

Automatic Reversing Kit for Non-Regenerative FlexPak Plus and MinPak Plus DC Drives

Model Number 14C226

Instruction Manual D2-3384



ATTENTION: Only qualified electrical personnel familiar with the construction and operation of this equipment and the hazards involved should install, adjust, operate, and/or service this equipment. Read and understand this manual and other applicable manuals in their entirety before proceeding. Failure to observe this precaution could result in severe bodily injury or loss of life.

ATTENTION: The Automatic Reversing kit contains static-sensitive components. Do not touch the components or connectors on the printed circuit board. When not installed, the contents of the kit should be stored in an anti-static bag. Failure to observe this precaution could result in damage to, or destruction of, the equipment.

Product Description

The Automatic Reversing kit provides automatic reverse-direction capability for single-phase, non-regenerative FlexPak™ Plus and MinPak™ Plus DC drives. The Automatic Reversing kit allows the drive to sequence off, and then immediately sequence on again, providing a fast, automatic change of direction. This response can be generated by either an external switching signal or by the manual Forward/Reverse switch on the operator's control station.

Important: The Automatic Reversing kit cannot be used with the Dynamic Braking kit.

To use the Automatic Reversing kit with:

- 1/4 to 1-1/2 HP MinPak Plus drives: An Auxiliary Mounting Bracket (M/N 14C209) and a Reversing Contactor (M/N 14C217 or 14C218) must be installed.
- 3 to 5 HP MinPak Plus drives: A Reversing Contactor (M/N 14C217 or 14C218) must be installed.
- FlexPak Plus drives: A Reversing Contactor (M/N 14C293) must be installed.

The Automatic Reversing kit is a printed circuit board assembly with a fixed wire harness. The kit mounts on the drive's auxiliary mounting bracket. No other mounting hardware is required. The contents of the Automatic Reversing kit are listed in table 1.

Table 1 – Contents of the Automatic Reversing Option

Description	Quantity	Part Number
Automatic Reversing Kit with Wire Harness	1	0-54380
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Installing the Automatic Reversing Kit



ATTENTION: Do not install modification kits with power applied to the drive. Disconnect, lock out, and tag all sources of incoming AC power to the drive before attempting such installation. Verify that no voltage is present at the drive's AC input terminals, L1 and L2. Failure to observe this precaution could result in severe bodily injury or loss of life.

ATTENTION: The user is responsible for conforming with all applicable local, national, and international codes. Failure to observe this precaution could result in damage to, or destruction of, the equipment.

ATTENTION: This kit contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static control precautions are required when installing, testing, servicing, or repairing this assembly. Failure to observe these precautions could result in damage to, or destruction of, the equipment.

Refer to your drive instruction manual for help locating and identifying drive components. To install the Automatic Reversing kit in your FlexPak Plus or MinPak Plus non-regenerative DC drive:

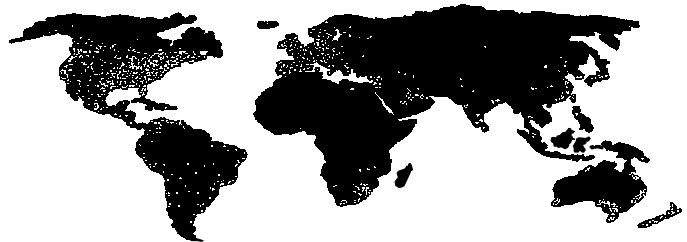
- Step 1. Disconnect, lock out, and tag input power to the drive.
- Step 2. Remove the drive cover.
- Step 3. Verify that no voltage is present at the drive's AC input terminals, L1 and L2.
- Step 4. Mount the Automatic Reversing kit on the right side of the Auxiliary Mounting Bracket. Orient the kit so that the wiring harness points down toward the Regulator board. Press the four nylon pins on the kit firmly into the mounting holes in the bracket.
- Step 5. Connect the Automatic Reversing kit's three-wire harness connector to the three pins labeled "AUTO REV." These pins are near the upper left corner of the drive's Regulator board, to the right of the connector for the Auxiliary M-Contactor. Connect the purple wire (40) to the pin marked "PUR". Press the connector onto the pins.
- Step 6. Reattach the cover to the drive.
- Step 7. Apply power and test the operation of the drive.

This completes installation of the Automatic Reversing kit.

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