RTE® EL-BAY-O-NET FUSE
Re-Fusing Instructions

Powering Business Worldwide

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Contents

Safety for life

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. G103.3

⚠ 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. G101.0

⚠ 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. G102.1

⚠ 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. G122.2

Product information

Introduction

Eaton's Cooper Power series Bay-O-Net fuse is designed for use in padmounted or subsurface distribution transformers filled with transformer oil or approved equivalent.

Read this manual first

Eaton's Cooper Power series EL Bay-O-Net 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.

Handling and storage

The fuse should be installed and serviced only by personnel familiar with good safety practice and the handling of high voltage electrical equipment.

IMPORTANT

Accompanying decals should be prominently displayed at or near location of Bay-O-Net as a warning to service personnel.

Failure to do so will constitute a waiver of all warranty and indemnity obligations which may be attributable to Eaton.

Installation

The fuse assembly is mounted through the transformer tank wall for sidewall mount. A 4-5/8" hole with keyed slot for use in sidewall underoil application is gasketed on the inside of the tank with an external locking nut. All inner gasket surfaces of the tank must be free of burrs. The fuse is designed for use in operating temperature (in oil) at 140°C. If the fuse is installed, the plastic follower assembly supplied with the housing should be installed on lower end of fuse. Otherwise, the follower assembly should be attached to the Bay-O-Net operating handle so the user can assemble it to fuse.

Re-fusing instructions

1. Release internal pressure with pressure relief valve if available.

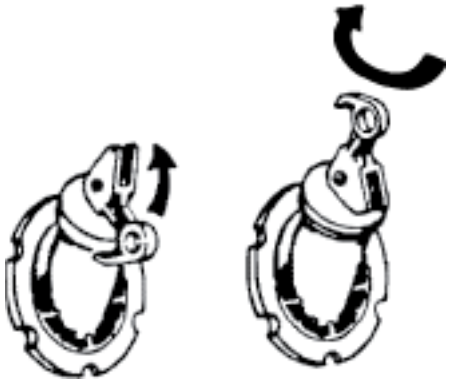

Figure 1. Release Internal Pressure

2. Using a shotgun type switchstick or hookstick, hook the eye of the Bay-O-Net Assembly and pull upward and outward (refer to Figure 1) to release the locking mechanism. Rotate the assembly 180° clockwise with the fuse still in place. The locking hook should be pointing upward. Pause to be sure all internal pressure has been relieved.
3. With your head turned to one side, pull the fuse outward 6" to break the load (refer to Figure 2).

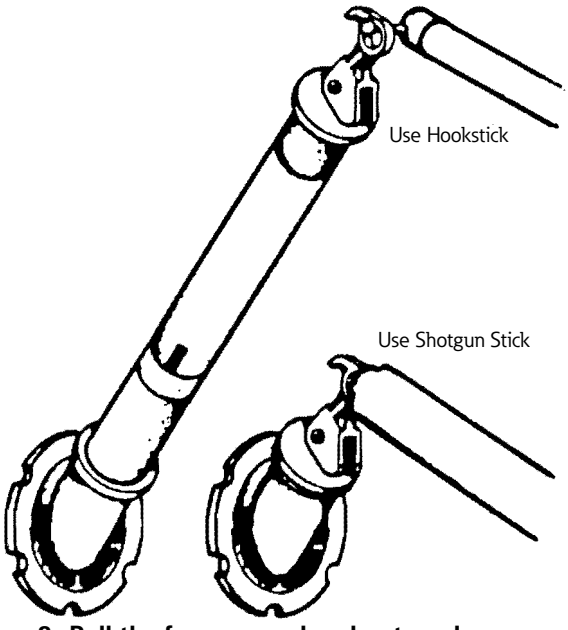

Figure 2. Pull the fuse upward and outward

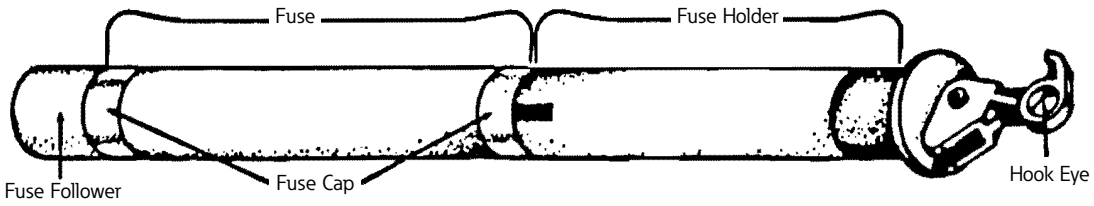

Figure 3. EL Bay-O-Net Fuse

4. Then hold for approximately 30 seconds to allow transformer oil to drain from the fuse unit. Slowly withdraw the fuse unit and pull it all the way out.
5. Using a rag, wipe the fuse assembly free of oil.
6. Remove the fuse follower (White Arc Follower at the bottom end of the assembly) by unscrewing it in a counterclockwise direction.
7. Remove the fuseholder tube by unscrewing it in a counterclockwise direction.
8. Check the catalog number of the replacement fuse to assure the proper size fuse is installed. The catalog number is stamped on the side of the fuse. Numbers are of the following format: P/N 3534030M11. This example is a 15.5 kV 30 A fuse. The three numbers immediately preceding the "M" indicate continuous current rating.
9. With the proper fuse selected, carefully mate the threads of the fuseholder to those at one end of the fuse and turn it in a clockwise direction until the mating surfaces are firmly seated. Hand tightening is sufficient. DO NOT OVERTIGHTEN.
10. Install the Fuse Arc Follower in similar manner. DO NOT OVERTIGHTEN.
11. Using a shotgun type switchstick, insert the Bay-O-Net into the housing and slide it approximately halfway in. With a sudden fast motion, slam the Bay-O-Net all the way into the housing. The Bay-O-Net is properly seated if the housing cover is tight against the housing.
12. Rotate the locking hook eye until the locking hook is pointing downward. Push the locking hook downward and inward (toward the transformer) locking the cover in place. Re-fusing is now complete.

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