General Motion PACMotion* VFD

geautomation.com

PACMotion VFD Integrated Drive Solution

In today's world of brilliant machines, operators require high-performance automation solutions that seamlessly connect their machines, data, and people while ensuring the safety and integrity of their process and equipment.

To provide a total customer solution, GE is adding the PACMotion VFD, the first fully integrated VFD, to our PACMotion family of products.

Flexibility to Meet Your Needs

Energy Savings with VFDs

Electric motors use 45% of the world's electricity. Most electric motors run continuously at full speed. Electrical costs for these motors account for over 80% of the motor's lifetime operational cost.

Connecting your electric motor to a PACMotion VFD provides considerable savings. PACMotion VFD customers typically recoup their VFD investment in less than three years.

GE's PACMotion VFD is an integrated, rugged, and modular variable frequency drive designed for a range of applications:

- Water/Wastewater
- Metro, Automotive
- Mining
- Food and Beverage
- Packaging
- Oil and Gas

The PACMotion VFD seamlessly integrates with GE's controllers and Field Agent* technology. By leveraging the total system architecture, you can use continuous feedback to optimize your process and improve profitability.

Compact, Modular Design

The compact footprint of the PACMotion VFD minimizes control cabinet space, or with IP55 or IP66 enclosures, you can skip the control cabinet entirely. The built-in keypad and display allow operators to validate parameters, providing instant feedback during troubleshooting.

The modular design allows individual units to be connected and controlled with a single keypad.

Connects and Optimizes

Connecting the PACMotion VFD with other GE products lets you monitor, record, and optimize output in real time. Adding Field Agent technology allows you to send data via a secure connection to the Industrial Internet.

Product Overview

Details

Input Voltage	1 Phase 200-240VAC, 3 Phase 200-240VAC, 3 Phase 380-480VAC, 3 Phase 500-600VAC
Power Range	0.75 up to 250kW (1 up to 350 HP)
Temperature	IP55 and IP66: -10°C to 40°C IP20: -10°C to 50°C In storage (not in operation): -40°C to 60°C
Current Overload 60s / 2s	150% / 175% Breakaway torque up to 200%
FieldBus Connection	PROFIBUS, PROFINET, EtherNet/IP, EtherCAT, Modbus
Electromagnetic Compatibility (EMC)	Integrated EMC Filter C2 at 3 x 380 to 480VAC
Safety	STO: EN 61508 (1-7) SIL 2 ISO 13849-1:2006 PL d

Conformal coating for circuit boards

Australia Europe Russia USA/Canada

Multiple Configuration Options

Keypad

- VFD can be manually configured via the built-in keypad or via the OLED Keypad accessory
- OLED includes language selection

Proficy* Machine Edition

- Product configuration embedded within PME

*Professional Development License

The Only VFD Configured with PME on the Market

Bluetooth Parameter Module

- Bluetooth communication for operation using software
- Fast manual replication of parameter data between the drives

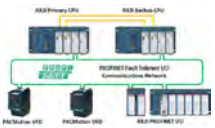
PACMotion VFD: Cost Saving Installation and Performance

Cost-Saving Installation

Configuration is embedded within GE's Proficy Machine Edition, reducing installation time

Multiple customer configuration options minimize installation time for all user types

IP55 and IP66 housings eliminate the need for a control cabinet, saving time and money



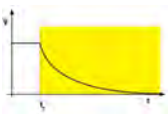
PROFINET System Redundancy Support† eliminates the need for an intermediary device, saving up to 15% on installation costs

† Available 2018

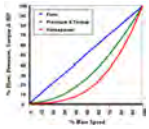
Cost-Saving Performance

Built to perform in harsh environments, all drives are conformally coated to resist moisture and chemical contaminants

Seamlessly integrates with GE's controllers and Field Agent technology, providing feedback to improve your processes and profitability



Safe Torque Off (STO) saves development time and eliminates need for an input contractor



Pre-programmed modes save development time for complex operations

Catalog Number	Motor Power (kW / HP)	Input Voltage	Interference Suppression	Connection Type	Design	Nominal Output Current (A)	IP20 Size (WxHxD)	IP55/IP66 Size (WxHxD)
IC855-0008-2B1-XX	0.75 / 1	2 = 200-240V	B = Class C1	1 = 1-phase	2 = IP20 6 = IP66	4.3	4.3x8.7x7.3 in 110x221x185 mm	7.4x10.1x9.4 in 188x257x239 mm
IC855-0015-2B1-XX	1.5 / 2					7		
IC855-0022-2B1-XX	2.2 / 3					10.5		
IC855-0008-2A3-XX	0.75 / 1		A = Class C2	3 = 3-phase		4.3		
IC855-0015-2A3-XX	1.5/ 2					7		
IC855-0022-2A3-XX	2.2 / 3					10.5		
IC855-0030-2A3-XX	3 / 4					14	5.2x10.3x8.1 in 131x261x205 mm	8.3x12.2x10.6 in 211x310x270 mm
IC855-0040-2A3-XX	4 / 5					18		
IC855-0055-2A3-XX	5.5 / 7.5					24		6.7x17.7x9.3 in 171x450x235 mm
IC855-0075-2A3-XX	7.5 / 10				5 = IP55	39		
IC855-0110-2A3-XX	11 / 15					46		9.3x21.3x10.6 in 235x540x268 mm
IC855-0150-2A3-XX	15 / 20					61		
IC855-0185-2A3-XX	18.5 / 25					72		13x34.1x13.2 in 330x865x335 mm
IC855-0220-2A3-XX	22 / 30					90		
IC855-0300-2A3-XX	30 / 40					110		
IC855-0370-2A3-XX	37 / 50					150		
IC855-0450-2A3-XX	45 / 60					180		
IC855-0550-2A3-XX	55 / 75					202		13x50.4x14.4 in 330x1280x365 mm
IC855-0750-2A3-XX	75 / 100					248		
IC855-0900-2A3-XX	90 / 120					302		
IC855-0008-4A3-XX	0.75 / 1	4 = 380-480V	A = Class C2	3 = 3-phase	2 = IP20 6 = IP66	2.2	4.3x8.7x7.3 in 110x221x185 mm	7.4x10.1x9.4 in 188x257x239 mm
IC855-0015-4A3-XX	1.5 / 2					4.1		
IC855-0022-4A3-XX	2.2 / 3					5.8		
IC855-0040-4A3-XX	4 / 5					9.5		
IC855-0055-4A3-XX	5.5 / 7.5					14	5.2x10.3x8.1 in 131x261x205 mm	8.3x12.2x10.6 in 211x310x270 mm
IC855-0075-4A3-XX	7.5 / 10					18		
IC855-0110-4A3-XX	11 / 15					24		
IC855-0150-4A3-XX	15 / 20				5 = IP55	30		6.7x17.7x9.3 in 171x450x235 mm
IC855-0185-4A3-XX	18.5 / 25					39		
IC855-0220-4A3-XX	22 / 30					46		
IC855-0300-4A3-XX	30 / 40					61		9.3x21.3x10.6 in 235x540x268 mm
IC855-0370-4A3-XX	37 / 50					72		
IC855-0450-4A3-XX	45 / 60					90		13x34.1x13.2 in 330x865x335 mm
IC855-0550-4A3-XX	55 / 75					110		
IC855-0750-4A3-XX	75 / 100					150		
IC855-0900-4A3-XX	90 / 120					180		
IC855-1100-4A3-XX	110 / 150					202		13x50.4x14.4 in 330x1280x365 mm
IC855-1320-4A3-XX	132 / 175					240		
IC855-1600-4A3-XX	160 / 210					302		
IC855-2000-4A3-XX†	200 / 300				2 = IP20	370		18.9x39.6x18.9 in 480x1005x480 mm
IC855-2500-4A3-XX†	250 / 350					450		

† External Braking Resistor Required

Catalog Number	Motor Power (kW / HP)	Input Voltage	Interference Suppression	Connection Type	Design	Nominal Output Current (A)	IP20 Size (WxHxD)	IP55/IP66 Size (WxHxD)
IC855-0008-603-XX	0.75 / 1	6 = 500 - 600V	0 = Class 0	3 = 3-phase	2 = IP20 6 = IP66	2.1	4.3x8.7x7.3 in 110x221x185 mm	7.4x10.1x9.4 in 188x257x239 mm
IC855-0015-603-XX	1.5 / 2					3.1		
IC855-0022-603-XX	2.2 / 3					4.1		
IC855-0040-603-XX	4 / 5					6.5		
IC855-0055-603-XX	5.5 / 7.5					9	5.2x10.3x8.1 in 131x261x205 mm	8.3x12.2x10.6 in 211x310x270 mm
IC855-0075-603-XX	7.5 / 10					12		
IC855-0110-603-XX	11 / 15					17		
IC855-0150-603-XX	15 / 20					22		6.7x17.7x9.3 in 171x450x235 mm
IC855-0185-603-XX	18.5 / 25				5 = IP55	28		
IC855-0220-603-XX	22 / 30					34		
IC855-0300-603-XX	30 / 40					43		
IC855-0370-603-XX	37 / 50					54		9.3x21.3x10.6 in 235x540x268 mm
IC855-0450-603-XX	45 / 60					65		
IC855-0550-603-XX	55 / 75					78		13x34.1x13.2 in 330x865x335 mm
IC855-0750-603-XX	75 / 100					105		
IC855-0900-603-XX	90 / 120					130		
IC855-1100-603-XX	110 / 150					150		

EXAMPLE: IC855-0015-4B1-2P

Product Name	IC855	PACMotion VFD
Recommended motor power	0015	0015 = 1.5 kW
Connection voltage	4	2 = 200 - 240VAC 4 = 380 - 480VAC 6 = 500 – 600VAC
Interference suppression on the input	B	0 = None A = Class C2 B = Class C1
Connection type	1	1 = 1-phase 3 = 3-phase
Design	2	2 = Standard IP20 housing 5 = IP55/NEMA-12K housing 6 = IP66/NEMA-4X housing
Option Card	P	P = Profinet RT (Standard) 0 = Empty (Purchase separately)
Country-specific variant	(60 Hz)	50 Hz or 60 Hz design

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