

## Quick Reference

Original Instructions



**Allen-Bradley**

by ROCKWELL AUTOMATION

# PowerFlex 4-Class HIM (DSI)

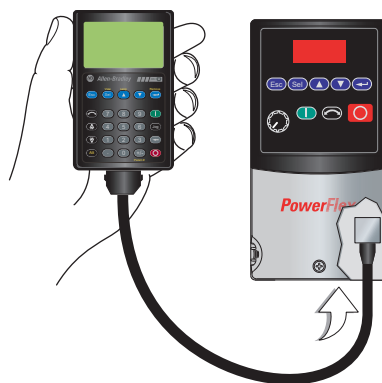
Catalog Numbers 22-HIM-A3, 22-HIM-C2S

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## Introduction

This Quick Reference provides display descriptions, key descriptions, information about the menu navigation tabs, and a parameter list for the PowerFlex® 4-Class HIM (DSI) Human Interface Modules (HIM).

22-HIM-A3 – IP20 (NEMA Type 1)



22-HIM-C2S – IP66 (NEMA Type 4X/12)

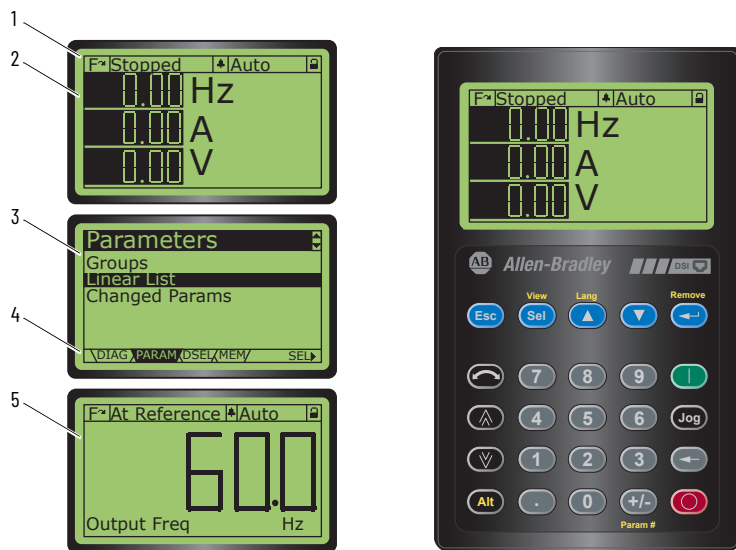


## Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.


















Topic	Page
Removed parameter 24; modified parameter 23.	5

## Display Descriptions



Display	
1	Status Line: Direction   Operating Status   Drive Status   Auto/Manual Mode   Parameters Locked/Unlocked
2	Process Display screen: Output Frequency User Display Line 1 (HIM Parameter 04) User Display Line 2 (HIM Parameter 05)
3	Programming screen
4	Menu Navigation Tabs
5	Large Format User Display screen:

## Key Descriptions

Keys	Description
	Exit a menu, cancel a change to a parameter value, or acknowledge a fault/alarm.
	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.
 plus...	 View Sel Toggle between the Process Display and Large Format Display.
	 Lan 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 the drive.
	Type parameter numbers and values.
 	Increase or decrease the speed Reference to the drive after these keys are enabled by setting drive parameter 38 [Speed Reference] as follows: When the HIM is the DSI Master, set parameter 38 to '5' (Comm Port). When the HIM is the DSI Slave, set parameter 38 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.

## 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 <b>Parameter 01 [Startup Display]</b> 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: - 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
12	[Ref Scaling] Enables or disables scaling the Reference to a user-defined value. When <b>Parameter 12 [Ref Scaling]</b> 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

Parameter		
No.	Name and Description	Details
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) Default: 32(blank - no character) Minimum: 32 Maximum: 255 Type: Read/Write
23	[AUTO MAN Switch] Switch the display of AUTO and MAN.	Default: 0 = Switch Values: 0 = Switch 1 = Not Switch Type: Read/Write



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

**Notes:**

## Additional Resources

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

Resource	Description
PowerFlex 4M User Manual, publication <a href="#">22F-UM001</a>	Provides basic information needed to install, start-up, and troubleshoot the PowerFlex 4M Adjustable Frequency AC Drive.
PowerFlex 4M Adjustable Frequency AC Drives Technical Data, publication <a href="#">22F-TD001</a>	Provides detailed technical data, specifications, and ratings for the PowerFlex 4M Adjustable Frequency AC Drive
System Security Design Guidelines Reference Manual, <a href="#">SECURE-RM001</a>	Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment.
Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication <a href="#">IC-TD002</a>	Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication <a href="#">SGI-1.1</a>	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, <a href="http://rok.auto/certifications">rok.auto/certifications</a> .	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at [rok.auto/literature](http://rok.auto/literature).

# Rockwell Automation Support

Use these resources to access support information.

<b>Technical Support Center</b>	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	<a href="http://rok.auto/support">rok.auto/support</a>
<b>Knowledgebase</b>	Access Knowledgebase articles.	<a href="http://rok.auto/knowledgebase">rok.auto/knowledgebase</a>
<b>Local Technical Support Phone Numbers</b>	Locate the telephone number for your country.	<a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a>
<b>Literature Library</b>	Find installation instructions, manuals, brochures, and technical data publications.	<a href="http://rok.auto/literature">rok.auto/literature</a>
<b>Product Compatibility and Download Center (PCDC)</b>	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	<a href="http://rok.auto/pcdc">rok.auto/pcdc</a>

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