



<b>INPUTS &amp; OUTPUTS</b> Digital Inputs	(7) Opening an "Enable" input will cause the motor to coast-to-stop, ignoring any programmed Stop modes.			58-59 "Reserved"																																			
	(8) "Dig In Conflict" alarm will occur if a "Start" input is prog. without a "Stop" input.			60-62 "AdjV Sel 1-3" <sup>(14,15)</sup>																																			
	(9) Refer to the Sleep-Wake Mode Attention statement on <a href="#">page 3-33</a> .			63-65 "AdjV/Hz Sel1-3" <sup>(14,16)</sup>																																			
	(10) A dedicated hardware enable input is available via a jumper selection. Refer to <a href="#">page 1-43</a> for further information.			66 "Abort Step" <sup>(14)</sup>																																			
	(11) Only available when "Torque Proving" function is selected.			67 "Abort Prof" <sup>(14)</sup>																																			
	(12) Refer to Option Definitions on <a href="#">page 3-57</a> .			68 "Manual/Auto" <sup>(6)</sup>																																			
	(13) Refer to [Dyn UsrSet Sel] on <a href="#">page 3-38</a> for selection information.																																						
	(14) Firmware v6.002 and later.																																						
	(15) Adjust Voltage Select Inputs																																						
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Mixing selections 63-65 with 60-62 or 15-17 will cause a type 2 alarm.																																							

### Corrected Anomalies

This section describes the anomalies corrected in this revision.

Function	Anomaly	Correction
MOP	When operating the drive in MOP mode, the speed reference starts at 0 Hz rather than at the set minimum speed limit.	Added minimum speed limit to MOP level. The MOP speed reference will now start at and not go below the value set in parameter 81 [Minimum Speed]. This limit is disabled if parameter 190 [Direction Mode] is set to "Bipolar".

### Determining Firmware Revision Level

To determine the firmware version for a PowerFlex 700 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/powerflex700vc/phase1/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 “**v8.002 Flash Kit**” 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.

## Using HyperTerminal

For a detailed procedure using HyperTerminal, refer to:

<http://www.ab.com/support/abdrives/powerflex700vc/phase1/firmware/hyperterminal.html>

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

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