



PowerFlex 70 Drive w/Enhanced Control Option (Revision 3.003)

These Release Notes correspond to Minor Revision 3.003 firmware for the PowerFlex 70 Drive with the Enhanced Control option. Refer to publication 20A-RN001 for a complete description of the changes implemented in previous firmware revisions

Corrected Anomalies

This section describes the anomalies corrected in this revision.

Function	Anomaly	Correction
F906 fault could occur when using SCANport with the 1203-SM1 SLC to SCANport communication module.	When using the PowerFlex 70 EC in SCANport mode with a 1203-SM1 module, a F906, - Background Task Overrun fault would infrequently occur.	This issue has been corrected.
No Flying Start from Ramp to Hold.	Currently, if the drive is restarting from "pure" DC braking the motor is likely to be spinning, and the drive automatically executes a flying start command.	If DC braking is due to a Ramp to Hold, it is expected that the motor is stopped, and Flying Start is unnecessary. The issue has been corrected.
Encoder with a PPR not equal to 2^N .	When in FVC mode, using an encoder with a PPR not equal to 2^N could cause a periodic speed/torque transient. Encoders with a PPR of 512, 1024, 2048, etc. work OK. Encoders with a PPR of 100, 200, etc. could have this issue.	This issue has been corrected.
Process PI remains in a "Hold" after a limit condition occurs.	If a limit condition (such as at speed limit, at current limit, etc.) occurred while using the Process PI, the Process PI function would "hold" its integration function. This issue could occur when in V/Hz or SVC mode. It did not occur in FVC mode.	This issue has been corrected.

Determining Firmware Revision Level

To determine the firmware version for a PowerFlex 70 Drive, view parameter 29 [Control SW Ver].

Firmware Upgrade Procedure

This section describes procedures to flash upgrade your drive firmware. Downloads are provided on the Allen-Bradley Web Updates site located at <http://www.ab.com/support/abdrives/webupdate>. For a detailed explanation of the flash procedure, refer to <http://www.ab.com/support/abdrives/powerflex70/firmware/index.html>.



ATTENTION: Risk of drive damage exists if drive power is removed during the Boot Flash segment of the upgrade/download. To guard against damage, **Do Not Remove Power** to the drive until the download is complete and the drive has been reset.

Important: Once a flash update has been started, do not remove drive power until the download is complete and the drive has been reset. If power is removed during Boot Flash, the drive may be permanently damaged. A drive that has been damaged in this way cannot be repaired. If power is removed during Application Flash, the drive will remain in Boot and can be reflashed.

1. Remove/disconnect any HIMs before proceeding.
2. Install the “v3.003” from the Allen-Bradley Web Updates site. This automatically installs the latest version of the ControlFLASH utility on your computer. ControlFLASH, DriveExplorer or DriveExecutive can now be used to update the drive using the following instructions.

Using ControlFLASH

Important: This method requires RSLinx.

1. Launch ControlFLASH (if it is not already running).
2. Follow the screen prompts until the flash procedure is completed and the new firmware version is displayed.

Using DriveExplorer Lite/Full

1. Exit the ControlFLASH program (if it is running) and launch DriveExplorer. Make a connection to the drive.
2. In the DriveExplorer treeview, select the appropriate drive. Then select the Information icon.
3. On the Properties screen, select the “Details” tab.
4. Select “Flash Update” and follow the screen prompts until the procedure is completed and the new firmware version is displayed.

Using DriveExecutive

Important: This method requires RSLinx.

1. Exit the ControlFLASH program (if it is running) and launch DriveExecutive. Make a connection to the drive.
2. In the DriveExecutive treeview, select the appropriate drive. Then select the Information icon.
3. On the Properties screen, select “Component Details.”
4. Select “Flash Update” and follow the screen prompts until the procedure is completed and the new firmware version is displayed.

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

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846