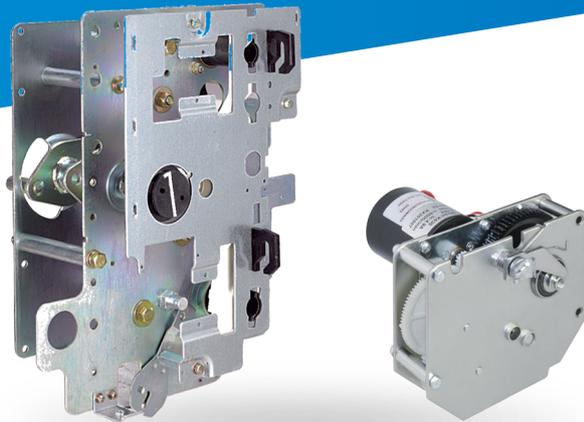


# SPE 02

## Three-Position Mechanism For Load Break Switch

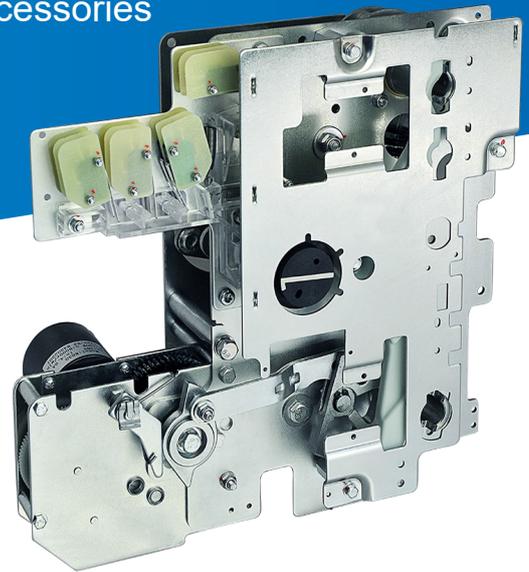
SF6 Switch: FL(R)N36-12D Switchgear Accessories



Manual Operating Mechanism ( For LBS )

Model: SPE02 -SJ

Drawing No.: 3WXJ.085.001



Motorized Operating Mechanism (For LBS)

Model: SPE02-DJ

Drawing No.: 3WXJ.085.001+3WXJ.085.002(Motor part)

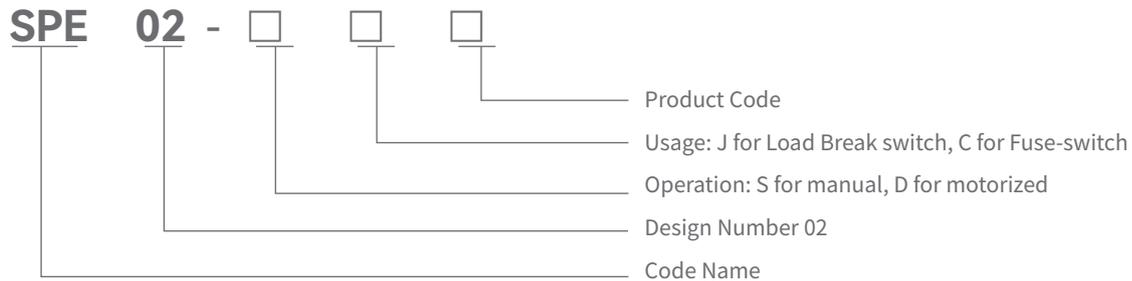


Note: If the user needs to order the motor part separately, the drawing number is 3WXJ.085.002.

### Product Introduction

SPE 02 Spring Operating Mechanism is designed for FLRN36-12D/T100-31.5 and FLN36-12D/630-20 indoor 12KV SF6 load break switches. It uses a compression spring over-center release principle and has three positions: close, open, and earth. Output angle: approx. 60°. Avg. closing/opening speed:  $\geq 3$  m/s. Mechanical endurance: 5000 close operations, 3000 earthing operations. Features fuse trip function and optional shunt trip coil. Complies with GB3804-1990 and GB16926-1997.

## Model Composition and Meaning



## SPE02- □ J Type Mechanism Operating Instructions

### Load Break Switch Closing Operation

Insert the operating handle into the lower hole of the closing operation shaft (bottom right corner) and rotate 180° clockwise. The mechanism drives the contacts to quickly perform the load switch closing operation.

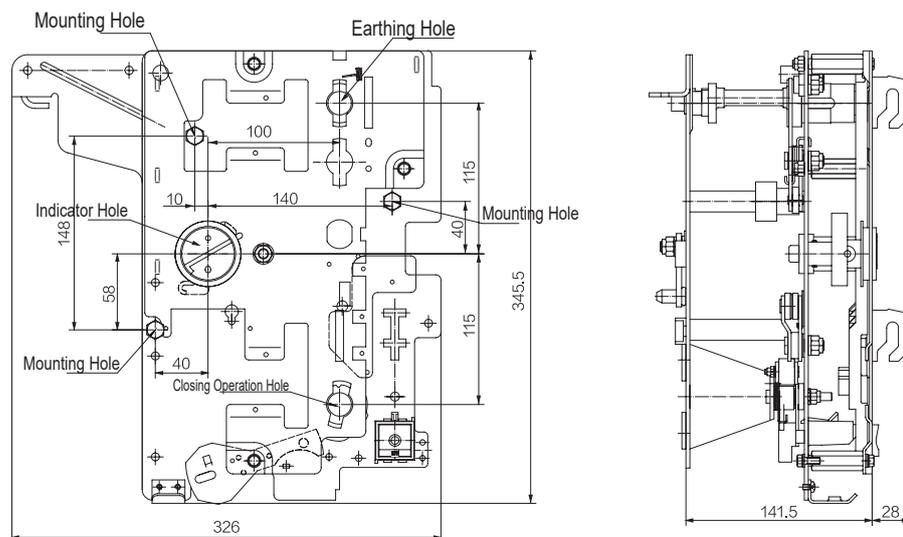
### Load Break Switch Opening Operation

Rotate the operating handle 180° counterclockwise to complete the operation.

### Load Break Switch Earthing Operation

Insert the operating handle into the earthing operation shaft hole (top right corner) and rotate 180° clockwise. The mechanism drives the contacts to quickly perform earthing closing. To perform the earthing switch opening operation, simply insert the operating handle into the earthing operation shaft and rotate 180° counterclockwise.

## Outline Dimensions

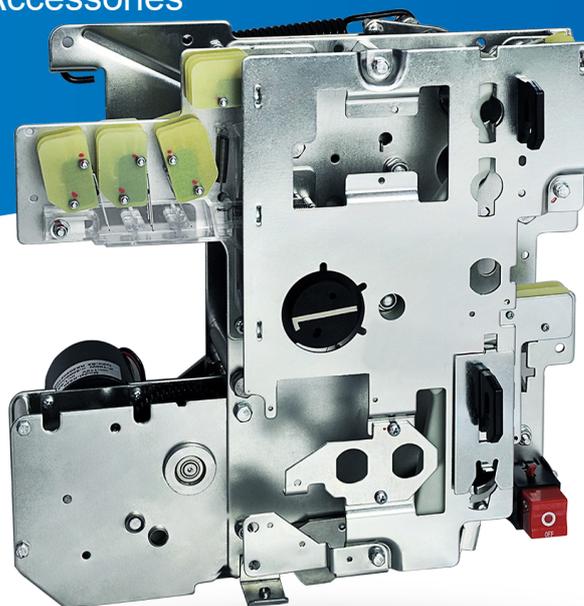


Note: All holes (mounting, earthing operation, closing operation, indicator) have identical dimensions for both incoming and outgoing mechanisms.

# SPE 02

## Three-Position Mechanism For Fuse-Switch

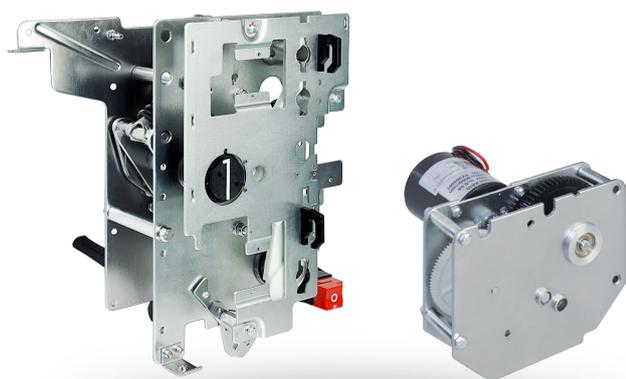
SF6 Switch: FL(R)N36-12D Switchgear Accessories



Motorized Operating Mechanism ( For Fuse-Switch )

Model type: SPE 02 □ -DC

Drawing No.: 3WXJ.084.001+3WXJ.084.002(Motor part)



Manual Operating Mechanism (For Fuse-Switch)

Model type: SPE 02 □ -SC

Drawing No.: 3WXJ.084.001



Note: If the user needs to order the motor part separately, the drawing number is 3WXJ.085.002.

## SPE02- □ A Type Mechanism Operating Instructions



### Load Break Switch Closing Operation

Insert the operating handle into the closing operation shaft hole (bottom right corner) and rotate 180 ° clockwise. The mechanism drives the contacts to quickly perform the load switch closing action, while the spring charges in preparation for opening.



### Load Break Switch Opening Operation

Press the opening button to trigger the trip, releasing the energy in the opening spring. The mechanism drives the main shaft to complete the rapid opening operation



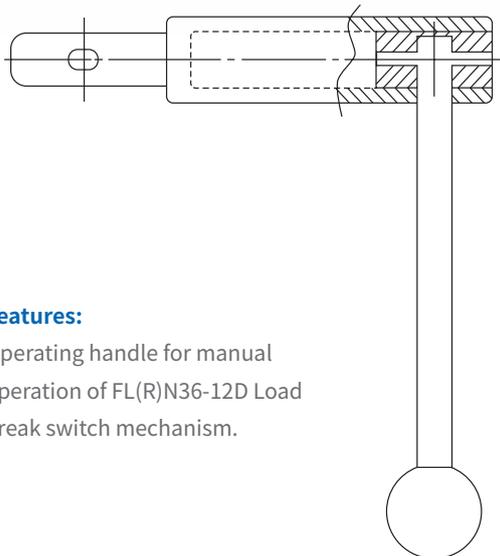
### Load Break Switch Earthing Operation

The earthing operation of the CT □ - □ C/XJ(For Fuse-Switch) is same as the CT □ - □ C(For LBS).



**Note:** 1. Fuse-switch mechanism has a fuse trip and manual opening button functions, and can be equipped with a shunt trip coil as an option.  
2. When ordering the electric spring operating mechanism, please specify the voltage rating (e.g., DC220V, DC110V, DC48V, DC24V, etc.).  
3. If a shunt trip is required, please indicate it when ordering and specify the voltage rating (e.g., DC220V, DC110V, DC48V, DC24V, etc.). If not specified, it will be considered the same as the voltage rating of the electric operating mechanism motor.

## Operating Handle 5WXJ.253.027



**Features:**

Operating handle for manual operation of FL(R)N36-12D Load break switch mechanism.

## Lower Door Interlock 5WXJ.362.007

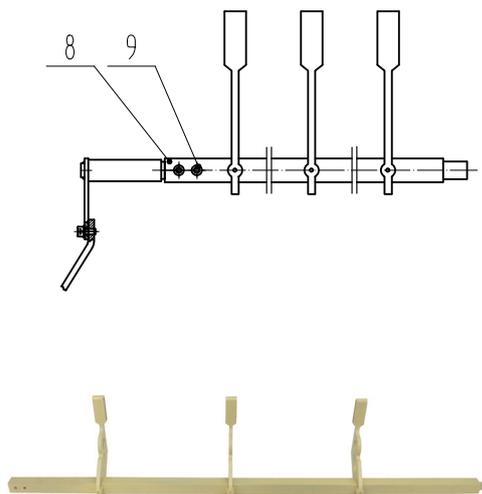
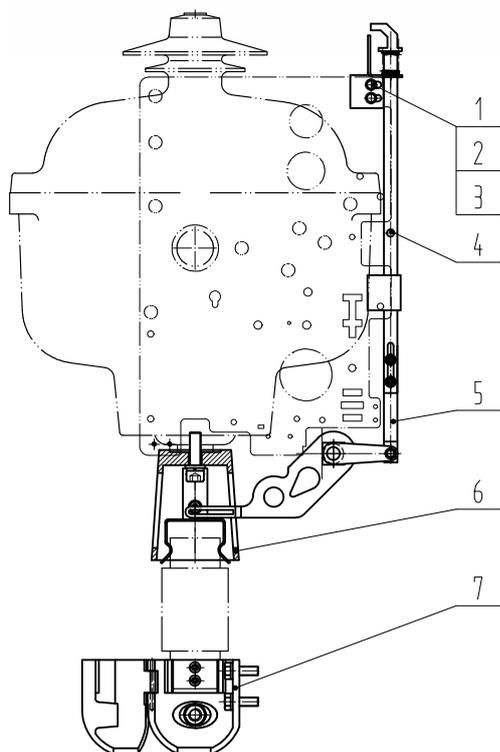


**Features:**

For connecting mechanism and switch and lower door interlock.

## Fuse Trip Device

Fuse Trip Device: FLN.5XJ.174.080



### Features:

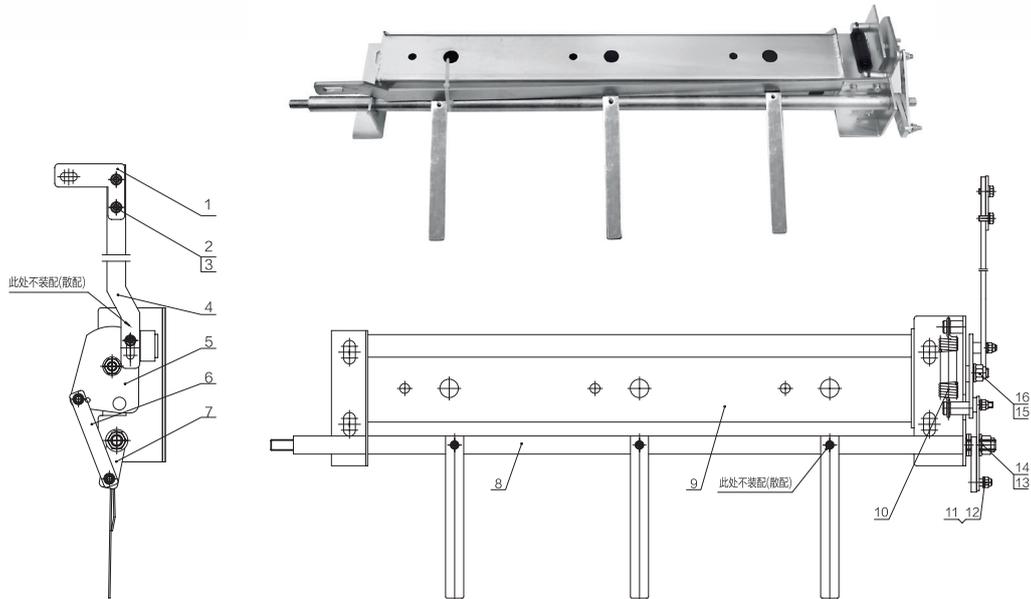
When the fuse blows, the fuse device triggers the Fuse-switch mechanism to open.

## FLN.5XJ.174.080 Fuse Trip Device Matching List

No.	Name	Model Type	Qty	Note
1	Return Spring	8XS.288.083F	1	
2	Upper Fixing Plate	FLN.8XJ.100.081	1	
3	Connecting Plate	FLN.8XJ.174.078	1	
4	Washer 5	GB93-1987	5	
5	Hexalobular Socket Pan Head Screw M5X12	GB/T 2672 -2004	5	
6	Plain Washer	GB/T97.1-2002	5	
7	Trip Indicator Plate	FLN.8XJ.174.079	1	
8	Trip Rod Set	5XS.233.002F	1	
9	Upper Fuse Base Assembly	FLN.5XJ.045.005	3	
10	Lower Outlet Base Assembly	5XS.104.010F	3	
11	Bushing	8XS.263.017F	2	
12	Trip Rod Assembly	FLN.5XJ.174.079	1	
13	Hexagon Socket Head Cap Screw M5X20	GB/T 70.1-2000	2	

## Lower Earthing Interlock

Lower Earthing Interlock: FLN.5XJ.363.016



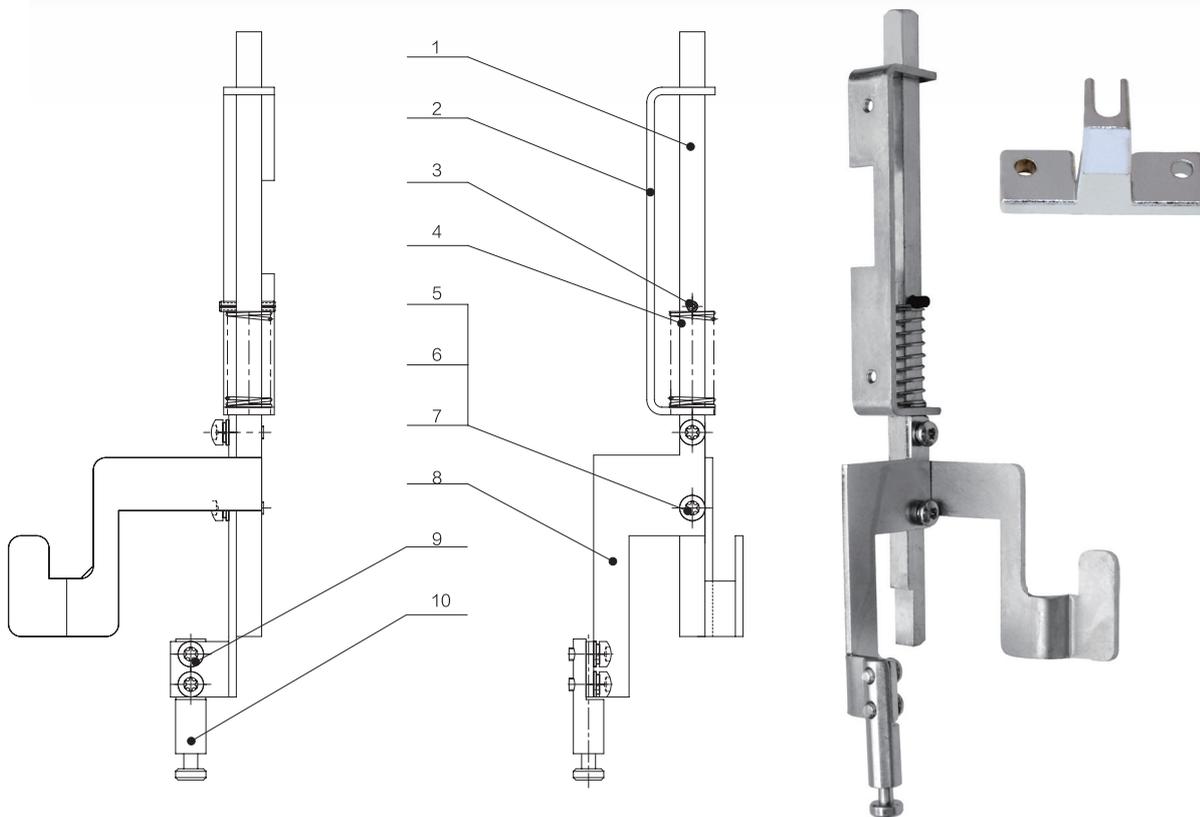
### Features:

Cooperates with the mechanism to discharge residual charge at the lower outlet terminal

## FLN.5XJ.363.016 Lower Earthing Interlock Components List

No.	Name	Model Type	Qty	Note
1	Connecting Plate	FLN.8XJ.135.082	1	
2	Hexagon Head Bolt - Full Thread M5X12	GB/T5783-2000	2	
3	Plain Washer - Grade A 5	GB/T97.1-2002	2	
4	Earthing Pull Bar Strip	FLN.8XJ.137.010	1	
5	Lower Earthing Interlock Block Welding	FLN.5XJ.143.001	1	
6	Lower Earthing Pull Bar 2	FLN.8XJ.137.012	1	
7	Lower Earthing Plate Welding	FLN.5XJ.150.038	1	
8	Lower Earthing Contact	FLN.5XJ.566.002	1	
9	Mounting Frame Welding	FLN.5XJ.042.001	1	
10	Earthing Interlock Spring Tube	FLN.8XJ.288.055	1	
11	Type 1 Non-Metallic Insert Hexagon Lock Nut M6	GB/T889.1-2000	3	
12	Plain Washer - Grade A 6	GB/T97.1-2002	3	
13	Type 1 Non-Metallic Insert Hexagon Lock Nut M12	GB/T889.1-2000	1	
14	Plain Washer - Grade A 12	GB/T97.1-2002	3	
15	Type 1 Non-Metallic Insert Hexagon Lock Nut M10	GB/T 889.1-2000	1	
16	Plain Washer - Grade A 10	GB/T97.1-2002	1	

## Two-Position Interlock Assembly (For Fuse-Switch) FLN.5XJ.363.296



### Two-Position Interlock Assembly (For Fuse-Switch) FLN.5XJ.363.296 Matching List

No.	Name	Model Type	Qty
1	Connecting Rod Welding	FLN.5XJ.206.294	1
2	Guide Rail	FLN.8XJ.260.051	1
3	Elastic Cylindrical Pin - Straight Slot - Heavy Duty 4X22	GB/T 879.1-2000	1
4	Return Spring	FLN.8XJ.282.095	1
5	Hexalobular Socket Pan Head Screw M5X16	GB/T 2672-2004	2
6	Standard Type Spring Washer 5	GB/T 93-1987	4
7	Pull Plate	GB/T97.1-2002	4
8	Pull Plate	FLN.8XJ.137.009	1
9	Hexalobular Socket Pan Head Screw M5X12	GB/T 2672-2004	2
10	Pull Rod	FLN.8XJ.174.082	1