

3-Phase Line MOV Replacement

Contents

This procedure contains the necessary procedures to replace 3-phase line MOVs.

What This Kit Contains

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

For this part:	You should receive this quantity:
phase-to-phase MOV	3
neutral-to-ground MOV	1

Other Items Needed

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

- Whatever tool(s) you will need to:
 - Disconnect and connect wiring
 - Remove, loosen, and tighten screws (including terminal screws)
- Documentation:
 - Your drive system schematics
 - Your product's user/installation manual

Allen-Bradley Spares

Safety Precautions

The following general precautions apply to Drive Systems' products and their respective drive systems:



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. Dropped items must be found and removed before you apply power.

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.

Special Instructions

The following special instructions apply to Drive Systems' products and their respective drive systems:

Important: As you remove parts, place them in order on a clean surface because you will need to reuse some of them during reassembly.

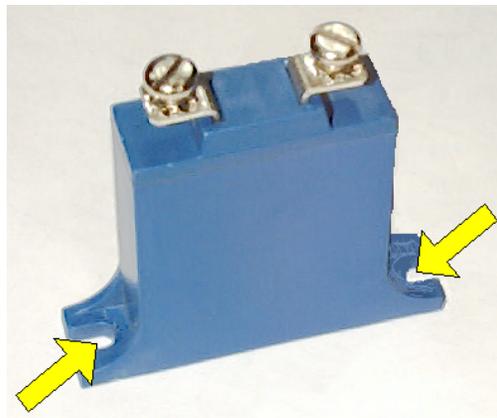
Important: Some washers, such as the diode clamp washers and the Belleville washers used on busbar bolts, have only one correct orientation.

Removing an MOV

Follow this procedure to remove the fan:

1. Remove all Lexan™ guards that shield the MOVs.
2. Disconnect the power wiring to the MOV.
3. Remove the 2 screws that secure the MOV to the subpanel. (The 2 screws secure the MOV to the subpanel at the arrows shown in Figure 1.)
4. Remove the MOV.

Figure 1
An MOV



Installing an MOV

Use this procedure to install an MOV:

1. Verify that the MOV has the correct rating.
2. Position the MOV in its proper location.
3. Secure the MOV to the subpanel using the 2 screws.
4. Reconnect all power wiring to the MOV.
5. Verify wiring per system schematics.
6. Replace any Lexan guards that you removed.
7. Dispose of the removed part according to your company's procedures and local ordinances.

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