

## Control Fuse Replacement (for 1250, 1650, and 3000A 1395 DC Drives)

### Contents

This document shows how to remove and replace control fuses in a 1250, 1650, or 3000A 1395 DC drive.

### What This Kit Contains

Using the table below, verify that you have received the appropriate items in your kit:

<b>For this part:</b>	<b>You should receive this quantity:</b>
control fuse	6(F1-3), 2(F4), 2(F16), 4(F14-15), 4(F20-21)

### Other Items Needed

Before you begin, be sure you also have the following:

- Tools needed for:
  - Removing and installing fuses (fuse puller)
  - Tightening screws (slotted screwdriver)
  - Testing for voltage (voltmeter or multimeter)
- Documentation:
  - Your drive system schematics
  - Publication 1395-5.40, *Bulletin 1395 Digital DC Drive—User Manual*
  - Publication 2361-5.01, *Bulletin 1395 Digital DC Drive in Bulletin 2361 Motor Control Center for Drive Systems—User Manual*

## Safety Precautions

The following general precautions apply when working on drives:

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**ATTENTION:** Only those familiar with the drive system, the products used in the system, and the associated machinery should plan or implement the installation, startup, and future maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.

**ATTENTION:** Verify that all sources of AC and DC power are deenergized and locked out or tagged out in accordance with the requirements of ANSI/NFPA 70E, Part II.

**ATTENTION:** The system may contain stored energy devices. To avoid the hazard of electrical shock, verify that all voltage on capacitors has been discharged before attempting to service, repair, or remove a drive system or its components. You should only attempt the procedures in this manual if you are qualified to do so and are familiar with solid-state control equipment and the safety procedures in publication NFPA 70E.

**ATTENTION:** When servicing any unit, do not drop any nuts, bolts, washers, etc. inside the unit, as they may cause a short circuit on power up.

**ATTENTION:** This drive system contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static control precautions are required when installing, testing, or repairing this assembly. Component damage can result if ESD control procedures are not followed. If you are not familiar with static control procedures, refer to Rockwell Automation publication 8000-4.5.2, *Guarding Against Electrostatic Damage* or any other applicable ESD protection handbook.

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## Special Instructions

**Important:** You will need to reuse parts that are removed from the drive. Place parts, in the order removed, on a clean surface.

**Important:** Some washers, such as clamp and Belleville washers, have only one correct orientation.

## Preliminary Steps

Before replacing fuses, shut off the drive power, wait five minutes for the voltage to discharge, open the disconnect bay door, and remove the Lexan™ shielding.

## Removing Control Fuses

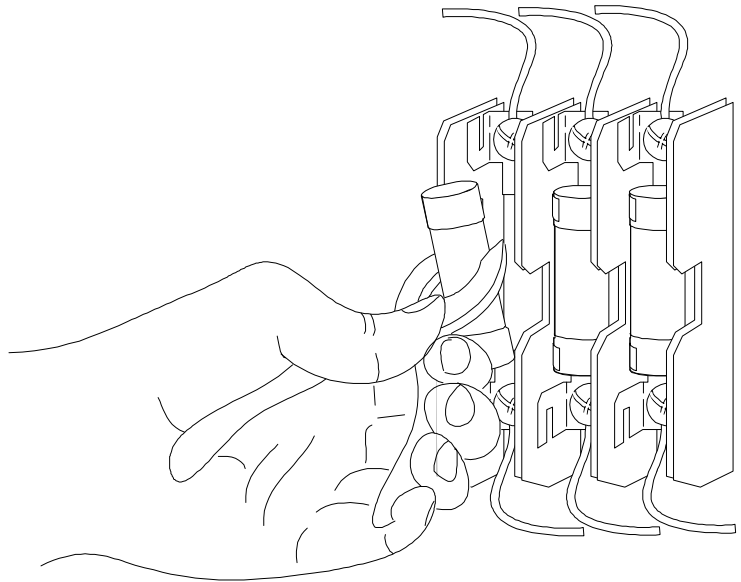
1. Using a voltmeter, test the voltage across the three phases, then across the fuses.



**ATTENTION:** If there is any voltage present, remove the source of the voltage and check for voltages again before proceeding to the next step.

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2. Using a fuse puller, pull the faulty fuses out of the fuseblock.



## Installing Control Fuses

1. Firmly press control fuses into the fuseblock.
2. Secure all terminal screws.

## Concluding Steps

After installing the control fuses, replace all Lexan shielding and secure the bay door. Dispose of old parts according to your company procedures and local ordinances.

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