



# PowerFlex 700AFE Firmware v1.003

This release note describes major revision 1, minor revision 3 of firmware for PowerFlex 700AFEs.

## Introduction

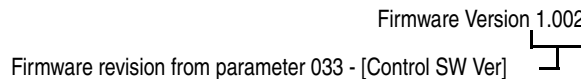
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## Determining Firmware Revision Level

To determine the firmware version for a PowerFlex 700AFE, view parameter 033 - [Control SW Ver]. The firmware version is the data in this parameter.

Example:



## Firmware Upgrades

This section describes procedures to flash upgrade your PowerFlex 700AFE firmware. You can download the required PowerFlex 700AFE Flash Update Tool and firmware on the Allen-Bradley Web Updates site located at <http://www.ab.com/support/abdrives/webupdate>.

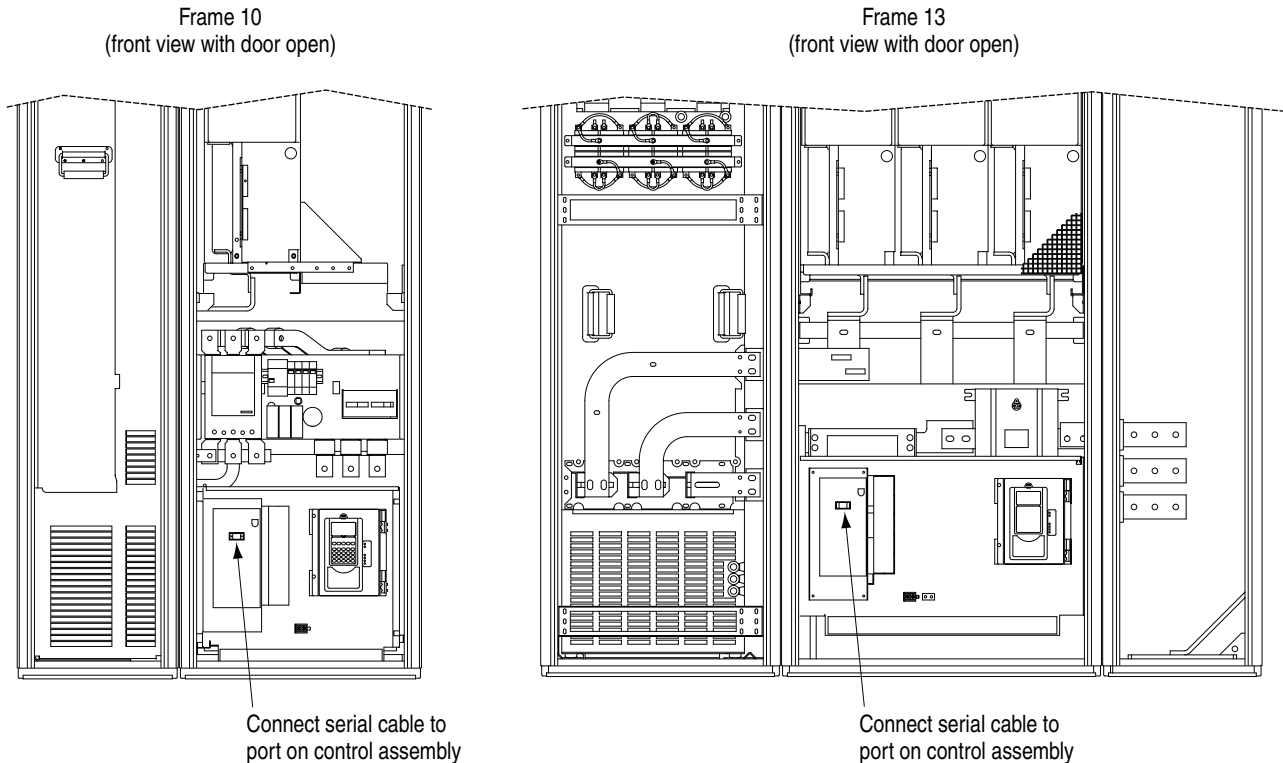
**Note:** ControlFlash and 1203-SSS and 1203-USB serial adapter support through the DPI are not yet available for PowerFlex 700AFE units.

**Important:** The PowerFlex 700AFE Flash Update Tool is used with a straight serial cable with male-female connectors. Do not use a crossover cable (NULL Modem cable). If your computer only has a USB port, you must obtain a USB-to-serial converter cable to complete this procedure.

**Important:** Shut down RSLinx before completing this procedure to avoid a COMM PORT error.

The system firmware is named PF700AFEV002.vcn and is the only file required for this update. The standard application firmware is bundled with system firmware and does not require a separate download or flash.

1. Connect the serial cable from your computer to the port on the front of the 700AFE control assembly as shown below.



2. Start the PowerFlex 700AFE Flash Update Tool and follow the screen prompts until the flash procedure is completed and the new firmware version is displayed.

## Enhancements

This section describes the enhancements provided in this revision of firmware:

- Added text “DC Ref Follow” for bit 12 of parameter 51 [Control Options].
- Changed the default of parameter 226 [Digital In6 Sel] from “5” (LCL Fan Stop) to “0” (Not Used).
- Modified the HIM start-up sequence by setting the parameter 226 default value to “0” (Not Used).
- Changed parameter 225 [Digital In5 Sel] to be unconfigurable. It is now always fixed at value “4” (LCL OverTemp).

## Corrected Anomalies

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

- Reduced the DC bus overshoot voltage at the start of modulation.
- Eliminated the false HIM display of a “current limit” alarm when operating PowerFlex 700AFEs in parallel—unless there is an actual alarm condition.
- The scaling for parameters 004 [Active Current], 005 [Reactive Current], 016 [Power Factor], 064 [Active I Ref], and 065 [Reactive I Ref] is calculated based on the value of Parameter 045 [RatedLineCurrent]. Corrected the internal scaling for these parameters to match with an adjusted parameter 045 value.

## 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 the adapter, please review the information in its User Manual. For further help in getting your adapter 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.

U.S. Allen-Bradley Drives Technical Support - Tel: (1) 262.512.8176, Fax: (1) 262.512.2222, Email: support@drives.ra.rockwell.com, Online: www.ab.com/support/abdrives

[www.rockwellautomation.com](http://www.rockwellautomation.com)

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