600 A 15/25 and 35 kV class push-OP insulated standoff bushing installation instructions
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Safety for life

Eaton’s Cooper Power series products meet or exceed all applicable industry standards relating to product safety. We actively promote safe practices in the use and maintenance of our products through our service literature, instructional training programs, and the continuous efforts of all Eaton employees involved in product design, manufacture, marketing and service.

We strongly urge that you always follow all locally approved safety procedures and safety instructions when working around high-voltage lines and equipment and support our “Safety For Life” mission.

Safety information

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians, who are familiar with this equipment should install, operate and service it.

A competent technician has these qualifications:

- Is thoroughly familiar with these instructions.
- Is trained in industry-accepted high- and low-voltage safe operating practices and procedures.
- Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.
- Is trained in the care and use of protective equipment such as flash clothing, safety glasses, face shield, hard hat, rubber gloves, hotstick, etc.

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

Hazard Statement Definitions

This manual may contain four types of hazard statements:

**DANGER**
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Indicates a hazardous situation which, if not avoided, could result in equipment damage only.

**Safety instructions**

Following are general caution and warning statements that apply to this equipment. Additional statements, related to specific tasks and procedures, are located throughout the manual.

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**DANGER**

Hazardous voltage. Contact with high voltage will cause death or severe personal injury. Follow all locally approved safety procedures when working around high- and low-voltage lines and equipment.

**WARNING**

Before installing, operating, maintaining, or testing this equipment, carefully read and understand the contents of this manual. Improper operation, handling or maintenance can result in death, severe personal injury, and equipment damage.

**WARNING**

This equipment is not intended to protect human life. Follow all locally approved procedures and safety practices when installing or operating this equipment. Failure to comply may result in death, severe personal injury and equipment damage.

**WARNING**

Power distribution and transmission equipment must be properly selected for the intended application. It must be installed and serviced by competent personnel who have been trained and understand proper safety procedures. These instructions are written for such personnel and are not a substitute for adequate training and experience in safety procedures. Failure to properly select, install or maintain power distribution and transmission equipment can result in death, severe personal injury, and equipment damage.
CAUTION

The Eaton Cooper Power series 600 A PUSH-OP Insulated Standoff Bushing is designed to be operated in accordance with normal safe operating procedures. These instructions are not intended to supersed or replace existing safety and operating procedures. Ensure that the standoff bushing is rated for the intended application before it is installed.

The PUSH-OP Standoff Bushing should be installed and serviced only by personnel familiar with good safety practices and the handling of high-voltage electrical equipment.

Product information

Introduction
The PUSH-OP Insulated Standoff Bushing is designed to be installed in the parking stand mounted on switchgear, transformers, or other apparatus. A drain wire lug is provided on the standoff bracket for attachment of a drain wire to ensure deadfront construction. The bushing provides a fully shielded, submersible connection for deadbreak operation. A hotstick tool is used to place the standoff bushing in the parking stand on the front plate of the apparatus. The PUSH-OP Connector is then installed onto the standoff bushing tap.

Read this manual first
Read and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment.

Additional information
These instructions cannot cover all details or variations in the equipment, procedures, or process described nor provide directions for meeting every possible contingency during installation, operation, or maintenance. For additional information, contact your representative.

Acceptance and initial inspection
Each insulated standoff bushing is in good condition when accepted by the carrier for shipment. Upon receipt, inspect the shipping container for signs of damage. Unpack the insulated standoff bushing and inspect it thoroughly for damage incurred during shipment. If damage is discovered, file a claim with the carrier immediately.

Handling and storage
Be careful during handling and storage of the insulated standoff bushing to minimize the possibility of damage. If the insulated standoff bushing is to be stored for any length of time prior to installation, provide a clean, dry storage area.

Standards
ISO 9001 Certified Quality Management System
Installation procedure

⚠️ WARNING

All associated apparatus must be de-energized during installation, operation and maintenance.

Failure to comply may result in death, severe personal injury and equipment damage.

Equipment required

PUSH-OP insulated standoff bushing kit
- PUSH-OP Standoff Bushing
- Silicone Lubricant
- Hotstick
- Copper Drain Wire
- Installation Instruction Sheet

Assembly and operation

Step 1

Clean and lubricate
- Remove protective shipping cap.
- Clean and lubricate bushing interface using the lubricant supplied.

Step 2

Shield ground attachment
- Attach a copper drain wire from the drain wire lug on the standoff bushing to the apparatus ground bus.

Step 3

Install
- Grasp eyebolt on standoff bushing with hotstick.
- Install standoff bushing on parking stand using hotstick.

Note: Standoff bushing must be properly centered between adjacent bushings to avoid interference.
- Turn eyebolt clockwise until tight using hotstick.
- For bracket with hitch pin option, using a hotstick, remove hitch pin.
- Pull latch handle with hotstick to open bail bracket assembly.

Step 4

Operate
- For bracket with hitch pin option, using a hotstick, remove hitch pin.
- Use hotstick to release latch handle on PUSH-OP terminator adjacent to standoff bushing.
- Grasp terminator operating eye with hotstick and pull eye completely into hotstick.
- Move terminator to standoff bushing, engage the shroud pins of terminator bracket in bail bracket locking slots, and push until latch plate engages first notches.
- Release terminator operating eye and push forward on push plate with hotstick until a bump is felt and latch plate engages locking teeth.
- Pull back on push plate with hotstick to ensure latch plate is engaged.
- Cover de-energized apparatus bushing with a PUSH-OP Bushing Adapter.

Note: Standoff bushing must be covered with PUSH-OP Bushing Adapter to keep the interface clean when a PUSH-OP 600 A Elbow Terminator is not mated to it.
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