600 A, 15 kV, 25 kV and 35 kV Class Insulated Standoff Bushing Installation and Operation Instructions
DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

The information, recommendations, descriptions and safety notations in this document are based on Eaton Corporation’s (“Eaton”) experience and judgment and may not cover all contingencies. If further information is required, an Eaton sales office should be consulted. Sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between Eaton and the purchaser.

THERE ARE NO UNDERSTANDINGS, AGREEMENTS, WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OTHER THAN THOSE SPECIFICALLY SET OUT IN ANY EXISTING CONTRACT BETWEEN THE PARTIES. ANY SUCH CONTRACT STATES THE ENTIRE OBLIGATION OF EATON. THE CONTENTS OF THIS DOCUMENT SHALL NOT BECOME PART OF OR MODIFY ANY CONTRACT BETWEEN THE PARTIES.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability or otherwise for any special, indirect, incidental or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations and descriptions contained herein. The information contained in this manual is subject to change without notice.
Eaton meets or exceeds all applicable industry standards relating to product safety in its Cooper Power™ series products. 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 arc flash clothing, safety glasses, face shield, hard hat, rubber gloves, clampstick, 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 an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

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

**CAUTION**
Indicates a potentially hazardous situation which, if not avoided, may 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.

**DANGER**
Hazardous voltage. Contact with hazardous 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 can 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.
Product information

**WARNING**
All associated apparatus must be de-energized during installation or maintenance.

---

**CAUTION**
Eaton’s Cooper Power series 600 A Insulated Standoff Bushing is designed to be operated in accordance with normal safe operating procedures. These instructions are not intended to supersede or replace existing safety and operating procedures. The insulated standoff bushing should be installed and serviced only by personnel knowledgeable of good safety practices and fully trained on the installation and application of high voltage electrical equipment.

**NOTE:** For product applications that require ratings or characteristics not shown, contact Eaton for specific recommendations.

---

Introduction
Eaton’s Cooper Power series 600 A, 15 kV, 25 kV and 35 kV Insulated Standoff Bushing meets the full requirements of ANSI®/IEEE Standard 386™ — Separable Insulated Connector Systems, and provides a single deadbreak interface made of high-quality insulating epoxy material. It is used in pad-mounted cabinets, underground vaults and other apparatus to isolate and sectionalize an energized cable. The Insulated Standoff Bushing is designed to be installed in the parking stand mounted on a transformer or other apparatus. A grounding lug is provided on the standoff bracket for attachment of a ground wire to ensure deadfront construction. The bushing provides a fully shielded, submersible connection for deadbreak operation. All standoff bushing brackets have a stainless steel eyebolt with a brass pressure foot. The bushing body is bolted to a stainless steel base bracket using a stainless steel bolt. Special pins ensure firm location of the bushing on the bracket.

---

Insulated standoff bushing kit
Each kit contains:
- Insulated Standoff Bushing
- Lubricant
- Instruction Sheet

### Installation

**Ground**
Attach ground drain wire from bushing ground lug to system ground.

**Clean and lubricate**
1. Remove protective shipping cap.
2. Clean and lubricate bushing interface using lubricant supplied or approved equivalent.

**Install**
1. Grasp eyebolt on standoff bushing using hotstick.
2. Install standoff bushing on parking pocket using hotstick.
3. Use hotstick to turn eyebolt clockwise until tight to ensure rigid mounting.

**Note:** 600 A standoff bushings are designed to fit standard parking pockets furnished with most apparatus.

---

**Operation**
1. Disconnect connector from apparatus bushing following connector operating instructions.
2. Position connector on standoff bushing.
3. Thread connector stud clockwise into standoff bushing until it is tightly seated.
4. Cover de-energized bushing with a 600 A grounded insulated protective cap or 600 A bushing adapter with 200 A insulated protective cap.

**Note:** 600 A standoff bushing interface must be covered at all times when not in use, using either the shipping cap (if de-energized) or an insulated protective cap (if energized).
This page is intentionally left blank.