Current-Limiting – Type NXC® (C-Rated) Fuse
Installation Instructions
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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
General

Standard safety procedures should be followed when removing and installing NXC® fuses on capacitor blocks.

Removal

1. Remove all power from capacitor block.
2. Allow capacitors to discharge internally for five minutes; then manually discharge all capacitors, including the suspected failed capacitor unit.
3. Remove fuse leader from capacitor bushing.
4. Remove fuse from bus bar and retain mounting hardware for installation of replacement fuse.

Installation

NXC fuses may be mounted by various means on capacitor blocks. This instruction bulletin provides information for the four standard configurations as shown in Figure 1 through Figure 4.

⚠️ WARNING

NXC fuses should be installed with the leader pointing down (see Figure 1 through Figure 4).

1. Verify that the proper rated fuse is being installed by checking information provided on fuse identification label.
2. Remove leader wire from the hex-head bolt supplied with the fuse. If a hose clamp is supplied with the replacement fuse, remove the clamp from the fuse before fuse installation (see Figure 5).
3. Secure the fuse to the bus bar with the .50-13 UNC-2A x .75 stainless steel hex reg bolt supplied with the fuse or use the mounting hardware retained from the fuse that was removed.

⚠️ CAUTION

Do not apply any type wrenching tool directly on the fuse when installing it. Sufficient torque can be applied with the hand for a proper fit.

4. Check that the recommended spacing exists between end of main fuse housing and closest conductive part on capacitor. Refer to Figure 1 through Figure 4 as applicable.
5. Secure fuse leader to capacitor bushing connector and recheck spacing. Leader should be snug and not contain any slack.

6. Cut off excessive leader wire which extends beyond capacitor bushing.

**Note:** A blown fuse is indicated by the fuse leader hanging from the capacitor bushing and not connected to the fuse.

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**CAUTION**

This product as designed and packaged by Eaton is classified by the USDOT as Not Regulated as an Explosive. The leader wire must be held in place by attaching the wire under the hex-head bolt or clamped to the fuse body to maintain this classification when an un-operated fuse is transported.

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