



## PowerFlex AC Drives

One stop solution for industrial  
products and services

## PowerFlex 4M AC Drive

Ideal for machine-level speed control for applications that require space-savings and easy-to-use AC drives

The PowerFlex 4M AC drive features a space-saving design and is the most cost-effective member of the PowerFlex family

- Control for standalone machines
- Feed-through wiring design facilitates replacement of existing starters combined with energy savings
- Onboard Modbus and DSI port
- Proven applications: Fans, Pumps, Conveyors
- Ideal for Bulletin 160 drive migrations



### Power Ratings:

- 100...120V: 0.2...1.1 kW / 0.25...1.5 Hp / 1.6...6 A
- 200...240V: 0.2...7.5 kW / 0.25...10 Hp / 1.6...33 A
- 380...480V: 0.4...11 kW / 0.5...15 Hp / 1.5...24 A

## PowerFlex 523 AC Drive

Features innovative modular design while providing the right amount of control for basic applications

The PowerFlex 523 AC drive is designed for rapid installation and configuration

- Premier Integration into Logix environment, using an EtherNet/IP option card
- Standard USB for upload/download drive configuration
- Configurable by HIM or Connected Components Workbench™ software
- The control section can be separated from the power structure for fast field replacements and fewer spare parts on the shelf



### Power Ratings:

- 100...120V: 0.2...1.1 kW / 0.25...1.5 Hp
- 200...240V: 0.2...15 kW / 0.25...20 Hp
- 400V/480V/525V/600V: 0.4...22 kW / 0.5...30 Hp

## PowerFlex 525 AC Drive

The PowerFlex 525 AC drive is ideal for networked machines requiring more motor control options, standard safety and EtherNet/IP communication

- Premier Integration into Logix environment via EtherNet/IP
- Safe Torque Off standard
- Built-in single port for EtherNet/IP connectivity
- Supports a wide variety of motor control types including permanent magnet motors



### Power Ratings:

- 100...120V: 0.2...1.1 kW / 0.25...1.5 Hp
- 200...240V: 0.2...15 kW / 0.25...20 Hp
- 400V/480V/525V/600V: 0.4...22 kW / 0.5...30 Hp

## PowerFlex 527 AC Drive

Designed to work exclusively with a Logix controller

The PowerFlex 527 AC drive is ideal for machines where both servo and induction motor control is required, and/or where networked safety would be beneficial

- Premier Integration configuration and programming with motion instructions in Studio 5000 Logix Designer
- Choice of hardwired or networked safety
- Built-in dual ports for EtherNet/IP
- Shares common configuration and programming with Allen-Bradley Kinetix servo drives for simplified user experience



### Power Ratings:

- 100...120V: 0.2...1.1 kW / 0.25...1.5 Hp
- 200...240V: 0.2...15 kW / 0.25...20 Hp
- 400V/480V/525V/600V: 0.4...22 kW / 0.5...30 Hp

# PowerFlex 400 AC Drive

## Drive Ratings

- 200-240V, 2.2...37 kW • 3.0...50 Hp • 12...145 A
- 380-480V, 2.2...250 kW • 3.0...350 Hp • 6...460 A

## Motor Control

- V/Hz Motor Control
- Slip Compensation

## Ambient Temperature Limit for Enclosures

- IP20, NEMA/UL Type Open: -10 to 50° C (14 to 122° F)
- IP30, NEMA/UL Type 1: -10 to 45° C (14 to 113-10 to 45°C (14 to 113°F)

## Operator Interface

- "Integral keypad features 2 line, 16 alphanumeric character LCD display."



## Features

- Sleep/Wake
- PID Control
- Flying Start
- Purge Input
- Damper Input
- Multi-stage pump control Hand/Off/Auto
- Drive Overload Protection
- Integral Metasys N2 and Apogee FLN P1 communications
- Optional LonWorks and BACnet communications
- 3 contactor bypass



# PowerFlex AC Drives



## PowerFlex 4M AC Drive

## PowerFlex 400 AC Drive

<b>Motor Control</b>	<ul style="list-style-type: none"> <li>Volts per Hertz</li> </ul>	<ul style="list-style-type: none"> <li>Volts per Hertz</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>Open loop speed regulation</li> </ul>	<ul style="list-style-type: none"> <li>Open loop speed regulation</li> </ul>
<b>Ratings 100-115V 1 Phase In/3 Phase 230V Out</b>	<ul style="list-style-type: none"> <li>0.2...1.1 kW • 0.25...1.5 Hp • 1.6...6 A</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
<b>Ratings 200-240V</b>	<ul style="list-style-type: none"> <li>0.2...7.5 kW • 0.25...10 Hp • 1.6...33 A</li> </ul>	<ul style="list-style-type: none"> <li>2.2...37 kW • 3.0...50 Hp • 12...145 A</li> </ul>
<b>Ratings 400-480V</b>	<ul style="list-style-type: none"> <li>0.4...11 kW • 0.5...15 Hp • 1.5...24 A</li> </ul>	<ul style="list-style-type: none"> <li>2.2...250 kW • 3.0...350 Hp • 6...460 A</li> </ul>
<b>Ratings 500-600V</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>	<ul style="list-style-type: none"> <li>N/A</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>Compact, space saving design</li> <li>Most cost-effective member of the PowerFlex family of drives</li> <li>Feed-through wiring</li> <li>Ambient temperatures up to 50 °C (122 °F) permitted with minimal spacing between drives</li> <li>Zero Stacking™ Drives for ambient temperatures up to 40 °C (104 °F)</li> <li>Drive overload protection and ramp regulation</li> <li>Configuration and programming via HIM, Studio 5000 Logix Designer or Connected Components Workbench software</li> </ul>	<ul style="list-style-type: none"> <li>Ideal for pump and fan applications</li> <li>Designed to meet demands for flexibility, space savings and ease-of-use</li> <li>Drive overload protection, flying start, purge and damper input, hand/off/auto, and sleep/wake, PID features</li> <li>Configuration and programming via HIM, Studio 5000 Logix Designer or Connected Components Workbench software</li> <li>Ambient Temperature up to 50 °C (122 °F)</li> </ul>
<b>Communications Options</b>	<ul style="list-style-type: none"> <li>Integral RS485 (Modbus RTU)</li> <li>Optional: *EtherNet/IP, *ControlNet, *DeviceNet, *PROFIBUS DP</li> </ul> <p><small>* Optional network for use only with DSI External Communications Kit</small></p>	<ul style="list-style-type: none"> <li>Integral RS485 (Modbus RTU, Metasys N2, P1-FLN)</li> <li>Optional: *EtherNet/IP, *ControlNet, *DeviceNet, BACnet, *LonWorks®, *PROFIBUS DP</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>No</li> </ul>	<ul style="list-style-type: none"> <li>No</li> </ul>



### PowerFlex 523 AC Drive

### PowerFlex 525 AC Drive

### PowerFlex 527 AC Drive

- Volts per Hertz
- Sensorless vector control

- Volts per Hertz
- Sensorless vector control
- Closed loop velocity vector control
- Permanent magnet motor control

- Volts per Hertz
- Sensorless vector control
- Closed loop velocity vector control

- Open loop speed regulation

- Open loop speed regulation
- Closed loop speed regulation

- Open loop speed regulation
- Closed loop speed regulation

• 0.2...1.1 kW • 0.25...1.5 Hp • 1.6...6 A

• 0.4...1.1 kW • 0.5...1.5 Hp • 2.5...6 A

• 0.4...1.1 kW • 0.5...1.5 Hp • 2.5...6 A

• 0.2...15 kW • 0.25...20 Hp • 1.6...62.1 A

• 0.4...15 kW • 0.5...20 Hp • 2.5...62.1 A

• 0.4...15 kW • 0.5...20 Hp • 2.5...62.1 A

• 0.4...22 kW • 0.5...30 Hp • 1.4...43 A

• 0.4...22 kW • 0.5...30 Hp • 1.4...43 A

• 0.4...22 kW • 0.5...30 Hp • 1.4...43 A

• 0.4...22 kW • 0.5...30 Hp • 0.9...32 A

• 0.4...22 kW • 0.5...30 Hp • 0.9...32 A

• 0.4...22 kW • 0.5...30 Hp • 0.9...32 A

- Modular design eases installation
- Operating temperatures from -20 °C (-4 °F) up to 50 °C (122 °F). Up to 70 °C (158 °F) with current derating and optional control module fan kit
- Configuration and programming via multi-language HIM, Studio 5000 Logix Designer or Connected Components Workbench software
- Economizer motor control for energy savings
- Application specific parameter groups
- Configurable analog output communicates a reference point to another drive or external device
- Automatic Device Configuration\*

- Modular design eases installation
- Operating temperatures from -20 °C (-4 °F) up to 50 °C (122 °F). Up to 70 °C (158 °F) with current derating and optional control module fan kit
- Configuration and programming via multi-language HIM, Studio 5000 Logix Designer or Connected Components Workbench software
- Economizer motor control for energy savings
- Application specific parameter groups
- Simple positioning control with optional encoder card
- Automatic Device Configuration

- Modular design eases installation
- Operating temperatures from -20 °C (-4 °F) up to 50 °C (122 °F). Up to 70 °C (158 °F) with current derating and optional control module fan kit
- Works exclusively with Logix controllers
- Configuration and programming with motion instructions in Studio 5000 Logix Designer
- Choice of hardwired or networked safety
- Removable terminal blocks help simplify installation
- Simple positioning control with optional encoder card
- Automatic Device Configuration

\* Requires Dual-port EtherNet/IP Option Module (Cat. No. 25-COMM-E2P)

- Integral RS485 (Modbus RTU)
- Optional: Dual-port EtherNet/IP, DeviceNet, PROFIBUS DP

- Built-in EtherNet/IP port
- Integral RS485 (Modbus RTU)
- Optional: Dual-port EtherNet/IP, DeviceNet, PROFIBUS DP

- Built-in dual EtherNet/IP ports

• No

• Built-in hardwired Safe Torque Off, SIL2, PLd, CAT 3

• Built-in hardwired Safe Torque Off, SIL3, PLe, CAT 3  
• Built-in networked Safe Torque Off, SIL3, PLe, CAT 3

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