



PowerFlex 700L Active Converter Firmware v3.003

This release note describes major revision 3, minor revision 3 of firmware for PowerFlex 700L Active Converters.

Introduction

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Determining Firmware Revision Level

To determine the firmware version for a PowerFlex 700L Active Converter, view parameter 204 - [Control SW Ver]. The firmware version is the data in this parameter.

Example:

Firmware Version 3.002

Firmware revision from parameter 204 - [Control SW Ver] 3.002

Firmware Upgrades

This section describes procedures to flash upgrade your firmware using HyperTerminal. Downloads are provided on the Allen-Bradley Web Updates site located at <http://www.ab.com/support/abdrives/webupdate>.

1. Remove/disconnect any HIMs before proceeding.
2. Download the flash update file from the Allen-Bradley Web Updates site.
3. Connect to the PowerFlex 700L drive using a 1203-USB or 1203-SSS Series B serial converter and HyperTerminal.
4. Select Flash Upgrade.
5. When operating as a Coupled unit (DPI SLAVE), select Port 6 to update the PowerFlex 700L Active Converter. When operating as a Stand Alone unit (DPI MASTER), select Port 0 to update the active converter.

6. Select Y to proceed.
7. Select the appropriate .bin file for the Active Converter firmware. Select X-modem for the Protocol.
8. Select send. HyperTerminal should show progress of the flash upgrade and indicate when the flash is complete.
9. You may need to cycle power after flashing is complete to re-establish communication.

Enhancements

There are no enhancements provided in this revision of firmware.

Corrected Anomalies

This section describes the anomalies corrected in this revision of firmware:

- Fault F 40 (Ac Line Lost) was not always indicated when Active Converter Parameter 110 - [Ride Through Ena] is set “0” (Disable).

In certain situations where there is a brief loss of AC power, the converter may disable firing of the IGBTs, and stop regulating the DC Bus. With older firmware (v3.002 or lower), the drive may not indicate that an F 40 (Ac Line Lost) fault has occurred.

With firmware v3.003, the Active Converter will now indicate an F 40 (Ac Line Lost) Fault if Parameter 110 - [Ride Through Ena] is set to “0” (Disable), and an AC power loss is detected.

- Contact bounce on the Precharge Contactor Auxiliary Input may result in an F 6 (Precharge Open) fault when a run command is applied to the Active Converter.

The Precharge Contactor must now remain open for 100 milliseconds before reporting an F 6 (Precharge Open) fault.

Known Anomalies

This firmware revision has no known anomalies.

Restrictions

No restrictions apply to this revision of firmware.

Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using our products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of Frequently Asked Questions (FAQs), technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

Rockwell Automation also provides complimentary phone support for drives, communication adapters, and peripherals. If you experience a problem with a product, please review the information in its User Manual. For further help in getting your product operational, contact a Customer Support representative:

United States	(1) 262.512.8176 Monday – Friday, 7am – 6pm CST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Product Satisfaction Return

Rockwell Automation tests all products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned:

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for return procedure.

Allen-Bradley Motors

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