

# Product Details and Certifications

**Cross Reference RA Part Number: 316561-A10**



**Product: 20-HIM-C6S**

Description: PowerFlex Architecture Class Enhanced HIM, IP66 (NEMA 4X/12),  
Indoor Use Only. Includes 1202-C30 Cable.



Representative Photo Only (actual product may vary based on configuration sections)

## ***ACCESSORY SELECTION***

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Bulletin Number	20-HIM Enhanced HIM
Accessory Selection	Individual Accessory Selection

## ***SELECTION***

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PowerFlex Loose Human Interface Modules and Kits


## 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.

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### HIM Types

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

HIM Catalog Number	Description
20-HIM-A6 <sup>(1)</sup>	NEMA Type 1 HIM
 20-HIM-C6S <sup>(1)</sup>	Remote-Mount NEMA Type 4X/12 HIM

<sup>(1)</sup> 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/abdrives/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.

- 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 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.

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## Specifications

This appendix provides the specifications for the HIM.

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### Communications

Protocol	Drive Peripheral Interface (DPI)
Data Rates	125 kbps or 500 kbps

### Electrical

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

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

### Environmental

Temperature	
Operating	0...50 °C (32...122 °F)
Storage	-40...85 °C (-40...185 °F)
Relative Humidity	5...95% non-condensing
Atmosphere	<b>Important:</b> The HIM <b>must not</b> 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.
Vibration	
Operating	2.5 g @ 5 Hz...2 kHz
Non-Operating	5 g @ 5 Hz...2 kHz
Shock	
Operating	30 g peak acceleration, 11 (±1) ms pulse width
Non-Operating	50 g peak acceleration, 11 (±1) ms pulse width