PowerFlex 20-HIM-A6 and 20-HIM-C6S HIM
(Human Interface Module)
Firmware Revisions FRN 1.xxx – 2.xxx
Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.

<table>
<thead>
<tr>
<th><strong>WARNING:</strong> Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ATTENTION:</strong> Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.</td>
</tr>
<tr>
<td><strong>IMPORTANT</strong> Identifies information that is critical for successful application and understanding of the product.</td>
</tr>
</tbody>
</table>

Labels may also be on or inside the equipment to provide specific precautions.

<table>
<thead>
<tr>
<th><strong>SHOCK HAZARD:</strong> Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BURN HAZARD:</strong> Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.</td>
</tr>
<tr>
<td><strong>ARC FLASH HAZARD:</strong> Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).</td>
</tr>
</tbody>
</table>
This manual contains new and updated information as indicated in the following table.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added the PowerFlex® 755T drives to the product compatibility list.</td>
<td>12</td>
</tr>
<tr>
<td>Imported a diagram of the PowerFlex 755T-series drive</td>
<td>16</td>
</tr>
<tr>
<td>Added a note to the Process Screen section</td>
<td>29</td>
</tr>
<tr>
<td>Added a note to the Creating a User-Defined Drive/Peripheral Name section</td>
<td>37</td>
</tr>
<tr>
<td>Added a note to the Customizing the Process Screen section</td>
<td>38</td>
</tr>
<tr>
<td>Replaced ‘password’ with ‘access code’ (except in references to user interface elements)</td>
<td>50...61</td>
</tr>
<tr>
<td>Added a note to the Updating the HIM Firmware or Language section</td>
<td>65</td>
</tr>
<tr>
<td>Deleted Appendix C – History of Changes</td>
<td></td>
</tr>
</tbody>
</table>
# Table of Contents

**Preface**

- Conventions Used in This Manual ............................................ 9  
- Rockwell Automation Support ..................................................... 9  
  - Local Product Support .............................................................. 9  
  - Technical Product Assistance .................................................. 9  
- Additional Resources ............................................................... 10

**Chapter 1**

**Getting Started**

- HIM Types .................................................................................. 11  
- Features ....................................................................................... 11  
- Compatible Products ..................................................................... 12  
- Safety Precautions ........................................................................ 12

**Chapter 2**

**Installing the HIM**

- Installing the 20-HIM-A6 HIM ..................................................... 14  
  - In the Drive HIM Bezel ............................................................... 14  
  - Using Drive Port 2 Connection for Hand-Held Operation .......... 16  
  - In a Remote-Mount HIM Bezel (20-HIM-B1) .............................. 17  
- Installing the 20-HIM-C6S HIM ................................................... 18  
- Removing the HIM ...................................................................... 21

**Chapter 3**

**HIM Components**

- HIM Keypad .................................................................................. 23  
  - Soft Keys .................................................................................... 23  
  - Navigation and Number Keys ..................................................... 24  
  - Single-function Keys ................................................................... 25  
- LCD Display Elements .................................................................. 26  
  - Status Bar ................................................................................... 26  
  - Data Area .................................................................................... 26  
  - Soft Key Labels .......................................................................... 27  
- Main Screens .................................................................................. 28  
  - Status Screen ............................................................................. 28  
  - Process Screen .......................................................................... 29  
  - Control Screen ............................................................................ 30  
  - Folder Screens ............................................................................ 31  
- Fault Display Screen ...................................................................... 32
# Chapter 4

**Using the HIM**

Initial HIM Operation on New Drive Powerup ........................................... 33
Selecting Display Contrast ................................................................. 34
Setting the Date/Time for PowerFlex 750-Series Drives .................. 35
Creating a User-Defined Drive/Peripheral Name .......................... 37
Customizing the Process Screen ...................................................... 38
  Selecting Multi-Line or Single-Line View ........................................ 38
  Changing Displayed Items, Adding a Scale Factor, or Customizing Text .................................................. 39
Resetting the Drive/Peripherals ....................................................... 40
Setting Factory Defaults ................................................................. 40
  Setting PowerFlex 750-Series Drives/Peripherals to Factory Defaults 40
  Setting PowerFlex 7-Class Drives/Peripherals to Factory Defaults 41
Setting Display Flashing for Fault Indication .............................. 42
Setting Display Flashing for Alarm Indication ............................... 43
Viewing/Editing Drive or Peripheral Parameters ............................ 44
  Selecting File-Group-Parameter or Linear List View ......................... 44
  Direct Parameter Access Method .................................................. 44
  Alternate Linear List Access Method ............................................. 45
Viewing/Clearing Drive Faults or Alarms ............................................ 46
Viewing Peripheral Diagnostic Items ............................................... 47
Viewing/Clearing Peripheral Events ................................................. 48
Checking Drive and Peripheral Firmware Revisions ......................... 49
Using the CopyCat Function ............................................................. 50
  Creating CopyCat Files ............................................................ 50
  Renaming CopyCat Files ............................................................ 51
  Deleting CopyCat Files ............................................................. 53
Changing PowerFlex 750-Series Drive Parameter Associations ........ 54
  Using Individual Screen Entry Method ......................................... 54
  Using Direct Numeric Entry Method ............................................. 56
Linking Parameters in PowerFlex 700/700S Drives ......................... 57
  Establishing a Link ........................................................................ 57
  Deleting an Established Link ........................................................ 58
Using an Access Code ........................................................................ 59
  Setting/Changing the Access Code ................................................. 59
  Changing Access Code-protected Drive/Peripheral Parameters ...... 60
  Disabling Access Code Protection .................................................. 61
Initiating PowerFlex 750-Series Drive Port Verification .................... 62
  Conflict Types ............................................................................. 62
  Resolving ‘Changed’ or ‘Requires Configuration’ Conflicts ............ 63
  Resolving ‘Not Functioning’, ‘Not Supported’, or ‘Invalid Duplicate’ Conflicts .................................................. 63
Changing Language for the Display Text ........................................... 64
Updating the HIM Firmware or Language ....................................... 65
## Appendix A

- Communications ................................................................. 67  
- Electrical ................................................................. 67  
- Mechanical ................................................................. 67  
- Environmental ................................................................. 67  
- Regulatory Compliance ................................................................. 68

## Appendix B

- Parameter List ................................................................. 69
This manual provides information about the enhanced PowerFlex® 20-HIM-A6 and 20-HIM-C6S Human Interface Modules, and using them with PowerFlex 750-Series drives and PowerFlex 7-Class drives.

Conventions Used in This Manual

The following conventions are used throughout this manual:

- Parameter names are shown in the format **Parameter xx - [*]**. The `xx` represents the parameter number. The `*` represents the parameter name—for example, **Parameter 01 - [Port Number]**.

- The HIM or drive firmware revision number (FRN) is displayed as FRN `X.xxx`, where `X` is the major revision number and `xxx` is the minor revision number.

Rockwell Automation Support

Rockwell Automation offers support services worldwide, with over 75 sales and support offices, over 500 authorized distributors, and over 250 authorized systems integrators located through the United States alone. In addition, Rockwell Automation representatives are in every major country in the world.

Local Product Support

Contact your local Rockwell Automation representative for the following:

- Sales and order support
- Product technical training
- Warranty support
- Support service agreements

Technical Product Assistance

For technical assistance, please review the information in Chapter 4, Using the HIM, first. If you still have problems, then access the Allen-Bradley Technical Support website at [http://www.ab.com/support/abdrives](http://www.ab.com/support/abdrives) or contact Rockwell Automation.
## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

<table>
<thead>
<tr>
<th>Resource</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerFlex 750-Series AC Drive Installation Instructions, publication 750-IN001</td>
<td>Information on installing and programming PowerFlex 750-Series AC drives</td>
</tr>
<tr>
<td>PowerFlex 750-Series AC Drives Programming Manual, publication 750-PM001</td>
<td>Information on installing and programming PowerFlex 750-Series AC drives</td>
</tr>
<tr>
<td>PowerFlex 750-Series AC Drives Technical Data, publication 750-TD001</td>
<td>Information on installing and programming PowerFlex 750-Series AC drives</td>
</tr>
<tr>
<td>PowerFlex 70 User Manual, publication 20A-UM001</td>
<td>Information on installing and programming PowerFlex 70 standard control and enhanced control drives.</td>
</tr>
<tr>
<td>PowerFlex 70/700 Reference Manual, publication PFLEX-RM001</td>
<td>Information on installing and programming PowerFlex 700 standard control and vector control Series A drives, and PowerFlex 700 vector control Series B drives.</td>
</tr>
<tr>
<td>PowerFlex 70 Enhanced Control and 700 Vector Control Reference Manual, publication PFLEX-RM004</td>
<td>Information on installing and programming PowerFlex 700H drives.</td>
</tr>
<tr>
<td>PowerFlex 70 Series A User Manual, publication 20B-UM001</td>
<td>Information on installing and programming PowerFlex 700S drives.</td>
</tr>
<tr>
<td>PowerFlex 70 Series B User Manual, publication 20B-UM002</td>
<td>Information on installing and programming PowerFlex 700S drives.</td>
</tr>
<tr>
<td>PowerFlex 70/700 Reference Manual, publication PFLEX-RM001</td>
<td>Information on installing and programming PowerFlex 700S drives.</td>
</tr>
<tr>
<td>PowerFlex 70 Enhanced Control and 700 Vector Control Reference Manual, publication PFLEX-RM004</td>
<td>Information on installing and programming PowerFlex 700S drives.</td>
</tr>
<tr>
<td>PowerFlex 700H Installation Instructions, publication PFLEX-IN006</td>
<td>Information on installing and programming PowerFlex 700L Liquid-Cooled AC drives.</td>
</tr>
<tr>
<td>PowerFlex 700H Programming Manual, publication 20C-PM001</td>
<td>Information on installing and programming PowerFlex 700L Liquid-Cooled AC drives.</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase I Control Installation Manual (Frames 1…6), publication 20D-IN024</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase I Control User Manual (All Frame Sizes), publication 20D-UM001</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase I Control Reference Manual, publication PFLEX-RM002</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase II Control Installation Manual (Frames 1…6), publication 20D-IN024</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
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<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase II Control Programming Manual (All Frame Sizes), publication 20D-PM001</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700S with Phase II Control Reference Manual, publication PFLEX-RM003</td>
<td>Information on installing and programming PowerFlex 700S with Phase II Control Installation Manual (Frames 9…14), publication PFLEX-IN006</td>
</tr>
<tr>
<td>PowerFlex 700L User Manual, publication 20L-UM001</td>
<td>Information on installing and programming PowerFlex 700L Liquid-Cooled AC drives.</td>
</tr>
<tr>
<td>PowerFlex Digital DC Drive User Manual, publication 20P-UM001</td>
<td>Information on installing and programming PowerFlex Digital DC drives.</td>
</tr>
</tbody>
</table>

You can view or download publications at [http://literature.rockwellautomation.com](http://literature.rockwellautomation.com). To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

To find your local Rockwell Automation distributor or sales representative, visit [http://www.rockwellautomation.com/locations](http://www.rockwellautomation.com/locations).

For information such as firmware updates or answers to drive-related questions, go to the Drives Service & Support website at [http://www.ab.com/support/abdrives](http://www.ab.com/support/abdrives) and click the Downloads or Knowledgebase link.
Chapter 1

Getting Started

The PowerFlex® 20-HIM-A6 and 20-HIM-C6S HIMs provide a communication interface to configure and monitor PowerFlex 753 and PowerFlex 755 AC drives and their connected peripherals. These HIMs are also backward compatible with all PowerFlex 7-Class drives, but with limited functionality.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM Types</td>
<td>11</td>
</tr>
<tr>
<td>Features</td>
<td>11</td>
</tr>
<tr>
<td>Compatible Products</td>
<td>12</td>
</tr>
<tr>
<td>Safety Precautions</td>
<td>12</td>
</tr>
</tbody>
</table>

### HIM Types

At the time of publication, the following enhanced PowerFlex 7-Class HIMs are available.

<table>
<thead>
<tr>
<th>HIM Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-HIM-A6 (1)</td>
<td>NEMA Type 1 HIM</td>
</tr>
<tr>
<td>20-HIM-C6S (1)</td>
<td>Remote-Mount NEMA Type 4X/12 HIM</td>
</tr>
</tbody>
</table>

(1) Supports English, Portuguese, French, Italian, German, Spanish, and Dutch languages. The HIM firmware can be updated in the field to support other available languages. **Important:** The language selected for download at the Rockwell Automation Web Updates website at [http://www.ab.com/support/abdrivers/webupdate](http://www.ab.com/support/abdrivers/webupdate) will replace all other supported languages—except English, which will always remain as the default language.

### Features

The enhanced PowerFlex 20-HIM-A6 and 20-HIM-C6S HIMs provide the following benefits over the more basic PowerFlex 7-Class HIMs (catalog numbers 20-HIM-A3, 20-HIM-A5, 20-HIM-C3S, and 20-HIM-C5S):

- Full-numeric keypad with fully-integrated navigation capability to more easily configure and monitor the drive and its connected peripherals.

- Better keypad touch response and improved tactile feel to provide more gratifying, error-free data entry.

- More intuitive access and new menu structures that increase HIM operating efficiency.

- Simplified custom name assignments for drive/peripherals (for example, Pump 1) to reduce required key presses.
Chapter 1  Getting Started

- Support for English, and customary European and Asian languages.
- Dynamic soft keys that change functions/names based on screen or data entry mode to reduce keypad keys and simplify HIM operation.
- Customizable drive monitoring items that can be displayed as a list on the process screen or as individual screens.
- New flashing LCD screen to provide enhanced visibility when faults or alarms are detected.

Compatible Products
At the time of publication, the 20-HIM-A6 and 20-HIM-C6S HIMs are compatible with the following products:

- PowerFlex 753 drives
- PowerFlex 755 drives
- PowerFlex 755TL drives
- PowerFlex 755TR drives
- PowerFlex 755TM common bus inverters
- PowerFlex 755TM bus supplies
- PowerFlex 70 drives with standard or enhanced control
- PowerFlex 700 drives with standard or vector control
- PowerFlex 700H drives
- PowerFlex 700S drives with Phase I or Phase II control
- PowerFlex 700L drives with 700 vector control or 700S control
- PowerFlex 700AFE (Active Front End)
- PowerFlex Digital DC drives
- PowerFlex 7000 drives
- SMC™ Flex smart motor controllers
- SMC-50 smart motor controllers

Safety Precautions
Please read the following safety precautions carefully.

**ATTENTION:** Risk of injury or death exists from machine motion when using the HIM to Start/Stop/Jog or configure the drive.

**ATTENTION:** Risk of injury or equipment damage exists. Only personnel familiar with drive and power products and the associated machinery should plan or implement the installation, startup, configuration, and subsequent maintenance of the product using the HIM. Failure to comply may result in injury and/or equipment damage.
Installing the HIM

This chapter provides instructions for installing and removing the HIM.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installing the 20-HIM-A6 HIM</td>
<td>14</td>
</tr>
<tr>
<td>Installing the 20-HIM-C6S HIM</td>
<td>18</td>
</tr>
<tr>
<td>Removing the HIM</td>
<td>21</td>
</tr>
</tbody>
</table>

There are two types of enhanced PowerFlex® 7-Class HIM:
- NEMA Type 1 (catalog number 20-HIM-A6)
- Remote-mount NEMA Type 4X/12 (catalog number 20-HIM-C6S), which also includes a 1202-C30 interface cable for connection to the drive.
Installing the 20-HIM-A6 HIM

The 20-HIM-A6 (NEMA Type 1) HIM is normally installed in the HIM bezel (drive Port 1) on the front of the drive. For temporary hand-held operation, the HIM can be plugged into drive Port 2 (near the bottom of the drive control pod for PowerFlex 750-Series drives, or on the bottom of the drive for PowerFlex 7-Class drives) using a 1 m/3.28 ft. long 20-HIM-H10 cable. For applications requiring the HIM to be located remotely, the HIM can be installed in a remote-mount HIM bezel (catalog number 20-HIM-B1) in a suitable location. The 20-HIM-B1 remote-mount HIM bezel includes a 3 m/9.8 ft. long 1202-C30 cable.

In the Drive HIM Bezel

*PowerFlex 750-Series IP20, NEMA/UL Open Type Drives*

Place the HIM into the drive HIM bezel by inserting it straight back into the top of the bezel and then sliding it down into the base of the bezel onto the mating connector.

**TIP** The HIM can be installed in the drive HIM bezel with the drive powered or unpowered.
PowerFlex 750-Series IP54, NEMA/UL Type 12 Drives

1. Unfasten and remove the cover as shown below using the following recommended tools:
   - Screwdriver: 6.4 mm (0.25 in.) flat or T20 Hexalobular
   - Hex socket: 7 mm

2. Place the HIM into the drive HIM bezel by inserting it straight back into the top of the bezel and then sliding it down into the base of the bezel onto the mating connector as shown on page 14.

3. Replace the cover and the fasteners.

4. Tighten all screws and nuts to the recommended torque of 0.68 N•m (6.0 lb•in).
Using Drive Port 2 Connection for Hand-Held Operation

*PowerFlex 755T-Series Drive*

Attach a splitter cable to the cradle connector of the HIM. Then plug the other end of the cable into DPI Port 02 near the bottom of the drive control pod.

*PowerFlex 750-Series Drive*

Attach a 20-HIM-H10 cable to the bottom of the HIM. Then plug the other end of the cable into Port 2 near the bottom of the drive control pod.
PowerFlex 7-Class Drive

Attach a 20-HIM-H10 cable to the bottom of the HIM. Then plug the other end of the cable into Port 2 on the bottom of the drive.

In a Remote-Mount HIM Bezel (20-HIM-B1)

1. If the remote-mount HIM bezel is not mounted, see the HIM Bezel Installation Instructions, publication 20HIM-IN002, for mounting details.

2. Route the 3 m/9.8 ft. long 1202-C30 bezel cable (included with the 20-HIM-B1 remote-mount HIM bezel) to the drive.

3. Connect the bezel cable to the DPI™ Port 2 on the drive as shown on page 16 for a PowerFlex 750-Series drive or a PowerFlex 7-Class drive.
Chapter 2  Installing the HIM

4. Install the HIM into the remote-mount HIM bezel.

Installing the 20-HIM-C6S HIM

The 20-HIM-C6S (NEMA Type 4X/12) HIM is designed for remote installation and includes a 3 m/9.8 ft. long 1202-C30 cable. See Figure 1 for overall HIM dimensions. Choose an appropriate location to mount the 20-HIM-C6S HIM. The distance between the HIM and drive can be increased up to 75 m/246 ft. by using a 1202-Hxx extension cable or 1202-CBL-KIT-100M cable kit. However, a cable distance greater than 30 m/98.4 ft. is not CE compliant.
1. Drill the required hole pattern in the panel. See Figure 1 for dimensions.

**TIP** A conversion template (part number 336745-C01), provided with the 20-HIM-C6S HIM, includes a drilling pattern and mounting instructions to assist with HIM installation.
2. Peel the protective film from the gasketed surface on the back of the HIM.

**IMPORTANT** Adhesive coated gasket is designed for one-time only installation.
3. Insert the supplied 3 m/9.8 ft. long 1202-C30 HIM cable into the mating socket on the back of the HIM.

4. Install the supplied O-ring into the cable routing hole on the panel to protect the cable.

5. Route the HIM cable through the cable routing hole on the panel.

6. Align the six threaded studs of the HIM with the panel clearance holes, and place the HIM against the panel.

7. Tighten the nuts onto the six threaded studs of the HIM extending behind the panel.
   Recommended torque is 0.68 N•m (6.0 lb•in).

8. Route the HIM cable to the drive.

9. Connect the HIM cable to the DPI Port 2 on the drive as shown on page 16 for a PowerFlex 750-Series drive or a PowerFlex 7-Class drive.

---

**Removing the HIM**

**ATTENTION:** Risk of injury or equipment damage exists. If the HIM cable or remote-mount HIM bezel cable is disconnected from DPI Port 2 on the drive, the drive may fault. Determine how the drive will respond before disconnecting the cable.

**IMPORTANT** The Host drive can remain powered when removing the HIM. However, a fault will occur if the HIM is not the last controlling device and does not have Manual control of the Host drive. To avoid a fault in this case, access the HIM Control screen (shown on page 30), press the key, and then remove the HIM from the Host drive.

Remove the HIM from the drive HIM bezel or the remote-mount HIM bezel in reverse order of how it was installed.
Notes:
HIM Components

This chapter describes the components of the HIM.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIM Keypad</td>
<td>23</td>
</tr>
<tr>
<td>LCD Display Elements</td>
<td>26</td>
</tr>
<tr>
<td>Main Screens</td>
<td>28</td>
</tr>
</tbody>
</table>

HIM Keypad

The keypad consists of soft keys, navigation and number keys, and single-function keys, which are described in their respective subsections that follow.

Soft Keys

The soft keys on the HIM are located at the top of the keypad and highlighted below. Depending on the screen being displayed or the data entry mode being used, a soft key name and its function changes. When a dynamic soft key (up to a maximum of five keys) is active, its present function and corresponding Soft Key Label (Figure 3) is shown at the bottom of the HIM screen. For a list of possible soft keys, their names, and corresponding functions, see Soft Key Labels on page 27.
Navigation and Number Keys

The five blue multi-function keys (2, 4, 5, 6, and 8) shown below are used to do the following:

- Enter their respective numeric value
- Scroll menus/screens
- Perform corresponding functions displayed in the Data Area (see page 26)

<table>
<thead>
<tr>
<th>Multi-function Key</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Down Arrow</td>
<td>• Enters the numeric value ‘2’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scrolls down to select an item.</td>
</tr>
<tr>
<td>4</td>
<td>Left Arrow</td>
<td>• Enters the numeric value ‘4’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scrolls left to select an item.</td>
</tr>
<tr>
<td>5</td>
<td>Enter</td>
<td>• Enters the numeric value ‘5’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Displays the next level of a selected menu item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Enters new values.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Performs intended actions.</td>
</tr>
<tr>
<td>6</td>
<td>Right Arrow</td>
<td>• Enters the numeric value ‘6’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scrolls right to select an item.</td>
</tr>
<tr>
<td>8</td>
<td>Up Arrow</td>
<td>• Enters the numeric value ‘8’.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scrolls up to select an item.</td>
</tr>
</tbody>
</table>

The five gray number keys (0, 1, 3, 7, and 9) are used only to enter their respective numeric value.
Single-function Keys

There are four single-function keys, which are highlighted below and listed in the table below. Each single-function key always performs only its dedicated function.

<table>
<thead>
<tr>
<th>Single-function Key</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Start Key" /></td>
<td>Start</td>
<td>Starts the drive.</td>
</tr>
<tr>
<td><img src="image" alt="Folders Key" /></td>
<td>Folders</td>
<td>Accesses folders for parameters, diagnostics, memory functions, preferences, and other tasks.</td>
</tr>
<tr>
<td><img src="image" alt="Controls Key" /></td>
<td>Controls</td>
<td>Accesses jog, direction, auto/manual, and other control functions.</td>
</tr>
</tbody>
</table>
| ![Stop Key](image) | Stop | • Stops the drive or clears a fault.  
• This key is always active.  
• This key is controlled by drive parameter 307 [Start Stop Mode]. |

(1) During drive Start Up these keys are temporarily inactive.
LCD Display Elements

The basic HIM screen is divided into three display zones, which are shown in Figure 3 and described in their respective subsections that follow.

Status Bar

The Status Bar provides operating status information for the host drive.

<table>
<thead>
<tr>
<th>Status Bar Element</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Host Icon" /></td>
<td>Host Icon: A small image of the connected host drive.</td>
</tr>
<tr>
<td>Stopped</td>
<td>Status Text: Indicates present host drive operating status. Text flashes when a fault is present.</td>
</tr>
<tr>
<td>0.00 Hz</td>
<td>Feedback: Indicates drive output feedback (for example, Hz, RPM, amps, etc.)</td>
</tr>
<tr>
<td>AUTO/MAN</td>
<td>Mode Indication: Indicates Auto or Manual HIM status.</td>
</tr>
<tr>
<td><img src="image" alt="Bell" /></td>
<td>Alarm Indication: Bell icon indicates that an alarm is present.</td>
</tr>
<tr>
<td><img src="image" alt="Rotation" /></td>
<td>Rotation Indication: Indicates Forward or Reverse direction of host drive operation.</td>
</tr>
<tr>
<td>DLX (not shown)</td>
<td>DeviceLogix™ Indication: Indicates when the host drive DeviceLogix feature is enabled.</td>
</tr>
</tbody>
</table>

Data Area

The Data Area displays the data or function presently being acted upon.

<table>
<thead>
<tr>
<th>Data Area Element</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Host Drive" /></td>
<td>Host or Device Icon: Image of the host drive or image of the device connected to the port selected.</td>
</tr>
<tr>
<td><img src="image" alt="Port Selection" /></td>
<td>Port Selection: Indicates selected port. Use the ▼ or ▶ navigation keys to select a port.</td>
</tr>
<tr>
<td>Host Drive</td>
<td>User-Definable Text: Top line of text in the Data Area can be edited by the user.</td>
</tr>
</tbody>
</table>
Soft Key Labels

The Soft Key Labels identify the present function of a corresponding Soft Key on the Key Pad. Different screens may show different Soft Key Labels.

<table>
<thead>
<tr>
<th>Soft Key Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>.</td>
<td>Decimal Point</td>
<td>Adds decimal point to the right-most position of a numeric value.</td>
</tr>
<tr>
<td>←</td>
<td>Backspace</td>
<td>Deletes the character to the left of the cursor.</td>
</tr>
<tr>
<td>+ / -</td>
<td>Sign</td>
<td>Changes the sign of a parameter value.</td>
</tr>
<tr>
<td>#</td>
<td>Number</td>
<td>Selects the Direct Numeric Entry Method to change PowerFlex® 750-Series drive parameter associations.</td>
</tr>
<tr>
<td>ición</td>
<td>Language</td>
<td>Directly accesses the Select Language To Use screen.</td>
</tr>
<tr>
<td>▲</td>
<td>Scroll Up</td>
<td>• Scrolls up through display lines.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Increases a value.</td>
</tr>
<tr>
<td>▼</td>
<td>Scroll Down</td>
<td>• Scrolls down through display lines.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Decreases a value.</td>
</tr>
<tr>
<td>◄</td>
<td>Scroll Left</td>
<td>Scrolls left through display lines.</td>
</tr>
<tr>
<td>►</td>
<td>Scroll Right</td>
<td>Scrolls right through display lines.</td>
</tr>
<tr>
<td>ACK</td>
<td>Acknowledge</td>
<td>Acknowledges the fault or alarm on the popup screen, stops the backlight from flashing, and keeps the popup screen active.</td>
</tr>
<tr>
<td>ALL</td>
<td>All</td>
<td>• Clears all faults, alarms or events when a popup box appears from a queue screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Restores all Host or Port device parameters to factory defaults.</td>
</tr>
<tr>
<td>CLR</td>
<td>Clear</td>
<td>• Deletes an entire text string.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Displays the Select Action popup box used to clear the selected fault, alarm or event, or the entire fault, alarm or event queue.</td>
</tr>
<tr>
<td>DEL</td>
<td>Delete</td>
<td>Deletes a highlighted character.</td>
</tr>
<tr>
<td>EDIT</td>
<td>Edit</td>
<td>• Accesses a displayed parameter to edit.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Accesses the Edit Process Display screen.</td>
</tr>
<tr>
<td>END</td>
<td>End</td>
<td>• Displays the end (least recent) fault, alarm or event in a queue</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scrolls to the end line of data on the Device Version information screen.</td>
</tr>
<tr>
<td>ENTER</td>
<td>Enter</td>
<td>• Displays the next level of a selected menu item.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Enters new values.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Performs the intended action.</td>
</tr>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>• Cancels port verification conflict popup box during procedure to resolve a conflict.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cancels the existing screen and returns to the previous screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cancels an entry.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cancels popup Fault Display screen.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Displays the time zone groups list screen (only when the Date/Time Set Edit Mode screen is shown).</td>
</tr>
<tr>
<td>EXP</td>
<td>Exponent</td>
<td>Allows data entry using scientific notation for 32-bit REAL (floating point) values.</td>
</tr>
<tr>
<td>FIX</td>
<td>Fix</td>
<td>Fixes 'Changed' or 'Requires Configuration' port verification conflicts upon power up.</td>
</tr>
<tr>
<td>INFO</td>
<td>Information</td>
<td>• Shows additional information about a selected port verification conflict upon power up.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Shows additional information about Set Default actions.</td>
</tr>
<tr>
<td>INS</td>
<td>Insert</td>
<td>Inserts a space to the left of a highlighted character.</td>
</tr>
<tr>
<td>LINK</td>
<td>Link</td>
<td>Displays a Link Edit popup box to link parameters (only PowerFlex 7-Class drives).</td>
</tr>
<tr>
<td>LOWER</td>
<td>Lower</td>
<td>Displays the lower 16 bits (bits 0…15) of a 32-bit Bit-type parameter.</td>
</tr>
</tbody>
</table>
Chapter 3 HIM Components

Main Screens

The HIM main screens include the Status screen, Process screen, Control screen, Folder screens, and Fault Display screens, which are described in their respective subsections that follow.

Status Screen

On power up, the Status screen (Figure 4) is shown by default. Depending on the type of host drive, the Status screen displays the following information.

<table>
<thead>
<tr>
<th>Displayed Information</th>
<th>Host PowerFlex Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>750-Series</td>
</tr>
<tr>
<td>Selected device icon and port number</td>
<td>?</td>
</tr>
<tr>
<td>Device name (1)</td>
<td>?</td>
</tr>
<tr>
<td>Rating text (volts, amps)</td>
<td>?</td>
</tr>
<tr>
<td>Drive catalog text</td>
<td>?</td>
</tr>
<tr>
<td>Firmware revision and hardware series</td>
<td>(2)</td>
</tr>
</tbody>
</table>

(1) The displayed default device name is dependent on the host drive. The device name can be changed, for example, to Host Drive as shown in the screens below. See Creating a User-Defined Drive/Peripheral Name on page 37 for details.

(2) The firmware version and hardware series for a PowerFlex 750-Series drive can be shown using HIM menu screens. For details, see Checking Drive and Peripheral Firmware Revisions on page 49.

Figure 4 - Example Status Screens

For PowerFlex 750-Series Drive

For PowerFlex 7-Class Drive
Status Screen Soft Keys

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>Toggles between the Status and Process Display screens.</td>
</tr>
<tr>
<td>🌐</td>
<td>Language Icon</td>
<td>Directly accesses the Select Language To Use screen.</td>
</tr>
<tr>
<td>REF</td>
<td>Reference</td>
<td>Enters the speed reference for the Host Drive.</td>
</tr>
<tr>
<td>PAR#</td>
<td>Parameter Number</td>
<td>Directly accesses a parameter for the device on selected port. (This soft key is not available if the device has no parameters.)</td>
</tr>
<tr>
<td>TEXT</td>
<td>Text</td>
<td>Edits user-definable text for the device on selected port.</td>
</tr>
</tbody>
</table>

Status Screen Navigation/Number Keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Name</th>
<th>Function</th>
<th>Screen Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/Left Arrow</td>
<td>Selects the device on previous port.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/Right Arrow</td>
<td>Selects the device on next port.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you would rather see the Process screen (shown below) as the initial power-up screen, change the HIM Parameter 03 - [Initial Screen] value to ‘1’ (Process Scrn). By default, when the HIM keys are not used for the time period set in Parameter 07 - [User Dspy Time], the screen being displayed at that time will revert back to the initial screen. You can disable this feature by setting Parameter 06 - [User Dspy Enable] to ‘1’ (Disable).

Process Screen

Note: The PowerFlex 755T products do not fully support Process Display text.

To display the Process screen, press the ESC soft key on the Status screen (Figure 4). The Process screen shows various drive monitoring parameters. Multi-line and Single-line views can be selected by pressing the VIEW soft key. The displayed default monitoring parameters can be changed. See Customizing the Process Screen on page 38 for details.

Process Screen Soft Keys

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>Toggles between the Process Display and Status screens.</td>
</tr>
<tr>
<td>VIEW</td>
<td>View</td>
<td>Toggles between the multi-line and single-line views.</td>
</tr>
<tr>
<td>REF</td>
<td>Reference</td>
<td>Enters the speed reference for the Host Drive.</td>
</tr>
<tr>
<td>PAR#</td>
<td>Parameter Number</td>
<td>Directly accesses a parameter for the selected port device.</td>
</tr>
<tr>
<td>EDIT</td>
<td>Edit</td>
<td>Directly accesses the Edit Process Display screen.</td>
</tr>
</tbody>
</table>
Process Screen Navigation/Number Keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Name</th>
<th>Function</th>
<th>Screen Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/Up Arrow</td>
<td>Scrolls up through the display lines.</td>
<td>▲</td>
<td></td>
</tr>
<tr>
<td>2/Down Arrow</td>
<td>Scrolls down through the display lines.</td>
<td>▼</td>
<td></td>
</tr>
</tbody>
</table>

Control Screen

The Control screen (shown below) is used to directly control the drive. It displays vertical bar graphs of the drive's speed Reference and Feedback values, and a Key Function Map that corresponds to the navigation/number keys for drive control. Press the (Controls) key to display the Control screen.

**IMPORTANT** To navigate from the Control screen to another HIM menu screen, you must always press the ESC soft key to deactivate the Control screen and display the previous screen.

Control Screen Soft Key

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>Deactivates the Control Screen and reverts back to the previous screen.</td>
</tr>
</tbody>
</table>

Control Screen Navigation/Number Keys

<table>
<thead>
<tr>
<th>Label</th>
<th>Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOG</td>
<td></td>
<td>Jogs the host drive.</td>
</tr>
<tr>
<td>▼</td>
<td></td>
<td>Decreases the speed reference for the host drive.</td>
</tr>
<tr>
<td>HELP</td>
<td></td>
<td>Displays Rockwell Automation Drives Technical Support direct phone number, website address, and email address.</td>
</tr>
<tr>
<td>REV</td>
<td></td>
<td>Sets the direction to reverse for the host drive.</td>
</tr>
<tr>
<td>EDIT REF</td>
<td></td>
<td>Allows direct data entry of the speed reference for the host drive.</td>
</tr>
<tr>
<td>▼ FWD</td>
<td></td>
<td>Sets the direction to forward for the host drive.</td>
</tr>
<tr>
<td>REMOVE HIM</td>
<td></td>
<td>Allows HIM removal without causing a fault if the HIM is not the last controlling device. (The REMOVE HIM label is not available when the HIM has manual control of the host drive. In this case, a fault will occur if the HIM is removed.)</td>
</tr>
<tr>
<td>REF ▲</td>
<td></td>
<td>Increases the speed reference for the host drive.</td>
</tr>
<tr>
<td>MANUAL</td>
<td></td>
<td>Switches between Auto and Manual modes.</td>
</tr>
</tbody>
</table>
Folder Screens

The drive and each connected peripheral has its own set of Folder screens:

<table>
<thead>
<tr>
<th>Folder Screen</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORTS</td>
<td>Displays a list of host drive ports to which peripherals are connected. The host drive is always Port 00. An icon appears for the device occupying the selected port.</td>
</tr>
<tr>
<td>DEV PARAM</td>
<td>Displays a list of available methods to access the device’s parameters.</td>
</tr>
<tr>
<td>HOST PARAM (1)</td>
<td>Displays a list of available methods to access the host drive parameters.</td>
</tr>
<tr>
<td>DIAGNOSTIC</td>
<td>Displays a list of available diagnostic information items for the device.</td>
</tr>
<tr>
<td>MEMORY</td>
<td>Displays a list of available memory storage items for the device.</td>
</tr>
<tr>
<td>PROPERTIES</td>
<td>Displays a list of available user-defined convenience functions for the device.</td>
</tr>
<tr>
<td>START UP</td>
<td>Displays a list of available host drive start-up routines. This folder is not applicable for peripheral devices and is not shown.</td>
</tr>
</tbody>
</table>

(1) The HOST PARAM folder screen is only available for PowerFlex 750-Series peripherals that support use of Host Drive parameters (for example, the 20-750-DNET DeviceNet network communication option module).

To display the last-viewed Folder screen, press the (Folders) key. The Folder screen Data Area displays:

- Selected device and port number
- Host drive and peripheral folders

Figure 5 - Example Folder Screen (Device Parameters)

Folder Screen Soft Key

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>Reverts back to the Status or Process Display screen.</td>
</tr>
</tbody>
</table>

Folder Screen Navigation/Number Keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Name</th>
<th>Function</th>
<th>Screen Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/Down Arrow</td>
<td>Scrolls down through the folder items.</td>
<td>▼</td>
<td></td>
</tr>
<tr>
<td>4/Left Arrow</td>
<td>Scrolls to the previous folder.</td>
<td>◄</td>
<td></td>
</tr>
<tr>
<td>5/Enter</td>
<td>Displays the next level screen for a selected folder item. Not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6/Right Arrow</td>
<td>Scrolls to the next folder.</td>
<td>►</td>
<td></td>
</tr>
<tr>
<td>8/Up Arrow</td>
<td>Scrolls up through the folder items.</td>
<td>▲</td>
<td></td>
</tr>
</tbody>
</table>
Fault Display Screen

The popup Fault Display screen automatically appears when a fault condition is detected for the host drive or any connected peripheral. The popup Fault Display screen flashes to alert that a fault condition exists. The Fault Display screen (example shown below) provides the following information:

- Fault Code number
- Fault description
- Elapsed time (in hh:mm:ss format) from fault detection

The flash mode for the Fault Display screen can be changed. For details, see Setting Display Flashing for Fault Indication on page 42.

Fault Display Screen Soft Keys

<table>
<thead>
<tr>
<th>Label</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESC</td>
<td>Escape</td>
<td>Reverts back to the previous screen without clearing the fault.</td>
</tr>
<tr>
<td>CLR</td>
<td>Clear</td>
<td>Removes the popup Fault Display screen from the display and clears the fault.</td>
</tr>
</tbody>
</table>

Fault Display Screen Single Function Key

<table>
<thead>
<tr>
<th>Key</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stop</td>
<td>Removes the popup Fault Display screen from the display, clears the fault, and sends a STOP command to the Host drive.</td>
</tr>
</tbody>
</table>
Using the HIM

This chapter provides information about using the HIM.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial HIM Operation on New Drive Powerup</td>
<td>33</td>
</tr>
<tr>
<td>Selecting Display Contrast</td>
<td>34</td>
</tr>
<tr>
<td>Setting the Date/Time for PowerFlex 750-Series Drives</td>
<td>35</td>
</tr>
<tr>
<td>Creating a User-Defined Drive/Peripheral Name</td>
<td>37</td>
</tr>
<tr>
<td>Customizing the Process Screen</td>
<td>38</td>
</tr>
<tr>
<td>Resetting the Drive/Peripherals</td>
<td>40</td>
</tr>
<tr>
<td>Setting Factory Defaults</td>
<td>40</td>
</tr>
<tr>
<td>Setting Display Flashing for Fault Indication</td>
<td>42</td>
</tr>
<tr>
<td>Setting Display Flashing for Alarm Indication</td>
<td>43</td>
</tr>
<tr>
<td>Viewing/Editing Drive or Peripheral Parameters</td>
<td>44</td>
</tr>
<tr>
<td>Viewing/Clearing Drive Faults or Alarms</td>
<td>46</td>
</tr>
<tr>
<td>Viewing Peripheral Diagnostic Items</td>
<td>47</td>
</tr>
<tr>
<td>Viewing/Clearing Peripheral Events</td>
<td>48</td>
</tr>
<tr>
<td>Checking Drive and Peripheral Firmware Revisions</td>
<td>49</td>
</tr>
<tr>
<td>Using the CopyCat Function</td>
<td>50</td>
</tr>
<tr>
<td>Changing PowerFlex 750-Series Drive Parameter Associations</td>
<td>54</td>
</tr>
<tr>
<td>Linking Parameters in PowerFlex 700/700S Drives</td>
<td>57</td>
</tr>
<tr>
<td>Using an Access Code</td>
<td>59</td>
</tr>
<tr>
<td>Initiating PowerFlex 750-Series Drive Port Verification</td>
<td>62</td>
</tr>
<tr>
<td>Changing Language for the Display Text</td>
<td>64</td>
</tr>
<tr>
<td>Updating the HIM Firmware or Language</td>
<td>65</td>
</tr>
</tbody>
</table>

For a list of parameters, see Appendix B, HIM Parameters.

Initial HIM Operation on New Drive Powerup

When powering up a new drive for the first time, the HIM runs through an initial operating routine that does the following:

- Prompts you to select a language.
- Initiates a drive start-up routine.
- Initiates a port verification check (only for PowerFlex® 750-Series drives). If a port conflict is detected, see page 62 for information to resolve it.
Selecting Display Contrast

The contrast of the HIM display can be adjusted for optimal viewing. Follow these steps to change the contrast:

1. Access the Status screen, which is displayed on HIM power up.

![Figure 6 - Status Screen](https://via.placeholder.com/150)

2. Use the ▼ or ▲ key to scroll to the port to which the HIM is connected.

<table>
<thead>
<tr>
<th>Port</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>HIM cradle on the front of the drive.</td>
</tr>
<tr>
<td>02</td>
<td>DPI™ port near the bottom of the drive control pod (PowerFlex 750-Series drives) or at the bottom of the drive (PowerFlex 7-Class drives).</td>
</tr>
<tr>
<td>03</td>
<td>Splitter cable port when the cable is plugged into the DPI port near the bottom of the drive control pod (PowerFlex 750-Series drives) or at the bottom of the drive (PowerFlex 7-Class drives).</td>
</tr>
</tbody>
</table>

3. Press the ▶ key to display its last-viewed folder.

4. Use the ▼ or ▲ key to scroll to the PROPERTIES folder.

5. Use the ▼ or ▲ key to select Adjust Contrast.

6. Press the 5 (Enter) key to display the Set LCD Contrast edit popup box.

7. Use the ▲ or ▼ soft key to adjust contrast to the desired setting.

8. Press the ESC soft key to set the contrast and exit the screen.
Setting the Date/Time for PowerFlex 750-Series Drives

The PowerFlex 750-Series drive has a real-time clock which supports its time stamp feature for faults and alarms. This clock must be accurately set to provide meaningful time stamp data. Follow these steps to set the date and time.

1. Access the Status screen (see Figure 6).

2. If Port 00 (host drive) is not shown above the ESC soft key, use the 
   or key to scroll to Port 00.

3. Press the key to display its last-viewed folder.

4. Use the or key to scroll to the PROPERTIES folder.

5. Use the or key to select Set Date and Time.

6. Press the (Enter) key to display the Date/Time Set screen.

   The top line shows the present date and time in this format:

   yyyy/mm/dd    hh:mm:ss

   Note that the time is always displayed in a 24-hour format. For example, 6:00 pm is shown as 18:00:00.

7. Press the EDIT soft key to access the Date/Time Set Edit Mode screen, which highlights the present time zone line.

8. To select the time zone:
   a. Press the ZONES soft key to display the Select Time Zone screen.
   b. Use the or key to select your time zone region (for example, Americas).
   c. Press the (Enter) key to enter your selection.
   d. Use the or key to select your specific time zone (for example, Chicago).

   IMPORTANT  The information in this section does not apply to PowerFlex 7-Class drives.
e. Press the (Enter) key to enter your selected time zone.

9. To set the date:
   a. Press the ▲ soft key to select the year in the top line.
   b. Use the numeric keys to enter the correct year.
   
   **TIP**
   To delete an erroneous date (or time) entry, use the ← soft key. Also, a partial or complete date (or time) value will not update until you press the ▼ soft key to advance to another field or press the ESC soft key to return to the previous screen.
   c. Press the ▼ soft key to select the month in the top line.
   d. Use the numeric keys to enter the correct month.
   e. Press the ▼ soft key to select the day in the top line.
   f. Use the numeric keys to enter the correct day.

10. To set the time:
   a. Press the ▼ soft key to select the hour in the top line.
   b. Use the numeric keys to enter the correct hour.
   c. Press the ▼ soft key to select the minutes in the top line.
   d. Use the numeric keys to enter the correct minute.
   e. Press the ▼ soft key to select the seconds in the top line.
   f. Use the numeric keys to enter the correct seconds.

11. Press the ESC soft key to return to the previous screen.
Creating a User-Defined Drive/Peripheral Name

Note: The PowerFlex 755T products do not fully support User Defined text.

The host drive and each of its connected peripherals has a default name. You can change any of these default names, but each new user-defined name cannot exceed 16 characters in length. Follow these steps to change a default name.

1. Access the Status screen (see Figure 6).
2. Use the ← or → key to scroll to the Port of the device whose name you want to change (for example, Port 00 for the host drive).
3. Press the TEXT soft key to display the Edit User Defined Text popup box.

![Edit User Defined Text Popup Box]

4. Use the ← or → key to move the cursor to the desired character position in the displayed name.
5. Press the ↑ key to access the last-viewed character set.
6. Press the appropriate numeric key to access the desired character set.

<table>
<thead>
<tr>
<th>Numeric Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Selects the numeric character set.</td>
</tr>
<tr>
<td>3</td>
<td>Selects the symbols character set.</td>
</tr>
<tr>
<td>7</td>
<td>Selects the upper case letter character set.</td>
</tr>
<tr>
<td>8</td>
<td>Selects the lower case letter character set.</td>
</tr>
</tbody>
</table>

Also, use the appropriate soft keys to help create the new name.

<table>
<thead>
<tr>
<th>Soft Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEL</td>
<td>Deletes a highlighted character.</td>
</tr>
<tr>
<td>INS</td>
<td>Inserts a space to the left of a highlighted character.</td>
</tr>
<tr>
<td>CLR</td>
<td>Deletes an entire text string.</td>
</tr>
</tbody>
</table>

7. With the desired character selected in that character position, press the 6 key to select and enter the character.
8. Repeat steps 4 through 7 for each character position.
9. When the desired name is displayed on the edit popup box, press the ENTER soft key to enter and save the new name.

IMPORTANT
Text editing is not supported when using Asian language characters. Only characters in the ISO 8859-1 Latin 1 Character Set, which is supported by U.S. and European personal computers, are available. If a software tool is used for text editing Asian characters, the HIM will replace all unsupported characters with a [ ] (narrow rectangle) mark.

Numeric Key Function
Selects the numeric character set.
Selects the symbols character set.
Selects the upper case letter character set.
Selects the lower case letter character set.

Soft Key Function
DEL Deletes a highlighted character.
INS Inserts a space to the left of a highlighted character.
CLR Deletes an entire text string.
Chapter 4  Using the HIM

Customizing the Process Screen

Note: The PowerFlex 755T products do not fully support Process Display text. Do not use this feature with these products.

The Process screen can be displayed as a multi-line or single-line view screen, and can be customized to show different drive monitoring items, apply a scale factor, or change text for the displayed drive parameter. These modifications are described in their respective subsections that follow.

Selecting Multi-Line or Single-Line View

By default, the Process screen shows a multi-line view of these drive monitoring items.

<table>
<thead>
<tr>
<th>Drive Monitoring Item</th>
<th>Host PowerFlex Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Text</td>
<td>Description</td>
</tr>
<tr>
<td>Amps</td>
<td>Output amps</td>
</tr>
<tr>
<td>Bus DC</td>
<td>DC Bus Volts</td>
</tr>
<tr>
<td>Out Vtls</td>
<td>Output Volts</td>
</tr>
<tr>
<td>Out Pwr</td>
<td>Output Power</td>
</tr>
<tr>
<td>Elp kWhr</td>
<td>Elapsed kWhr</td>
</tr>
<tr>
<td>Trq Cur</td>
<td>Torque Current</td>
</tr>
</tbody>
</table>

![Figure 7 - Multi-Line View Process Screen](image1.png)

1. Press the ESC soft key until the Process screen appears.

2. For PowerFlex 750-Series drives only, use the keys to scroll to the hidden line items on the multi-line view screen.

3. To change the multi-line view Process screen to show each of the drive monitoring items in a larger single-line view, press the VIEW soft key.

4. Use the keys to scroll to each single-line view Process screen.

![Figure 8 - Single-Line View Process Screen Examples](image2.png)

5. To return to the multi-line view Process screen, press the VIEW soft key again.
Changing Displayed Items, Adding a Scale Factor, or Customizing Text

You can further customize the Process screen by:

- Changing a displayed parameter to a different parameter.
- Applying a scale factor to the displayed parameter.
- Customizing text for the displayed parameter.

To do any or all of the above modifications, follow these steps.

1. With either the multi-line view Process screen (Figure 7) or the single-line view Process screen (Figure 8) displayed, use the or key to select the drive monitoring item you want to change.

2. Press the EDIT soft key.

For example, suppose you want to change the first drive monitoring item. In this case, the Process Display 1 Edit screen is shown.

3. Use the soft key to select what you want to change (parameter, scale, or text) for the drive monitoring item.

4. Press the EDIT soft key to display its respective edit popup box (see examples below).

5. For parameter or scale editing, use the numeric keys and available soft keys, and press the ENTER soft key to enter and save the item.

For text editing, use the numeric keys, available soft keys, and the key to enter each character. Then press the ENTER soft key to enter and save the complete text string.
Resetting the Drive/Peripherals

The drive or any of its connected peripherals can be reset by removing and restoring power to the drive (power cycling). If this is not convenient or cannot be done because of application circumstances, the HIM can be used to reset the drive/peripherals. Follow these steps to reset the drive or any of its peripherals.

1. Access the Status screen (see Figure 6).
2. Use the [left] or [right] key to scroll to the Port of the device you want to reset (for example, Port 00 for the host drive).
3. Press the [up] key to display its last-viewed folder.
4. Use the [left] or [right] key to scroll to the DIAGNOSTIC folder.
5. Use the [left] or [right] key to select **Reset Device**.
6. Press the [enter] (Enter) key to display a popup box asking if you want to reset the device.
7. Press the **ENTER soft key** to affirm and reset the device, or press the **ESC soft key** to cancel.

Setting Factory Defaults

The procedure to set a PowerFlex 750-Series drive and its connected peripherals to factory defaults is slightly different than the procedure used for a PowerFlex 7-Class drive and its peripherals. See the respective subsection for instructions.

Setting PowerFlex 750-Series Drives/Peripherals to Factory Defaults

1. Access the Status screen (see Figure 6).
2. Use the [left] or [right] key to scroll to the Port of the device whose parameters you want to set to factory defaults (for example, Port 00 for the host drive or the respective port number for one of the drive’s connected peripherals).
3. Press the [up] key to display its last-viewed folder.
4. Use the [left] or [right] key to scroll to the MEMORY folder.
5. Use the [left] or [right] key to select **Set Defaults**.
6. Press the [enter] (Enter) key to display the Set Defaults popup box (see examples below).
7. Use the \( \text{or}\) key to select the appropriate action.
   - **Host and Ports (Preferred)**: Selects the host device and all ports for a factory default action.
   - **This Port Only**: Selects only this port for a factory default action.

   **TIP** For a description of a selected menu item, press the INFO soft key.

8. Press the \( \text{(Enter)} \) key to display the warning popup box to reset defaults.

   **Figure 9 - ‘Host and Ports (Preferred)’ Popup Box**
   Press the ENTER soft key to affirm and set most parameters for the host drive and port devices to factory defaults. In this case, see the host drive and port device documentation for the settings that will not be restored—or press the ESC soft key to cancel.

   **Figure 10 - ‘This Port Only’ Popup Box**
   Press the MOST soft key to set most settings for the selected port device to factory defaults. In this case, see the host drive documentation for the settings that will not be restored. Press the ALL soft key to set all settings for the selected port device to factory defaults—or press the ESC soft key to cancel.

---

**Setting PowerFlex 7-Class Drives/Peripherals to Factory Defaults**

1. Access the Status screen (see \( \text{Figure 6} \)).

2. Use the \( \text{or}\) key to scroll to the Port of the device whose parameters you want to set to factory defaults (for example, Port 00 for the host drive or the respective port number for one of the drive’s connected peripherals).

3. Press the \( \) key to display its last-viewed folder.

4. Use the \( \text{or}\) key to scroll to the MEMORY folder.

5. Use the \( \text{or}\) key to select Set Defaults.

6. Press the \( \text{(Enter)} \) key to display the Set Defaults popup box.

   **Figure**

7. Press the ENTER soft key to affirm and set all device parameter values to factory defaults—or press the ESC soft key to cancel.
Whenever a fault for the host drive or any of its connected peripherals is detected, a popup Fault Display screen (see page 32) appears. By default, only the Status Bar flashes to alert the operator. However, you can change the flash mode for the Fault Display screen to one of the following modes:

- Flash Bklite; selects the entire LCD screen to flash.
- Flash Status (default); selects only the Status Bar (item 1, Figure 3) to flash.
- Flash None; selects no flashing for the Fault Display screen.

Follow these steps to change the flash mode for the Fault Display screen.

1. Access HIM Parameter 04 - [Fault Dspy Type] using either the Direct Parameter Access method (page 44) or Alternate Linear List method (page 45).

2. Press the EDIT soft key to display the Edit Fault Dspy Type popup box.

3. Use the ▲ and ▼ soft keys to select the desired flash mode. To delete an erroneous entry, use the ← soft key.

4. Press the ENTER soft key to enter your selection and return to the parameter screen.
Setting Display Flashing for Alarm Indication

Whenever an alarm for the Host Drive is detected, an alarm bell icon appears in the Status Bar. By default, only the Status Bar flashes to alert the operator. However, you can change the flash mode for alarm indication to one of the following modes:

- Flash Bklite; selects the entire LCD screen to flash.
- Flash Status (default); selects only the Status Bar (item 1, Figure 3) to flash.
- Flash None; selects no flashing for alarm indication.

Follow these steps to change the flash mode for alarm indication.

1. Access HIM Parameter 05 - [Alarm Dspy Type] using either the Direct Parameter Access method (page 44) or Alternate Linear List method (page 45).

2. Press the EDIT soft key to display the Edit Alarm Dspy Type popup box.

3. Use the ▲ and ▼ soft keys to select the desired flash mode.

To delete an incorrect entry, use the ← soft key.

4. Press the ENTER soft key to enter your selection and return to the parameter screen.
Viewing/Editing Drive or Peripheral Parameters

The PowerFlex 20-HIM-A6 or 20-HIM-C6S HIM can show host drive parameters in a File-Group-Parameter view or by Linear List. To access drive or peripheral parameters for viewing or editing, use either the direct parameter access method or the alternate linear list access method. See the respective subsections that follow for instructions.

Selecting File-Group-Parameter or Linear List View

**TIP** Not all peripheral devices support viewing parameters in a File-Group-Parameter view.

Follow these steps to change viewing between File-Group-Parameter and Linear List.

1. Access the Status screen (see Figure 6).
2. Use the ← or → key to scroll to the Port of the device whose parameters you want to access (for example, Port 00 for the host drive).
3. Press the ← key to display its last-viewed folder.
4. Use the ← or → key to scroll to the DEV PARAM or HOST PARAM folder.
5. Use the ← or → key to select Linear List or File-Group.
6. Press the (Enter) key to display the last-viewed or first parameter in the Linear List, or the last-viewed or first parameter in the first Group.

Direct Parameter Access Method

1. Access the Status screen (see Figure 6).
2. Use the ← or → key to scroll to the Port of the device whose parameters you want to access (for example, Port 00 for the host drive).
3. Press the PAR# soft key to display the Jump to Param # entry popup box.

**TIP** Some devices have two sets of parameters (Device and Host parameters). In this case, a popup box will appear enabling you to first choose the parameter set in which the parameter that you want to access resides.

4. Use the numeric keys to enter the desired parameter number, or use the ▲ or ▼ soft key to scroll to the desired parameter number.

**TIP** Pressing and holding the ▲ or ▼ soft key for 1 second or longer provides continuous scrolling until you release the key.

5. Press the ENTER soft key to display the parameter.

TIP Not all peripheral devices support viewing parameters in a File-Group-Parameter view.
6. Press the EDIT soft key (for editable parameters only) to display the Edit Parameter popup box.

**Figure 11 - Example Edit Parameter Popup Box**

7. Use the numeric keys, decimal soft key, and ← soft key to edit the parameter.

   **TIP** When the decimal soft key is pressed while editing a numeric value, this key temporarily changes to an EXP soft key to allow exponential entry.

8. Press the ENTER soft key to enter the new parameter value and return to the parameter screen.

**Alternate Linear List Access Method**

1. Access the Status screen (see Figure 6).

2. Use the ← or → key to scroll to the Port of the device whose parameters you want to access (for example, Port 00 for the host drive).

3. Press the ↑ key to display its last-viewed folder.

4. Use the ← or → key to scroll to the PARAMETER folder.

5. Use the ← or → key to select Linear List.

6. Press the  (Enter) key to display either the device’s last-viewed parameter or the first parameter in the linear list.

7. Use the ← or → key to scroll to the desired parameter.

8. Press the EDIT soft key (for editable parameters only) to display the Edit Parameter popup box (Figure 11).

9. Use the numeric keys, decimal soft key, and ← soft key to edit the parameter.

   **TIP** When the decimal soft key is pressed while editing a numeric value, this key temporarily changes to an EXP soft key to allow exponential entry.

10. Press the ENTER soft key to enter the new parameter value and return to the parameter screen.
Viewing/Clearing Drive Faults or Alarms

Follow these steps to view/clear drive faults or alarms.

1. Access the Status screen (see Figure 6).
2. If Port 00 (host drive) is not shown above the ESC soft key, use the ← or → key to scroll to Port 00.
3. Press the ← key to display its last-viewed folder.
4. Use the ← or → key to scroll to the DIAGNOSTIC folder.
5. Use the ← or → key to select Faults or Alarms.
6. Press the ↓ (Enter) key to display the numbered fault/alarm queue.

Faults/alarms are listed from the most recent to occur (line 01) to the least recent. The fault/alarm number and name are shown at the right.

7. Use the ← or → key or the following soft keys to navigate within the fault/alarm queue.

<table>
<thead>
<tr>
<th>Soft Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER</td>
<td>Displays the Time Stamp popup box for the fault/alarm. Note that the real-time clock in a PowerFlex 750-Series drive must be accurately set to provide meaningful time stamp data. For details, see Setting the Date/Time for PowerFlex 750-Series Drives on page 35. Use the ← or → key to scroll to all parameters related to the displayed fault/alarm (if supported by device).</td>
</tr>
<tr>
<td>TOP</td>
<td>Displays the first (most recent) fault/alarm in the queue.</td>
</tr>
<tr>
<td>END</td>
<td>Displays the last (least recent) fault/alarm in the queue.</td>
</tr>
</tbody>
</table>

8. To clear faults/alarms, press the CLR soft key.

In the Select Action popup box, select the appropriate action using the ← or → key and press the ↓ (Enter) key to clear the active fault/alarm or clear the fault/alarm queue. To cancel the popup box, press the ESC soft key or select Cancel from the list and press the ↓ (Enter) key.
Viewing Peripheral Diagnostic Items

If you encounter unexpected communication problems, diagnostic items for the drive’s connected peripherals—including the HIM—can help you or Rockwell Automation personnel troubleshoot the problem. Follow these steps to view peripheral diagnostic items.

1. Access the Status screen (see Figure 6).
2. Use the or key to scroll to the Port of the device whose diagnostic items you want to view (for example, Port 02 for the connected HIM).
3. Press the key to display its last-viewed folder.
4. Use the or key to scroll to the DIAGNOSTIC folder.
5. Use the or key to select Diagnostic Items.
6. Press the (Enter) key to display either the device’s last-viewed diagnostic item or the first diagnostic item in the list.

Table 1 shows all possible Diagnostic Items for the HIM. To view the HIM Diagnostic Items, use the procedure described above.

Table 1 - 20-HIM-A6 and 20-HIM-C6S HIM Diagnostic Items

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LCD Contrast</td>
<td>The present value of the HIM LCD contrast level, and ability to set the contrast level from this screen.</td>
</tr>
<tr>
<td>2</td>
<td>Common Logic Cmd</td>
<td>The present value of the Common Logic Command being transmitted to the drive by the HIM.</td>
</tr>
<tr>
<td>3</td>
<td>Prod Logic Cmd</td>
<td>The present value of the Product Specific Logic Command being transmitted to the drive by the HIM.</td>
</tr>
<tr>
<td>4</td>
<td>Common Logic Sts</td>
<td>The present value of the Common Logic Status being received from the drive by the HIM.</td>
</tr>
<tr>
<td>5</td>
<td>Prod Logic Sts</td>
<td>The present value of the Product Specific Logic Status being received from the drive by the HIM.</td>
</tr>
<tr>
<td>6</td>
<td>Reference</td>
<td>The present value of the Product Specific Reference being transmitted to the drive by the HIM.</td>
</tr>
<tr>
<td>7</td>
<td>Feedback</td>
<td>The present value of the Product Specific Feedback being received from the drive by the HIM.</td>
</tr>
<tr>
<td>8</td>
<td>Boot Flash Count</td>
<td>The present value of the Boot Flash Counter.</td>
</tr>
<tr>
<td>9</td>
<td>App Flash Count</td>
<td>The present value of the App Flash Counter.</td>
</tr>
</tbody>
</table>
Events for the host drive’s connected peripherals—including the HIM—are logged into their respective event queues. Many events in an event queue occur under normal operation. If you encounter unexpected problems, the events may help you or Allen-Bradley personnel troubleshoot the problem. Follow these steps to view or clear the events of a connected peripheral.

1. Access the Status screen (see Figure 6).

2. Use the < or > key to scroll to the Port of the device whose events you want to view (for example, Port 06 for a network communication option module).

3. Press the = key to display its last-viewed folder.

4. Use the < or > key to scroll to the DIAGNOSTIC folder.

5. Use the < or > key to select Events.

6. Press the 5 (Enter) key to display the device’s numbered event queue.

Events are listed from the most recent to occur (line 01) to the least recent. The event number and name are shown at the right.

7. Use the < or > key or the following soft keys to navigate within the event queue.

<table>
<thead>
<tr>
<th>Soft Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTER</td>
<td>Displays the Time Stamp popup box for the event. Note that the real-time clock in a PowerFlex 750-Series drive must be accurately set to provide meaningful time stamp data. For details, see Setting the Date/Time for PowerFlex 750-Series Drives on page 35.</td>
</tr>
<tr>
<td>TOP</td>
<td>Displays the first (most recent) event in the queue.</td>
</tr>
<tr>
<td>END</td>
<td>Displays the last (least recent) event in the queue.</td>
</tr>
</tbody>
</table>

8. To clear events, press the CLR soft key.

In the Select Action popup box, select the appropriate action using the < or > key and press the 5 (Enter) key to clear the event or clear event queue. To cancel the popup box, press the ESC soft key or select Cancel from the list and press the 5 (Enter) key.

The PowerFlex 20-HIM-A6 or 20-HIM-C6S HIM maintains an event queue that reports the history of its actions. Table 2 shows all possible events for the HIM. To view the HIM events, use the procedure described above.
Checking Drive and Peripheral Firmware Revisions

Follow these steps to check the firmware revision of the drive or its peripherals.

1. Access the Status screen (see Figure 6).
2. Use the \( \text{ or } \) key to scroll to the Port of the device whose firmware revision you want to view (for example, Port 00 for the host drive).
3. Press the \( \) key to display its last-viewed folder.
4. Use the \( \text{ or } \) key to scroll to the DIAGNOSTIC folder.
5. Use the \( \text{ or } \) key to select Device Version.
6. Press the \( \) (Enter) key to display device version information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Reserved</td>
</tr>
<tr>
<td>2</td>
<td>Device Power Up</td>
</tr>
<tr>
<td>3</td>
<td>Device Reset</td>
</tr>
<tr>
<td>4</td>
<td>EEPROM CRC Error</td>
</tr>
<tr>
<td>5</td>
<td>App Updated</td>
</tr>
<tr>
<td>6</td>
<td>Boot Updated</td>
</tr>
<tr>
<td>7</td>
<td>Watchdog Timeout</td>
</tr>
<tr>
<td>8</td>
<td>DPI Bus Off</td>
</tr>
<tr>
<td>9</td>
<td>DPI Ping Timeout</td>
</tr>
<tr>
<td>10</td>
<td>DPI Port Invalid</td>
</tr>
<tr>
<td>11</td>
<td>DPI Port Changed</td>
</tr>
<tr>
<td>12</td>
<td>DPI Host Reset</td>
</tr>
<tr>
<td>13</td>
<td>DPI Baud 125K</td>
</tr>
<tr>
<td>14</td>
<td>DPI Baud 500K</td>
</tr>
<tr>
<td>15</td>
<td>DPI Host Invalid</td>
</tr>
<tr>
<td>16</td>
<td>DPI Dup Port</td>
</tr>
<tr>
<td>17</td>
<td>DPI Type 0 Logon</td>
</tr>
<tr>
<td>18</td>
<td>DPI Type 0 Time</td>
</tr>
<tr>
<td>19-23 Reserved</td>
<td>—</td>
</tr>
<tr>
<td>24</td>
<td>DPI Msg Timeout</td>
</tr>
<tr>
<td>25</td>
<td>DPI Manual Reset</td>
</tr>
</tbody>
</table>
Using the CopyCat Function

PowerFlex 750-Series drives and PowerFlex 7-Class drives provide a CopyCat function that enables you to upload individual parameter sets for the host drive or any of its connected peripherals into the HIM. Furthermore, an Upload All Ports function enables you to conveniently upload multiple parameter sets for the host drive and all of its connected peripherals in one single file. In either case, this information can then be used as backup or can be transferred to another drive or peripheral device by downloading the file from the HIM's memory.

TIP The Upload All Ports and Download All Ports functions are only available for the host drive (Port 00) due to their unique functionality.

The CopyCat function also enables you to rename or delete individual or multiple parameter sets stored in the HIM.

The HIM can store up to 50 individual parameter sets or up to 5 multiple parameter sets. Due to the memory capacity of the HIM, these maximums will vary when storing combinations of individual and multiple parameter sets.

Generally, the upload or download transfer process manages all conflicts. However, the download will stop and a text message will appear if any of the following conditions exist:

- A device mismatch, such as firmware revision, device type, or device series is detected.
- The drive is access code protected.
- The drive is running.

You then have the option to completely stop the download or continue after noting the discrepancy for the parameters that could not be downloaded. These parameters can then be manually adjusted.

IMPORTANT When using the HIM with a PowerFlex 753 drive with firmware revision 1.05 or earlier, or a PowerFlex 755 drive with firmware revision 1.10 or earlier, the CopyCat function cannot upload/download DeviceLogix™ values for DLX Out xx and DLX In xx parameters and DeviceLogix program routines. Drives with a later firmware revision support this function, but the HIM does not support screen formatting for the DeviceLogix program.

Creating CopyCat Files

1. Access the Status screen (see Figure 6).
2. Use the or key to scroll to the Port of the device whose parameter set you want to copy (for example, Port 00 for the host drive).
3. Press the key to display its last-viewed folder.
4. Use the or key to scroll to the MEMORY folder.
5. Use the or key to select HIM CopyCat.
6. Press the (Enter) key to display the CopyCat Files selection screen.

![CopyCat Files Selection Screen]

**TIP** Before any CopyCat files are created, only the ‘CopyCat From Device to HIM’ menu item is shown. When Port 00 for the Host Drive is selected in Step 2, the ‘Upload All Ports’ menu item also appears.

7. Use the or key to select the appropriate action and press the (Enter) key to initiate that action.

8. With New File selected on the Select Upload File screen, press the (Enter) key to create the file. A popup box will appear to confirm that the CopyCat file was successfully created. Press the ENTER soft key to complete the procedure.

**TIP** When a CopyCat file is created, its default file name corresponds to the device whose file is being copied. For example, a newly created CopyCat file for a PowerFlex 755 drive has a default file name of ‘PowerFlex 755’.

When selecting an item row that is an existing CopyCat file—not a ‘New File’ row—to create a new CopyCat file, an Overwrite popup box will appear. Press the ENTER soft key to affirm and overwrite the existing CopyCat file—or press the ESC soft key to cancel.

---

**Renaming CopyCat Files**

**IMPORTANT** Text editing is not supported when using Asian language characters. Only characters in the ISO 8859-1 Latin 1 Character Set, which is supported by U.S. and European personal computers, are available. If a software tool is used for text editing Asian characters, the HIM will replace all unsupported characters with a [] (narrow rectangle) mark.

1. Access the Status screen (see Figure 6).

2. Use the or key to scroll to the Port of the device whose CopyCat file you want to rename (for example, Port 00 for the host drive).

3. Press the key to display its last-viewed folder.

4. Use the or key to scroll to the MEMORY folder.

5. Use the or key to select HIM CopyCat.
6. Press the (Enter) key to display the CopyCat Files selection screen.

7. Use the or key to select Rename CopyCat File.

8. Press the (Enter) key to display the Select File To Rename popup box.

9. Use the or key to select the file to be renamed.

10. Press the (Enter) key to display the Edit CopyCat File Text popup box.

11. Use the or key to move the cursor to the desired character position in the displayed name.

12. Press the key to access the last-viewed character set.

13. Press the appropriate numeric key to access the desired character set.

<table>
<thead>
<tr>
<th>Numeric Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Selects the numeric character set.</td>
</tr>
<tr>
<td>3</td>
<td>Selects the symbols character set.</td>
</tr>
<tr>
<td>7</td>
<td>Selects the upper case letter character set.</td>
</tr>
<tr>
<td>9</td>
<td>Selects the lower case letter character set.</td>
</tr>
</tbody>
</table>

Also, use the appropriate soft keys to help create the new name.

<table>
<thead>
<tr>
<th>Soft Key</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEL</td>
<td>Deletes a highlighted character.</td>
</tr>
<tr>
<td>INS</td>
<td>Inserts a space to the left of a highlighted character.</td>
</tr>
<tr>
<td>CLR</td>
<td>Deletes an entire text string.</td>
</tr>
</tbody>
</table>

14. With the desired character selected in that character position, press the key to select and enter the character.

15. Repeat steps 11 through 14 for each character position.

16. When the desired name is displayed on the edit popup box, press the ENTER soft key to enter and save the new name.
Deleting CopyCat Files

1. Access the Status screen (see Figure 6).

2. Use the \( \text{ or } \) key to scroll to the Port of the device whose parameter set you want to delete (for example, Port 00 for the host drive).

3. Press the \( \) key to display its last-viewed folder.

4. Use the \( \text{ or } \) key to scroll to the MEMORY folder.

5. Use the \( \text{ or } \) key to select HIM CopyCat.

6. Press the \( \text{(Enter)} \) key to display the CopyCat Files selection screen.

7. Use the \( \text{ or } \) key to select Delete CopyCat File.

8. Press the \( \text{(Enter)} \) key to display the Select File To Delete popup box.

9. Use the \( \text{ or } \) key to select the file (or all files) to delete.

10. Press the \( \text{(Enter)} \) key to display the confirmation popup box.

11. Press the ENTER soft key to affirm and delete the selected CopyCat file, or press the ESC soft key to cancel.

   Another popup box will appear to confirm that the CopyCat file was successfully deleted.

12. Press the ENTER soft key to affirm and complete the procedure.
Changing PowerFlex 750-Series Drive Parameter Associations

PowerFlex 750-Series drives have special parameters (indirect selector parameters and reference parameters) which are always associated with other parameters. The values for these special parameters are actually pointers to other parameters in the drive or to Host parameters in connected peripherals. To change a parameter association, first access the indirect selector or reference parameter. Second, select the port number of the device whose parameter you want to target for association. Then, select the target parameter of that device. If the target parameter is a bit parameter, you must also select the appropriate bit you want to associate with the indirect selector or reference parameter.

Parameter associations can be changed using one of these methods:

- **Individual Screen Entry Method**—where individual popup screens are used to enter the required parameter association data.

- **Direct Numeric Entry Method**—where the required parameter association data is entered as a number string on a single popup screen.

The following example illustrates how to use each method to change a parameter association. Suppose you want the drive speed reference to come from the network controller via the embedded EtherNet/IP adapter on the Main Control Board in a PowerFlex 755 drive.

**Using Individual Screen Entry Method**

1. Access the indirect selector or reference parameter whose association you want to change (for this example, drive Parameter 545 - [Spd Ref A Sel] as shown below).

   In this example, the Port field is shown selected. Use the ← or → key to select the Port, Parameter, or Bit (if applicable) fields.

   **TIP** Depending on the indirect selector or reference parameter selected, you may see more available ports in the list.
2. Press the EDIT soft key to display the edit popup box for the selected field (in this case, the port number field).

3. Use the or key to scroll to the port number of the device whose parameter you want to target for the association (for this example, Port 00, where the speed Reference parameters for the available drive ports are located).

   **TIP** The 'Zero Speed' setting may be available to select for specific applications that require a safe-state speed Reference.

4. Press the ENTER soft key to enter the selected port number.

The target parameter selection popup box appears (see example screen below), showing a list of available target parameters that can be associated.

5. Use the or key to scroll to the target parameter you want to associate.

For this example, we selected drive Parameter 877 - [Port 13 Reference]).

6. Press the ENTER soft key to enter the selected target parameter.

If the target parameter:

- **Is not a bit parameter**, the parameter association is now changed and the indirect selector or reference parameter screen re-appears with the associated parameter information shown.

- **Is a bit parameter**, a list of available bit numbers is displayed. Use the or key to scroll to the bit number of the target parameter you want to associate, and press the ENTER soft key. The parameter
association is now changed and the indirect selector or reference parameter screen re-appears with the associated parameter information shown.

Using Direct Numeric Entry Method

1. Access the indirect selector or reference parameter whose association you want to change (for this example, drive Parameter 545 - [Spd Ref A Sel] as shown below).

2. With any field (port, parameter, or bit) selected, press the # soft key to display the Direct Numeric Entry popup box.

3. Use the numeric keys to enter a number string that represents the target parameter’s device port number, parameter number and, only when the target parameter is a bit parameter, its bit number.

The number string format is PPpppp.bb, where:

- PP = device port number
- pppp = target parameter number
- bb = bit number (only used when target parameter is a bit parameter)

4. Press the ENTER soft key to enter the number string and complete the parameter association.

The indirect selector or reference parameter screen re-appears with the associated parameter information.
Linking Parameters in PowerFlex 700/700S Drives

Most parameter values are entered directly by the user. However, specific parameters can be 'linked', so the value of one parameter becomes the value of another. For example, the value of an analog input can be linked to an acceleration time. Rather than entering an acceleration time directly (via the HIM), the link allows the value to change by varying the analog input signal. This can provide additional flexibility for advanced applications.

Each link has two components:
- Source parameter—sender of information
- Destination parameter—receiver of information

Most parameters can be a source of data for a link, except parameters that use an integer value representing an ENUM (text selection). These are not allowed, since the integer is not actual data (it represents a value). See the drive documentation for a list of parameters that can be destinations. All links must be established between equal data types (parameter value formatted in floating point can only source data to a destination parameter value that is also a floating point).

Establishing a Link

1. Access a valid destination parameter to be linked (for example, the Accel Time 1 parameter 140 for a PowerFlex 700 drive or parameter 32 for a PowerFlex 700S drive).
2. Press the LINK soft key to display the Link popup box for that parameter.
3. Enter the source parameter number (for example, the Analog In1 Value parameter 16 for a PowerFlex 700 drive or parameter 801 for a PowerFlex 700S drive) to which you want to link the destination parameter.
4. Press the ENTER soft key.

The destination parameter screen reappears with the respective source parameter value now mapped over the destination parameter range, and is shown in destination parameter units. In this example, the value for Analog Input 1 is 10.000 volts for a PowerFlex 700 drive, and is shown as 10.0 seconds.
Deleting an Established Link

Follow these steps to delete an established link.

1. Access the screen for the destination parameter.
2. Press the LINK soft key.
3. In the Link popup box, enter a value of zero.
4. Press the ENTER soft key to delete the established link.
Using an Access Code

All parameter configuration settings for the drive and its connected peripherals can be protected from unauthorized access by using an access code.

Setting/Changing the Access Code

1. Access the Status screen (see Figure 6).
2. If Port 00 (host drive) is not shown above the ESC soft key, use the key or key to scroll to Port 00.
3. Press the key to display its last-viewed folder.
4. Use the key or key to scroll to the PROPERTIES folder.
5. Use the or key to select Change Password.
6. Press the (Enter) key to display the Enter New Password popup box.

7. Use the numeric keys to enter a desired access code value.
   Use the soft key to delete an erroneous entry.
   For your convenience, write down your assigned access code and store it in a safe place.

   Access Code = _____ _____ _____ _____ _____

8. Press the ENTER soft key to enter the new access code.
9. After the access code verification screen appears, confirm the new access code by re-entering its value.
   Thereafter, the HIM immediately logs in to the drive, which is indicated by the Log Out menu line in the PROPERTIES folder. All drive/peripheral parameters are accessible to view or edit.
10. To initiate access code protection, do the following:
    a. Use the or key to select Log Out from the PROPERTIES folder menu.
    b. Press the (Enter) key to display the log out verification popup box.
    c. Press the ENTER soft key to affirm and log out—or press the ESC soft key to cancel.
Changing Access Code-protected Drive/Peripheral Parameters

When the host drive is access code-protected, parameter settings for the drive and its connected peripherals can be viewed—but not changed until after the correct access code value is entered.

When attempting to edit a parameter value while logged out, the HIM will prompt you for the access code before allowing access.

Access code protection also applies to:

- Drive start-up procedure
- Factory defaults
- User sets
- CopyCat function

Follow these steps to edit access code-protected parameters.

1. Access the Status screen (see Figure 6).
2. If Port 00 (host drive) is not shown above the ESC soft key, use the ← or → key to scroll to Port 00.
3. Press the ↑ key to display its last-viewed folder.
4. Use the ← or → key to scroll to the PROPERTIES folder.
5. Use the ← or → key to select Log In.
6. Press the Enter (Enter) key to display the Enter Password popup box.
7. Use the numeric keys to enter the existing access code value.
   Use the ← soft key to delete an erroneous entry.
8. Press the ENTER soft key to enter the existing access code.
   Thereafter, any parameter setting can be changed.
Disabling Access Code Protection

1. Access the Status screen (see Figure 6).
2. If Port 00 (host drive) is not shown above the ESC soft key, use the ← or → key to scroll to Port 00.
3. Press the ↑ key to display its last-viewed folder.
4. Use the ← or → key to scroll to the PROPERTIES folder.
5. Use the ← or → key to select Log In.
6. Press the Enter (Enter) key to display the Enter Password popup box.

7. Use the numeric keys to enter the existing access code value. Use the ← soft key to delete an erroneous entry.
8. Press the ENTER soft key to enter the existing access code.
9. Use the ← or → key to select Change Password.
10. Press the Enter (Enter) key to display the Enter New Password popup box.

11. Use the numeric keys and the ← soft key to enter '0', the default value to disable the access code protection feature.
12. Press the ENTER soft key to enter the '0' (disable) default value.
13. After the access code protection verification popup box appears, confirm the new access code by re-entering '0'.
14. Press the ENTER soft key to disable access code protection.
Initiating PowerFlex 750-Series Drive Port Verification

Upon powerup, the HIM verifies that the PowerFlex 750-Series drive has initiated Port Verification. The host drive then checks for port conflicts. If any conflicts are present, a Device Conflicts popup box appears listing all devices with conflicts.

Conflict Types

If the conflict can be resolved, a ‘!’ symbol precedes the port number. If the conflict cannot be resolved without removing or replacing the device, an ‘X’ symbol precedes the port number. There are five possible conflict types.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Conflict Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Changed</td>
</tr>
<tr>
<td>!</td>
<td>Requires Configuration</td>
</tr>
<tr>
<td>X</td>
<td>Not Functioning</td>
</tr>
<tr>
<td>X</td>
<td>Not Supported</td>
</tr>
<tr>
<td>X</td>
<td>Invalid Duplicate</td>
</tr>
</tbody>
</table>

In the Device Conflicts popup box, scroll up or down to highlight/select an individual device row and press the INFO soft key. Another popup box appears for the selected device showing the type of conflict and related information.

If information is available for the device that previously occupied that port, it will also be shown.

Use the FIX soft key — displayed only if all conflict types are ‘Changed’ or ‘Requires Configuration’ — to resolve conflicts. After pressing the FIX soft key, a popup box will appear asking to confirm that the new device(s) should be accepted. Press the ENTER soft key to affirm and resolve the conflicts for all devices. Thereafter, the HIM will re-read the drive Port Verification information to make sure that no further conflicts exist.

IMPORTANT Please note the following important conflict resolution information:

- The Device Conflict popup window remains on the screen until all conflicts are resolved.
- All conflicts must be resolved to access a Folder screen or Control screen. Only the  (Stop) key and the assigned soft keys (INFO and FIX) will be functional until no conflicts exist.
- The host drive will not be able to run while any conflicts are present.

IMPORTANT The information in this section does not apply to PowerFlex 7-Class drives.
Resolving ‘Changed’ or ‘Requires Configuration’ Conflicts

When a ‘Changed’ or ‘Requires Configuration’ conflict exists on powerup, a ‘!‘ symbol precedes the port number in the Device Conflicts popup box.

1. Select a port device (in this example, the Encoder card) and press either the INFO soft key to show additional information about the conflict, or press the FIX soft key to resolve all device conflicts.

2. Press the ENTER soft key to affirm and re-display the Device Conflicts popup box. Press the ENTER soft key to affirm and resolve all device conflicts, or press the ESC soft key to cancel.

Resolving ‘Not Functioning’, ‘Not Supported’, or ‘Invalid Duplicate’ Conflicts

When a ‘Not Functioning’, ‘Not Supported’, or Invalid Duplicate’ conflict exists on powerup, an ‘X’ symbol precedes the port number in the Device Conflicts popup box.

1. Select the port preceded with an ‘X’ (in this example, Port 05) and press the INFO soft key to show additional information about the conflict (see example below).
2. Follow the screen prompts to resolve the port conflict.
   Or press the ENTER soft key to affirm and re-display the Device Conflicts popup box.

**Changing Language for the Display Text**

All HIM screen text can be displayed in one of the supported languages. The default language is English.

**TIP** If the drive is set to a language not supported by the HIM, a popup box appears asking you to select another language.

Follow these steps to select another supported language.

1. Access the Status screen (see Figure 6).
2. Press the (Language) soft key to display the list of available languages.
3. Use the or key to select the desired language.
4. Press the (Enter) key to enter the selected language.

All HIM screen text now appears in the selected language.
Updating the HIM Firmware or Language

Note: The PowerFlex 755T products do not support flashing of DPI options. This includes the HIMs.

The HIM firmware can be updated over the network or serially through a direct connection from the drive to the computer using a 1203-USB or 1203-SSS serial converter.

When updating firmware over the network, you can use the Allen-Bradley ControlFLASH™ software tool, the built-in update capability of DriveExplorer™ Lite or Full software, or the built-in update capability of DriveExecutive™ software.

When updating firmware through a direct serial connection from the drive to the computer, you can use the same Allen-Bradley software tools described above, or you can use HyperTerminal software set to the X-modem protocol.

To obtain a firmware or language update for the HIM, go to http://www.ab.com/support/abdrives/webupdate. This website contains all firmware update files, supported language files, and associated Release Notes that describe the following items:

- Firmware update enhancements and anomalies
- How to determine the existing firmware revision
- How to update the firmware using ControlFLASH, DriveExplorer, DriveExecutive, or HyperTerminal software

IMPORTANT When the HIM firmware is updated in the field to support another available language, the language selected for download will replace all other supported languages—except English, which always remains as the default language.
Specifications

This appendix provides the specifications for the HIM.

### Appendix A

#### Communications

<table>
<thead>
<tr>
<th>Protocol</th>
<th>Drive Peripheral Interface (DPI™)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Rates</td>
<td>125 Kbps or 500 Kbps</td>
</tr>
</tbody>
</table>

#### Electrical

| Consumption       | 140 mA at 12V DC supplied by the Host Drive |

#### Mechanical

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>20-HIM-A6</th>
<th>20-HIM-C6S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>116.0 mm (4.57 in.)</td>
<td>180.0 mm (7.08 in.)</td>
</tr>
<tr>
<td>Width</td>
<td>70.0 mm (2.75 in.)</td>
<td>93.0 mm (3.66 in.)</td>
</tr>
<tr>
<td>Depth</td>
<td>16.0 mm (0.63 in.)</td>
<td>25.0 mm (0.98 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>91 g (3.2 oz.)</td>
<td>173 g (5.7 oz.)</td>
</tr>
</tbody>
</table>

#### Environmental

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Operating</th>
<th>0…50 °C (32…122 °F)</th>
<th>Storage</th>
<th>-40…85 °C (-40…185 °F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Humidity</td>
<td>5…95% noncondensing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atmosphere</td>
<td></td>
<td>Important: The HIM must not be installed in an area where the ambient atmosphere contains volatile or corrosive gas, vapors or dust. If the HIM is not going to be installed for a period of time, it must be stored in an area where it will not be exposed to a corrosive atmosphere.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration</td>
<td>Operating</td>
<td>2.5 g @ 5 Hz…2 kHz</td>
<td>Non-Operating</td>
<td>5 g @ 5 Hz…2 kHz</td>
</tr>
<tr>
<td>Shock</td>
<td>Operating</td>
<td>30 g peak acceleration, 11 (±1) ms pulse width</td>
<td>Non-Operating</td>
<td>50 g peak acceleration, 11 (±1) ms pulse width</td>
</tr>
</tbody>
</table>
## Regulatory Compliance

<table>
<thead>
<tr>
<th>Certification</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL</td>
<td>UL508C</td>
</tr>
<tr>
<td>c-UL</td>
<td>CAN / CSA C22.2 No. 14-M91</td>
</tr>
<tr>
<td>CE</td>
<td>EN50178 and EN61800-3</td>
</tr>
<tr>
<td>C-Tick</td>
<td>EN61800-3</td>
</tr>
</tbody>
</table>

**NOTE:** This is a product of category C2 according to IEC 61800-3. In a domestic environment this product may cause radio interference in which case supplementary mitigation measures may be required.
HIM Parameters

This appendix provides information about the HIM parameters.

Besides the HIM, the following configuration tools can also be used to monitor or change parameter values of the HIM, drive, and other connected peripherals:

- Connected Components Workbench™ software, version 1.02 or later
- DriveExplorer™ software, version 6.01 or later
- DriveExecutive™ software, version 5.01 or later

### Parameter List

<table>
<thead>
<tr>
<th>Parameter No.</th>
<th>Name and Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>[Port Number]</td>
<td>Displays the port on the drive to which the HIM is connected. Minimum: 1 Maximum: 7 Type: Read Only</td>
</tr>
<tr>
<td>02</td>
<td>[DPI™ Data Rate]</td>
<td>Displays the DPI data rate at which the HIM is communicating with the drive. Values: 0 = 125 Kbps 1 = 500 Kbps Type: Read Only</td>
</tr>
<tr>
<td>03</td>
<td>[Initial Screen]</td>
<td>Selects the initial HIM screen to be displayed on power up. Default: 0 = Status Scrn Value: 0 = Status Scrn 1 = Process Scrn Type: Read/Write Reset Required: Yes</td>
</tr>
<tr>
<td>04</td>
<td>[Fault Dspy Type]</td>
<td>Selects the type of display flash to be shown when a drive or peripheral fault is detected. Default: 1 = Flash Status Values: 0 = Flash Bklite 1 = Flash Status 2 = Flash None Type: Read/Write Reset Required: No</td>
</tr>
<tr>
<td>05</td>
<td>[Alarm Dspy Type]</td>
<td>Selects the type of display flash to be shown when a drive alarm is detected. Default: 1 = Flash Status Values: 0 = Flash Bklite 1 = Flash Status 2 = Flash None Type: Read/Write Reset Required: No</td>
</tr>
<tr>
<td>06</td>
<td>[User Dspy Enable]</td>
<td>Enables/disables the HIM's automatic user display time function, which is configured using Parameter 07 - [User Dspy Time]. Default: 1 = Enable Values: 0 = Disable 1 = Enable Type: Read/Write Reset Required: Yes</td>
</tr>
<tr>
<td>07</td>
<td>[User Dspy Time]</td>
<td>Sets the amount of time that a screen will remain displayed as long as the HIM keys are not used. After this time elapses, the screen is automatically replaced by the initial screen, which is selected using Parameter 03 - [Initial Screen]. Default: 60 sec Minimum: 10 sec Maximum: 300 sec Type: Read/Write Reset Required: Yes</td>
</tr>
</tbody>
</table>
Notes:
Index

A
accessing parameters
alternate linear list method 45
direct parameter access method 44
adjusting display contrast 34
Alarm Dspy Type parameter 69
alarm/fault queues for the drive 46
attentions 12

C
changing PowerFlex 750-Series drive
parameter associations 54
checking drive/peripheral firmware revisions
49
clearing
drive faults/alarms 46
peripheral events 48
compatible products 12
contrast adjustment for display 34
CopyCat function 50
creating user-defined drive/peripheral name 37
customizing the Process screen 38

date/time setting for PowerFlex 750-Series
drives 35
diagnostic items for 20-HIM-A6/-C6S HIMs 47
dimensions 67
direct parameter access method 44
disabling password protection 61
display contrast adjustment 34
DPI Data Rate parameter 69
DPI data rates 67
drive fault/alarm queues 46
drive/peripheral firmware revisions - viewing 49

events for 20-HIM-A6/-C6S HIMs 49

F
factory defaults 40
Fault Dspy Type parameter 69
fault/alarm queues for the drive 46
features 11
firmware
revision 9
update guidelines 65

H
HIM (Human Interface Module)
adjusting display contrast 34
changing PowerFlex 750-Series drive
parameter associations 54
checking drive/peripheral firmware revisions 49
compatible products 12
CopyCat function 50
creating user-defined drive/peripheral name 37
customizing the Process screen 38
diagnostic items 47
events 49
features 11
firmware or language updating 65
installing
20-HIM-A6 HIM 14
20-HIM-C6S HIM 18
keypad key descriptions 23
LCD display elements/descriptions 26
linking parameters in PowerFlex 700/700S
drives 57
main screens/descriptions 28
parameter list for HIM 69
port verification (only PowerFlex 750-Series
drivers) 62
removing 21
resetting the drive/peripherals 40
selecting language for display text 64
setting date/time for PowerFlex 750-Series
drives 35
setting display flashing for
alarm indication 43
fault indication 42
setting factory defaults 40
specifications 67
updating HIM firmware or language 65
using a password 59
viewing peripheral diagnostic items 47
viewing/clearing
drive faults/alarms 46
peripheral events 48
viewing/editing drive and peripheral
parameters 44

I
Initial Screen parameter 69
installing
20-HIM-A6 HIM 14
20-HIM-C6S HIM 18

K
keypad key descriptions 23

L
language
selecting for display text 64
updating 65
Index

LCD display elements/descriptions 26
linear list access method to parameters 45
linking parameters in PowerFlex 700/700S drives 57

M
main screens/descriptions 28
manual
conventions 9
related documentation 10
website 10

P
parameters
convention 9
list of 69
password protection
changing parameters 60
disabling 61
setting 59
peripheral diagnostic items - viewing 47
Port Number parameter 69
PowerFlex 750-Series drive port verification 62
products compatible with HIM 12

R
regulatory compliance 68
related documentation 10
removing the HIM 21
resetting the drive/peripherals 40
restoring the drive/peripherals to factory defaults 40

S
safety precautions 12
screens (main)/descriptions 28
selecting a language 64
setting
display flashing for alarm indication 43
display flashing for fault indication 42
factory defaults 40
password 59
specifications 67

T
technical support 9
time/date setting for PowerFlex 750-Series drives 35

U
updating HIM firmware or language 65

V
verification of ports for PowerFlex 750-Series drives 62
viewing peripheral diagnostic items 47
viewing/clearing
drive faults/alarms 46
peripheral events 48
viewing/editing drive and peripheral parameters 44

W
website for related documentation 10
**Rockwell Automation Support**

Use the following resources to access support information.

<table>
<thead>
<tr>
<th>Technical Support Center</th>
<th>Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.</th>
<th><a href="https://rockwellautomation.custhelp.com/">https://rockwellautomation.custhelp.com/</a></th>
</tr>
</thead>
</table>

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