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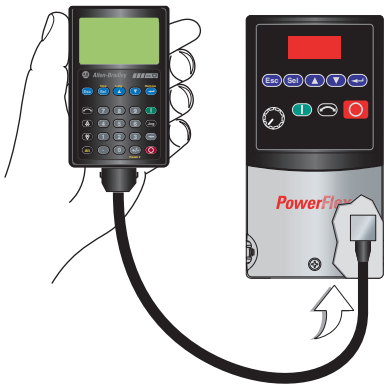
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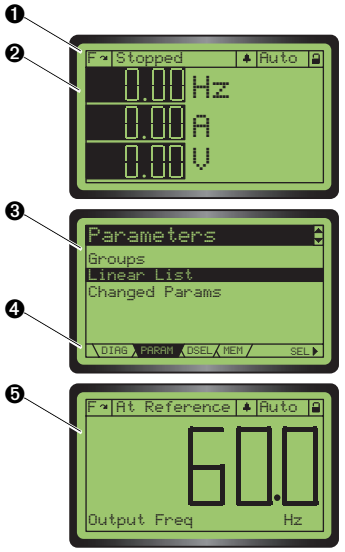
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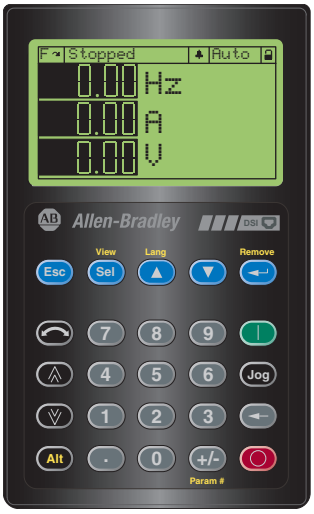
PowerFlex® 4-Class HIM (DSI) Quick Reference

Human Interface Modules (HIM)

22-HIM-A3 — IP20 (NEMA Type 1)	22-HIM-C2S — IP66 (NEMA Type 4X/12)
	

Display Descriptions





Display	
❶	Status Line: Direction I Operating Status I Drive Status I Auto/Manual Mode I Parameters Locked/Unlocked
❷	Process Display screen: • Output Frequency • User Display Line 1 (HIM Parameter 04) • User Display Line 2 (HIM Parameter 05)
❸	Programming screen
❹	Menu Navigation Tabs
❺	Large Format User Display screen:

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Key Descriptions

Keys		Description
Esc		Exit a menu, cancel a change to a parameter value, or acknowledge a fault/alarm.
Sel		Select a digit, select a bit, or select a menu tab.
▲		Scroll through options, increase a value, or toggle a bit.
▼		Scroll through options, decrease a value, or toggle a bit.
↵		Enter a menu, enter edit mode in a parameter screen, or save a change to a parameter value.
Alt plus…	View Sel	Toggle between the Process Display and Large Format Display.
	Lang ▲	Select an available language for text displayed on HIM screens.
	Remove ↵	Allow the HIM to be disconnected without causing a fault condition.
	+/- Param #	Enable direct parameter number entry.
		Start the drive.
		Stop the drive or clear a fault.
		Change direction.
Jog		Jog the drive.
0 ... 9 ← . +/-		Type parameter numbers and values.
		Increase or decrease the speed Reference to the drive after these keys are enabled by setting drive parameter P038 - [Speed Reference] as follows: • When the HIM is the DSI Master, set parameter P038 to “5” (Comm Port). • When the HIM is the DSI Slave, set parameter P038 to “1” (Internal Freq). To view the HIM’s active device type status (Master or Slave), see HIM **Parameter 10 - [M/S Status]**.

Menu Navigation Tabs

Tabs	Description
DIAG	The Diagnostics tab is used to display faults, the device (drive or peripheral) status, and device version.
PARAM	The Parameters tab is used to edit parameters. Parameters can be displayed in groups, in a linear list, or only those changed from their defaults.
DSEL	The Device Select tab is used to select the device (drive or peripheral) that the HIM is to access.
MEM	The Memory Storage tab is used for HIM CopyCat (uploading/downloading configurations to the HIM EEPROM).
HIM	The HIM Setup tab is used to access HIM parameters, view the HIM version, and to edit the Reference text when a user-defined Reference is used.

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Parameter List

Parameter No.	Name and Description	Details
01	**[Startup Display]** Selects the display screen shown when the HIM is powered up.	Default: 0 = Main Menu Values 0 = Main Menu 1 = Process Disp 2 = Large Disp 3 = Startup Param Type: Read/Write
02	**[Startup Param]** Selects a desired drive parameter to be displayed if **Parameter 01 - [Startup Display]** is set to "3" (Startup Param).	Default: 1 Minimum: 1 Maximum: 65535 Type: Read/Write
03	**Reserved**	
04	**[User Disp Line 1]** Selects a desired drive parameter to be displayed on User Display Line 1 of the Process Display screen. For example, setting to "3" selects PowerFlex 4-Class drive Parameter 3 - [Output Current] to be displayed.	Default: 3 Minimum: 1 Maximum: 65535 Type: Read/Write
05	**[User Disp Line 2]** Selects a desired drive parameter to be displayed on User Display Line 2 of the Process Display screen. For example, setting to "5" selects PowerFlex 4-Class drive Parameter 5 - [DC Bus Voltage] to be displayed.	Default: 5 Minimum: 1 Maximum: 65535 Type: Read/Write
06	**[Large Disp Param]** Selects a desired drive parameter to be displayed on the Large Format User Display screen. For example, setting to "1" selects PowerFlex 4-Class drive Parameter 1 - [Output Freq] to be displayed. Setting to "0" enables the Scaled Reference to be displayed.	Default: 1 Minimum: 0 Maximum: 65535 Type: Read/Write
07	**[LCD Contrast]** Sets the HIM LCD contrast level.	Default: 50% Minimum: 0% Maximum: 100% Type: Read/Write
08	**[Reset HIM]** 1 (Reset): Resets the HIM. 2 (Set Defaults): Resets HIM parameters to factory settings. This parameter returns to a value of "0" (Ready) after the reset function is complete.	Default: 0 = Ready Values 0 = Ready 1 = Reset 2 = Set Defaults Type: Read/Write
09	**[Device Type]** Selects the HIM device type. When set to "0" (Auto), the HIM is automatically configured as either a DSI Master or Slave depending on the presence of other peripheral devices.	Default: 0 = Auto Values 0 = Auto 1 = Slave 2 = Master Type: Read/Write
10	**[M/S Status]** Displays the HIM active device type.	Default: N/A Values 1 = Slave 2 = Master Type: Read Only
11	**[HIM Ref Preset]** 0 (Zero Start): HIM Reference is always "0.0" at power on. 1 (Host Output): HIM will assume the Host's output feedback (bumpless transfer) and preset its Reference when the Reference is configured to be received on the RS-485 port. This can be verified by viewing Diagnostics/Device Status/Remote Freq Ref = 1. 2 (Last HIM Ref): HIM will store the HIM Reference in EEPROM each time it is changed. HIM Reference is restored at power on.	Default: 0 = Zero Start Values 0 = Zero Start 1 = Host Output 2 = Last HIM Ref Type: Read/Write

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Parameter No.	Name and Description	Details
12	**[Ref Scaling]** Enables or disables scaling the Reference to a user-defined value. When **Parameter 12 - [Ref Scaling]** is set to "1" (Enabled), use HIM Parameters 13…22 to scale the Reference.	Default: 0 = Disabled Values: 0 = Disabled 1 = Enabled Type: Read/Write
13	**[Ref Max Value]** Sets the user-defined value to be displayed when the drive is running at 60 Hz.	Default: 600 Minimum: 100 Maximum: 65535 Type: Read/Write
14	**[Ref Dec Position]** Sets the number of digits to be displayed to the right of the decimal point for the Reference.	Default: 1 Minimum: 0 Maximum: 3 Type: Read/Write
15 16 17 18 19 20 21 22	**[Ref Units Char 1]** **[Ref Units Char 2]** **[Ref Units Char 3]** **[Ref Units Char 4]** **[Ref Units Char 5]** **[Ref Units Char 6]** **[Ref Units Char 7]** **[Ref Units Char 8]** Selects up to 8 characters (from the ISO 8859-1 character set) to use for the Reference units on the Process Display. Parameters 15…22 can also be configured using the "Edit Ref Text" selection in the HIM Setup tab.	Default: 72 ("H") Default: 122 ("z") Default: 32 (blank - no character) Default: 32 (blank - no character) Default: 32 (blank - no character) Default: 32 (blank - no character) Default: 32 (blank - no character) Default: 32 (blank - no character) Minimum: 32 Maximum: 255 Type: Read/Write
23	**[Fault Dspy Type]** Selects the type of display flash to be shown when a drive or peripheral fault is detected.	Default: 0 = Flash Bklite Values: 0 = Flash Bklite 1 = Flash None Type: Read/Write
24	**[Alarm Dspy Type]** Selects the type of display flash to be shown when a drive alarm is detected.	Default: 1 = Flash None Values: 0 = Flash Bklite 1 = Flash None Type: Read/Write

NOTE: New settings to HIM parameters are implemented immediately. Resetting the HIM is not required for new values to take effect.

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Publication 22HIM-QR001F – September 2009
Supersedes 22HIM-QR001E-EN-P – April 2005
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