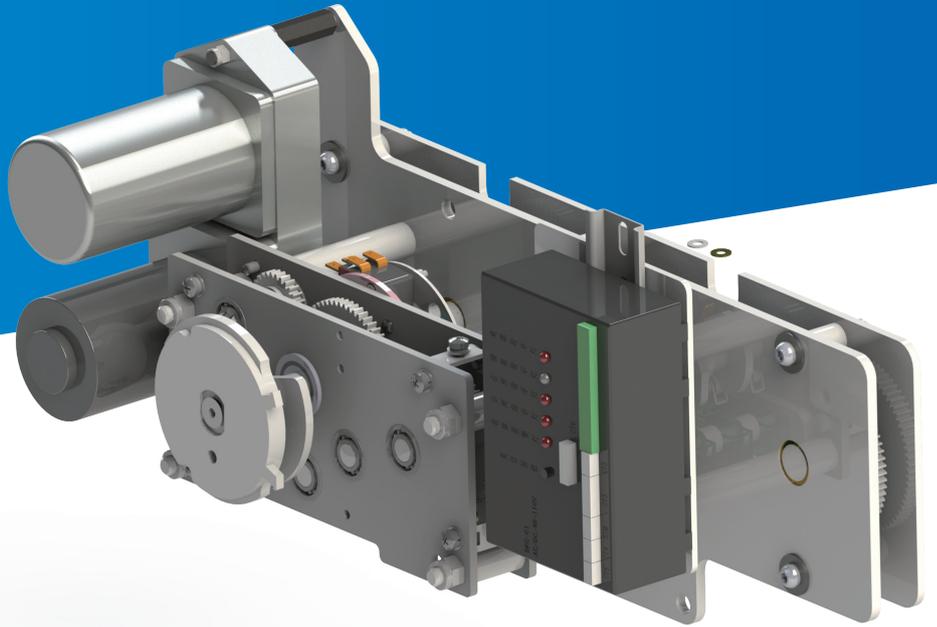


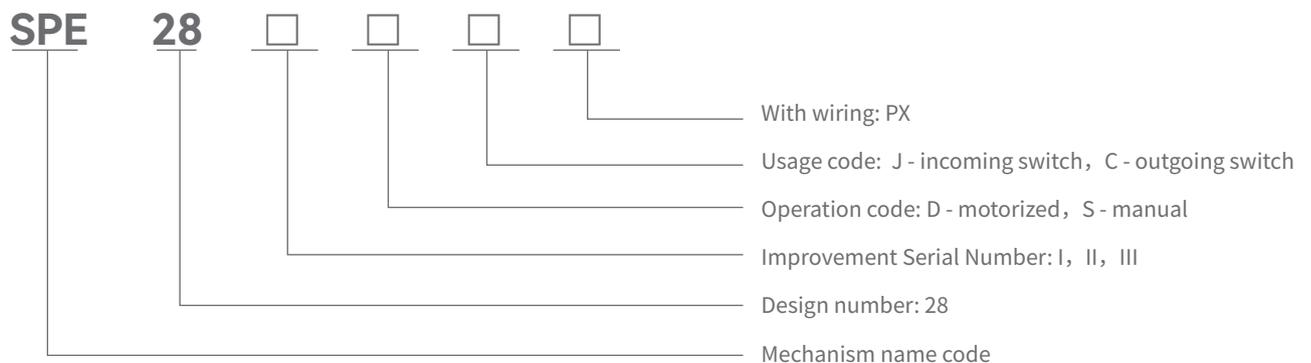
SPE28 Primary GIS Three-position Mechanism



Product Introduction

The SPE28 mechanism is controlled by a gearbox and features three positions: Closed, Open, and Earthed. A mechanical interlock is integrated between the Closed and Earthed positions to prevent incorrect operation. The product is designed to be compact, easy to install and use, and highly adaptable.

Model Composition and Meaning



Product Features

-  Used for primary Gas-insulated Switchgear
-  Features three positions: Closed, Open, and Earthed
-  Compact, easy installation and high practicality
-  Manual and motorized operation available
-  Mechanical endurance: Close ≥ 5000 , Open ≥ 5000

Operating Instructions

Manual Operation

Disconnect Operation



Disconnect Close

Mount the mechanism on the switch. Insert the operating handle into the upper part of the mechanism (close operation shaft) and turn clockwise approximately 90°. The main circuit closes under spring force. For motorized operation, press the close button to energize the motor.



Disconnect Open

Insert the operating handle into the upper part of the mechanism (close operation shaft) and turn counterclockwise approximately 90°. The main circuit opens under spring force. For motorized operation, press the open button to energize the motor.

Earthing Operation



Earthing Close

Move the lever to the "Earthing" position. Insert the crank into the earthing operation and turn clockwise 17 turns until the crank disengages, then remove it.



Earthing Open

Move the lever to the "Earthing" position. Insert the crank into the earthing operation and turn counterclockwise 17 turns until the crank disengages, then remove it.

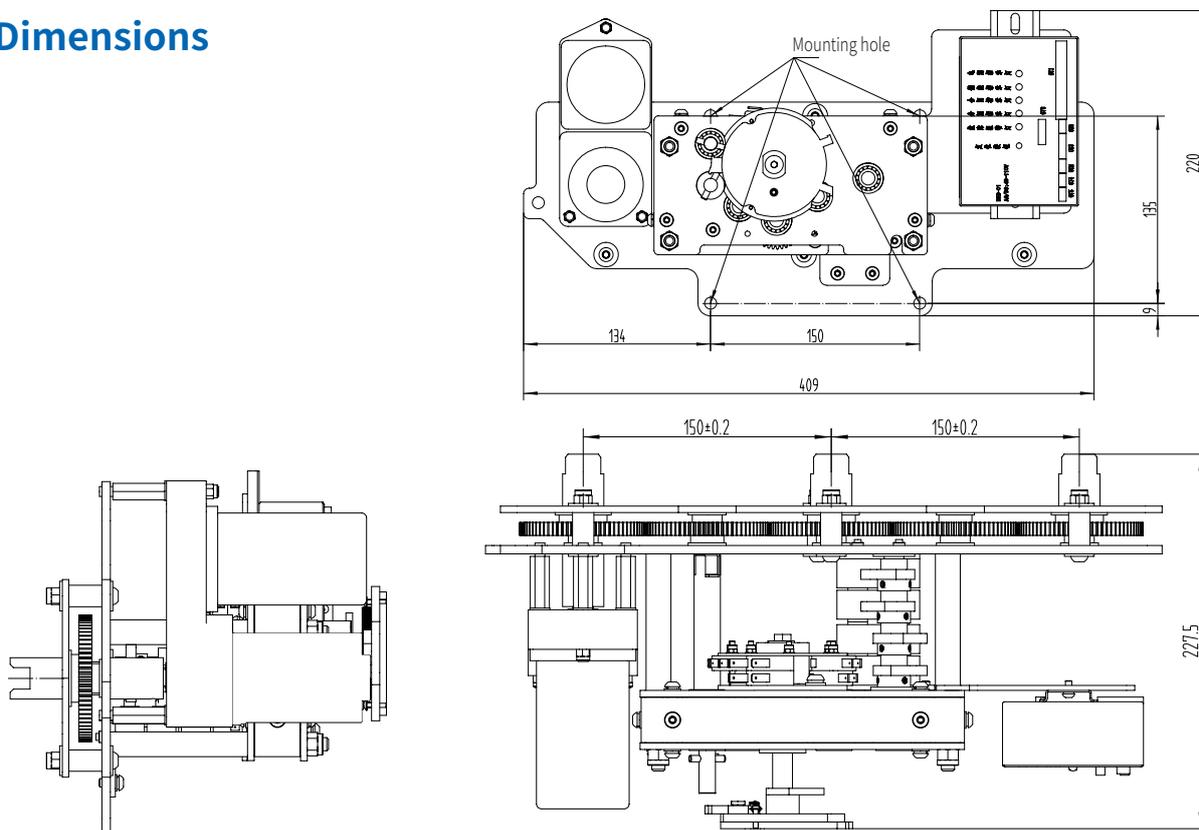
Interlock between disconnect and earthing operations. When the mechanism is in the open position, both disconnect close and earthing close operations are permitted. During cranking, the crank cannot be removed due to the interlock; it can only be removed after the operation is successfully completed. At this time, the other operation port cannot accept insertion.

Electric Operation

Once powered, the mechanism displays its current position. Each position can be operated via buttons.

If the mechanism is not in any of the three positions when powered, the module will report an error. Manually adjust the mechanism to any position and press reset — normal operation can then resume.

Dimensions



Operating Condition

Ambient air temperature:

Maximum temperature +70° C, minimum temperature -40° C

Humidity:

Average daily relative humidity $\leq 95\%$; Average monthly relative humidity $< 90\%$.

Altitude:

Suitable for use below 3000 metres;

Seismic requirement:

Seismic intensity ≤ 8 degrees

The surrounding air shall be free from significant contamination by corrosive or flammable gases, water vapor, etc. Frequent violent vibrations shall not exist.

Unless otherwise specified, the mechanism is designed for normal service conditions. If the actual service conditions differ from the normal service conditions, this shall be subject to agreement between the user and the manufacturer.

Lifting and Transport

Keep the center of gravity downward — do not tilt or turn over. Protect the module surface from damage. Use anti-vibration measures during transport.

Unpacking Inspection

Check the packaging for damage before opening. Inspect the appearance for damage, check connections and fasteners. Verify the nameplate matches the order. Ensure all documents (certificate, manual, test report) are included.

Installation and Commissioning

The SPE28 is factory-tested — no adjustment is needed. Contact us if any issue is found.

Assembly Precautions

Do not stress or scratch insulating parts. Use the operating handle. The handle disengages when operation is complete — do not force it.

Storage

The product shall be stored in a place protected from impact, dry, well-ventilated, and free from corrosive gases. The storage period is 20 years.

Maintenance

When operating under normal conditions as specified in the installation and operating instructions, periodic inspection and maintenance of the switch and operating mechanism are still required due to environmental variations.

THREE POSITION FULL SEALING MECHANISM