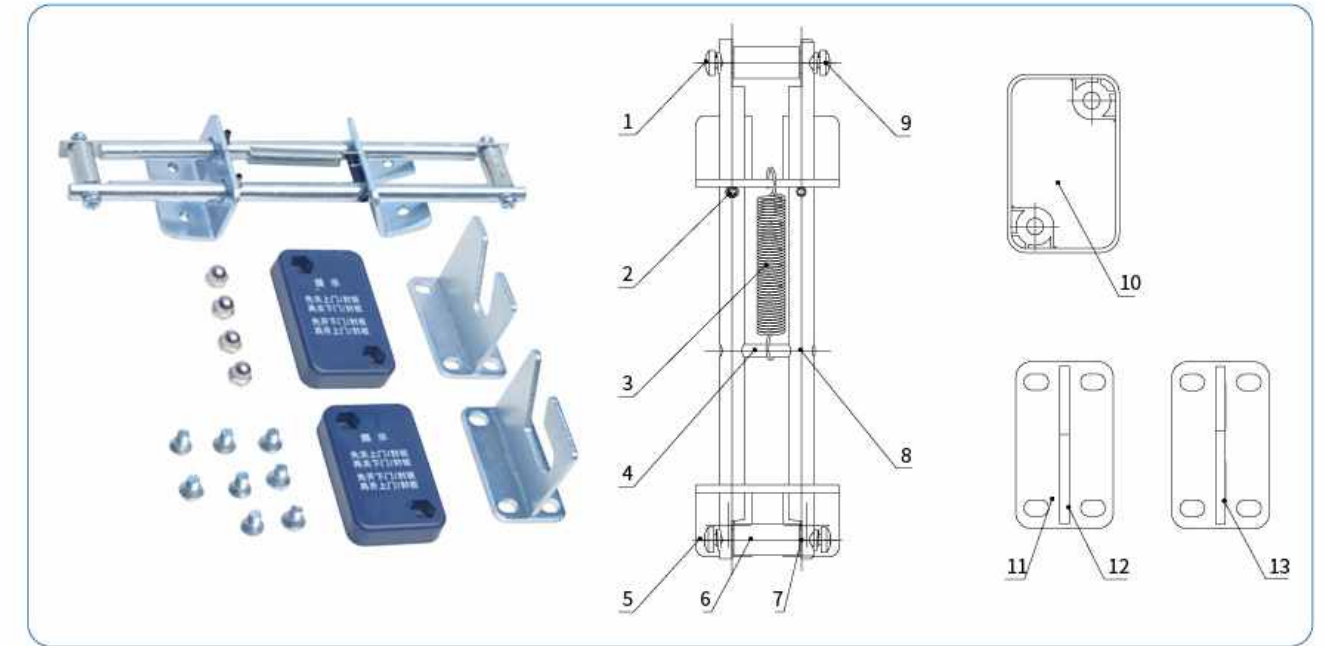
### ◇ 后门联锁 (二) 8YF.1508.0100.2 示意图

- Rear door interlocking (II) 8YF.1508.0100.2 schematic diagram

#### 说明 Introduction

本联锁机构在常规后下门压后上门的基础上经我司加以改进而来，关门时：必须先关后上门，再关后下门，开门时：必须先开后下门，再开后上门。此联锁灵活可靠，强度高。使用此联锁柜体更美观。

This interlocking mechanism has been improved by our company on the basis of the conventional rear door pressing and rear door opening. When closing the door, it must be closed first before the door is opened, and then the door is closed. When opening the door, it must be opened first before the door is opened, and then the door is opened before the door is opened. This interlocking is flexible and reliable, with good strength. The use of this interlocking cabinet is more aesthetically pleasing.



### ◇ 后门联锁 (二) 8YF.1508.0100.2 配套表

- Rear Door Interlock (II) 8YF.1508.0100.2 Supporting Table

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	盖形螺母 M5 Capnut	GB/T 923-88	4
2	沉头螺丝 M5×10 Sink bolts	GB/T70.3-2000	8
3	下锁扣勾板 Lower latch	8YF.1605.1702	1
4	上锁扣勾板 upper latch	8YF.1605.1703	1
5	锁扣底板 latch plate	8YF.1605.1701	2
6	塑料盖板 plastic cover	8YF.1605.1708	2
7	弹垫 :M4.0×1.1 washer	GB/T93-1987	4
8	导向轴 guide shaft	8YF.1605.1707	2
9	轴 shaft	8YF.1605.1705	2
10	套 sleeve	8YF.1605.1706	2
11	支架 support	8YF.1605.1704	2
12	弹性圆柱销 M4.0×30.0 Elastic pin	GB/T879.1-2000	1
13	拉簧 Spring	8YF.1605.1709	1
14	弹性圆柱销 M3.0×16.0 Elastic pin	GB/T879.1-2000	2
15	螺钉 (Bolt): 盘头 (PAN HEAD)-M4.0×10.0	GB/T818-2000	4



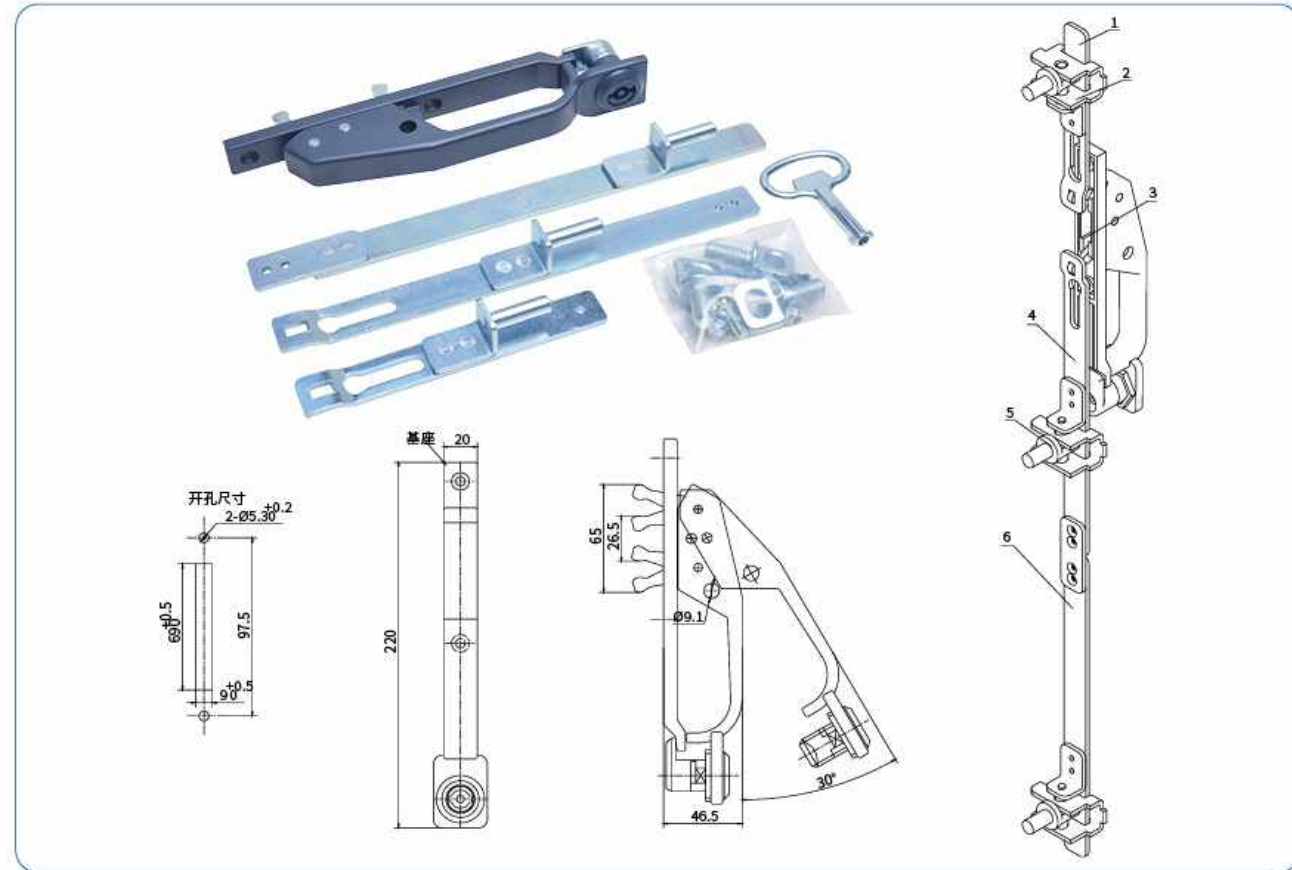
◇ 快开锁装置 (5YF.1606.8010) 示意图

- Schematic diagram of quick release lock device (5YF.1606.8010)

说明 Introduction

适用于各种新版中置柜柜体中高档推拉门，配电柜等拉手联锁装置，从而进一步提高柜门的封闭等级和强度。

Suitable for various high-end sliding doors, power distribution cabinets, and other handle interlocking devices in new versions of central cabinets, thereby further improving the sealing level and strength of cabinet doors.



◇ 快开锁装置 (5YF.1606.8010) 配套表

- Supporting table for quick release lock device (5YF.1606.8010)

序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	上锁条铆接 Upper locking riveting	5YF.1606.8001	1
2	支架 support	客户自制焊接门板上 customized welding door plate	3
3	锁把 lock handle	8YF.1606.8009	1
4	中锁条铆接 medium locking riveting	5YF.1606.8004	1
5	锁扣 latch	8YF.1606.8008	3
6	下锁条铆接 Under locking riveting	5YF.1606.8006	2

底盘车系列

Chassis Car Series

◇ DPC 底盘车型号含义 · Meaning of DPC chassis model number



用途及功能 Introduction

底盘车主要用于抽出式开关设备中承装断路器、互感器等元器件，将其推进及退出，作为元器件与母线连接的辅助操作。底盘车与断路器的内部机构及中置柜其它联锁机构配合工作时，能满足 GB3906 中的“五防”联锁要求，具体功能如下：

The chassis car is mainly used for installing circuit breakers, transformers and other components in withdrawable switchgear, pushing them in and out, and serving as an auxiliary operation for connecting the components to the busbar. When the chassis car cooperates with the internal mechanism of the circuit breaker and other interlocking mechanisms of the central cabinet, it can meet the "Five prevention" interlocking requirements in GB3906. The specific functions are as follows:

1. 手车只有处于试验 / 隔离或工作位置时，断路器才能合闸，而断路器合闸后，手车便无法移动，从而防止了带负荷误接误合隔离触头的情况的发生。
2. 手车在工作位置或离开试验 / 隔离位置 10mm 左右，接地开关便无法合闸，防止带电误合接地开关。
3. 接地开关合闸时，手车不能从试验 / 隔离位置移向工作位置，防止接地开关合闸位置时关合断路器。
4. 底盘车进入柜内后，一旦离开试验隔离位置，手车就无法从柜内抽出。

◇ DPC - □ - □ 底盘车订货须知 · DPC - □ - □ Chassis vehicles must be ordered as follows

1. 注明底盘车型号、锁板代号、辅助开关规格 (例：五常开、三开二闭等)；
2. 注明接地方式；
3. 如有特殊要求，请与我厂协商解决。

注：辅助开关规格是指辅助开关本身的规格，不是指底盘车处于试验位置时辅助形状的状态。  
Note: The specifications of the auxiliary switch refer to the specifications of the auxiliary switch itself. It does not refer to the state of the auxiliary shape when the chassis vehicle is in the test position.

◇ 底盘车配置的锁板 · Lock plate for chassis configuration

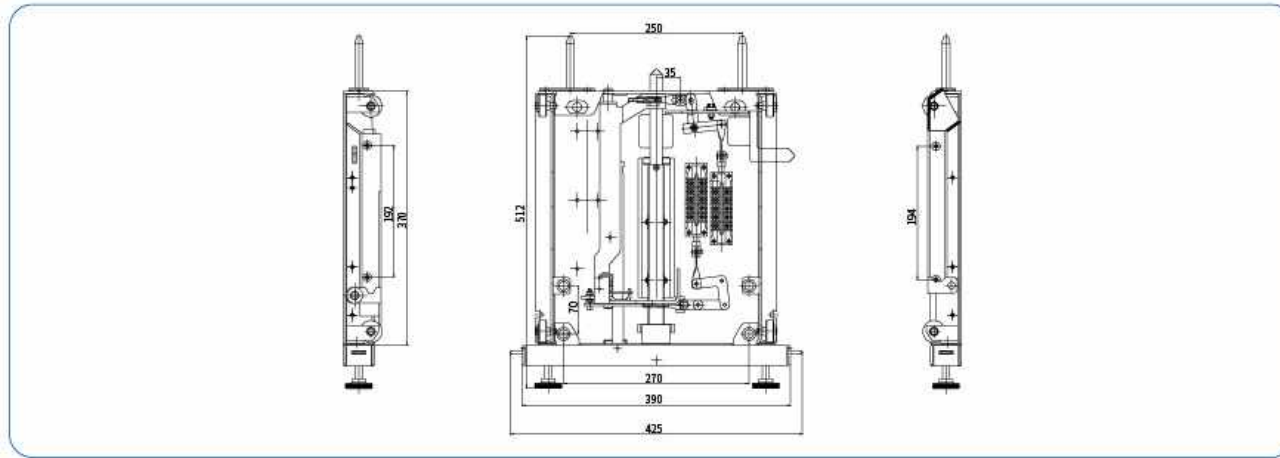


注：DPC 底盘车有五种锁板供选用，常规配 8YF.141.012 若需配另四种锁板，请在订货时说明。  
Note: There are five types of lock plates available for DPC chassis cars, and 8YF.141.012 is a regular option. If you need another four types of lock plates, please specify them when ordering.

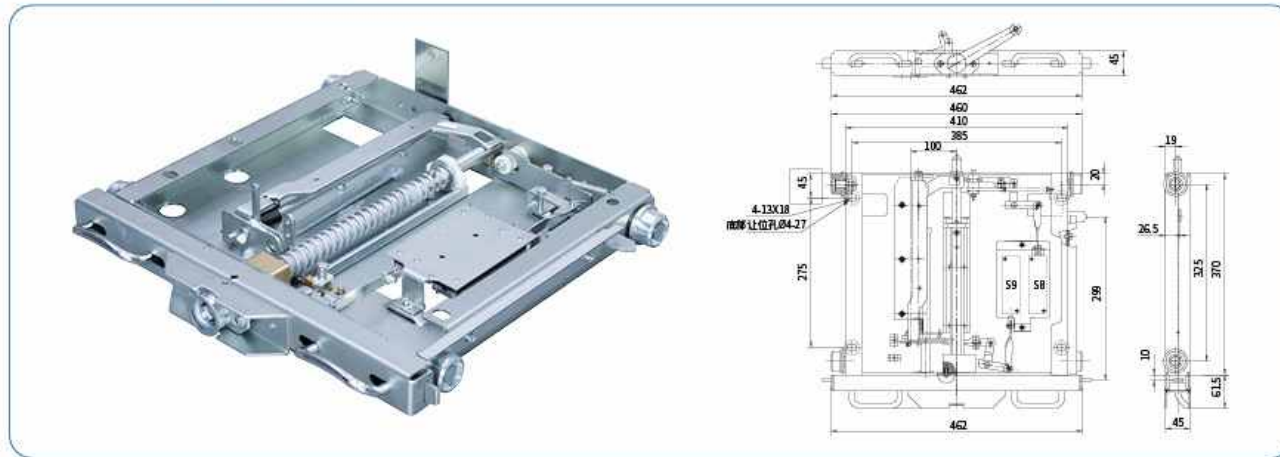


◇ 底盘车外形及安装尺寸 · Chassis appearance and installation dimensions

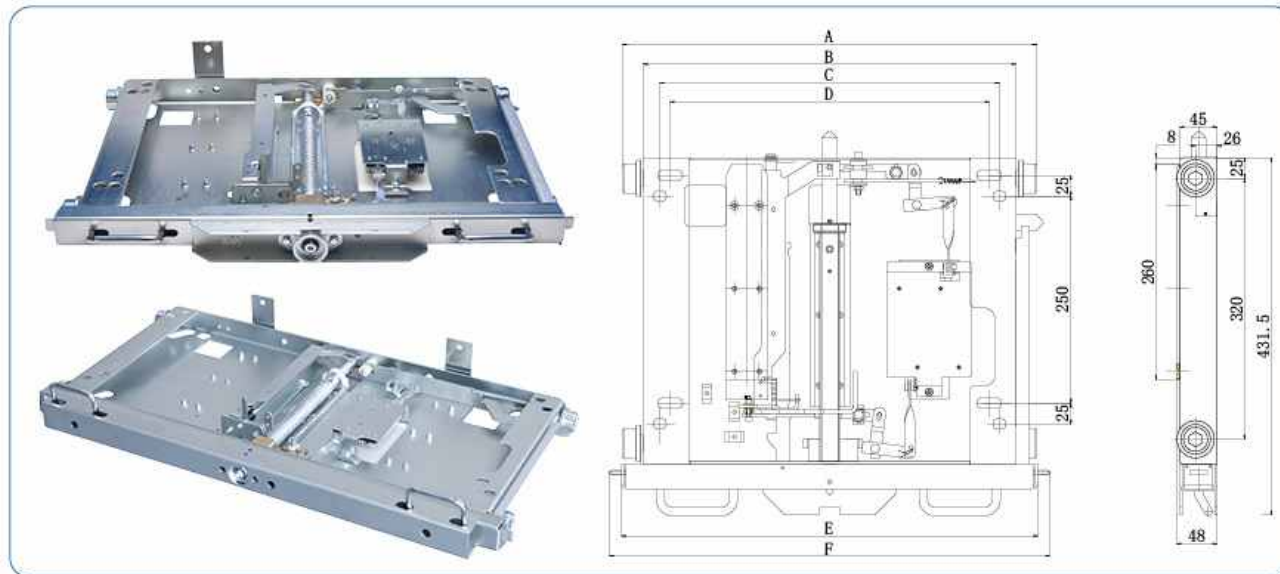
一、DPC-4A-450 底盘车外形及安装尺寸 DPC-4A-450 chassis vehicle appearance and installation dimensions



二、DPC-4A-550 底盘车外形及安装尺寸 DPC-4A-550 chassis vehicle appearance and installation dimensions



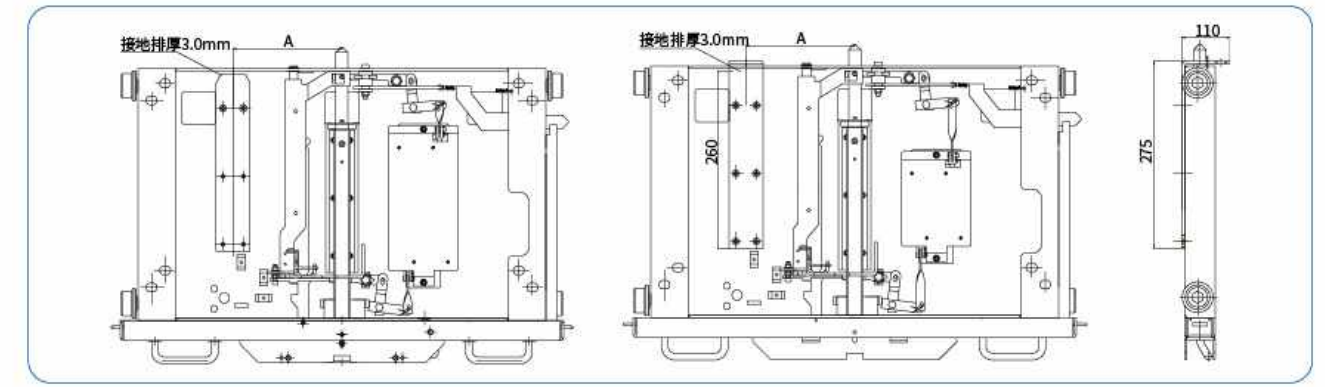
三、DPC-4/4A-□ 底盘车型号及安装尺寸 DPC-4/4A - □ Chassis model number and installation dimensions



产品型号 Model	A	B	C	D	E	F
DPC-4-650	500	450	410	385 13x30	502	535
DPC-4A-650						
DPC-4-800	650	600	560	520	652	685
DPC-4A-800						
DPC-4-1000	850	800	760	720	852	885
DPC-4A-1000						

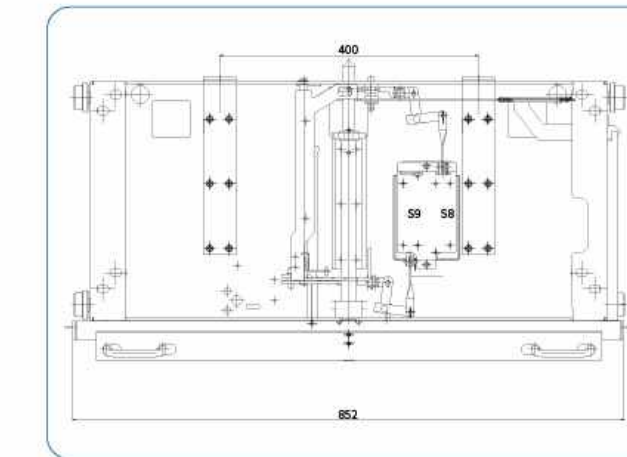
四、底盘车接地方式 Grounding method of chassis vehicle

(1) 接地排安装尺寸 (650/800)  
Installation size of grounding bar



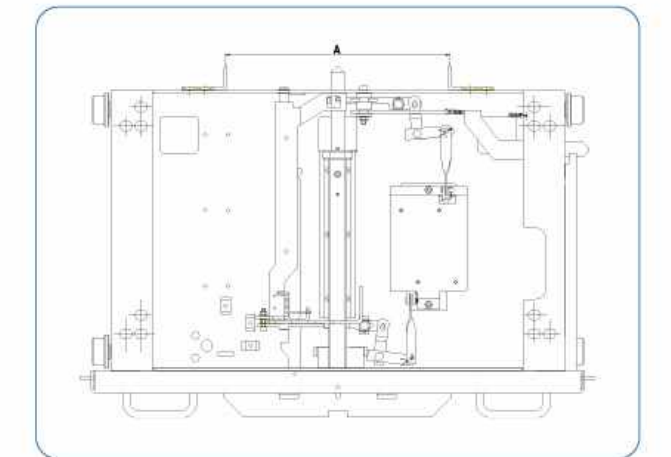
型号 Model	A
DPC- □ -650	100
DPC- □ -800	160

(2) 接地排安装尺寸图 (1000 型)  
Grounding Bar Installation Dimensional Drawing (1000 Type)



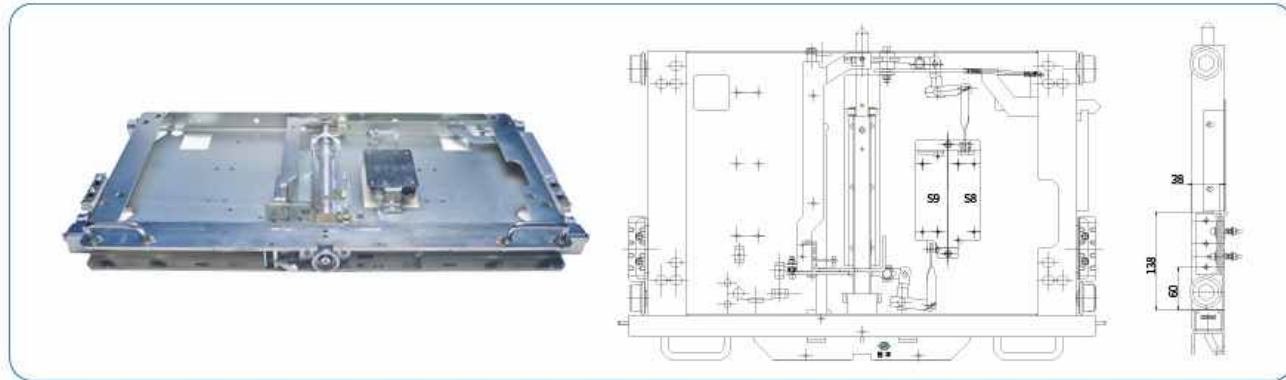
型号 Model	A
DPC- □ -650	180
DPC- □ -800	296
DPC- □ -1000	496

(3) 接地触头安装尺寸图  
Installation dimension diagram of grounding contact

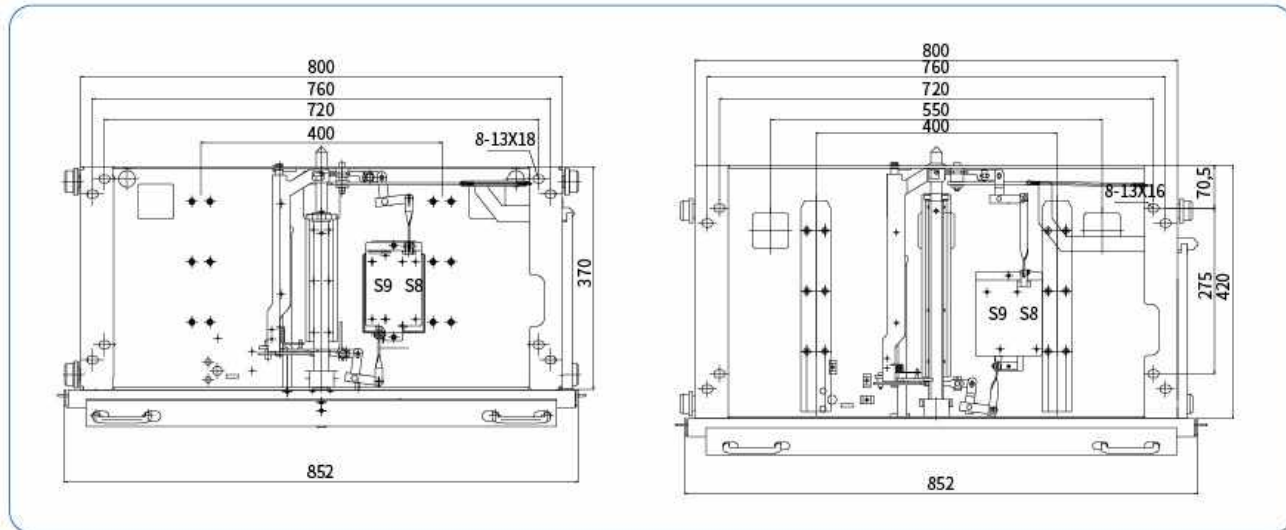




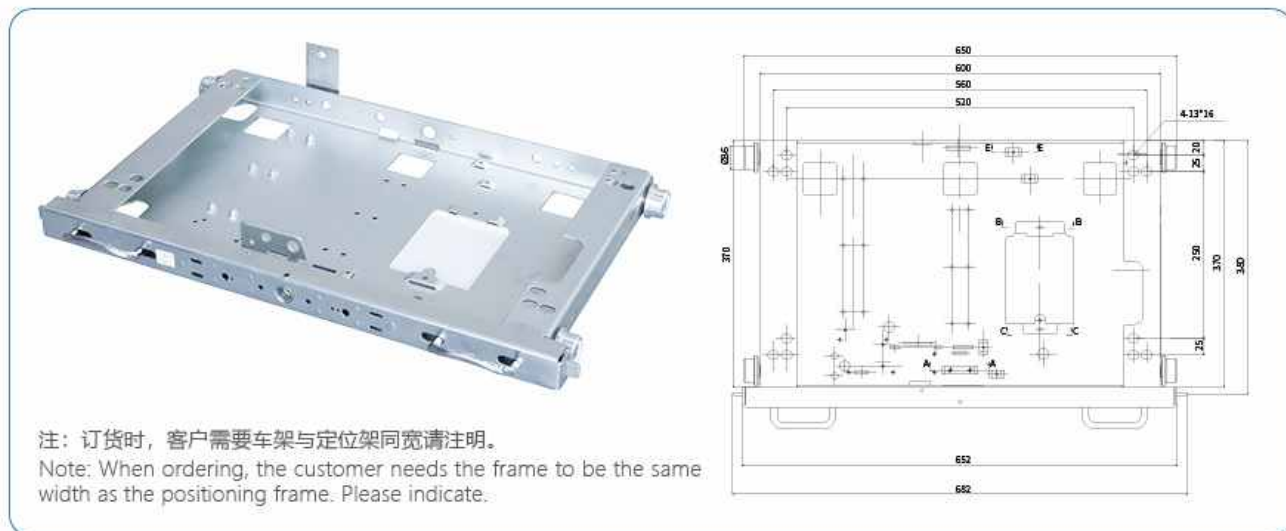
(4) 导轨接地 (两侧接地) Guide rail grounding (grounding on both sides)



五、DPC-4/4A-1000/24kV 底盘车型号及安装尺寸 DPC-4/4A-1000/24kV chassis model number and installation dimensions



六、DPC-4-800/XC2 底盘车 (下层用) 外形及安装尺寸 DPC-4-800/XC2 chassis vehicle (for lower layer) appearance and installation dimensions



七、DPC-□-□/G/S 底盘车



DPC 底盘车中门联锁功能:

- a、DPC-□-□/G 底盘车  
该型号底盘车仅增加关门操作功能, 也就是当柜门打开时, 不能插上手柄摇动底盘车, 只有关上柜门才能摇, 该联锁功能不需改动柜门。
- b、DPC-□-□/ S 底盘车  
该型号底盘车在 a 项基础上又增加锁门功能, 也就是当手车离开试验位置后, 柜门被锁住, 不能打开, 只有退到试验位置, 柜门才能打开, 该联锁功能需改动柜门。

DPC chassis door interlock function:

- a. DPC - □ - □ /G chassis vehicle This model of chassis car only adds a door closing operation function, which means that when the cabinet door is opened, the handle cannot be inserted to shake the chassis car. It can only be swung when the door is open, and this interlocking function does not need to change the cabinet door.
- b. DPC - □ - □ /S chassis vehicle On the basis of item a, this model of chassis vehicle has added a locking function, which means that when the handcart leaves the test position, the cabinet door is locked and cannot be opened. Only when it returns to the test position can the cabinet door be opened, and this interlocking function needs to be modified.

八、DPC-□-□/ H 底盘车



DPC-□-□/ H 底盘车及开孔示意图

该型号低配置可以实现两台或两台以上底盘车之间互锁, 即当一台底盘车在工作位置时, 另一台无法摇到工作位置, 适用于双电源柜的机械联锁。用户只需在柜门上开两个让位孔。

推荐尺寸:  $\Phi 30$

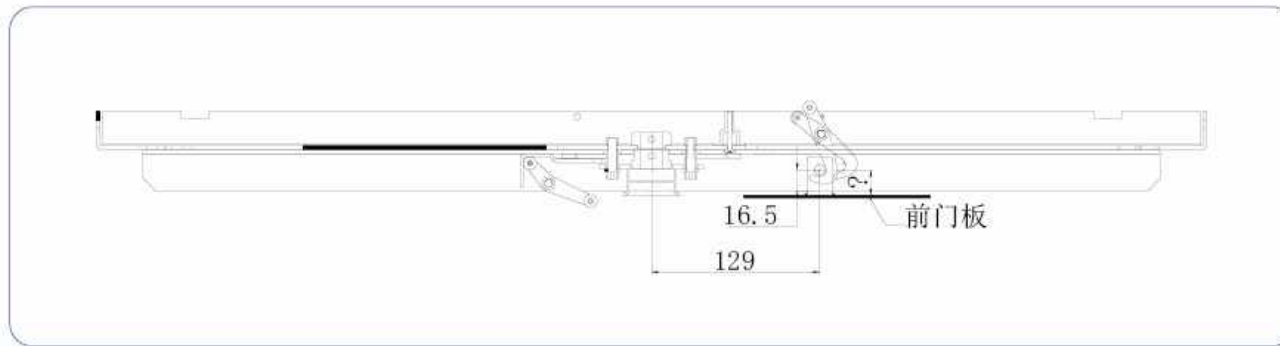
DPC-□-□/ H chassis vehicle and hole schematic diagram

The low configuration of this model can achieve interlocking between two or more chassis vehicles. When one chassis vehicle is in the working position, the other cannot be swung to the working position, suitable for mechanical interlocking of dual power cabinets. Users only need to open two clearance holes on the cabinet door.

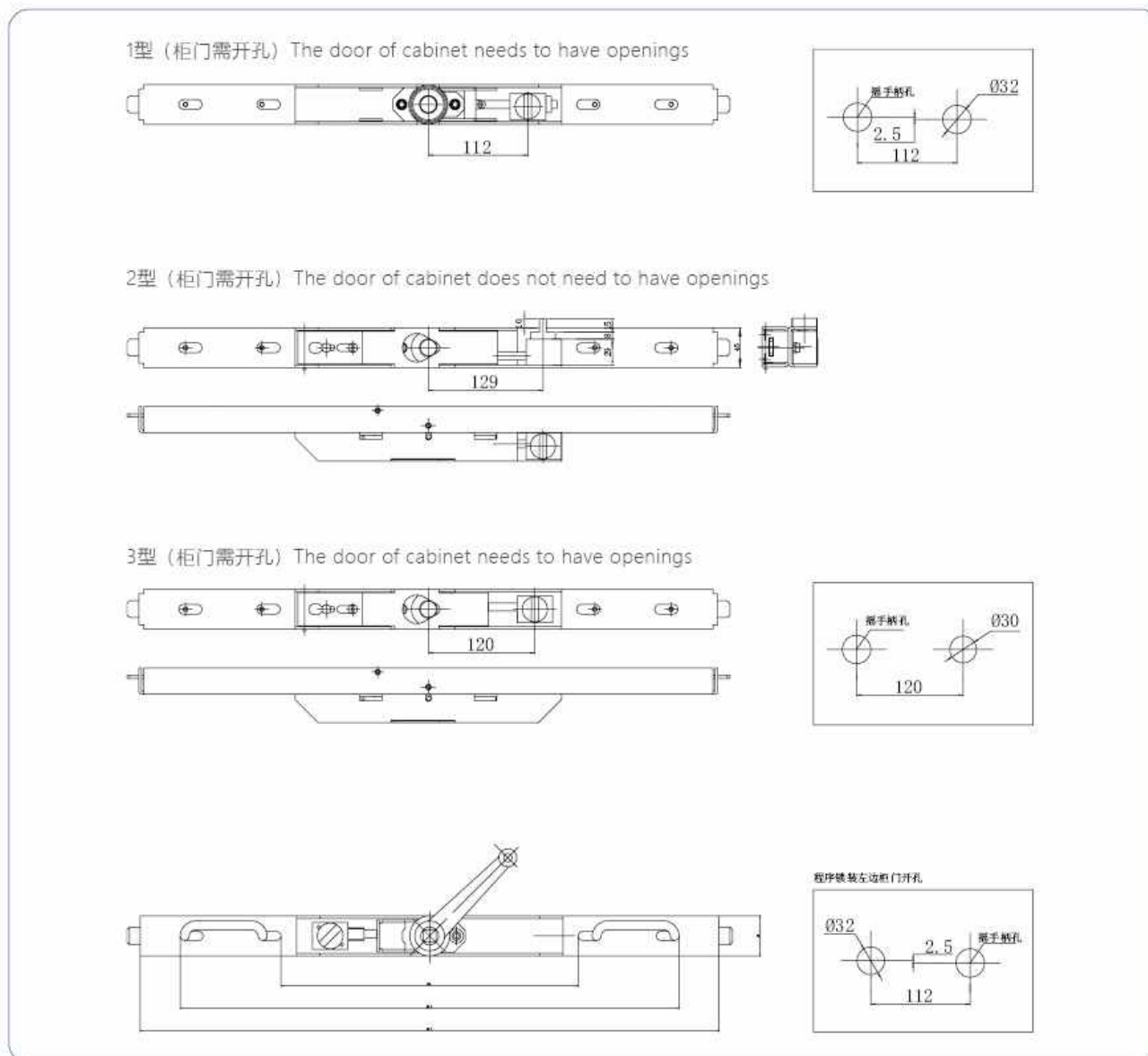
Recommended size:  $\Phi 30$



◇ 中门联锁装配示意图 Schematic diagram of middle door interlocking assembly



◇ 程序互锁底盘车 (二进一联锁装置)  
- Program interlocking chassis vehicle (two in one interlocking device)



◇ DDPC-4-800 电动底盘车  
- DDPC-4-800 electric chassis vehicle

为适应电力开关设备的发展，满足电力部门的这一新需求，我公司开发了电动底盘车，填补了国内空白。已取得了国家发明专利。为了保持中置柜原有使用底盘车的风格，该电动底盘车在原来的底盘车 650#、800#P000#、24kV# 系列上增加了电动机构，保持原有底盘车的特性，实现了底盘车工作位置和试验位置的电动操作。电动操作和手动操作不需要切换。满足了电力系统的程序化操作的需求。

In order to adapt to the development of power switchgear and meet the new demand of the power sector, our company has developed electric chassis vehicles, filling the domestic gap and has obtained a national invention patent. In order to maintain the original style of using chassis cars in the central cabinet, this electric chassis car has added electric mechanisms to the original series of chassis cars 650 #, 800 # P000 #, and 24kV #, maintaining the characteristics of the original chassis car and achieving electric operation of the working and testing positions of the chassis car. There is no need to switch between electric operation and manual operation. It meets the needs of programmed operation in the power system.

概述 Introduction

底盘车控制器可实现对电动机构的控制和保护，控制器可在电动机构驱动电机运转受阻（如安装不到位或机构卡死）达到保护条件时立即对电机制动，并逆向驱动电机解除闷车卡死状态。

The chassis vehicle controller can control and protect the electric mechanism, and the controller can immediately brake the motor when the operation of the electric mechanism's driving motor is blocked (such as not installed in place or the mechanism is stuck), and reverse drive the motor to release the stuck state.

电机参数 Motor parameters

1. 电源电压 Power voltage: AC/DC220V. AC/DC110V
2. 电机额定电压 Rated motor voltage: DC220V. DC110V
3. 电机额定功率 Rated motor power: 200W
4. 电机额定扭矩 Rated motor torque: 260N/m
5. 电机转速 Motor rotation speed: 50r/min

技术参数 Technical parameters

电源电压 Power voltage: AC/DC 220V, AC/DC 110V  
电机额定电压 Rated motor voltage: DC220V. DC110V  
允许电机额定功率 Allow motor rated power: Max. 300W  
功耗 Power: <2W  
工频耐压 Power frequency withstand voltage: AC2.5kV 1min  
输出接点 Output contact: 1NO.3A AC 250V  
防护等级 Protection class: IP20  
工作环境温度 Operating ambient temperature: -20°C to +50°C  
尺寸: 外形尺寸: 长 \* 宽 \* 高 Dimensions: L\*W\*H=125\*78\*69  
安装方式 Installation: 柜门板安装 door panel installation

电动底盘车操作说明 Operating instructions for electric chassis vehicles

1. 只有当接地开关、断路器在分闸的状态下，才能允许底盘车摇入、摇出。
  2. 当底盘车带有手动优先功能时，手动操作状态下电动摇入摇出按钮按下无动作。
  3. 当底盘车自然状态下未在工作位置与试验位置时，如需电动操作摇入工作位置必须先将底盘车手动或电动摇入试验位置，然后再电动操作至工作位置。
  4. 电动操作过后手动操作时，需先将手柄插入旋转约 80°在回转约 30°
  5. 若出现底盘车手柄拉不动时，注意观察丝杆角度是否在正确位置。
  6. 若在电动操作过程中出现紧急情况需终止操作，或出现故障后已排除故障后，只需按下复位按钮即可。
1. Only when the grounding switch and circuit breaker are in the open state can the chassis vehicle be allowed to swing in and out.  
2. When the chassis vehicle is equipped with a priority function for movement, the electric rocking in and out button is pressed without action in the mode of movement operation.  
3. When the chassis is not in the working position and test position in State of nature, if it is necessary to manually or electrically shake the chassis into the working position, it must first be manually or electrically shaken into the test position, and then electrically operated to the working position.  
4. After electric operation, when performing manual operation, it is necessary to first insert the handle and rotate it by about 80°, and then rotate it by about 30°.  
5. If the chassis handle cannot be pulled, pay attention to observing whether the angle of the screw rod is in the correct position.  
6. If an emergency occurs during electric operation and the operation needs to be terminated, or if a fault has been resolved after the fault occurs, simply press the reset button.



### ◇ 底盘车控制说明

· Chassis vehicle control instructions

#### 控制逻辑 Control logic

- 1、联锁信号满足时才允许进行电动摇入/摇出操作。
  - 2、电动操作过程中，输入摇入/摇出指令，控制器仍执行原操作。
  - 3、电动操作过程中，同时按下面板摇入/摇出按钮，或联锁信号无效，控制器将停止操作。
  - 4、堵转保护条件满足，控制器在停止机构动作后将机构反转200ms；堵转保护电流整定值设定为摇入前15s设定为1.2A；15s后设定为4A；摇出过程前7s设定为4A，7s后设定为1.2A。
  - 5、电动摇入/摇出操作限时80s，操作限时到达后未到位需停机报警。
1. Only when the interlocking signal is met can the electric swing in and out operation be allowed.
  2. During the electric operation process, the controller still executes the original operation when the input shake in/shake out command is input.
  3. During electric operation, if the panel swing in/out button is pressed simultaneously, or the interlocking signal is invalid, the controller will stop operation.
  4. The blocking protection condition is met, and the controller reverses the mechanism for 200ms after stopping the action of the mechanism; The setting value of the locked-rotor protection current is set to 1.2A 15 seconds before shaking in; Set to 4A after 15 seconds; Set it to 4A 7 seconds before the shaking process, and set it to 1.2A 7 seconds later.
  5. The electric swing in/out operation time limit is 80 seconds, and if the operation time limit is not reached, it needs to stop and alarm.

### ◇ 接地开关控制说明

· Grounding switch control instructions

#### 控制逻辑 Control logic

- 1、联锁信号满足时才允许进行电动分合闸操作。
  - 2、分合闸操作过程中，输入分合闸指令，控制器仍执行原操作。
  - 3、分合闸操作过程中，同时按下面板分/合闸按钮，或联锁信号无效，控制器将停止操作。
  - 4、堵转保护条件满足，堵转保护电流整定值设定为1A
  - 5、电动分，合闸操作限时12s，操作限时到达后未到位需停机报警。
1. Electric opening and closing operation is only allowed when the interlocking signal is met.
  2. During the opening and closing operation, when the opening and closing command is input, the controller still executes the original operation.
  3. During the opening and closing operation, if the opening/closing button on the lower panel is pressed simultaneously, or the interlocking signal is invalid, the controller will stop the operation.
  4. The conditions for locked rotor protection are met, and the current setting value for locked rotor protection is set to 1A
  5. The electric opening and closing operation is limited to 12 seconds, and when the operation limit is reached, the machine needs to stop and alarm when it is not in place.

#### 注意事项 Points for attention

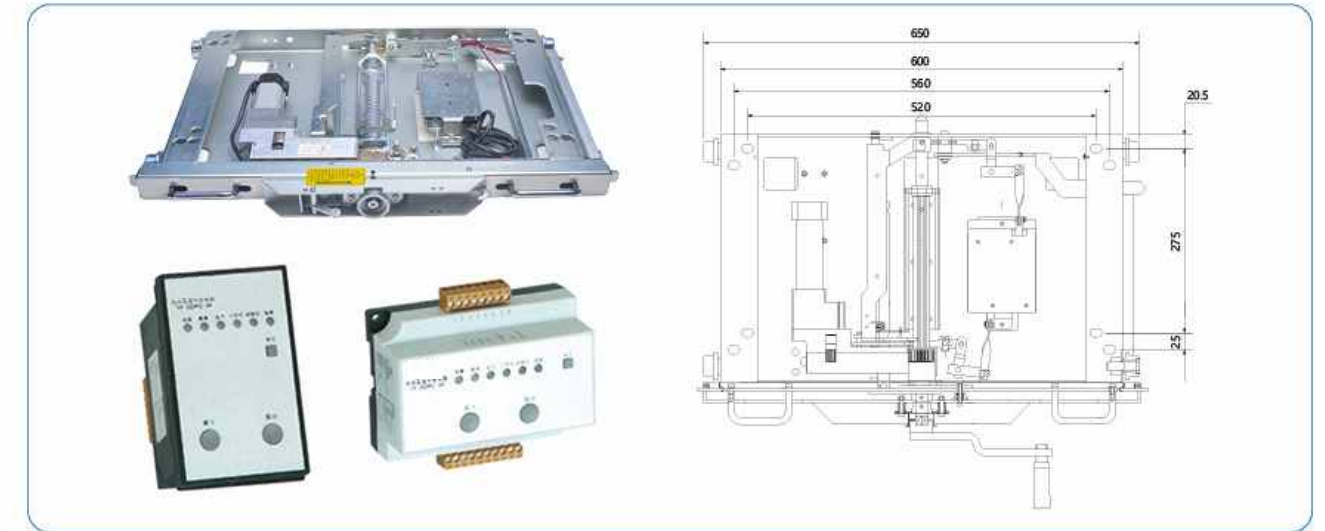
- 1、16、17 接点处行程开关为手车 S9、S8 辅助开关只需将控制器接点接入 S9、S8 对应接点即可。
  - 2、控制器在电动操作过程中，如出现报警灯常亮时按下复位按钮即可。
  - 3、电机接线时注意电机正负极位置
  - 4、远方摇入、摇出也可与微机保护装置配合使用。
  - 5、远方模式与就地模式工作时只能存在一种模式任何一种模式接通后相对应的其他模式不能工作。
  - 6、电动操作时若手车未在试验位置时需先将手车摇出至试验位置后，电动操作才能摇入至工作位置。
1. 16. The travel switch at contact 17 is a handcart S9 and S8 auxiliary switch. Simply connect the controller contact to the corresponding contact of S9 and S8.
  2. During the electric operation of the controller, if the alarm light remains on, press the reset button.
  3. When wiring the motor, pay attention to the position of the positive and negative poles of the motor
  4. Remote input and output can also be used in conjunction with microcomputer protection devices.
  5. When working in remote mode and local mode, there can only be one mode. After either mode is connected, the corresponding other modes cannot work.
  6. If the handcart is not in the test position during electric operation, it needs to be shaken out to the test position before electric operation can be carried out to the working position.

#### 注意事项 Points for attention

- 1、29、30 接点处行程开关为接地开关本体开关只需将控制器接点接入本体对应接点即可。
  - 2、控制器在分合闸操作过程中，如出现报警灯常亮时按下复位按钮即可。电机接线时注意电机正负极位置。
  - 3、远方分闸、合闸也可与微机保护装置配合使用。
  - 4、远方模式与就地模式工作时只能存在一种模式任何一种模式接通后相对应的其他模式不能工作。
1. The travel switch at contacts 29 and 30 is a grounding switch. The switch only needs to connect the controller contact to the corresponding contact of the body.
  2. During the opening and closing operation of the controller, if the alarm light remains on, press the reset button. When wiring the motor, pay attention to the position of the positive and negative poles of the motor.
  3. Remote opening and closing can also be used in conjunction with microcomputer protection devices.
  4. When working in remote mode and local mode, there can only be one mode. After any two modes are connected, the corresponding other modes cannot work.

### ◇ DDPC-4-800 电动底盘车外形及安装尺寸

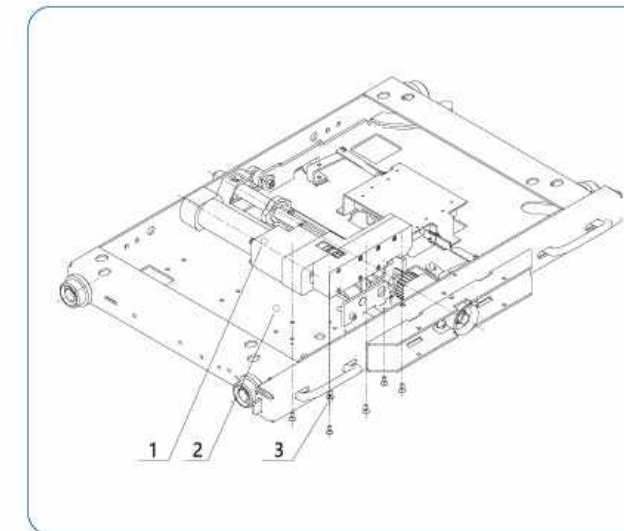
· Appearance and installation dimensions of DDPC-4-800 electric chassis vehicle



注：安装开孔尺寸与安装方式均与常规相同当接入电源为 AC/DC 110V 时请提前注明或通知  
Note: The installation hole size and installation method are the same as usual. When the power supply is AC/DC 110V, please indicate or notify in advance

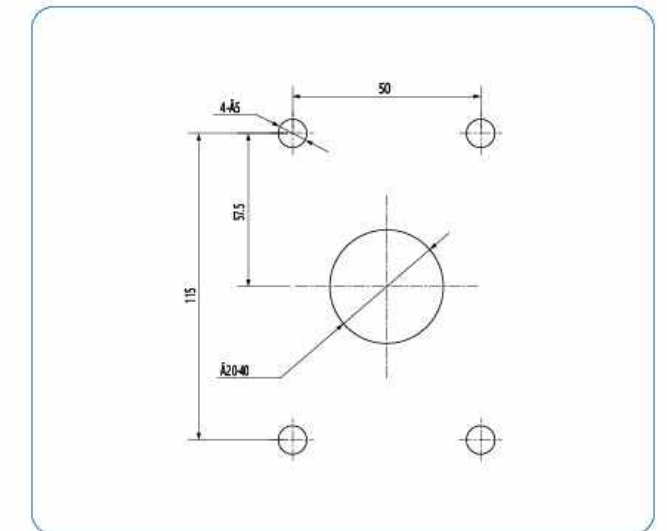
### ◇ 电动底盘车装配

· Electric chassis vehicle assembly



### ◇ 面板式控制器安装开孔尺寸

· Panel mounted controller installation hole size



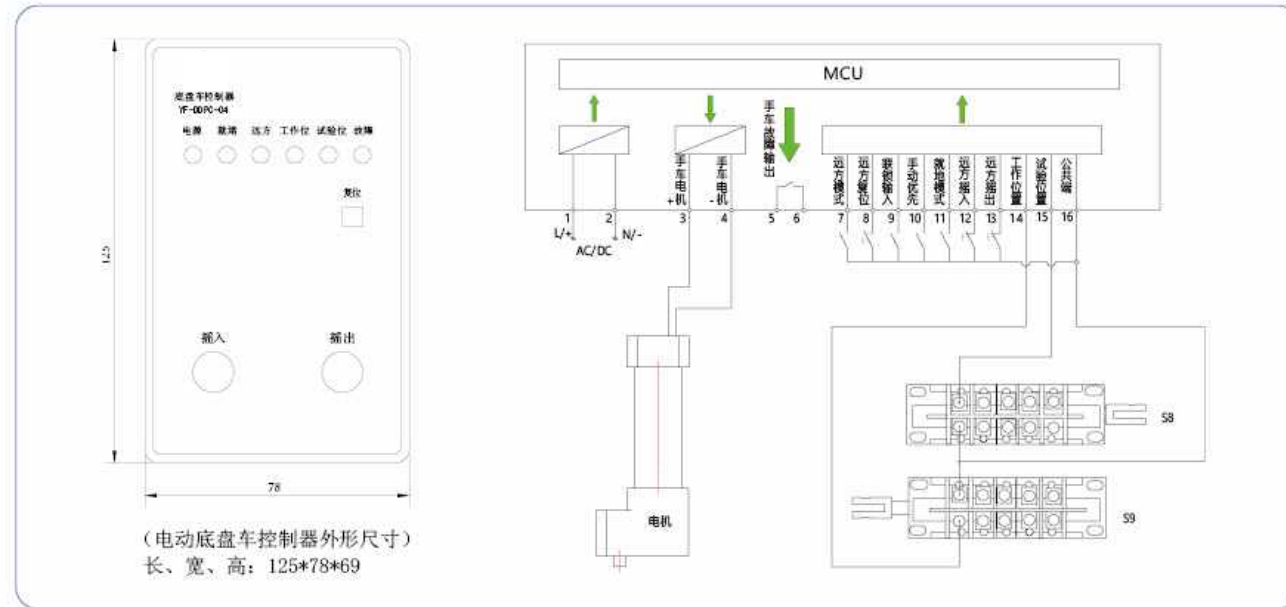
右图中的4个Φ5开孔为控制器在面板上的固定安装孔，Φ20-40孔用于通过控制器内部的连接电缆，该孔用于穿过控制器数据线，无严格的加工尺寸公差要求。

4 in the right image Φ 5 holes are fixed mounting holes for the controller on the panel, Φ 20-40 holes are used for connecting cables inside the controller, which are used to pass through the control chew data line without strict machining dimensional tolerance requirements.



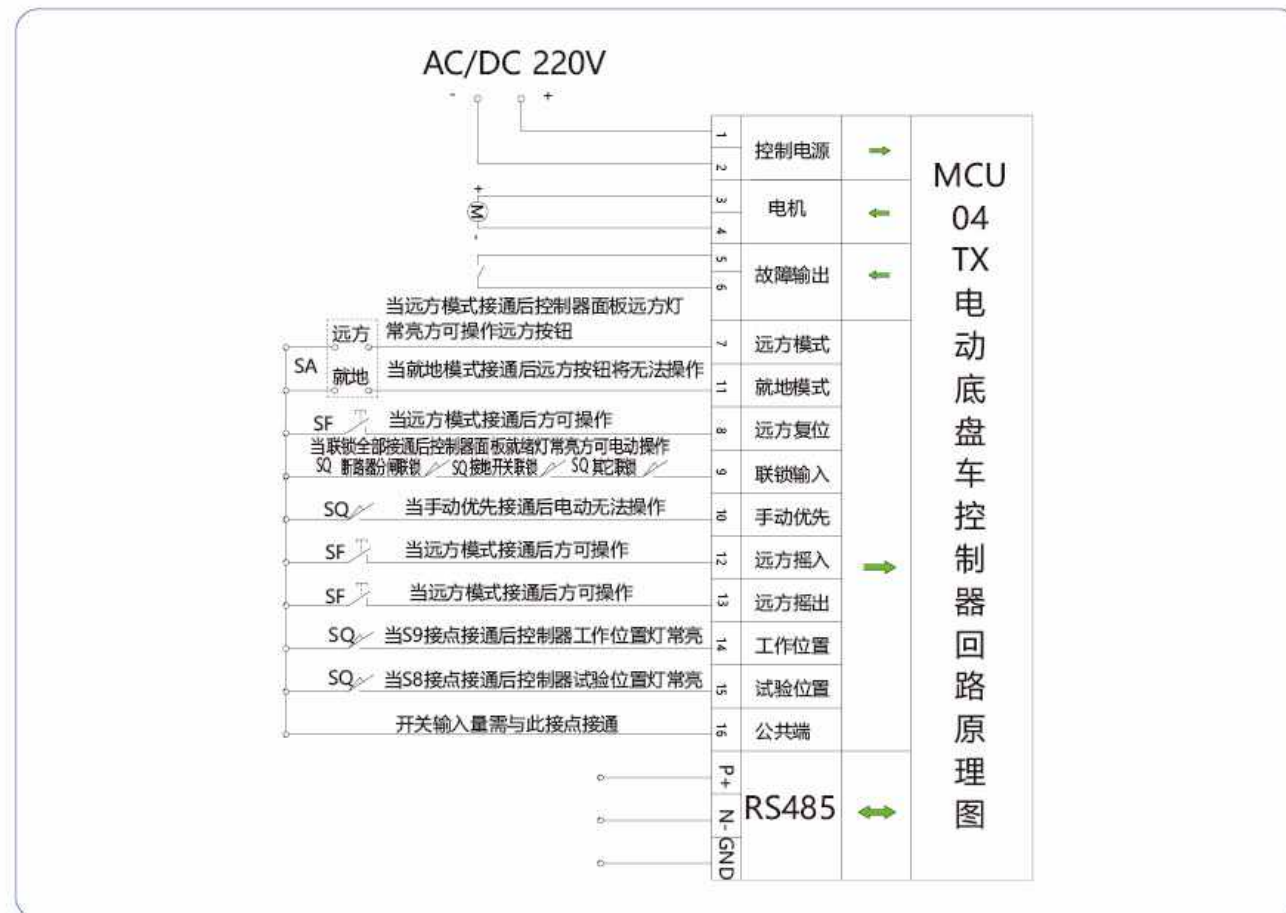
◇ 电动底盘车面板式控制器外形尺寸及接线图

Outline dimensions and wiring diagram of panel mounted controller for electric chassis vehicles



◇ MCU 04 TX 电动底盘车控制器回路原理图

MCU 04 TX Electric Chassis Vehicle Controller Circuit Schematic Diagram



◇ 控制器指示灯、按钮及触点使用说明

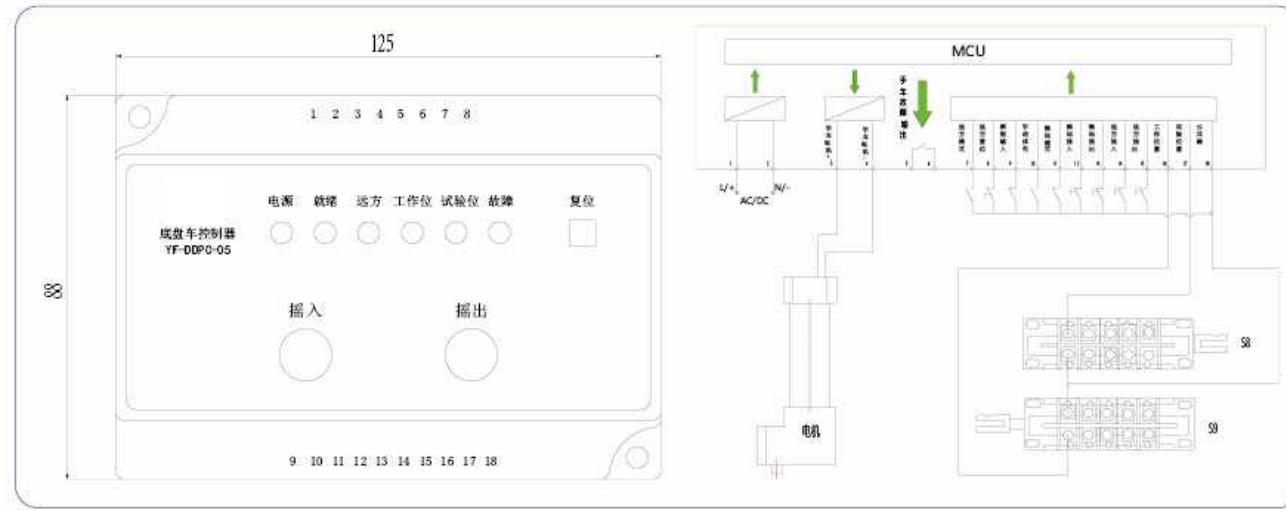
Instructions for using controller indicator lights, buttons, and contacts

按钮 button	插入 Shake in	控制器允许操作, 按下该按钮后: 1. 系统处于待机状态时将启动电机向工作位置运行; /2. 系统处于向工作位置运行中则不响应本次命令; The controller allows operation. After pressing this button: 1. When the system is in standby mode, it will start the motor to run towards the working position; 2. If the system is running towards the working position, it will not respond to this command
	摇出 Shake out	控制器允许操作, 按下该按钮后: 1. 系统处于待机状态时将启动电机向试验位置运行; /2. 系统处于向试验位置运行中则不响应本次命令。 The controller allows operation. After pressing this button: 1. When the system is in standby mode, it will start the motor to run towards the test position; 2. If the system is running towards the test position, it will not respond to this command.
	急停/复位 Emergency stop/reset	当控制器处于保护锁定状态时, 面板红色保护指示灯点亮, 按下该按钮后将让系统返回待机状态。若系统处于到工作位置或试验位置运行中按下该按钮, 则立即对电机制动并返回待机状态。 When the controller is in the protection locked state, the red protection indicator light on the panel will light up. Pressing this button will return the system to standby mode. If the system is in the working or testing position and the button is pressed during operation, the motor will be immediately braked and returned to standby mode
指示灯 pilot lamp	电源 source	电源指示功能, 正常通电后常亮, 绿色; 无电源时熄灭。 Power indicator function, normally lit in green after normal power on; Turns off when there is no power supply.
	就绪 ready	就绪指示功能: 绿色。就绪状态时点亮, 非就绪状态时熄灭。 Ready indication function, green. Illuminates when in a ready state and extinguishes when not in a ready state.
	远方 distance	远方操作指示功能, 白色。点亮时为远方操作模式, 熄灭时为就地操作模式。 Remote operation indication function, white. When lit, it is in remote operation mode, and when turned off it is in local operation mode
	工作位 Work position	当电动机位于工作位置时常亮, 红色 Always on when the electric motor is in the working position, red
	试验位 Test position	当电动机位于试验位置时常亮, 红色 Always on when the motor is in the test position, red
	故障 fault	系统保护锁定后常亮, 红色; 复位时熄灭。 After the system protection is locked, it remains on. Red; it goes off during reset
1	电源 L/+ Power supply L/+	控制器供电电源正极或 Positive pole of controller power supply or
2	电源 N/- Power supply N/-	控制器供电电源负极或 Negative pole of controller power supply or
3	电机 + Motor+	控制器驱动信号输出, 连接到驱动电机“+” Controller drive signal output, connected to drive motor “+”
4	电机 - Motor-	控制器驱动信号输出, 连接到驱动电机“-” Controller drive signal output, connected to drive motor “-”
5,6	故障报警 Fault alarm	常开触点。无堵转故障时断开; 堵转故障时闭合。 Normally open contact. Open when there is no locked rotor fault; Close when there is a locked rotor fault.
7	远方 distance	与开关量输入公共端短接时为远方操作模式; When short circuited to the common terminal of the switch input, it is in remote operation mode;
8	远方复位 Remote reset	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
9	联锁输入 Interlocking input	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
10	手动优先 Manual priority	与开关量输入公共端短接时为手动操作模式; 与开关量输入公共端断开时为电动操作模式; When short circuited to the common terminal of the switch input, it is in manual operation mode; when disconnected from the common terminal of the switch input, it is in electric operation mode;
11	就地 on the spot	与开关量输入公共端闭合时为就地操作模式; When closed with the common terminal of the switch input, it is in local operation mode;
12	远方摇入 Shake in from afar	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
13	远方摇出 Shake out from afar	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
14	工作位置 Work location	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
15	试验位置 Test location	与开关量输入公共端短接时有效 Effective when short circuited to the common terminal of the switch input
16	公共端 Public end	开关量输入信号公共端 Switching input signal common terminal
P+		
N-		
GDN		485 通讯端口 485 communication port



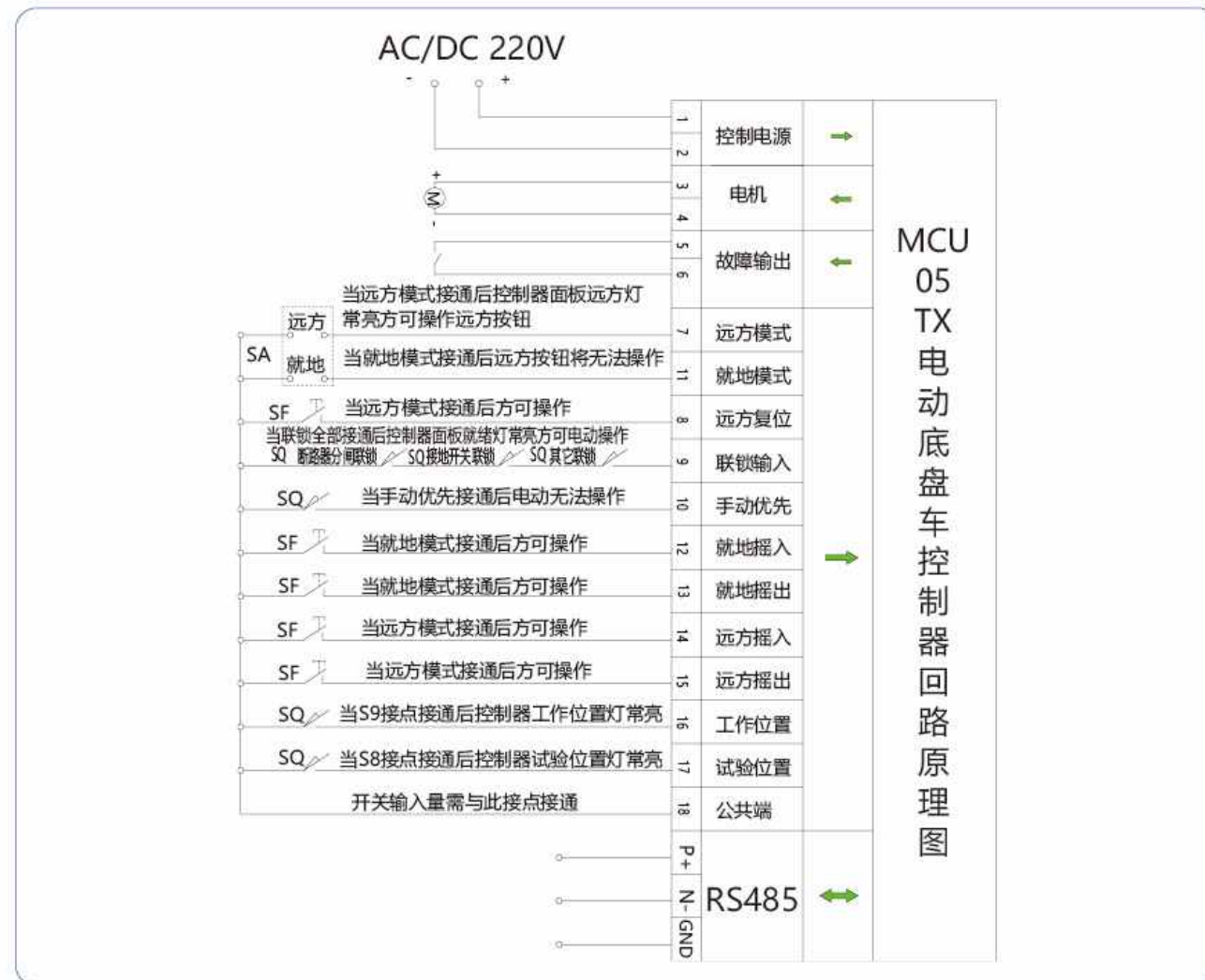
◇ 电动底盘车控制器外形尺寸及接线图

· Outline dimensions and wiring diagram of electric chassis vehicle controller



◇ MCU 05 TX 电动底盘车控制器回路原理图

· MCU 05 TX Electric Chassis Vehicle Controller Circuit Schematic Diagram



◇ 控制器指示灯、按钮及接点使用说明

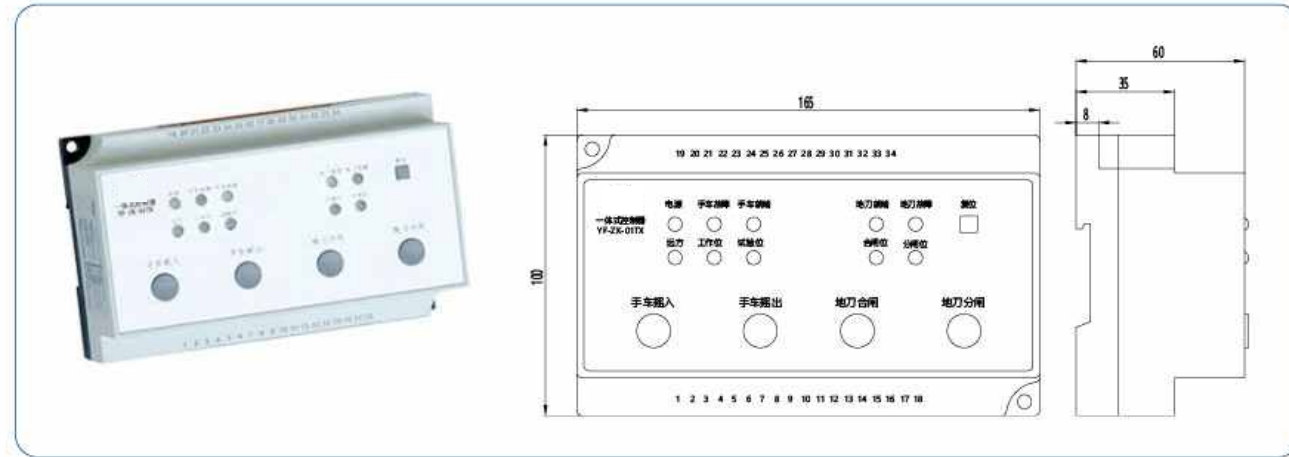
· Instructions for using controller indicator lights, buttons, and contacts

按钮 button	摇入 Shake in	控制器允许操作，按下该按钮后： 1. 系统处于待机状态时将启动电机向工作位置运行；/2. 系统处于向工作位置运行中则不响应本次命令； The controller allows operation. After pressing this button: 1. When the system is in standby mode, it will start the motor to run towards the working position; 2. If the system is running towards the working position, it will not respond to this command
	摇出 Shake out	控制器允许操作，按下该按钮后： 1. 系统处于待机状态时将启动电机向试验位置运行；/2. 系统处于向试验位置运行中则不响应本次命令。 The controller allows operation. After pressing this button: 1. When the system is in standby mode, it will start the motor to run towards the test position; 2. If the system is running towards the test position, it will not respond to this command.
	急停/复位 Emergency stop/reset	当控制器处于保护锁定状态时，面板红色保护指示灯点亮，按下该按钮后将让系统返回待机状态。若系统处于到工作位置或试验位置运行中按下该按钮，则立即对电机制动并返回待机状态。 When the controller is in the protection locked state, the red protection indicator light on the panel will light up. Pressing this button will return the system to standby mode. If the system is in the working or testing position and the button is pressed during operation, the motor will be immediately braked and returned to standby mode
指示灯 pilot lamp	电源 source	电源指示功能，正常通电后常亮，绿色；无电源时熄灭。 Power indicator function, normally lit in green after normal power on; Turns off when there is no power supply.
	就绪 ready	就绪指示功能，绿色；就绪状态时点亮，非就绪状态时熄灭。 Ready indication function, green. Illuminates when in a ready state and extinguishes when not in a ready state.
	远方 distance	远方操作指示功能，白色。点亮时为远方操作模式，熄灭时为就地操作模式。 Remote operation indication function, white. When lit, it is in remote operation mode, and when turned off it is in local operation mode.
	工作位 Work position	当电动机位于工作位置时常亮，红色 Always on when the electric motor is in the working position, red
	试验位 Test position	当电动机位于试验位置时常亮，红色 Always on when the motor is in the test position, red
	故障 fault	系统保护锁定后常亮，红色；复位时熄灭。 After the system protection is locked, it remains on. Red; it goes off during reset.
	1 电源 L/+ Power supply L/+	控制器供电电源正极或 Positive pole of controller power supply or
	2 电源 N/- Power supply N/-	控制器供电电源负极或 Negative pole of controller power supply or
	3 电机 + Motor+	控制器驱动信号输出，连接到驱动电机“+” Controller drive signal output, connected to drive motor “+”
	4 电机 - Motor-	控制器驱动信号输出，连接到驱动电机“-” Controller drive signal output, connected to drive motor “-”
	5.6 故障报警 Fault alarm	常开接点。无堵转故障时断开；堵转故障时闭合。 Normally open contact. Open when there is no locked rotor fault; Close when there is a locked rotor fault.
	7 远方 distance	与开关量输入公共端连接时为远方操作模式； When short circuited to the common terminal of the switch input, it is in remote operation mode;
	8 远方复位 Remote reset	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	9 联锁输入 Interlocking input	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	10 手动优先 Manual priority	与开关量输入公共端连接时为手动操作模式；与开关量输入公共端断开时为电动操作模式； When short circuited to the common terminal of the switch input, it is in manual operation mode; when disconnected from the common terminal of the switch input, it is in electric operation mode;
	11 就地 on the spot	与开关量输入公共端闭合时为就地操作模式； When closed with the common terminal of the switch input, it is in local operation mode;
	12 远方摇入 Shake in from afar	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	13 远方摇出 Shake out from afar	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	14 工作位置 Work location	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	15 试验位置 Test location	与开关量输入公共端连接时有效 Effective when short circuited to the common terminal of the switch input
	16 公共端 Public end	开关量输入信号公共端 Switching input signal common terminal
	P+ N- GDN	485 通讯端口 485 communication port



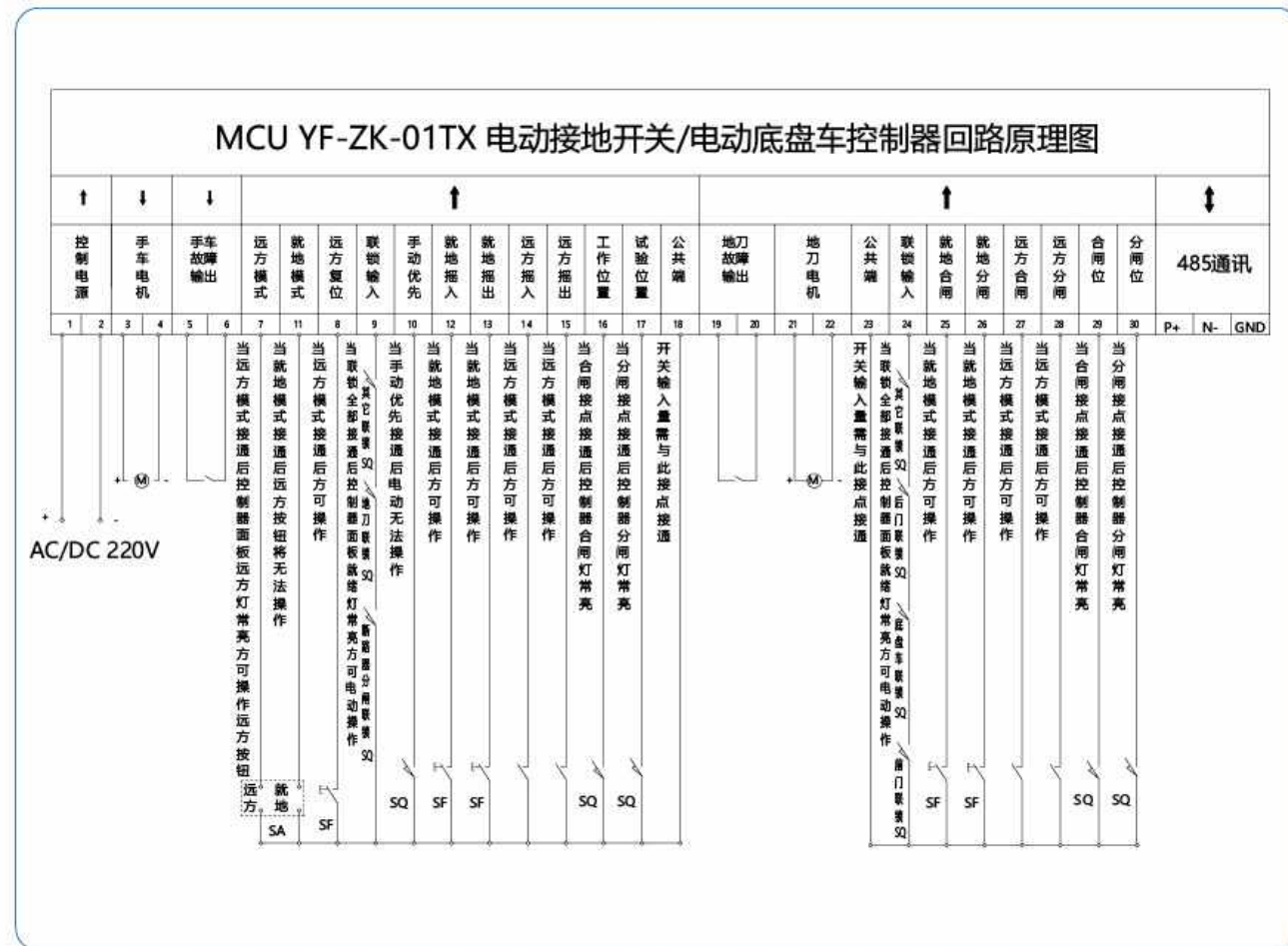
◇ 一体式控制器接线原理图

Wiring schematic diagram of integrated controller



◇ MCU YF-ZK-01TX 电动底盘车控制器回路原理图

MCU YF-ZK-01TX Electric Chassis Vehicle Controller Circuit Schematic Diagram

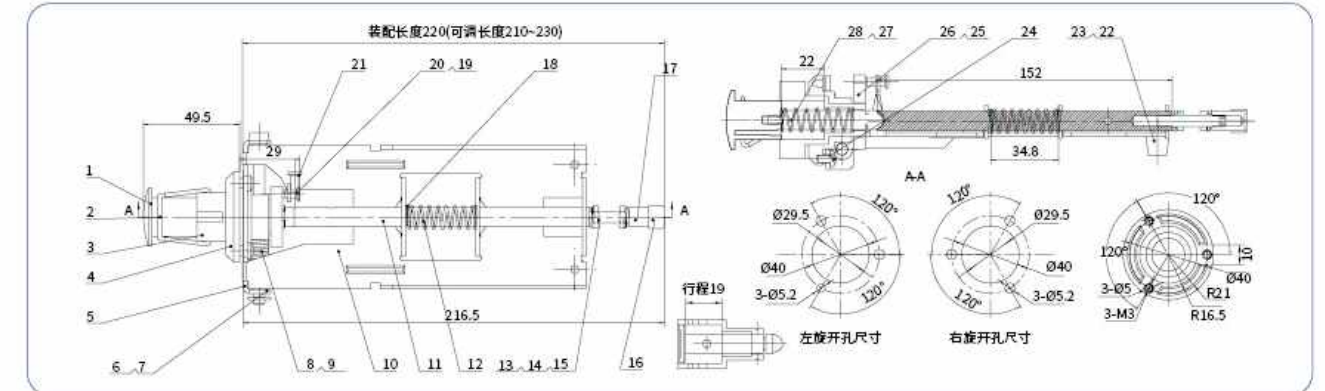


◇ 紧急分闸装置 5YF.1505.2000

Nwe Emergency opening device

本产品主要用于开关柜中以简化断路器跳闸的操作程序。提高紧急状态下对电路突发故障的处置速度。该产品采用旋转折叠式结构，可以在不打开柜门的情况下实现试验位置和工作位置手动跳闸，而且该机构单手即可操作，（放手可自动复位），因此具有操作方便，速度快的优点。

This product is mainly used in switchgear to simplify the operation procedure of circuit breaker tripping and improve the speed of handling sudden circuit faults in emergency situations. This product adopts a rotating folding structure, which can manually trip the test position and working position without opening the cabinet door. Moreover, the mechanism can be operated with one hand (release can automatically reset), so it has the advantages of convenient operation and fast speed.



序号 NO.	名称 Title	代号 Code	数量 只 / 套 Quantity per/set
1	塑料按钮 Plastic button	8YF.1505.2011	1
2	防误操作卡簧	8YF.1603.1401	1
3	旋钮	8YF.1505.2009	1
4	端盖	8YF.1505.2004	1
5	凸字板	8YF.1505.2007	1
6	销轴	8YF.1505.2008	1
7	挡圈：开口挡圈 -M5.0×1.0	GB/T896-1986	1
8	扭簧	8YF.1505.2018	1
9	圆柱弹性销 2.5×10	GB/T879.2	1
10	支撑板	8YF.1505.2010	1
11	从动板	8YF.1505.2002	1
12	∅ 1 压簧	8YF.1505.2016	1
13	轻型弹簧垫圈 M6	GB/T589-1987	2
14	六角薄螺母 M6	GB/T6172.1-2000	2
15	内六角平端紧定螺钉 M6×35	GB/T77-2007	1
16	调节杆帽	8YF.1604.2701	1
17	调节杆	8YF.1505.2006	1
18	挡圈：开口挡圈 -M6.0×1.0	GB/T896-1986	2
19	双头挂扣	8YF.1505.2005	1
20	4×18 销钉	8YF.1505.2013	1
21	4×15 销钉	8YF.1505.2017	1
22	橡胶脚垫	8YF.1505.2019	2
23	螺钉：盘头 -M4.0×8.0	GB/T818-2000	2
24	螺钉：盘头 -M4.0×6.0	GB/T818-2000	3
25	U 字板	8YF.1505.2001	1
26	开槽端紧定螺钉 M4.0×8.0	GB71-1985	2
27	∅ 0.8 压簧	8YF.1505.2015	1
28	顶杆	8YF.1505.2003	1

注：顶杆长度可用户自定 length can be customized

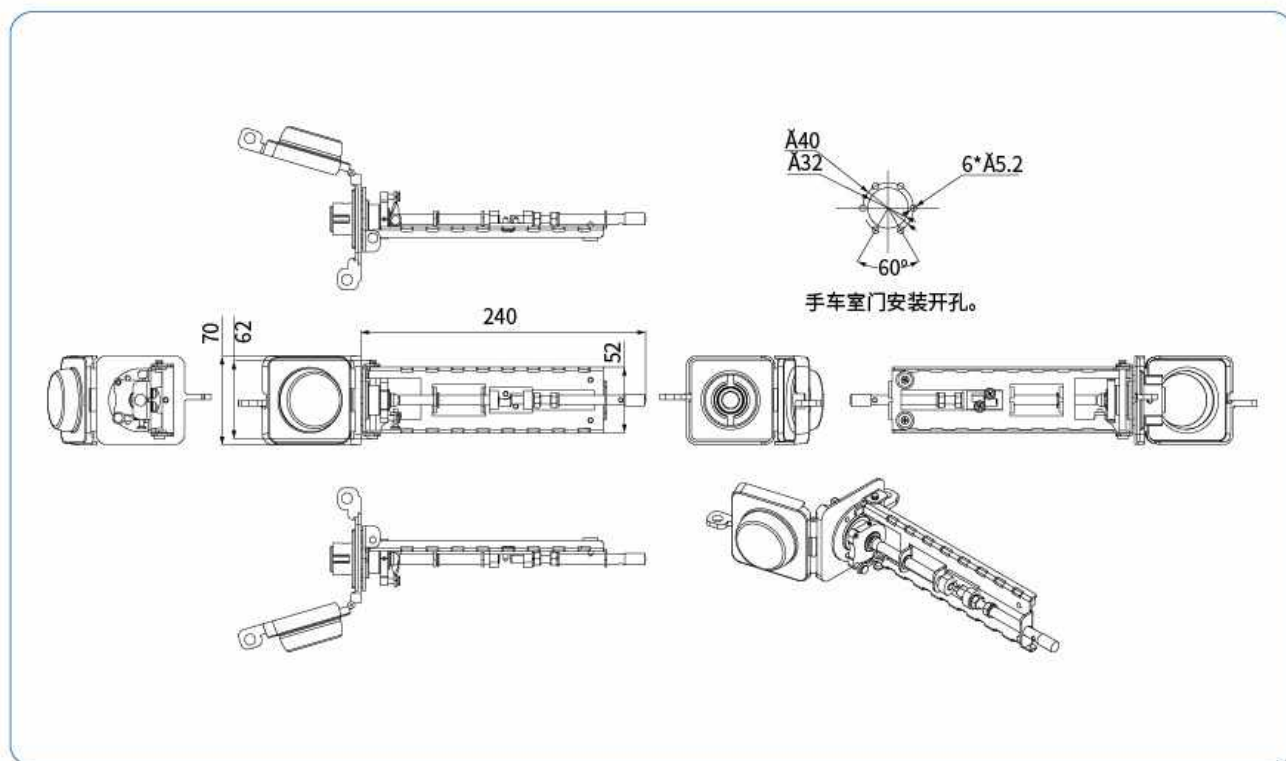
◇ **5YF.1505.2000 紧急分闸 (窄款) 产品图**

· 5YF.1505.2000 Emergency Opening (Narrow) Product Drawing



◇ **5YF.1505.2000 紧急分闸 (窄款) 示意图**

· 5YF.1505.2000 Emergency Opening (Narrow Version) Schematic Diagram



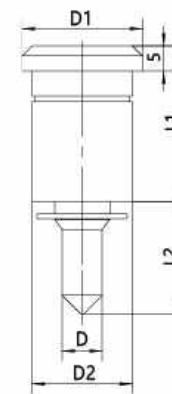
◇ **GMS1 高压柜门锁型号及含义**

· GMS1 HV cabinet door lock dimension



◇ **GMS1 高压柜门安装尺寸图及尺寸表**

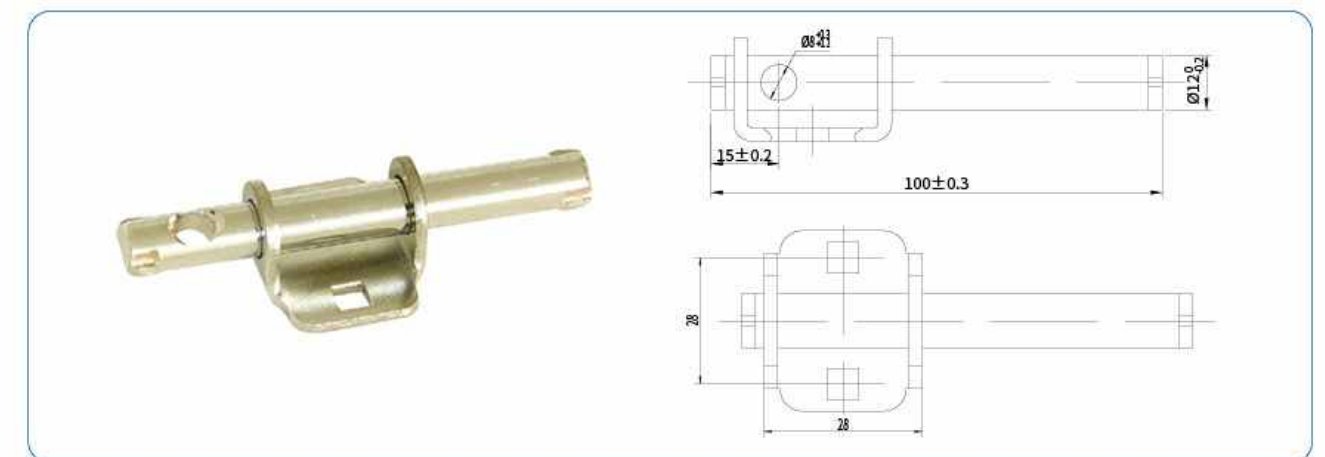
· GMS1 HV cabinet door lock dimension



型号 Item	D1	D2	D	L1	L2
GMS1-1	Φ24	Φ20	M8	31	22.5
GMS1-2	Φ30	Φ22	M10	35	20.5
GMS1-3	Φ24	Φ20	M8	31	34.5
GMS1-4	Φ30	Φ22	M8	35	20.5
GMS1-5	Φ30	Φ22	M10	35	29
GMS1-6	Φ30	Φ22	M10	40	20.5
GMS1-7	Φ30	Φ22	M8	27	23
GMS1-8	Φ30	Φ22	M10	45	20.5
GMS1-9	Φ30	Φ22	M8	35	25
GMS1-10	Φ30	Φ22	M10	31	24.5

◇ **挂锁装置示意图及安装尺寸图**

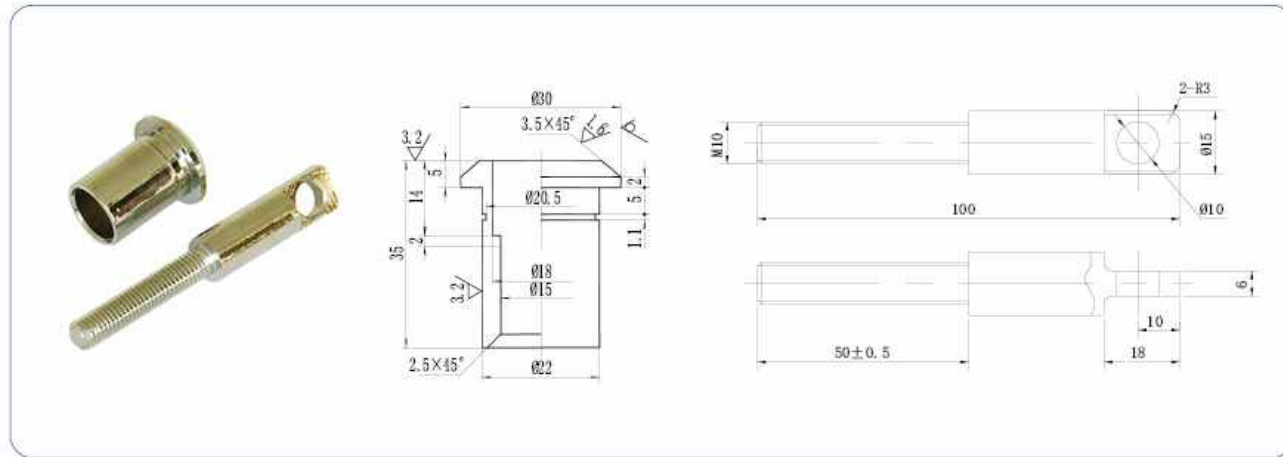
· Schematic diagram and installation dimension diagram of the padlock device





◇ 挂锁螺柱装置示意图及安装尺寸图

- Schematic diagram and installation dimension diagram of padlock bolt device



◇ 高压柜门铰链型号及含义

- HV cabinet door hinge definition



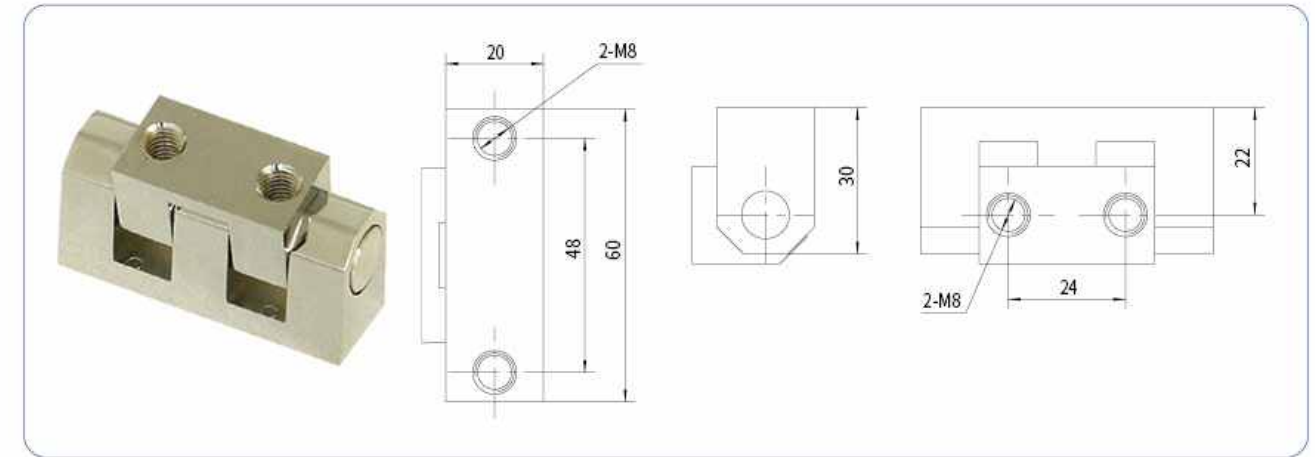
◇ GJL1-□ 高压柜门铰链型号及安装尺寸

- HV cabinet door hinge specification and installation dimension

型号 Item	图号 Code	A	B	C	D	2-M8
GM51-1	5YF.872.011	50	23	8	18	通孔 Throughly hole
GM51-2	5YF.872.011.1	56	26	12	22	
GM51-3	5YF.872.012	50	23	8	18	盲孔 Blind hole
GM51-4	5YF.872.012.1	56	26	12	22	

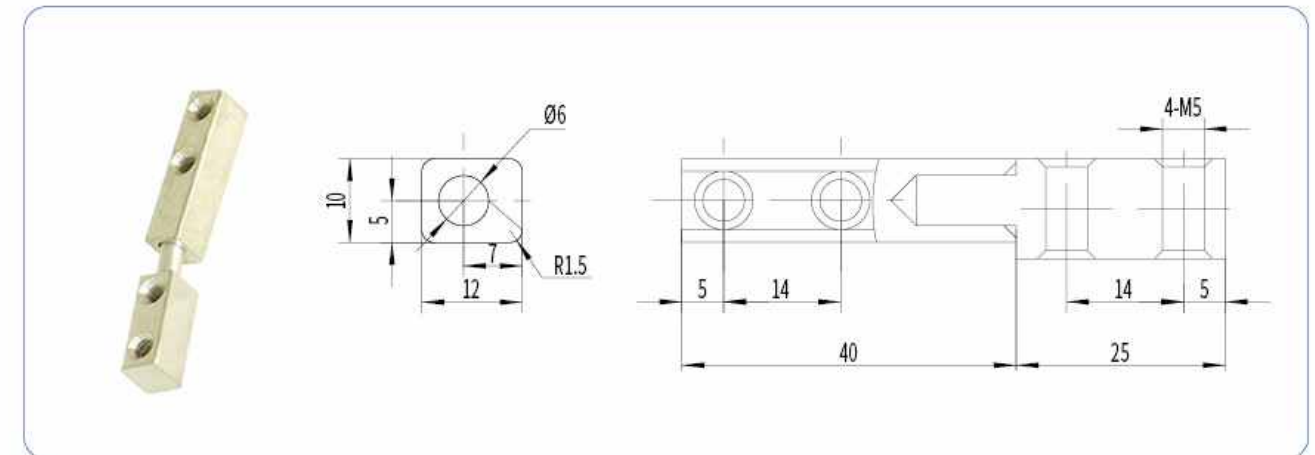
◇ GJL2-□ 高压柜门铰链外型及安装尺寸

- HV cabinet door hinge specification and installation dimension



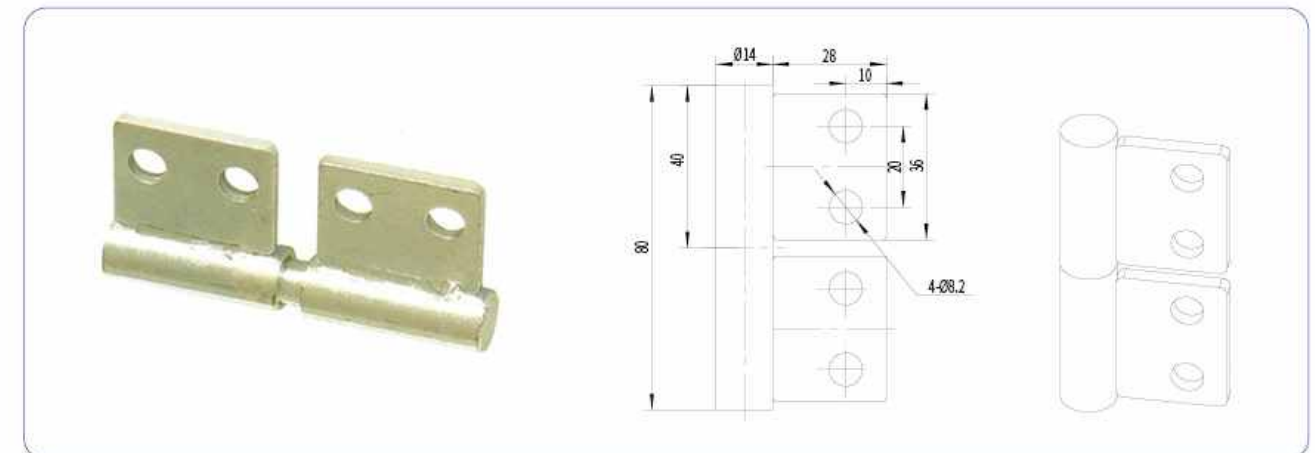
◇ GJL4-□ 高压柜门铰链型号及安装尺寸

- HV cabinet door hinge specification and installation dimension

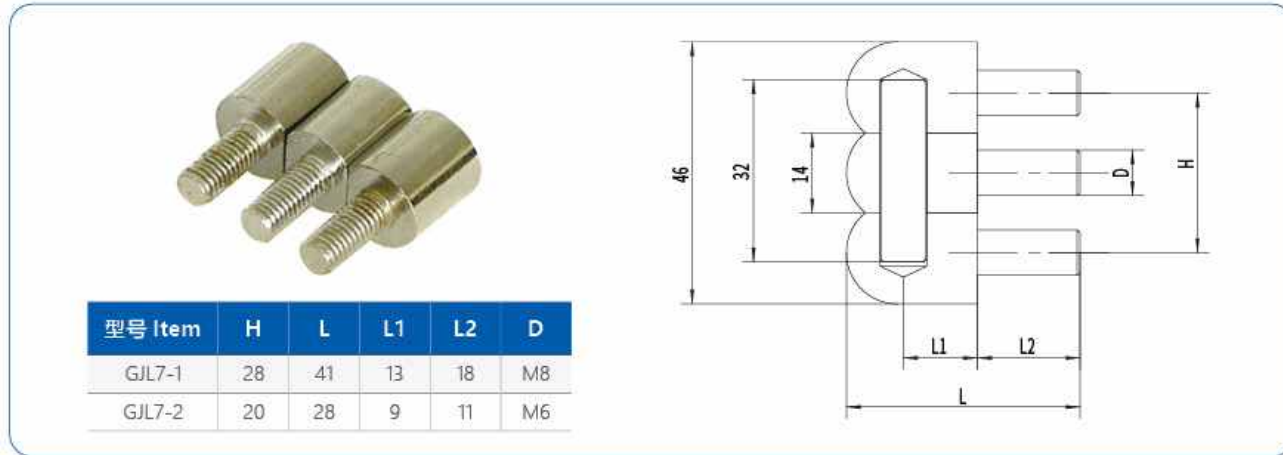


◇ GJL5-□ 高压柜门铰链型号及安装尺寸

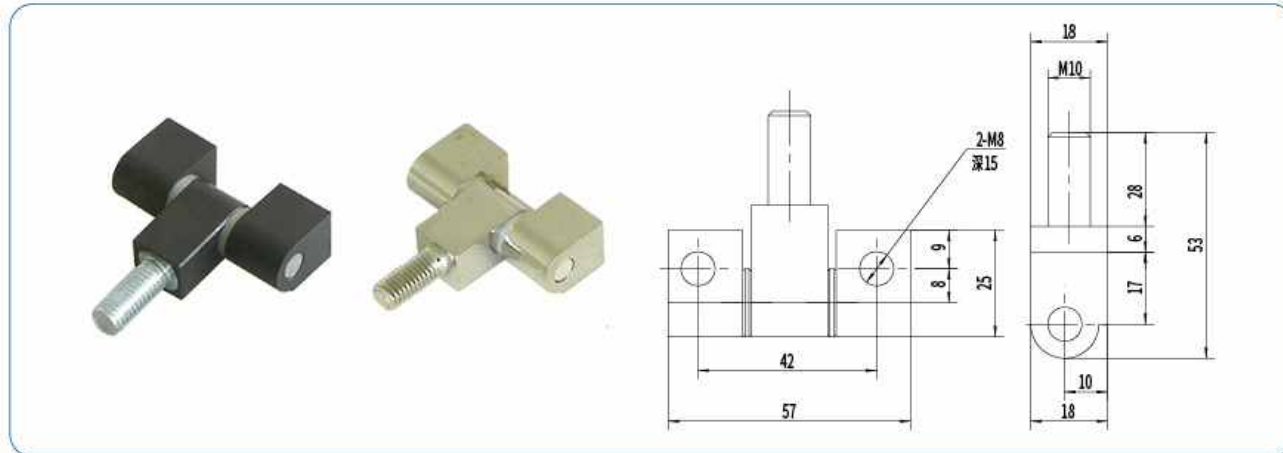
- HV cabinet door hinge specification and installation dimension



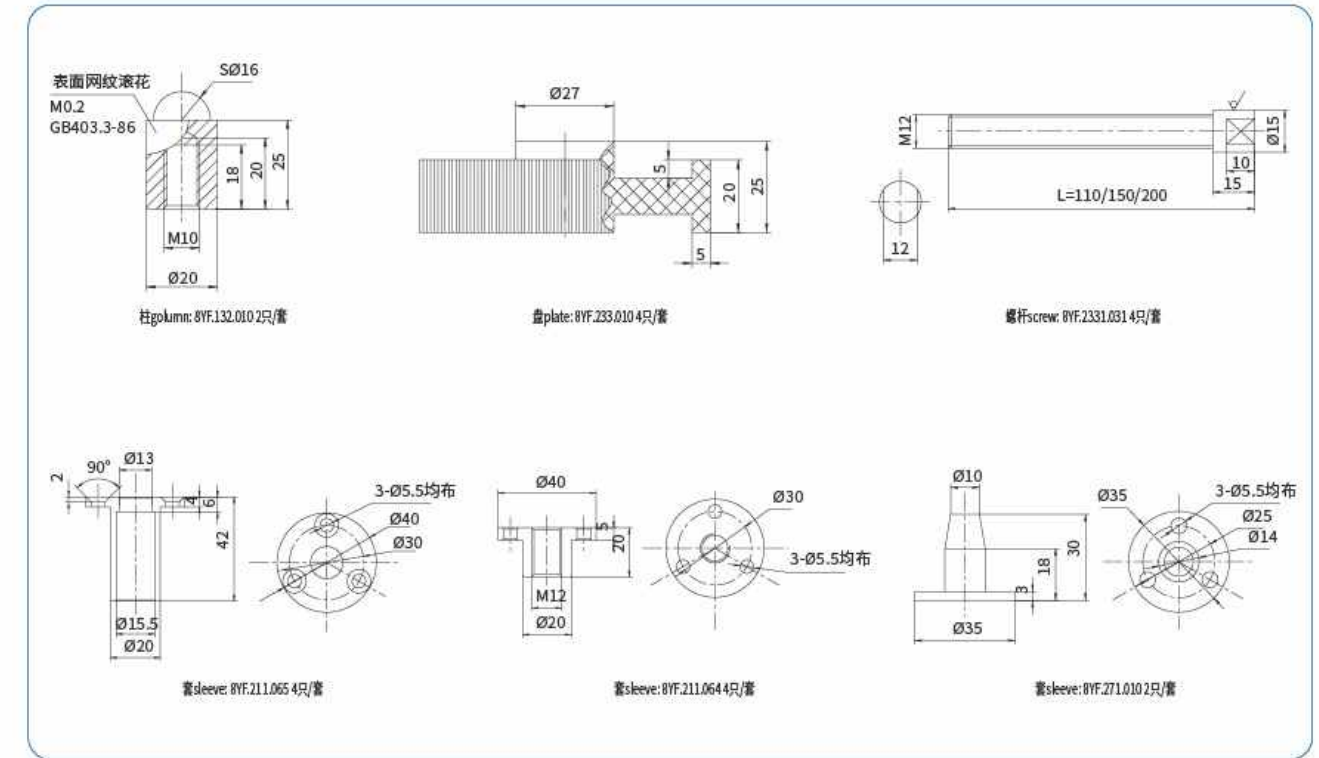
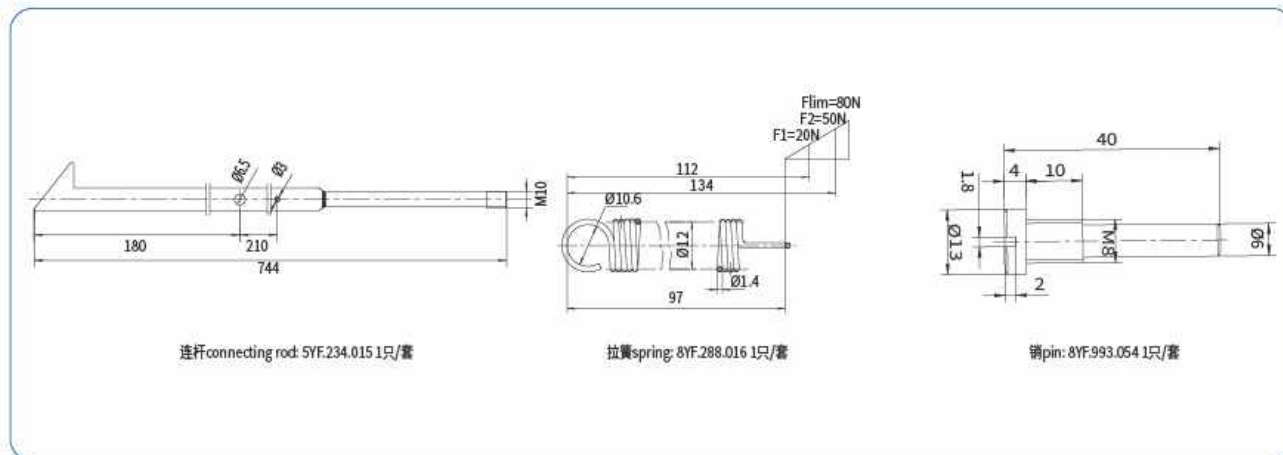
◇ **GJL7 高压柜门铰链型号及安装尺寸**  
- HV cabinet door hinge specification and installation dimension



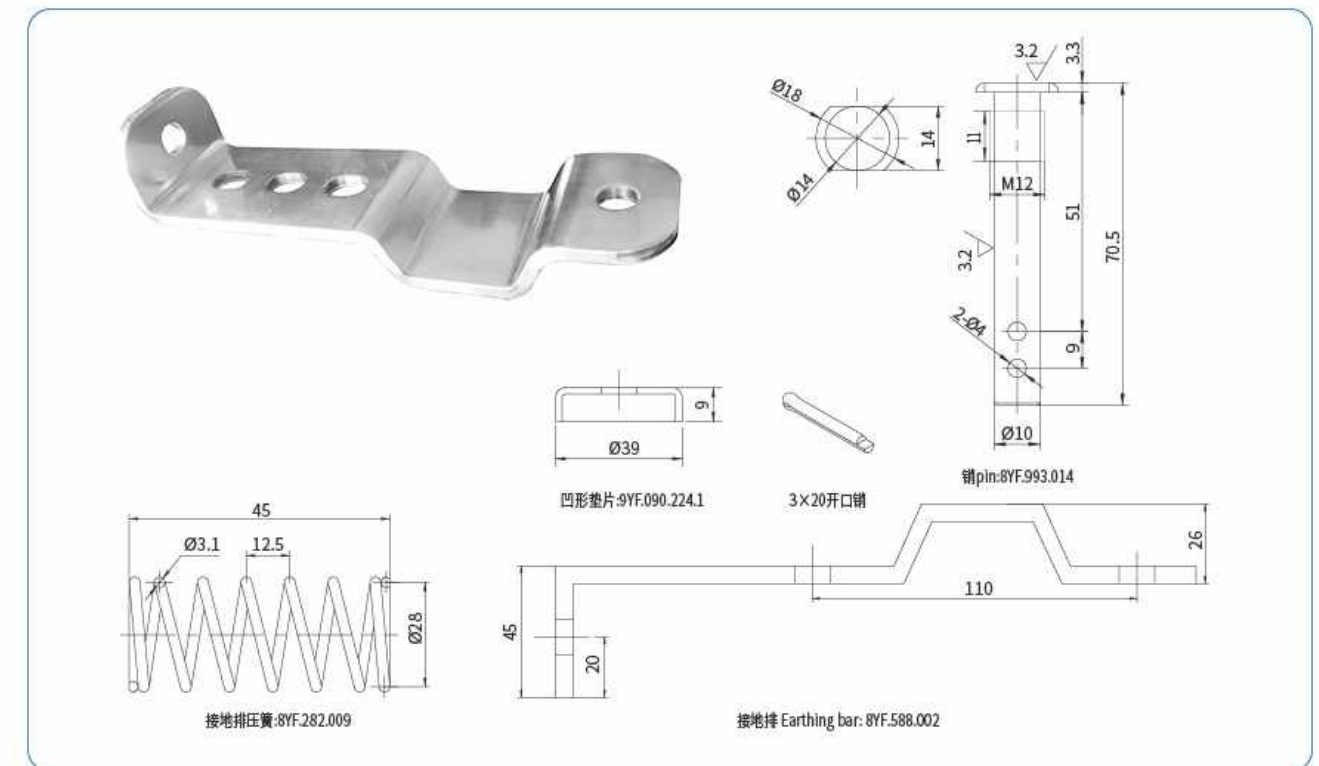
◇ **GJL9-1 高压柜门联体铰链外形及安装尺寸**  
- HV cabinet door hinge specification and installation dimension



◇ **转运车配套件**  
- Handcarr assembly



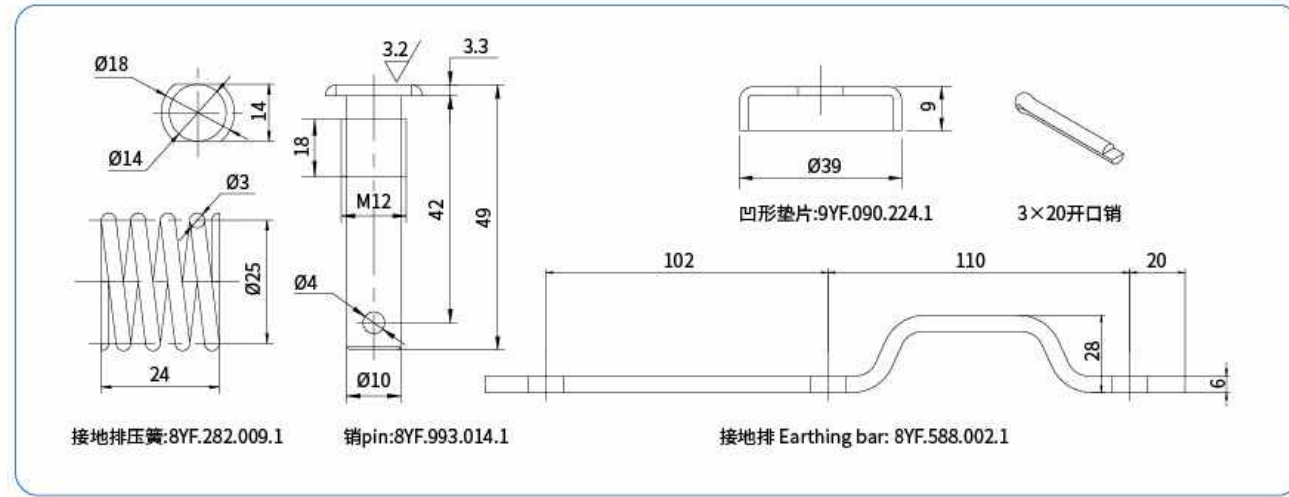
◇ **中隔板配套件**  
- Mid partition assembly





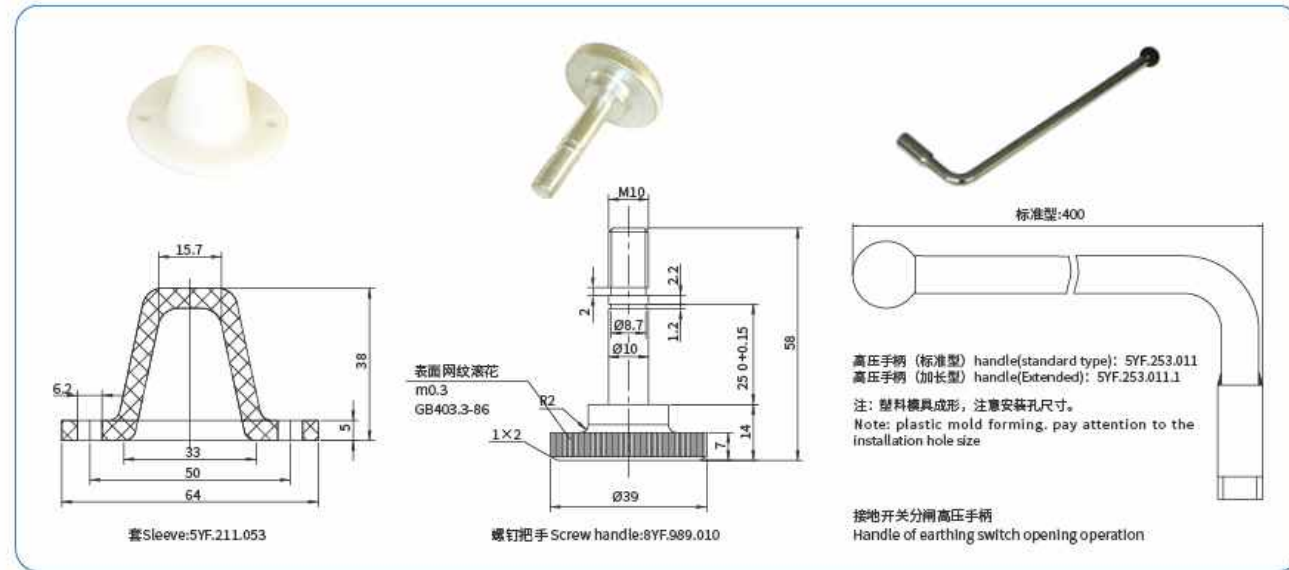
#### 接地排及配件 (下置式用)

Earthing bars and components (under-placed use)



#### 其他

Others



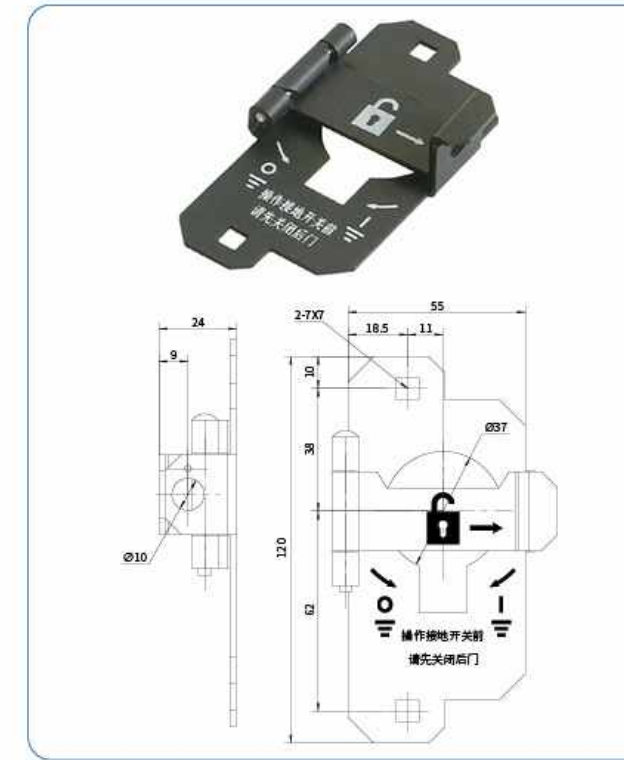
#### 接地支架装配 5YF.1509.0201

Grounding bracket assembly



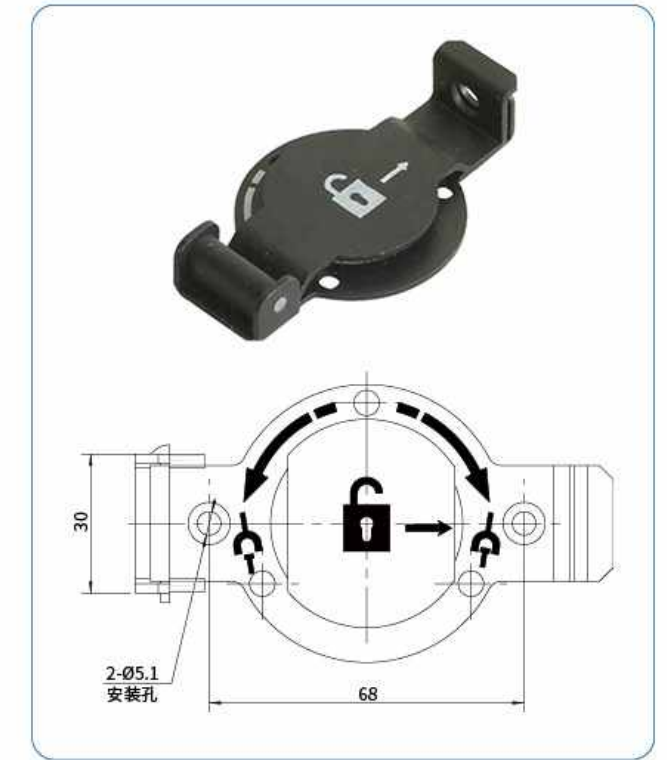
#### 接地联锁挂锁

Earthing interlocking Padlock



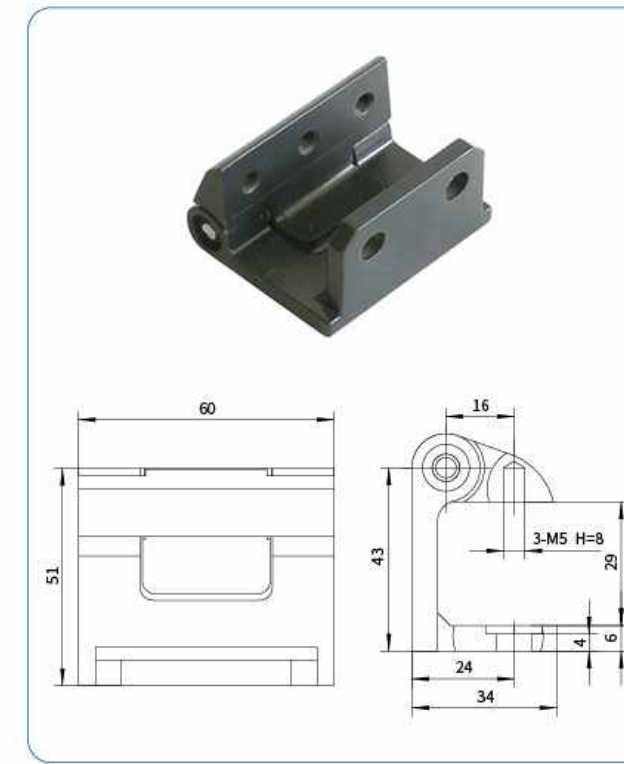
#### 中门挂锁

Mid-door padlock



#### 二代柜铰链

Second generation cabinet door hinge



#### 进退标牌

IN-OUT indicator





### ◆ 液压转运车

The hydraulic transport vehicle

为了适应客户的需要，我公司根据转运的机械原理进行开发，此转运车具有操作方便、结构简单、省时省力、广泛运用的优点。

In order to meet the needs of customers, our company has developed based on the mechanical principles of transportation. This transportation vehicle has the advantages of convenient invasion, simple structure, time-saving and labor-saving, and is widely used.

### 操作说明 Operating instructions

转运车最低高度 320，最高高度 900，承载重量 ≤ 300KG。

转运车按以下步骤操作：

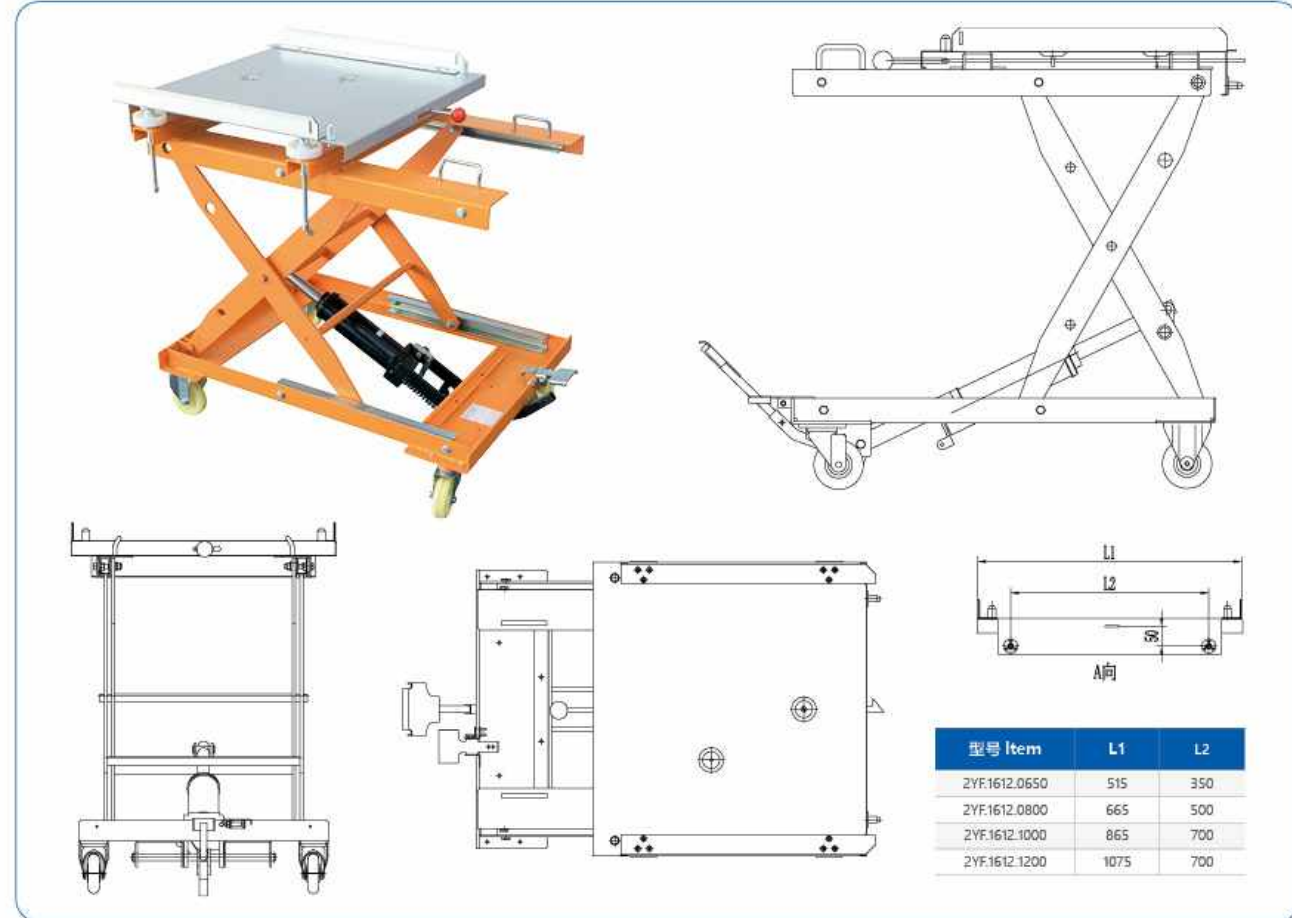
- 1: 首先将断路器置于转运车托盘上，踩动脚踏板使转运车升至适合推动的高度；
- 2: 通过定向轮与万向轮将转运车推至开关柜前并通过脚踏板与回油踏板调节转运车高度使转运车连杆与开关柜中隔板导向孔处于水平位置。（注：在踩动回油踏板时越用力下降速度越快）
- 3: 向开关柜方向推动转运车使转运车连杆插入中隔板导向孔内，此时转运车连杆会自动锁住转运车与开关柜使其固定住，再将断路器推入导轨进入柜体。

- 4: 拨动转运车连杆将转运车退出。

The minimum height of the transfer vehicle is 320, the maximum height is 900, and the carrying capacity is ≤ 300KG.

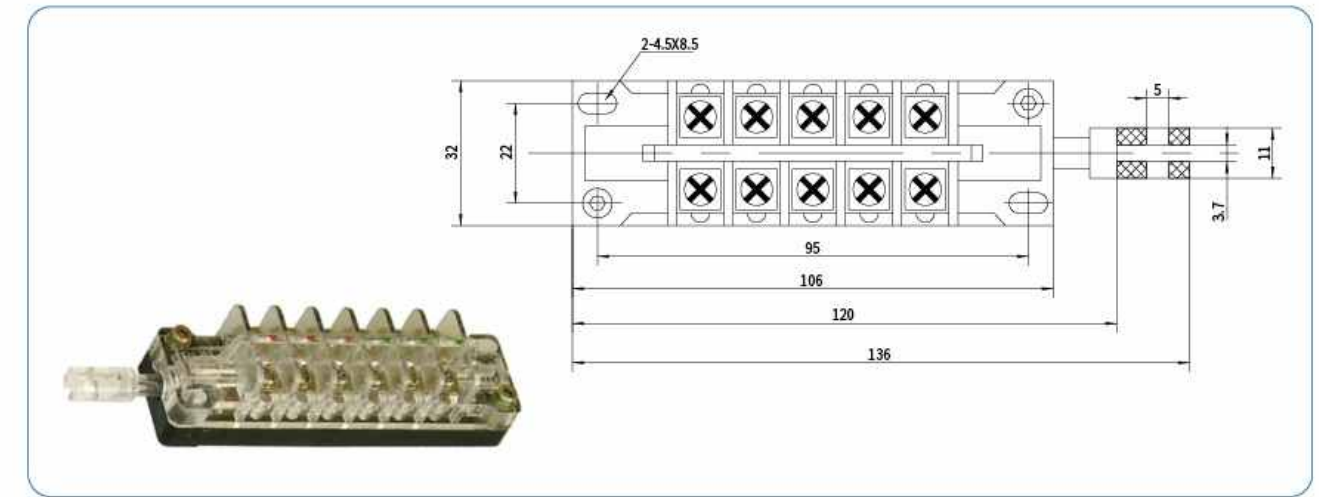
Follow the steps for the transfer vehicle:

- 1: Firstly, place the circuit breaker on the pallet of the transfer vehicle. Step on the foot pedal to raise the transfer vehicle to a height suitable for pushing;
- 2: Push the transfer vehicle to the floor of the switch cabinet through directional wheels and universal wheels, and adjust the height of the transfer vehicle through foot pedals and oil return pedals to ensure that the transfer vehicle is connected to the guide hole of the partition in the switch cabinet in a horizontal position. (Note: The harder you press the return pedal, the faster the descent speed.)
- 3: Push the transfer truck towards the switch cabinet to insert the transfer truck link into the guide hole of the middle partition. At this time, the transfer truck link will automatically lock the transfer truck and the switch cabinet to fix it. Then, push the circuit breaker into the guide rail and enter the cabinet body.
- 4: Move the connecting rod of the transfer vehicle to exit it.



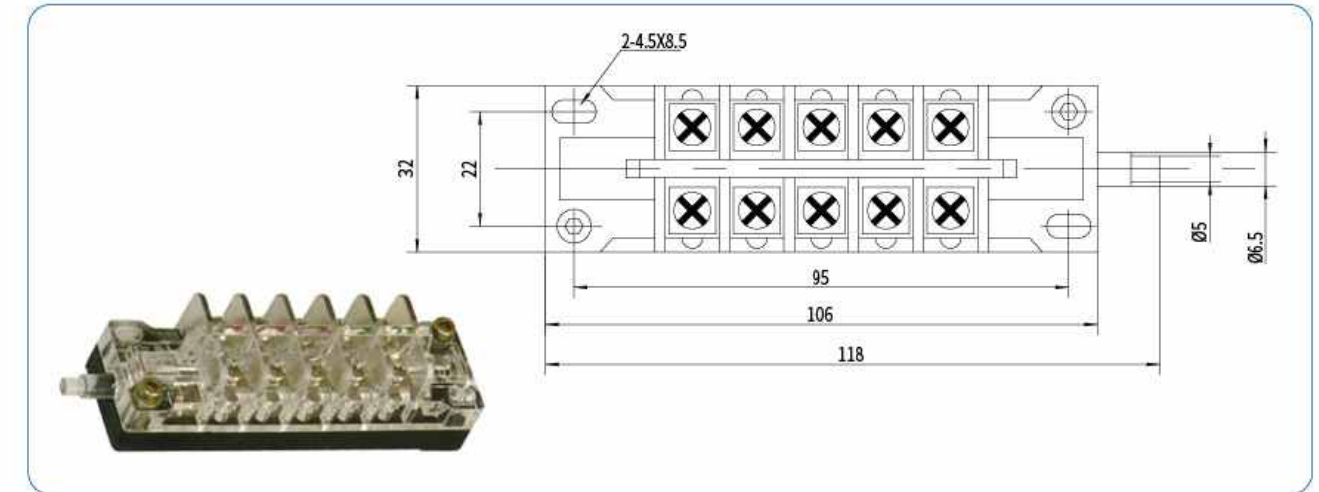
### ◆ FK10-I-□□型辅助开关外形及安装尺寸图

Outline and Installation Dimension Drawing of FK10-I - □□ Type Auxiliary Switch



### ◆ FK10-II-□□型辅助开关外形及安装尺寸图

Outline and Installation Dimension Drawing of FK10-II - □□ Type Auxiliary Switch



### 主要技术参数 mainly technical parameters

- |                |                           |
|----------------|---------------------------|
| 1、额定电压：AC 660V | 1. Rated voltage: AC 660V |
| 2、额定频率：50Hz    | 2. Rated frequency: 50Hz  |
| 3、额定电流：15A     | 3. Rated current: 15A     |

### 型号及含义 Product definition

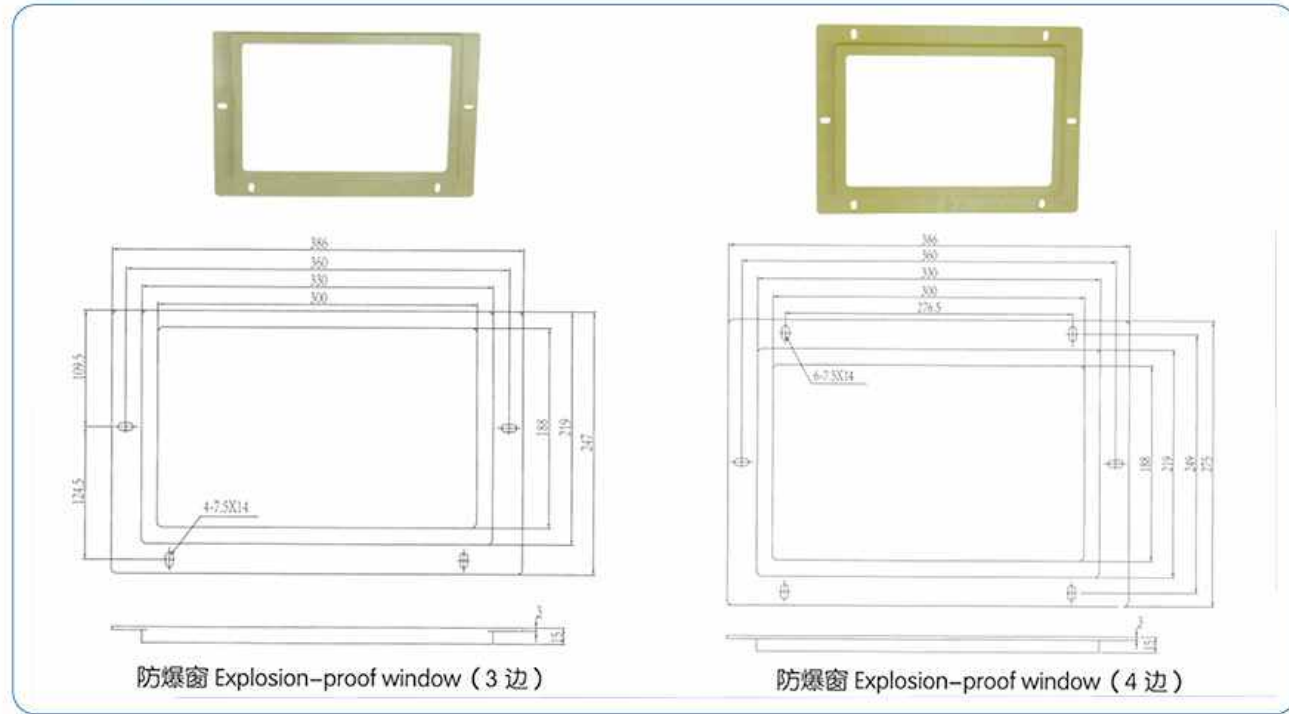
FK 10 - □ - □

- 常闭触头数目 NC contact quantity
- 常开触头数目 NO contact quantity
- 结构代号 Structure code
- 设计序号 Design No.
- 辅助开关 Auxiliary switch

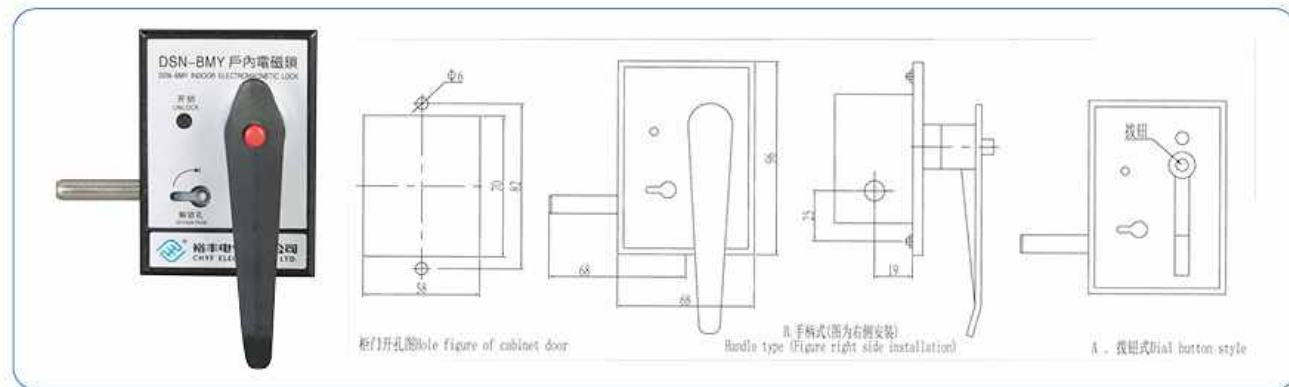
1. 带连杆接头（配底盘车 58、59）  
with joint of the connecting bar (match 58, 59 chassis truck)
2. 不带连杆接头（配接地开关联锁）  
without joint of the connecting bar (match iniarlock)



### 防爆玻璃框 Explosion-proof frame



### DSN-BM(Z/Y) 型户内电磁锁 type indoor electromagnetic lock



产品型号规格 Model&Spec.	额定电压 Rated voltage	额定电流 Rated current	额定功率 Rated power	柜门开孔尺寸 Hole size of cabinet door	柜门安装尺寸 Installation size of cabinet door	锁栓行程 Lock travel	备注 Remark
DSN-AMZ	AC 220V DC 220V DC 110V	100mA 196mA 98mA	< 3VA < 50w < 12w	56mm x 70mm	Φ6x82mm	14mm	采用新型电磁铁结构, 使三种电压等级线圈通用 Adoption of new type electromagnetic structure that let the coils of three voltage classes be in common use and 专与我厂不间断直流电源配套使用, 提高产品防误性能。 especially match with our uninterrupted DC power supply to improve product's antimaloperation capability.
DSN-AMY							
DSN-BMZ							
DSN-BMY	DC 6V	400mA	< 2.5w				
DSN-AMZ6							
DSN-AMY6							
DSN-BMZ6							
DSN-BMY6							

### DSN 型户内电磁锁 DSN type indoor electromagnetic lock

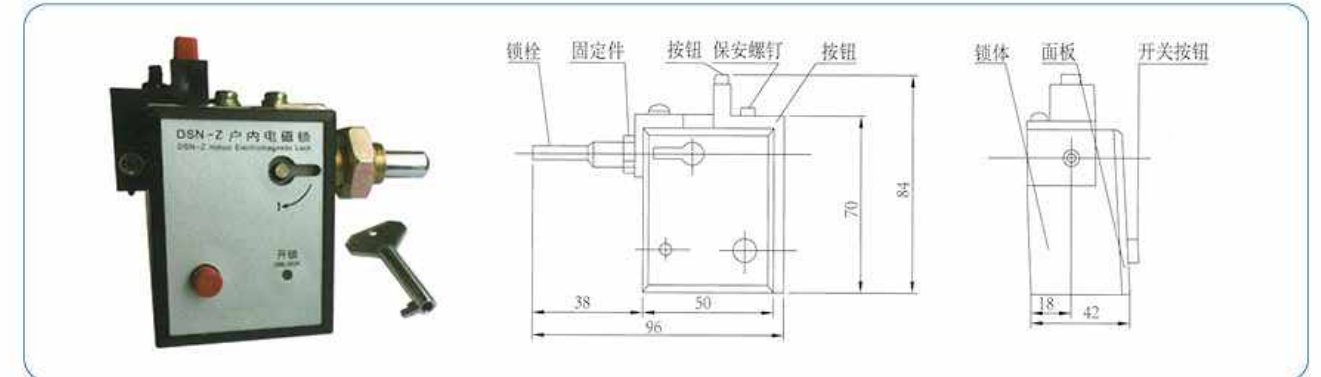
#### 产品概述 Introduction

DSN 型户内电磁锁是一种防止高压开关设备电气误操作的电控机构联锁装置, 主要供高压开关柜柜门及其它需要安全联锁的地方实现强制联锁, 防止误入带电间隙和误操作的发生, 是发电和供电部门不可缺少的闭锁装置。

产品型号: DSN-Z DSN-Y;  
工作电压: AC220V DC220V DC110V( 通电电源);  
安装支架螺纹规定: M14、M16;  
锁栓行程: 14mm;  
安装方式: DSN-Z 左开安装、DSN-Y 右开安装。

DSN indoor electromagnetic lock is an electronic control interlocking device that prevents electrical misoperation of high-voltage switchgear. It is mainly used for mandatory interlocking of high-voltage switchgear cabinet doors and other places that require safety interlocking, to prevent accidental entry into live gaps and misoperation. It is an indispensable locking device for power generation and power supply departments.

Product model: DSN-Z DSN-Y;  
Working voltage: AC220V DC220V DC110V (power on);  
Installation bracket thread regulations: M14, M16;  
Lock bolt stroke: 14mm;  
Installation method: DSN-Z left open installation, DSN-Y right open installation.



### DSN-AM 型户内电磁锁 DSN-AM type indoor electromagnetic lock

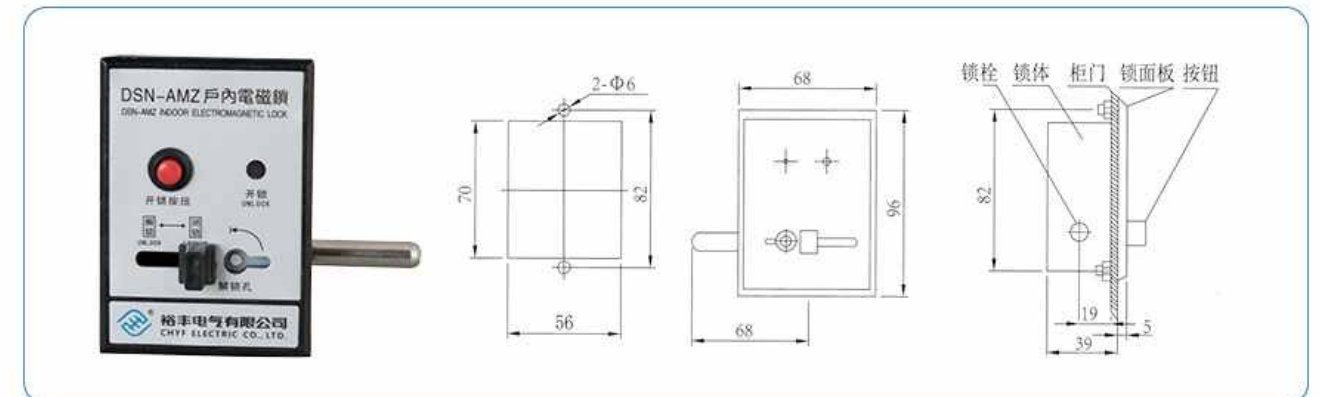
#### 产品概述 Introduction

DSN 型户内电磁锁是一种防止高压开关设备电气误操作的电控机构联锁装置, 主要供高压开关柜柜门及其它需要安全联锁的地方实现强制联锁, 防止误入带电间隙和误操作的发生, 是发电和供电部门不可缺少的闭锁装置。

产品型号: DSN-AMY DSN-ANZ;  
开孔尺寸: 56mmx70mm;  
工作电压: AC220V DC220V DC110V( 通电电源);  
安装支架螺纹规定: M14、M16;  
锁栓行程: 14mm;  
安装方式: DSN-AMZ 左开安装、DSN-AMY 右开安装。

DSN indoor electromagnetic lock is an electronic control interlocking device that prevents electrical misoperation of high-voltage switchgear. It is mainly used for mandatory interlocking of high-voltage switchgear cabinet doors and other places that require safety interlocking, to prevent accidental entry into live gaps and misoperation. It is an indispensable locking device for power generation and power supply departments.

Product model: DSN-AMY DSN-ANZ;  
Opening size: 56mmx70mm;  
Working voltage: AC220V DC220V DC110V (power on);  
Installation bracket thread regulations: M14, M16;  
Lock bolt stroke: 14mm;  
Installation method: DSN-AMZ left open installation, DSN-AMY right open installation.





◇ **58 芯航空插座** · Secondary socket with 58 cores

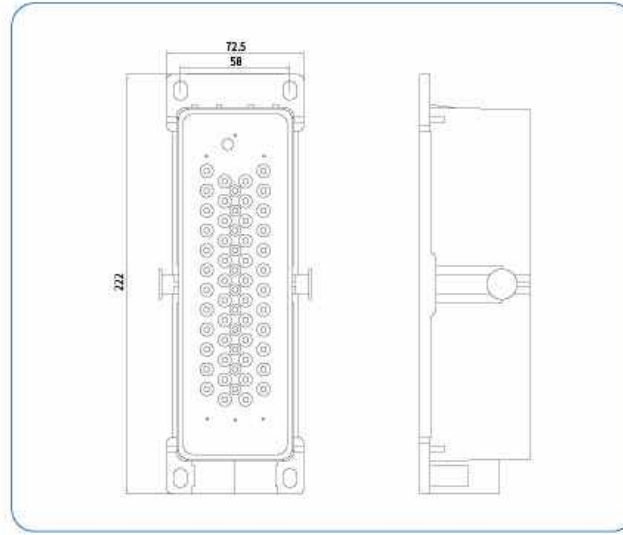


用途: GZD-58 二次插头座, 系 GZS1(配 VSI.VD4) 等中置式高压开关柜二次线路连接之用。

基本参数:  
额定电压: 交流 380V, 直流 220V;  
额定电流: 交流 16A, 直流 10A;  
机械寿命: 2000 次。

注: 插头座配针, 插孔的接线孔, 只限于使用 1.5 平方以下导线; 若需 2.5 平方、4 平方订货时另请注明。  
Note: The pin configuration of the plug socket and the wiring hole of the socket are limited to using wires of less than 1.5 square meters. If 2.5 square meters and 4 square meters are required, please specify separately when ordering.

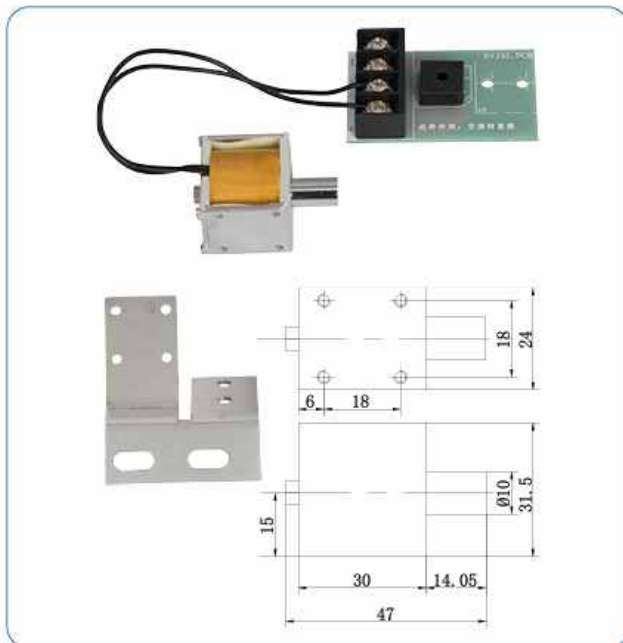
◇ **GZD-58 二次插头座** · Secondary socket



Purpose: GZD-58 secondary plug socket, used for connecting secondary circuits of central mounted high-voltage switchgear such as GZS1 (equipped with VSI.VD4).

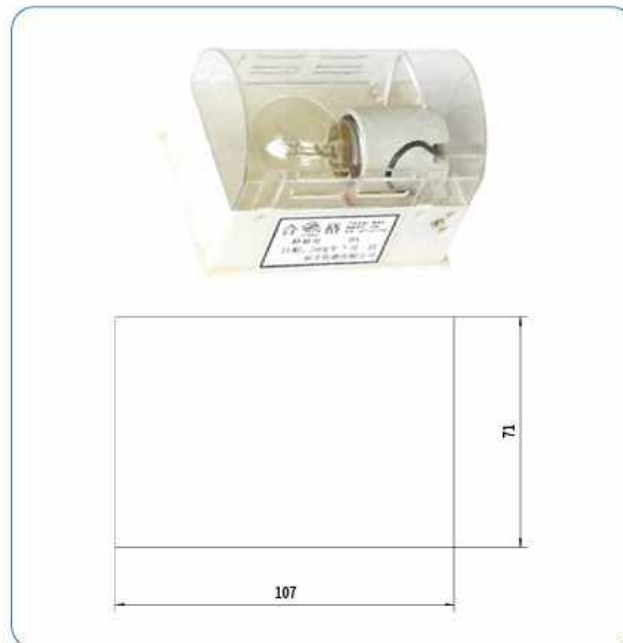
Basic parameters:  
Rated voltage: AC 380V, DC 220V;  
Rated current: AC 16A, DC 10A;  
Mechanical life: 2000 cycles.

◇ **闭锁电磁铁** · latching electromagnet



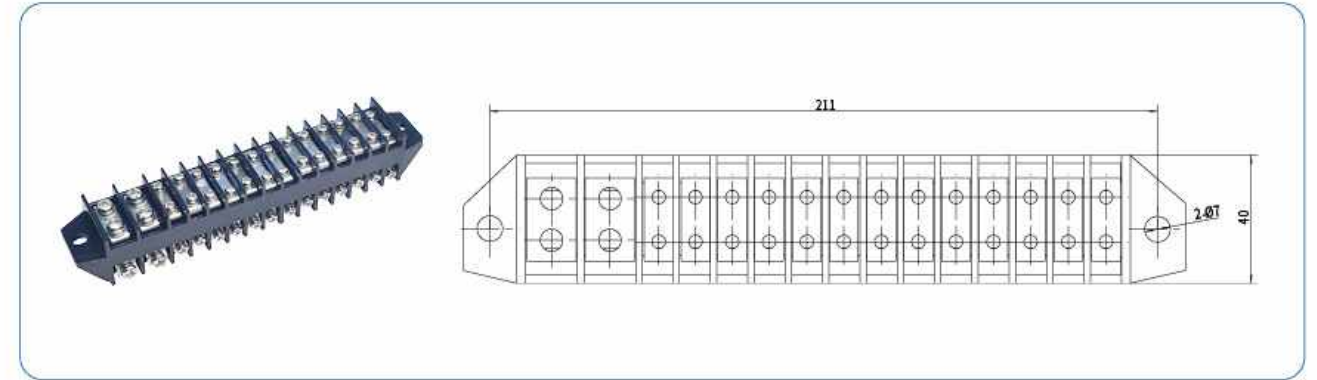
订货时请注明 Please specify the following information in the order: 交流 AC110V,220V, 直流 AC110V,220V

◇ **柜内照明灯** · Cabinet lighting

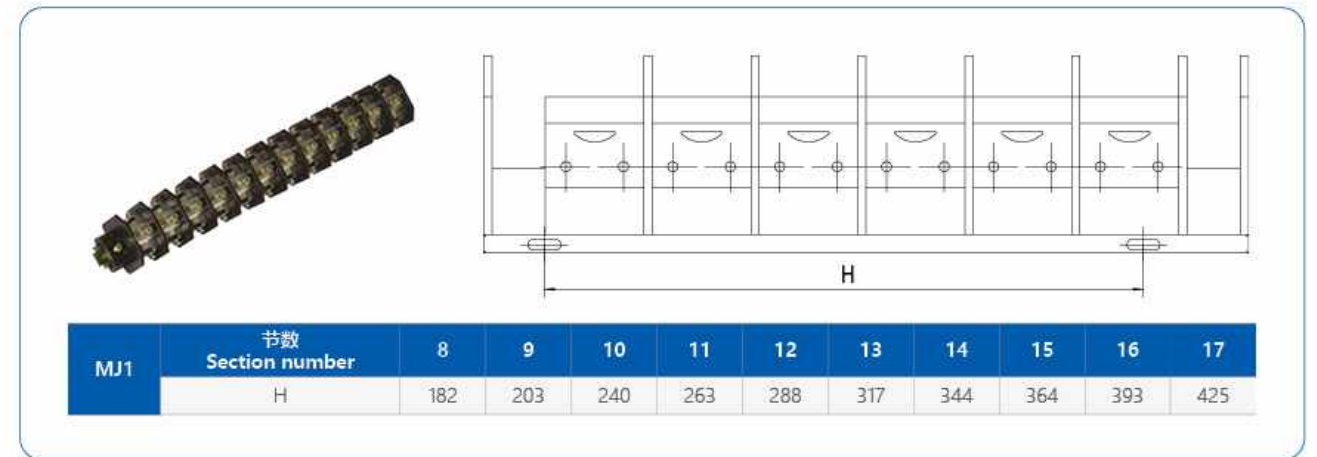


柜体开孔尺寸 Hole opening in the cabinet

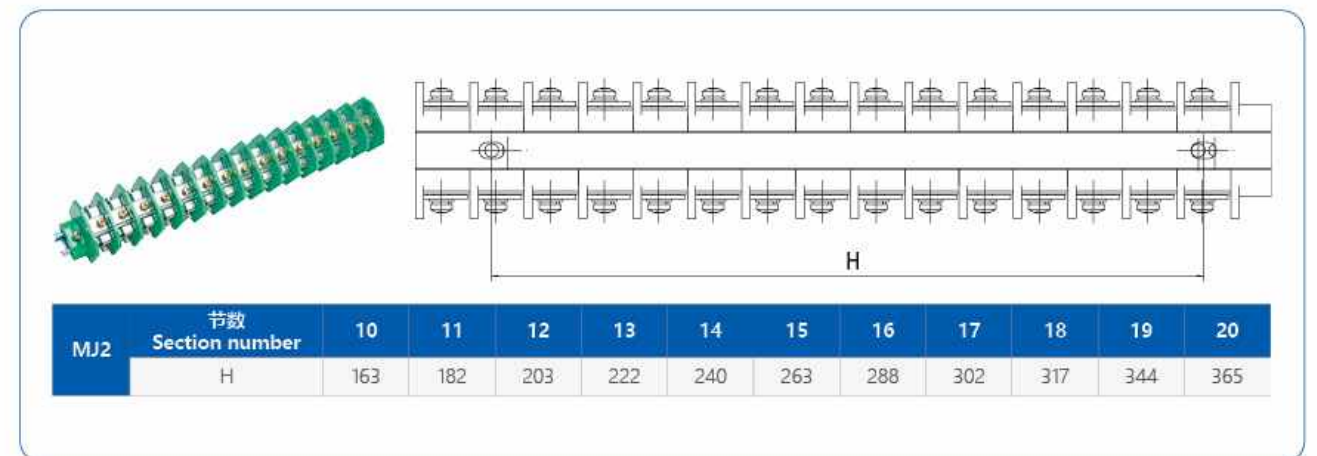
◇ **CM1 母线架 -15 节 (4-6mm 导线式)** · CM1 busbar rack -15 sections (4-6mm conductor type)



◇ **MJ1 母线架 (Φ8 铜棒式)** · MJ1 busbar frame (Φ8 copper rod type)



◇ **MJ2 母线架 (Φ6 铜棒式)** · Busbar (Φ6 Copper bar type)



注: 订货时请注明节数及安装孔尺寸。  
Note: Please indicate the number of sections and installation hole size when ordering.



### ◇ 加热器 - Heater

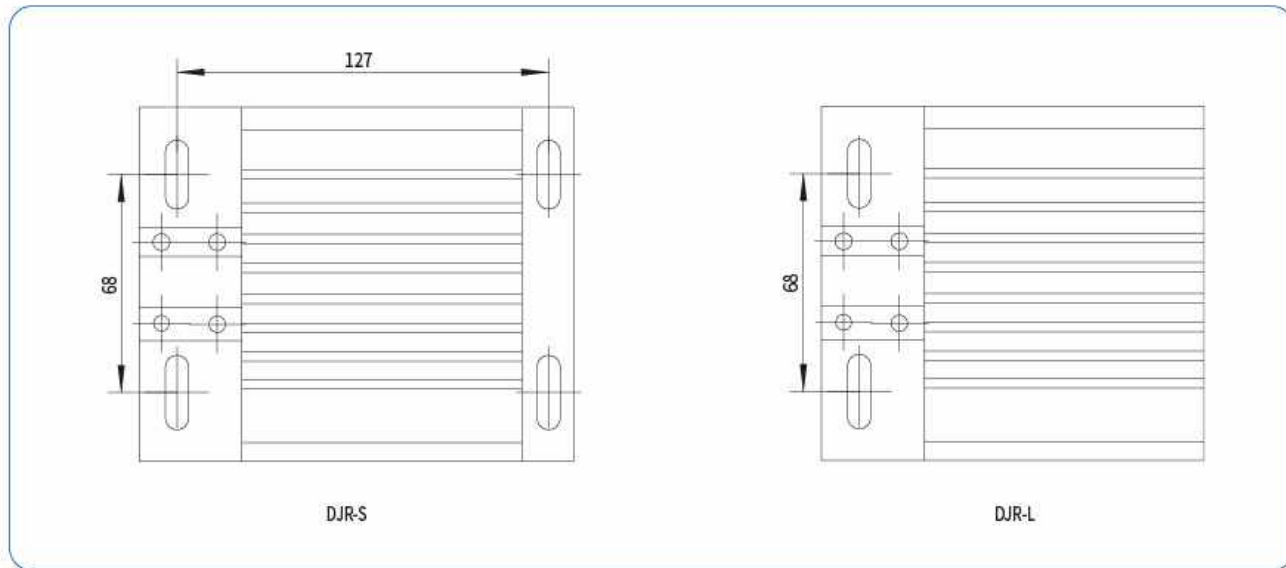


工作电压: AC220V    Operating voltage: AC220V  
 额定功率: 50~500W±5%    Rated power: 50~500W ± 5%

#### 产品概述 General

DJR-型铝合金梳妆加热器是专为电力设备防潮除湿设计的新型电热器。该加热器采用了专用的铝合金散热板型材和优质的合金电热丝组成。它体积小、外型美观、散热均匀、热传导快、散热面积大等特点，从而保证电热丝的使用寿命比一般加热器长很多，可以长期可靠的工作。

DJR-type aluminum alloy dressing heater is a new type of electric heater designed specifically for moisture-proof and dehumidification of power equipment. The heater is composed of specialized aluminum alloy heat dissipation plate profiles and high-quality alloy electric heating wires. It has the characteristics of small size, beautiful appearance, uniform heat dissipation, fast heat conduction, and large heat dissipation area, which ensures that the service life of the heating wire is much longer than that of ordinary heaters and can work reliably for a long time.



### ◇ 防爆 (钢化) 玻璃 - Explosion proof (tempered) glass



### ◇ 橡皮护圈 - Rubber retainer



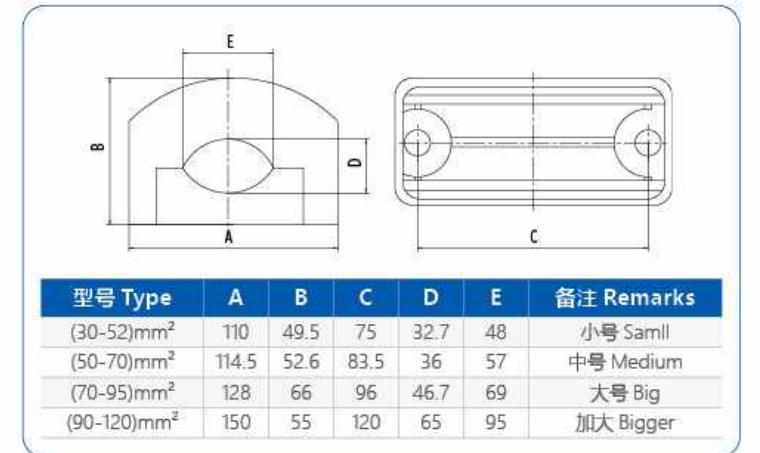
安装在柜体顶部或底部，方便进出线用，同时对电缆起到防护作用。  
 Used in the top or bottom of cabinet for the cables pass in and out, also can protect cables well.

8LS 766 003P3	扁型橡皮圈 (53 x13) Flat rubber retainer (53 x 13)
8LS 766 022	橡皮护圈 (Φ62) Rubber retainer (Φ62)
8LS 766 055.1	橡皮护圈 (+80, 塔型) Rubber retainer (Φ80, tower type)
8LS 766 004	橡皮护圈 (Φ90) Rubber retainer (Φ90)
8LS 766 005	橡皮护圈 (Φ110, 塔型) Rubber retainer (Φ110, tower type)

### ◇ 电缆夹 - Cable clamp



注: 材料 ABS 或 PAS, 订货时请注明。  
 Note: Please specify the material ABS or PAS when ordering.



### ◇ 定向轮、万向轮 - Directional wheel, universal wheel



注: 订货时若需要带刹车功能请注明。  
 Note: If brake function is required during ordering, please specify.

