

PowerFlex 520-Series AC Drives



The Next Generation of Powerful Performance. Flexible Control.



LISTEN.
THINK.
SOLVE.®

PowerFlex 520-Series AC Drives

The Next Generation of Powerful Performance. Flexible Control.

Allen-Bradley® PowerFlex® 520-Series AC drives combine innovation and ease of use to provide motor control solutions designed to maximize your system performance and reduce your time to design and deliver better machines. Each of the three drives in this family offers a unique set of features to distinctively match the needs of your application.

PowerFlex 523 AC drives are ideal for machines that require cost-effective motor control.

PowerFlex 525 AC drives are ideal for machines with simple system integration and offer standard features including built-in EtherNet/IP™ and safety.

PowerFlex 527 AC drives are designed to be used with an Allen-Bradley Logix Programmable Automation Controller (PAC). Ideal for machines that can benefit from the same drive configuration experience for both servo and AC drives, the PowerFlex 527 drive features a built-in dual port for EtherNet/IP and safety over the network.





PowerFlex 520-Series AC drives are designed to help maximize your productivity both in machine design and in use.

- Power ratings
 - PowerFlex 523 AC drives: **0.2...22 kW / 0.25...30 Hp** in global voltage classes from 100-600V
 - PowerFlex 525 AC drives: **0.4...22 kW / 0.5...30 Hp** in global voltage classes from 100-600V
 - PowerFlex 527 AC drives: **0.4...22 kW / 0.5...30 Hp** in global voltage classes from 100-600V
- The **modular design** helps reduce spare parts inventory and provides a faster way to install and configure drives
- **EtherNet/IP connectivity** supports seamless integration into the Logix environment
- Built-in **safety** features for PowerFlex 525 and 527 drives help protect personnel and assets
- The PowerFlex 527 offers **Integrated Safety** – safety via an EtherNet/IP network
- A choice of easy-to-use **software** and **tools** helps simplify design, configuration and programming
- **High operating temperatures** of up to 50°C (122°F). With current derating and a control module fan kit, up to 70°C (158°F)
- Save panel space with a **compact footprint** that provides flexible installation

A New Spin on Motor Control

PowerFlex 527 AC drives act as a natural extension of Logix Programmable Automation Controllers. This high level of integration helps to enhance motor coordination for improved machine performance.

By leveraging the powerful capabilities of our Logix controllers and using a single software package – Studio 5000 Logix Designer™ – PowerFlex 527 drives help you simplify configuration, programming and use.

This streamlined approach uses motion instructions that are shared by the PowerFlex 527 AC drive and Allen-Bradley Kinetix® servo drives, providing a common user experience and just one software package to learn and use. The commonality and use of consolidated integration tools helps save valuable engineering time.

PowerFlex 527 AC Drive

- Designed to be used exclusively with Allen-Bradley Logix controllers
- Shares common configuration and programming with Allen-Bradley Kinetix servo drives
- Designed for machine applications – such as pumps, fans, and in-feed and out-feed conveyors – that need speed control for induction motors
- Logix integration helps deliver a high level of motor coordination
- Built-in dual-port EtherNet/IP supports multiple network topologies and Device Level Ring functionality
- Built-in hardwired Safe Torque-off. SIL 3 / PLe Cat 3
- Integrated Safety – controller-based safety delivered via EtherNet/IP. SIL 3 / PLe Cat 3

Power Range

- 0.4 - 22 kW / 0.5 - 30 HP in global voltages from 100 - 600V

Configuration and Programming

- Studio 5000 Logix Designer

Safety

- Safe Torque-off is a standard feature that can be applied through either hardwired safety or Integrated Safety via an EtherNet/IP network
- Certified to SIL 3 / PLe Cat 3

Communications

- Built-in dual-port EtherNet/IP

Additional Features

- Removable terminal blocks help simplify installation



PowerFlex 525 AC Drive

PowerFlex 525 AC drives are ideal for networked machines requiring more motor control options, standard safety and EtherNet/IP communications.

- Seamless integration into Logix control architectures along with Automatic Device Configuration
- Standard built-in single port for EtherNet/IP and Safe Torque-off
- Easy to use configuration tools
- Flexible motor control and installation options

Power Range

- 0.4 - 22 kW / 0.5 - 30 HP in global voltages from 100 - 600V

Configuration and Programming

- Multi-language LCD human interface module (HIM)
- Connected Components Workbench Software
- Studio 5000 Logix Designer

Safety

- Built-in hardwired Safe Torque-off
- Certified to SIL2/PLd Cat 3

Communications

- Built-in EtherNet/IP port
- Optional dual-port EtherNet/IP card
- Built-in DSI port supports multi-drive networking, connecting up to five PowerFlex AC drives on one node



PowerFlex 523 AC Drive

PowerFlex 523 AC drives are designed to help reduce installation and configuration time while providing the control your application needs. They offer convenient programming features and installation flexibility in a cost-effective solution.

- Standard USB for upload/download drive configuration
- Simplified configuration with HIM and Connected Components Workbench™ software tools
- Optional communication modules make it easy to add drive to a network

Power Range

- 0.2 - 22 kW / 0.25 - 30 HP in global voltages from 100 - 600V

Configuration and Programming

- Multi-language LCD human interface module (HIM)
- Connected Components Workbench software
- Studio 5000 Logix Designer

Communications

- Optional dual-port EtherNet/IP card
- Built-in DSI port supports multi-drive networking, connecting up to five PowerFlex AC drives on one node



Innovative Design

PowerFlex 520-Series AC drives feature a modular design with common control and power modules that help reduce spare parts inventory and provide a faster way to install and configure drives. All three drives provide flexible mounting options, a compact size and a high temperature tolerance to help meet your needs for flexibility and space savings.



MainsFree™ programming allows configuration files to be uploaded and downloaded to the PowerFlex 525 and PowerFlex 523 drive control module via a USB connection.



Maintain a compact footprint when accessory cards are installed.



A modular design allows you to install a PowerFlex 525 or PowerFlex 523 drive power module and configure a control module at the same time.



A control module fan kit allows PowerFlex 520-Series AC drives to run in temperatures up to 70°C (158°F) with current derating.



PowerFlex 527 drive features removable terminal blocks to help simplify installation.



For flexibility, all three drives can be installed vertically or horizontally as well as side by side in either orientation. A control module fan kit is required for horizontal mounting.

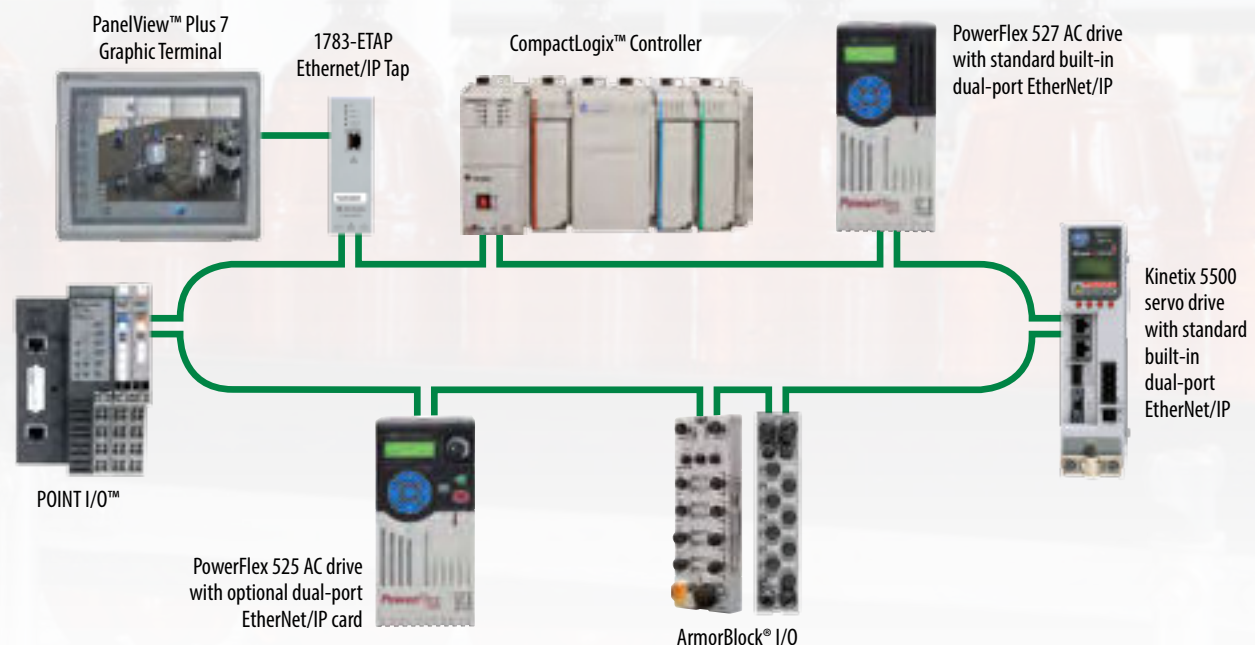
Connectivity

The seamless flow of real-time information within your application can help to enhance the agility and productivity of your operation. PowerFlex 520-Series AC drives offer features that can help you easily manage data throughout your operations for time savings and increased efficiency.

For networked applications, EtherNet/IP connectivity supports seamless integration into the Logix environment. PowerFlex 520-Series drives help you apply this open, widely adopted network by making connections simple. PowerFlex 525 and 527 AC drives have built-in EtherNet/IP connectivity that allows you to easily configure, control and collect data over the network.

An optional dual-port EtherNet/IP card for PowerFlex 523 and 525 AC drives supports topology flexibility and Device Level Ring (DLR) functionality. Implementing DLR functionality helps you achieve higher network resiliency. If one device on the EtherNet/IP network fails, the other devices are able to continue operation. DLR technology, which is an ODVA™ standard, helps reduce configuration time and costs by minimizing the number of managed switches and reducing cabling needs while allowing you to create a single network ring that connects all components at the device level.

The PowerFlex 527 features built-in dual-port EtherNet/IP connectivity for topology flexibility and DLR functionality.



EtherNet/IP is an established, broadly adopted network that helps simplify and enhance machine design and operation. Dual-port EtherNet/IP connectivity supports linear and ring topologies as well as DLR functionality.

Simplified Configuration

The PowerFlex 520-Series AC drives help make configuration and programming fast and uncomplicated with a choice of easy-to-use software packages and tools. Each tool has been designed to be powerful and intuitive to help enhance your user experience and reduce your development time so you can deliver faster and more efficiently.

Built-in Human Interface Module

- HIM configuration is available with PowerFlex 523 and 525 drives
- Five-digit, 16-segment liquid crystal display (LCD) HIM with scrolling descriptive text
- Quickly navigate menus and speed configuration with the integral keypad
- Displays information with scrolling text. These QuickView™ details help provide meaningful explanations, saving time by reducing the need to look up parameters and codes
- Supports multiple languages, which can be quickly selected through the keypad

Connected Components Workbench Software

- For use with PowerFlex 523 and 525 drives
- Helps you get your drives up and running with an intuitive interface and startup wizards
- Localized language support
- Online and offline configuration
- Context-sensitive “Help”
- Upload and download configurations over a USB connection and configure drives over EtherNet/IP, DeviceNet™ or other open industrial networks
- Supports PowerFlex drives as well as Micro800® programmable controllers and PanelView component graphic terminals
- Free software is easy to acquire and install



Support for multiple languages.

Five-digit, 16-segment liquid crystal display (LCD) HIM with descriptive QuickView scrolling text.

Quickly navigate menus and speed configuration with the integral keypad.

AppView group configuration provides parameters for common applications.

With a few clicks, save time by seeing only the parameters most relevant to an application.

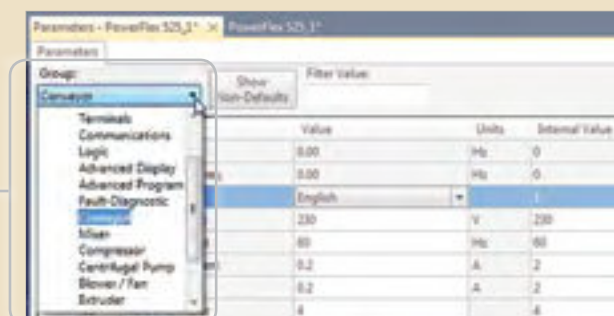
Faster Machine Configuration

Configure PowerFlex 523 and 525 drives faster with intuitive and convenient AppView® and CustomView™ application-specific parameter tools.

AppView provides parameter groups for several of the most common applications, including conveyors, mixers, compressors, pumps and blowers. With the settings to run these applications already in place, you can get your machine up and running faster, increasing your productivity.

Customize your machine and further reduce future design and development time by quickly defining your own group of parameters using the CustomView tool.

Both of these tools are available for use with the PowerFlex 523 and 525 drives through the integral HIM, Connected Components Workbench software and the Studio 5000 Logix Designer applications.



Studio 5000 Logix Designer Software

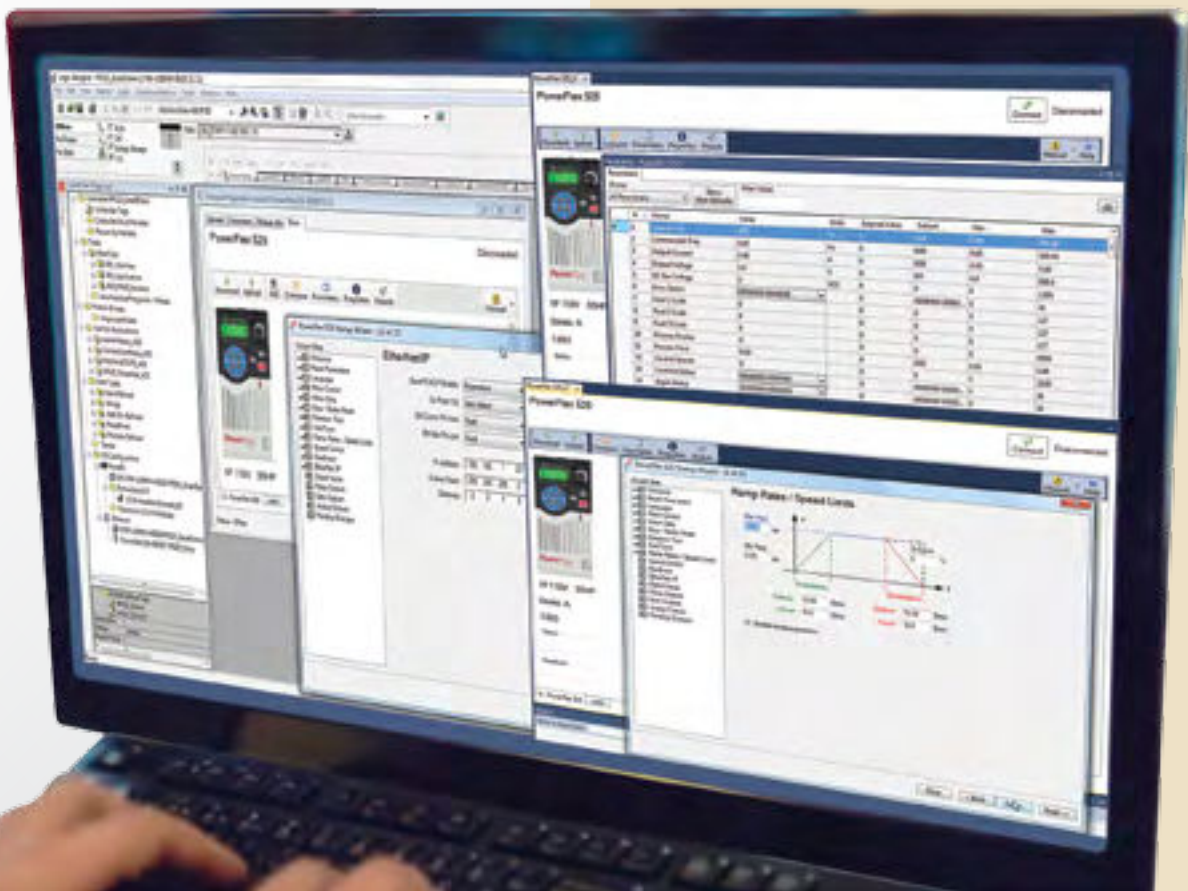
Configuring PowerFlex 520-Series drives with the Studio 5000 Logix Designer application lets you consolidate controller programming and drive system configuration, operation, and maintenance into a single software environment. This exceptional level of integration – Premier Integration – helps to reduce your programming time, ease startup and commissioning, and streamline diagnostics.

- Single software package for discrete, process, batch, motion, safety and drive-based applications
- PowerFlex drives can be seamlessly integrated into the Logix environment to help simplify machine development, use and maintenance
- Comprehensive instruction set serves many types of applications
- Control tag information is automatically generated to ease configuration and minimize the need to manually program the required parameters and tags
- The PowerFlex 527 drive enhances the Premier Integration experience by using the motion instruction set in Studio 5000® for motor synchronization and machine control

Premier Integration



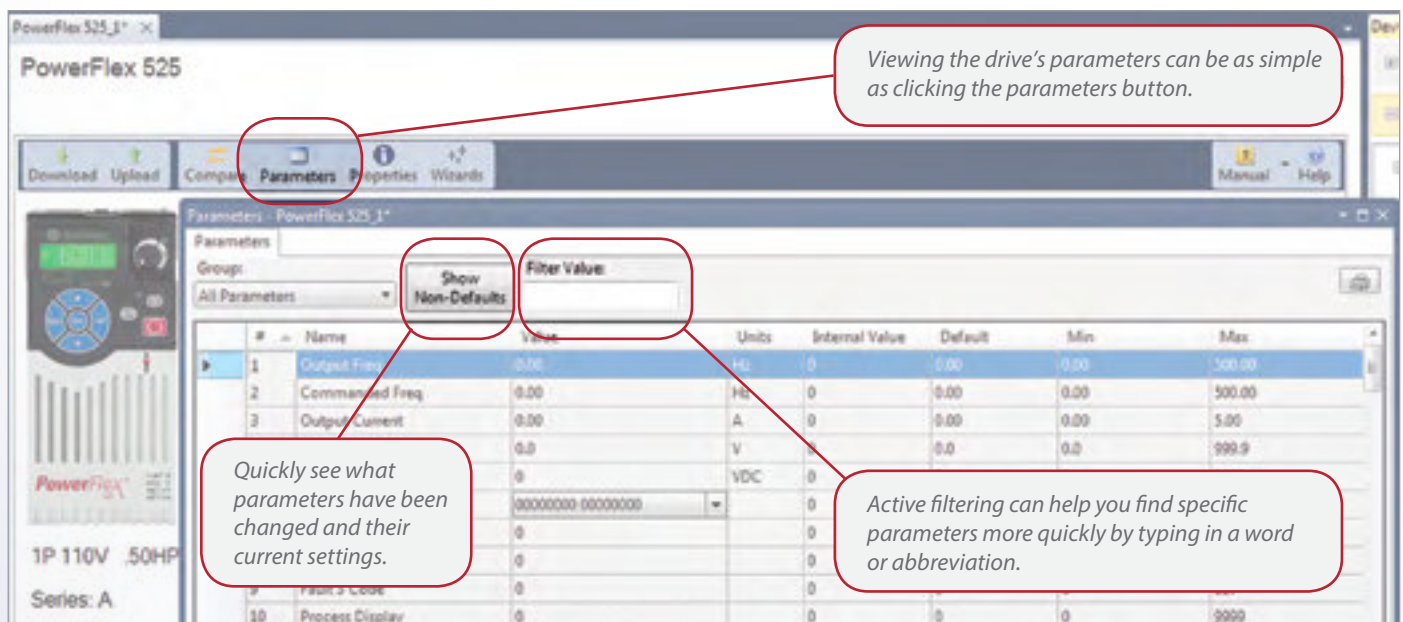
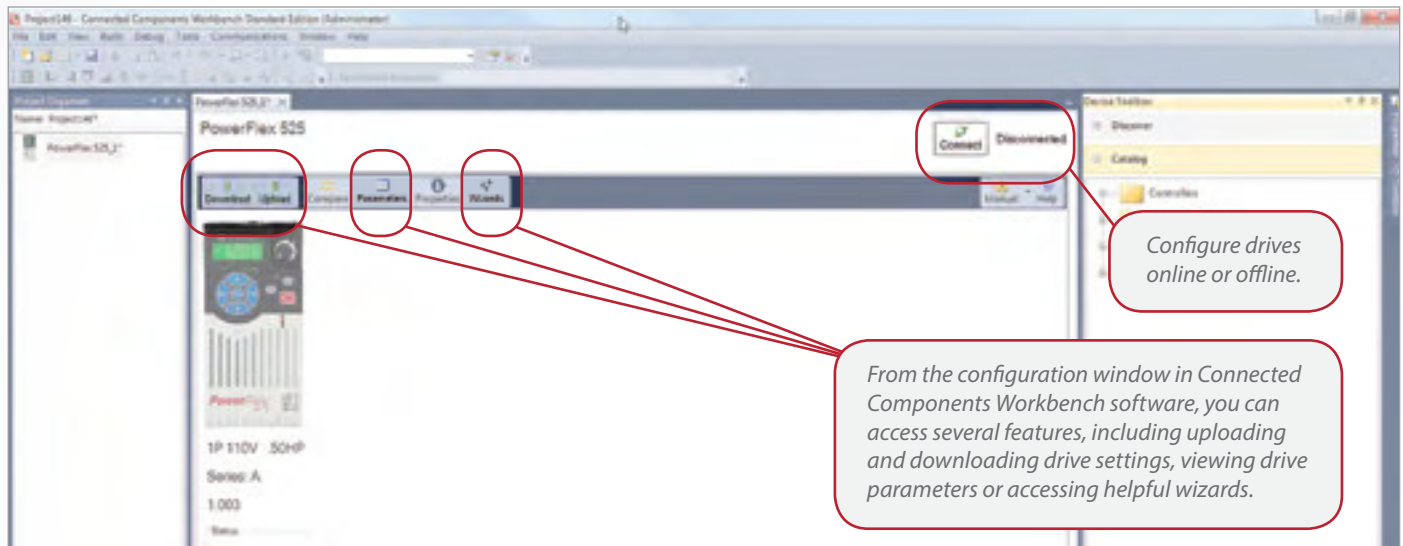
Premier Integration is the exclusive experience of integrating Allen-Bradley motor control devices into the Allen-Bradley Logix control platform. Use just one software tool to configure, control and monitor an entire application.



Connected Components Workbench Software

Connected Components Workbench software can help you get your PowerFlex 523 and 525 AC drives up and running with an intuitive interface and startup wizards. This free software uses Rockwell Automation and Microsoft® Visual Studio® technologies for fast and easy drive configuration.

- Start up wizards to help speed up configuration
- Configuration and control of drives over communication networks



Download Connected Components Workbench Software at: rockwellautomation.com/go/cc

Studio 5000 Logix Designer

If you're searching for ways to be more efficient, consider Premier Integration. The integration of Allen-Bradley motor control devices into the Logix control platform helps reduce your programming time, ease startup and commissioning, and streamline diagnostics. By providing consolidated controller programming and device system configuration, operation and maintenance in a single software environment – Studio 5000 Logix Designer – Premier Integration helps reduce complication and errors.

- A single software solution using intuitive programming provides a common user experience
- Software interface streamlines device set up
- Easy access to system and machine level data as well as diagnostic information
- Configuration is centralized in Studio 5000 software for both the controllers and the drives
- Helps simplify configuration of multiple drives
- PowerFlex 520-Series AC drives use Premier Integration to help reduce development time and simplify system operation and diagnostics. The PowerFlex 527 drive enhances the user experience by utilizing the motion instruction set in the Studio 5000 Logix Designer application

Scalable, Information-enabled Programmable Automation Controllers

Maximize the potential of your automation system with the exclusive experience of Premier Integration – integrating PowerFlex drives and PACs in one environment to complete your architecture. The benefits of this time-saving experience range from reduced development time to simplified maintenance. Use PowerFlex 520-Series drives with the Logix PAC® that best meets your application needs.



CompactLogix™ controllers are ideal for small to mid-size applications and provide the benefits of Integrated Architecture® for lower-cost machines.

ControlLogix® systems use a common control engine with a common development environment to help achieve high-speed, high-performance, multi-disciplined application control in an easy-to-use environment.

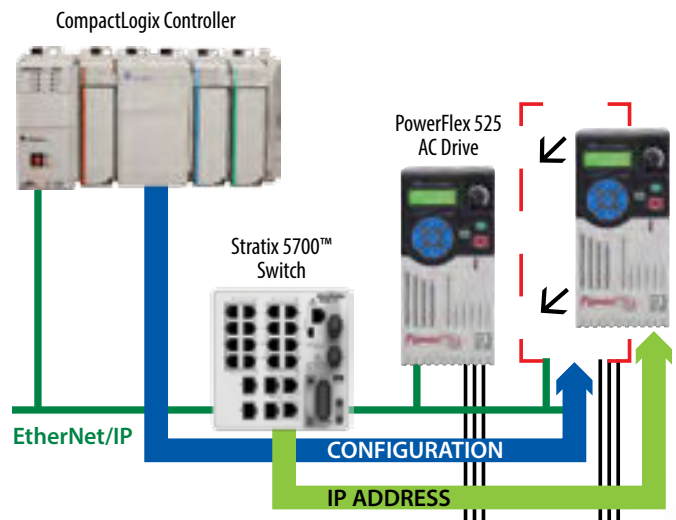


GuardLogix® Integrated Safety Systems provide the benefits of standard ControlLogix systems, plus safety features. When used with a GuardLogix PAC, the PowerFlex 527 AC drive offers the option of Integrated Safety via an EtherNet/IP network to help reduce wiring, hardware and the potential for failures.



Automatic Device Configuration

Automatic Device Configuration (ADC) allows Logix controllers to detect a replaced PowerFlex drive and download all configuration parameters automatically, minimizing the need for manual reconfiguration. This feature helps to enhance productivity by facilitating reduced downtime.



ADC is available with PowerFlex 520-Series and 750-Series drives.*

- PowerFlex 525 and 755 drives feature a built-in EtherNet/IP port to achieve ADC
- PowerFlex 527 drives feature drive configuration that is stored in the Logix controller, supporting fast, automatic device replacement
- Stratix 5700, 6000 and 8000 switches provide automatic IP address assignment

* PowerFlex 523 and 753 drives require a dual-port EtherNet/IP communication card for ADC.

Drive Configuration with Studio 5000 Logix Designer

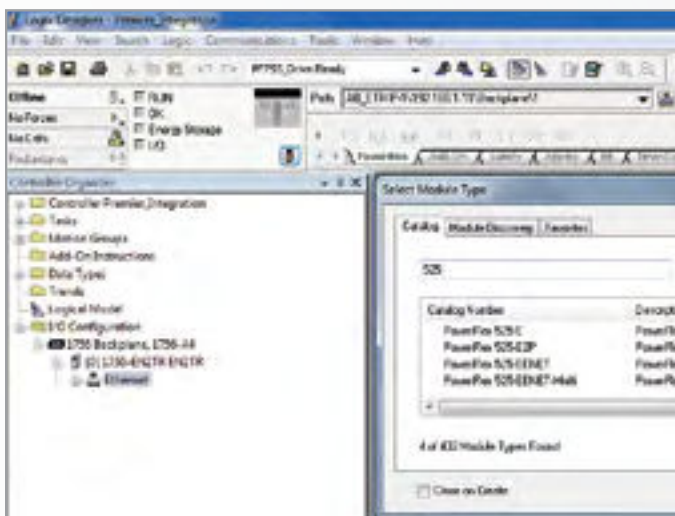
Simplify application development, use and maintenance

Studio 5000 software can help reduce programming time by automatically populating drive parameters in the controller memory as controller tags.

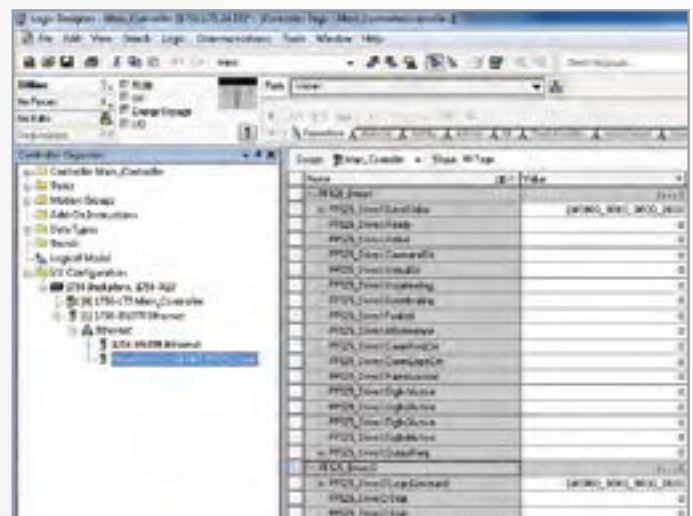
- Descriptive tag names are automatically generated
- Address mismatch errors can be eliminated
- Copy and paste function makes duplicating drives fast and easy
- Advanced graphical wizards walk you through drive configuration

When functioning as part of the Rockwell Automation Integrated Architecture, PowerFlex 520-Series drives can do much more than just respond to interlocking commands.

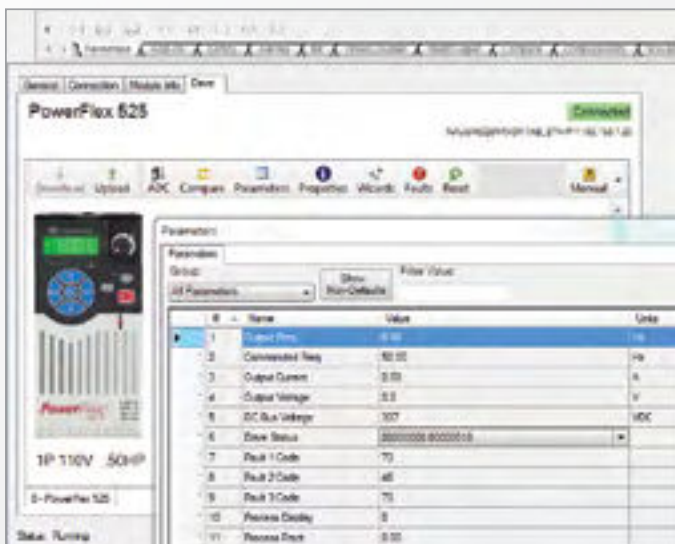
- Predict mechanical problems and help improve performance with diagnostics and real-time data
- Monitor performance either locally or remotely to make informed decisions about your assets
- Automatic Device Configuration downloads configuration parameters to a replaced drive, helping reduce downtime



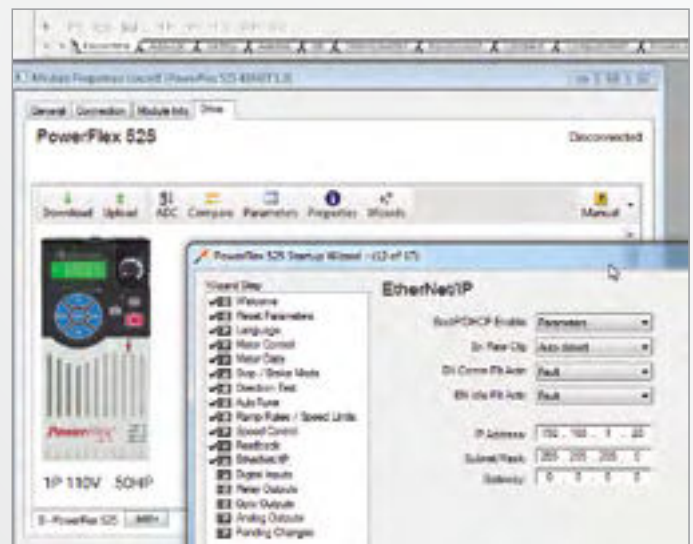
Quickly integrate PowerFlex 520-series AC drives into the Logix environment.



Controller tags with descriptive names are automatically generated to help minimize the need to enter individual tag descriptions.



The Logix interface allows the dynamic selection of drive parameters.



Streamline drive configuration with wizards in the Studio 5000 Logix Designer application.

Drive Programming with Studio 5000 Logix Designer Motion Instructions

When you think about it, the concept makes complete sense. A variable frequency drive that is configured and programmed like a servo drive. The benefits seem obvious. You can reduce complexity and save valuable engineering time by using a single software package with common instructions for both types of drives. And that's just the beginning. Because the PowerFlex 527 AC drive was designed to work exclusively with Studio 5000 software and Logix Programmable Automation Controllers, the drive is able to leverage the benefits of our Logix controller capabilities and perform as a natural extension of the controller. The result is a solution that helps you achieve enhanced motor coordination.

This level of integration provides exclusive application resources that offer additional time-saving features and performance enhancements.

- PowerFlex 527* AC drives are configured and programmed the same way as Kinetix servo drives, streamlining machine design
- The use of motion instructions allows code reuse which helps make machine design more efficient
- Powerful diagnostics, including time stamped events, provide precise drive information to help you quickly identify and resolve problems

** The PowerFlex 755 drives are also able to use motion instructions in the Studio 5000 Logix Designer application.*

- Machine safety is configured in the safety task of the Studio 5000 Logix Designer application. Safety connections are made on the EtherNet/IP network, and no additional wiring is required
- Synchronization – from very simple electronic gearing to electronic camming – can be accomplished using just a few instructions. This synchronization can be accomplished over the network without the need for any additional hardware devices
- Inherent automatic device replacement is a time-saving benefit of the PowerFlex 527 drive. The Logix controller maintains every aspect of the drive's parameters, and resets them each time it connects to the drive. This creates inherent device replacement to help minimize machine downtime

Single Solutions Delivered by CIP Technology

The PowerFlex 527 AC drive uses high performance technologies based on the Common Industrial Protocol (CIP™). CIP Safety™, CIP Sync™ and CIP Motion™ use EtherNet/IP to help provide a simplified method of integrating networks for safety, synchronization and motion into an enterprise-wide network.

CIP Safety – Allows you to mix safety devices and standard devices on the same network to help improve flexibility. It provides excellent reliability for communication between devices within a safety application.

CIP Sync – Provides the control coordination needed for applications where real-time synchronization between devices is important. It allows a high level of synchronization accuracy.

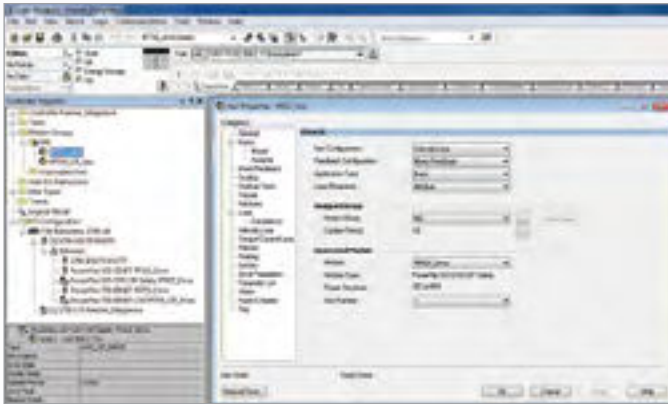
CIP Motion – Eliminates the need for a motion-specific network by allowing high performance motion control products and other devices to share a single EtherNet/IP network. It is capable of achieving high performance real-time deterministic behavior for multiple axes through a common sense of time.



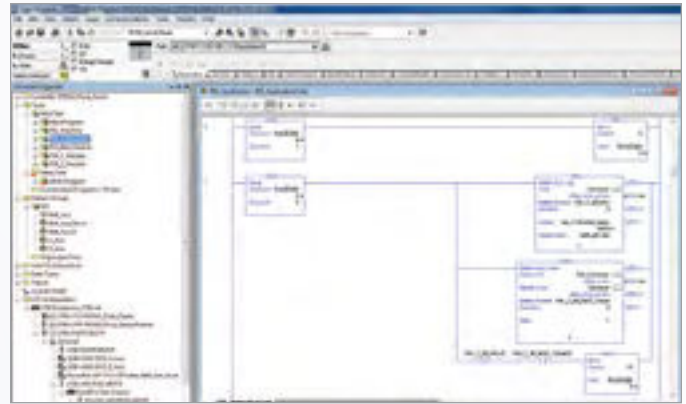
For applications that require both simple speed control as well as precise motor functionality, a combination of AC and servo drives is the logical solution. The PowerFlex 527 AC drive manages the simple speed control while a Kinetix servo drive handles the more precise motor control operations involving speed, torque and position control.

Motion Instructions Simplify Drive Programming

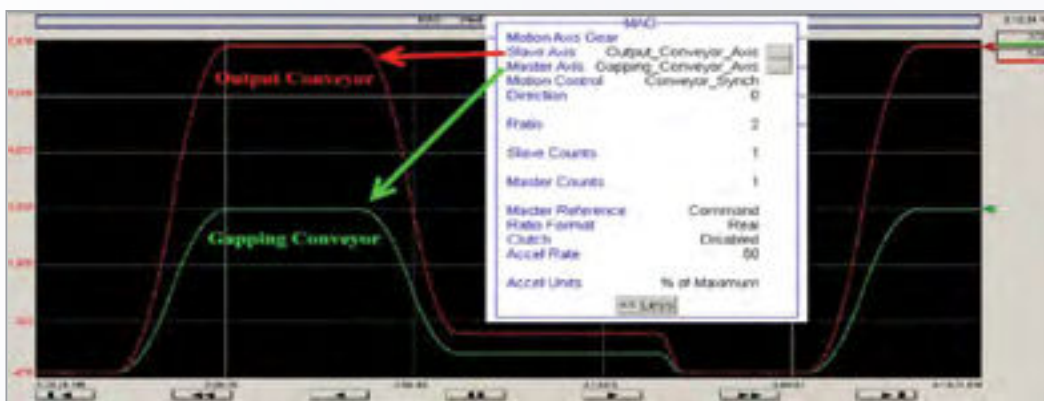
The PowerFlex 527 AC drive and Kinetix servo drives share a single software tool, Studio 5000 Logix Designer, and one programming methodology based on the motion instruction set, so you can gain the time-saving benefits of using common configuration and programming environments. This also helps simplify any maintenance work that may later need to be done.



The PowerFlex 527 AC drive is configured as an axis of the machine using motions instructions within the Studio 5000 Logix Designer application. The configuration is stored in the Logix PAC.



The PowerFlex 527 AC drive uses the same motion instruction set within Studio 5000 as Kinetix servo drives. The common user experience helps to simplify drive programming.



Easy-to-use motion instructions can synchronize two objects without the need for a large number of sensors, complicated mathematics or complex logic.

[illegible]

High quality diagnostic information is available through the generation of output instructions for each motor (axis). The instructions have built-in diagnostics including status of instruction execution and error codes.

[illegible]

The ability to time stamp an input is crucial for data logging and regulatory compliance. With the use of motion instructions in the Studio 5000 Logix Designer application, fault and diagnostic information is easily made available in the software, with no additional configuration or messaging required.

Safety Solutions that Help Improve Productivity

Protecting personnel and assets is a crucial concern for automation systems. Fortunately, implementing safety solutions doesn't mean that you have to sacrifice productivity. The PowerFlex 525 and 527 provide standard safety features designed to not only help protect people and equipment but also enable increased machine uptime.

The PowerFlex 525 and 527 drives both offer Safe Torque-off functionality to help address safety concerns. Safe Torque-off removes rotational power from the motor without powering down the drive when a safety circuit is triggered. This offers the benefit of quick start-up after a demand on the safety system and helps reduce wear from repetitive start-up.

- Helps protect your personnel and assets
- Quick start-up after a demand on the safety system
- Embedded safety helps reduce wiring and saves on installation space – no contactors and fewer opportunities for installation error

PowerFlex 525 Drive with built-in Safe Torque-off

The PowerFlex 525 provides Safe Torque-off functionality as a hardwired feature. This type of built-in safety can help lower your total system costs, boost machine availability and reduce downtime. Rated SIL 2 / PLd Cat 3.

PowerFlex 527 offers a choice for Safe Torque-off Implementation

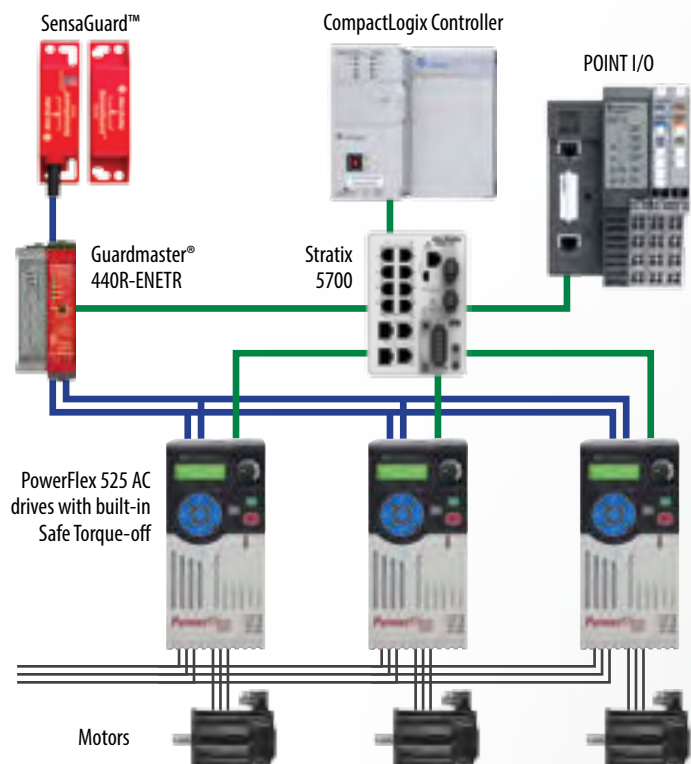
The PowerFlex 527 AC drive provides you with the flexibility to select the way you want to implement a safety solution for your application. The PowerFlex 527 offers the same hardwired, built-in Safe Torque-off functionality as the PowerFlex 525 drive. But it also offers the option of Integrated Safety, a controller based safety function that is configured within Studio 5000 Logix Designer software to provide the Safe Torque-off function. This method uses EtherNet/IP to communicate safety information and remove the need for discrete safety wiring to the drive.

Safe Torque-off

The PowerFlex 525 and 527 drives both offer Safe Torque-off functionality to help address safety concerns. Safe Torque-off removes rotational power from the motor without powering down the drive when a safety circuit is triggered. This offers the benefit of quick start-up after a demand on the safety system and helps reduce wear from repetitive start-up.

- The PowerFlex 525 and 527 drives both offer hardwired safety to help protect your personnel and assets. Built-in safety also helps to reduce wiring and save on installation space
- PowerFlex 525 - SIL 2 / PLd Cat 3
- PowerFlex 527 - SIL 3 / PLe Cat 3

Hardwired Safety Solution

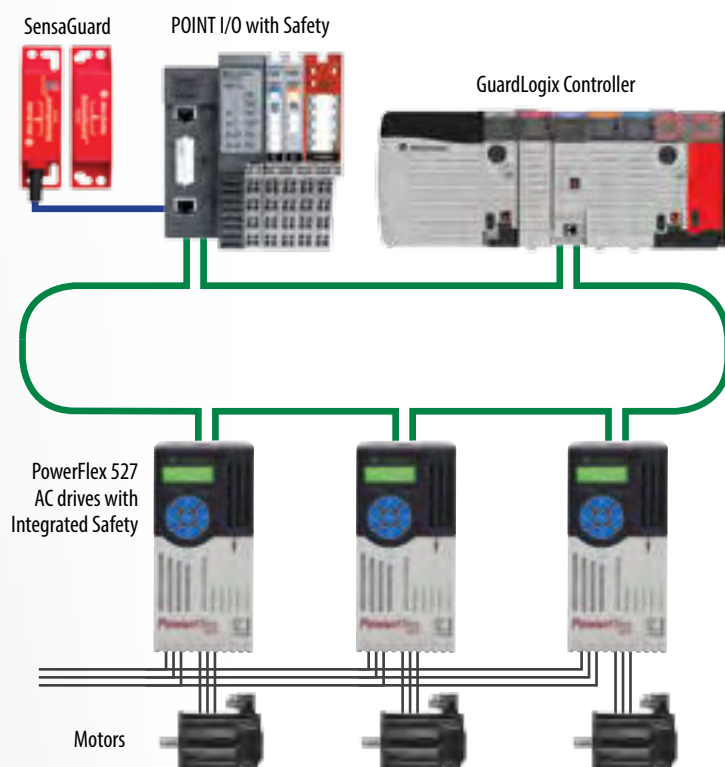


Integrated Safety Helps Streamline Machine Design

The ability to integrate the safety functions of a control system with non-safety functions provides machine builders with a variety of benefits, including the opportunity to minimize equipment redundancies and improve productivity. The PowerFlex 527 is the first Allen-Bradley AC drive to offer Integrated Safety.

- Use of an Allen-Bradley GuardLogix Safety Controller removes the need for a separate safety controller
- Use of a single programming software package helps eliminate the need to write and coordinate multiple programs on different controllers, which in turn, helps to simplify application programming and help reduce training and support costs
- Use of a single development environment helps reduce expensive redevelopment. If a machine needs to be scaled – from one line to three, for example – it can be as easy as porting the necessary application from one to the next
- Fewer components mean smaller panel enclosures, saving money on control cabinets and floor space
- The integration of the safety and standard control systems provides operators and maintenance personnel with visibility to all machine events – including safety events. This enables a quick response that allows the machine to return to full production
- Safety and non-safety functions share the same EtherNet/IP network
- Helps reduce the need to install expensive and difficult-to-maintain gateways between each network
- With a single software program managing both safety and standard functions, engineers no longer need to manually manage the separation of standard and safety memory or work on partitioning logic to isolate safety
- More safety tags are seen in controller
 - Safe off condition
 - Safety fault condition
 - Connection status
 - Reset Requirement
- The PowerFlex 527 drive is the only member of the PowerFlex 520-Series that offers Integrated Safety

PowerFlex 527 Integrated Safety Solution



Zone Control

In the past, a safety event in one section of a machine could result in the entire machine shutting down because the standard system had limited knowledge of the safety event. But Integrated Safety allows the control and safety systems to coexist on the same network and to share data between the safety and standard applications. This allows “zone control” where one zone of the machine is brought to a safe state while other zones continue to operate.

- Using an Integrated Safety solution, drives and their respective motors are grouped together into zones. All zoning is done completely in the controller – compared with a hardwired solution in which drives have safety inputs daisy chained together
- Modifications to your application are simplified which helps to save you both time and money



Technical Specifications

PowerFlex 527 AC Drives		
Power Ratings	100 - 120V: 0.4...1.1 kW / 0.5...1.5 Hp 380 - 480V: 0.4...22 kW / 0.5...30 Hp	200 - 240V: 0.4...15 kW / 0.5...20 Hp 525 - 600V: 0.4...22 kW / 0.5...30 Hp
Motor Control	Volts per hertz Sensorless vector control Closed loop velocity vector control	Sensorless vector control with Economizer
Application	Open loop speed regulation	Closed loop speed regulation
Overload Capability	Normal duty application: 110% for 60 seconds, 150% for 3 sec (For 20 Hp & above) Heavy duty application: 150% for 60 seconds, 180% for 3 sec (200% - 3 secs programmable)	
Input Specifications	1 phase voltage: 100...120V / 200...240V Voltage: adjustable 0V to rated motor voltage; -15% / +10% voltage tolerance 3 phase voltage: 200...240V / 380...480V / 525...600V frequency: 50 to 60 Hz Logic control ride through: >0.5 seconds, 2 seconds typical 1/2 DC bus operation (selectable) Maximum short circuit rating: 100,000 amps symmetrical	
Output Voltage Range	Adjustable 0V to rated motor voltage	Intermittent current: 150% for 60 seconds
Frequency Range	Max output frequency 590 Hz	Input frequency variation 47 to 63 Hz
Ambient Operating Temperatures**	IP20: -20°C to 50°C (-4°F to 122°F) IP20 Zero Stacking: -20°C** to 45°C (-4°F to 113°F) IP20: -20°C to 70°C (-4°F to 158°F) with current derating and optional control module fan kit	
Altitude	1000 m (3,280 ft) with derating guideline for up to max 4000 m (13,123 ft), with the exception of 600V at max 2000 m (6,561 ft)	
Enclosures	IP20 NEMA/Open	IP30 NEMA/UL Type 1 (with conduit kit)
Mounting	DIN rail (frames A,B and C) Zero Stacking For horizontal mounting options and temperatures, please refer to the user manual (520-UM001)	50 mm (1.96 in) air-flow gap at the top and bottom. (Frame E at 60°C to 70°C requires 95 mm (3.74 in) air-flow gap at the top of the drive and a control module fan kit)
Configuration	Studio 5000 Logix Designer application	
Human Interface Module (HIM) Languages	English, French, Spanish, Italian, German, Portuguese, Polish, Turkish, Czech	
Control I/O	4 digital inputs (24V DC, 3 programmable) 2 analog inputs (1 bipolar voltage, 1 current) 2 digital outputs	1 analog output (1 unipolar voltage or current) 2 relays (1 form A relay & 1 form B relay; 24V DC, 120V AC, 240V AC)
Dynamic Braking	7th IGBT braking, DC braking	
Carrier Frequency	2-8 kHz with 4 kHz default	
EMC Filtering	Embedded 1 ph 240V and 3 ph 480V. Available as an external option for all voltages	
Safety	Built-in Hardwired Safe Torque-off, SIL3, PLe, Cat 3. (ISO 13849-1) Built-in Integrated Safety SIL3, PLe, Cat 3. (ISO 13849-1)	
Communications	Built-in Dual-port EtherNet/IP	
Feedback Types	Line driver type encoder quadrature (dual channel) or single channel - Single ended or differential (A, B, Z channel) Duty cycle of 50%, +10% (Z channel with marker pulse) Pulse-train input (1 to 100k Hz) - Configurable input voltage: 5V DC (±10%); 10-12V DC (±10%), or 24V DC (±15%) Allowance pulse frequency - DC to 250 kHz Frequency controlled PWM allowable pulse frequency - Line Driver Type Encoder Quadrature (dual channel) or Single Channel	
Protection	Fault history log in Studio 5000, FactoryTalk security	
Standards	UL RoHS	TUV ACS156
Control Features	EAC CE	
	Semi-F47 c-UL	
Accessories	ATEX RCM	
	Marine (Lloyds) KCC REACH	
Dimensions mm (in)	Frame A: 152 (5.98) H x 72 (2.83) W x 172 (6.77) D Frame B: 180 (7.08) H x 87 (3.42) W x 172 (6.77) D Frame C: 220 (8.66) H x 109 (4.29) W x 184 (7.24) D Frame D: 260 (10.23) H x 130 (5.11) W x 212 (8.34) D Frame E: 300 (11.81) H x 185 (7.28) W x 279 (10.98) D	

** These temperatures are for typical vertical drive mounting. For other mounting options and temperatures, please refer to the user manual (520-UM001).

PowerFlex 525 AC Drives

100 - 120V: 0.4...1.1 kW / 0.5...1.5 Hp 380 - 480V: 0.4...22 kW / 0.5...30 Hp	200 - 240V: 0.4...15 kW / 0.5...20 Hp 525 - 600V: 0.4...22 kW / 0.5...30 Hp
Volts per hertz Sensorless vector control Closed loop velocity vector control	Sensorless vector control with Economizer Permanent magnet motor control*
Open loop speed regulation	Closed loop speed regulation
Normal Duty Application: 110% - 60 secs, 150% - 3 secs (For 20 Hp & above) Heavy Duty Application: 150% - 60 secs, 180% - 3 secs (200% - 3 secs programmable)	
1 phase voltage: 100 ... 120V/200 ... 240V Voltage: adjustable 0V to rated motor voltage; -15% / +10% voltage tolerance 3 phase voltage: 200 ... 240V/380 ... 480V/525 ... 600V frequency: 50 to 60 Hz Logic control ride through: >0.5 seconds, 2 seconds typical 1/2 DC bus operation (selectable) Maximum short circuit rating: 100,000 amps symmetrical	
Adjustable 0V to rated motor voltage	Intermittent current: 150% for 60 seconds
Max output frequency 500 Hz	Input frequency variation 47 to 63 Hz
IP20: -20°C to 50°C (-4 to 122°F) IP20 Zero Stacking: -20°C** to 45°C (-4 to 113°F) IP20: -20°C to 60°C (140°F), with current derating IP20: -20°C to 70°C: (158°F) with current derating and optional control module fan kit	
1000 m (3,280 ft) with derating guideline for up to max 4000 m (13,123 ft), with the exception of 600V at max 2000 m (6,561 ft)	
IP20 NEMA/Open	IP30 NEMA/UL Type 1 (with conduit kit)
DIN rail (frames A,B and C) Zero Stacking For horizontal mounting options and temperatures, please refer to the user manual (520-UM001)	50 mm (1.96 in) air-flow gap at the top and bottom. (Frame E at 60°C to 70°C requires 95 mm (3.74 in) air-flow gap at the top of the drive and a control module fan kit)
Integral HIM Remote Keypad Connected Components Workbench software	MainsFree Programming via USB Application specific parameter group AppView and CustomView™ Studio 5000 Logix Designer application
English, French, Spanish, Italian, German, Portuguese, Polish, Turkish, Czech	
7 digital inputs (24V DC, 6 programmable) 2 analog inputs (1 bipolar voltage, 1 current) 2 digital outputs	1 analog output (1 unipolar voltage or current) 2 relays (1 form A relay & 1 form B relay; 24V DC, 120V AC, 240V AC)
7th IGBT braking, DC braking	
2 to 16 kHz. 4 kHz default (2 to 8 kHz for closed loop velocity vector control)	
Embedded 1 ph 240V and 3 ph 480V. Available as an external option for all voltages	
Embedded ISO 13849-1 SIL2/PLd Cat 3 Safe Torque-off	
Integral RS485 with Modbus RTU/DSI Embedded EtherNet/IP port Dual-port EtherNet/IP option card	DeviceNet option card PROFIBUS® DP option card
Line driver type encoder quadrature (dual channel) or single channel - Single ended or differential (A, B channel); Duty cycle of 50%, +10% Pulse-train input (1 to 100kHz) - Configurable input voltage: 5VDC (±10%); 10-12VDC (±10%), or 24V DC (±15%) Allowance pulse frequency - DC to 250 kHz Frequency controlled PWM allowable pulse frequency	
Fault history log, password-lock security	
UL RoHS	TUV ACS156
EAC CE	Semi-F47 c-UL
ATEX RCM	Marine (Lloyds) KCC
	REACH
Flying start V/F ratio Bus regulator Process PID Common DC bus StepLogic® functions (relays and timers) Fiber application specific features PTC input compatible	Position control Regulation with encoder feedback or analog input 1/2 DC bus operation 8 datalinks (4 in and 4 out) Mutli-drive connectivity 16 preset speeds PointStop™ function
70°C (158°F) control module fan kit (requires external power, except frame E) NEMA/UL Type 1 kits EMC plates	EMC line filters Line reactors Dynamic brake resistors Mounting Adaptor Plate for Bulletin 160 drive
Frame A: 152 (5.98) H x 72 (2.83) W x 172 (6.77) D Frame B: 180 (7.08) H x 87 (3.42) W x 172 (6.77) D Frame C: 220 (8.66) H x 109 (4.29) W x 184 (7.24) D Frame D: 260 (10.23) H x 130 (5.11) W x 212 (8.34) D Frame E: 300 (11.81) H x 185 (7.28) W x 279 (10.98) D	

* Permanent magnet motor control is scheduled for a future firmware release.

PowerFlex 523 AC Drives

100 - 120V: 0.2...1.1 kW / 0.25...1.5 Hp 380 - 480V: 0.4...22 kW / 0.5...30 Hp	200 - 240V: 0.2...15 kW / 0.25...20 Hp 525 - 600V: 0.4...22 kW / 0.5...30 Hp
Volts per hertz Sensorless vector control	Sensorless vector control with Economizer
Open loop speed regulation	
Normal Duty Application: 110% - 60 secs, 150% - 3 secs (For 20 Hp & above) Heavy Duty Application: 150% - 60 secs, 180% - 3 secs (200% - 3 secs programmable)	
1 phase voltage: 100 ... 120V/200 ... 240V Voltage: adjustable 0V to rated motor voltage; -15% / +10% voltage tolerance 3 phase voltage: 200 ... 240V/380 ... 480V/525 ... 600V frequency: 50 to 60 Hz Logic control ride through: >0.5 seconds, 2 seconds typical 1/2 DC bus operation (selectable) Maximum short circuit rating: 100,000 amps symmetrical	
Adjustable 0V to rated motor voltage	Intermittent current: 150% for 60 seconds
Max output frequency 500 Hz	Input frequency variation 47 to 63 Hz
IP20: -20°C to 50°C (-4 to 122°F) IP20 Zero Stacking: -20°C** to 45°C (-4 to 113°F) IP20: -20°C to 60°C (140°F), with current derating IP20: -20°C to 70°C: (158°F) with current derating and optional control module fan kit	
1000 m (3,280 ft) with derating guideline for up to max 4000 m (13,123 ft), with the exception of 600V at max 2000 m (6,561 ft)	
IP20 NEMA/Open	IP30 NEMA/UL Type 1 (with conduit kit)
DIN rail (frames A,B and C) Zero Stacking For horizontal mounting options and temperatures, please refer to the user manual (520-UM001)	50 mm (1.96 in) air-flow gap at the top and bottom. (Frame E at 60°C to 70°C requires 95mm (3.74 in) air-flow gap at the top of the drive and a control module fan kit)
Integral HIM Remote Keypad Connected Components Workbench software	MainsFree Programming via USB Application specific parameter group AppView and CustomView Studio 5000 Logix Designer application
English, French, Spanish, Italian, German, Portuguese, Polish, Turkish, Czech	
5 digital inputs (24V DC, 4 programmable) 1 analog input (unipolar voltage or current) 1 relay (form C)	
7th IGBT braking, DC braking	
2 to 16 kHz. 4 kHz default	
Embedded 1 ph 240V and 3 ph 480V. Available as an external option for all voltages	
None	
Integral RS485 with Modbus RTU/DSI Dual-port EtherNet/IP option card	DeviceNet option card PROFIBUS DP option card
None	
Fault history log, password-lock security	
UL RCM	EAC KCC
	RoHS Semi-F47
	ACS156 REACH
	CE
	c-UL
Flying start V/F ratio Bus regulator Process PID Common DC bus Fiber application specific features	PTC input compatible 1/2 DC bus operation 8 datalinks (4 in and 4 out, requires communication option card) Mutli-drive connectivity (requires communication option card) 8 preset speeds
70°C (158°F) control module fan kit (requires external power, except frame E) NEMA/UL Type 1 kits EMC plates	EMC line filters Line reactors Dynamic brake resistors Mounting Adaptor Plate for Bulletin 160 drive
Frame A: 152 (5.98) H x 72 (2.83) W x 172 (6.77) D Frame B: 180 (7.08) H x 87 (3.42) W x 172 (6.77) D Frame C: 220 (8.66) H x 109 (4.29) W x 184 (7.24) D Frame D: 260 (10.23) H x 130 (5.11) W x 212 (8.34) D Frame E: 300 (11.81) H x 185 (7.28) W x 279 (10.98) D	

PowerFlex 527 AC Drives

50/60Hz 100-120V, 10 No Filter	Normal Duty (ND)		Heavy Duty (HD)		Output Current	Catalog No.	Frame Size
	Hp	kW	Hp	kW			
	0.5	0.4	0.5	0.4	2.5A	25C-V2P5N104	A
	1	0.75	1	0.75	4.8A	25C-V4P8N104	B
	1.5	1.1	1.5	1.1	6.0A	25C-V6P0N104	B
200-240V, 10 No Filter	0.5	0.4	0.5	0.4	2.5A	25C-A2P5N104	A
	1	0.75	1	0.75	4.8A	25C-A4P8N104	A
	2	1.5	2	1.5	8.0A	25C-A8P0N104	B
	3	2.2	3	2.2	11.0A	25C-A011N104	B
200-240V, 10 EMC Filter	0.5	0.4	0.5	0.4	2.5A	25C-A2P5N114	A
	1	0.75	1	0.75	4.8A	25C-A4P8N114	A
	2	1.5	2	1.5	8.0A	25C-A8P0N114	B
	3	2.2	3	2.2	11.0A	25C-A011N114	B
200-240V, 30 No Filter	0.5	0.4	0.5	0.4	2.5A	25C-B2P5N104	A
	1	0.75	1	0.75	5.0A	25C-B5P0N104	A
	2	1.5	2	1.5	8.0A	25C-B8P0N104	A
	3	2.2	3	2.2	11.0A	25C-B011N104	A
	5	4	5	4	17.5A	25C-B017N104	B
	7.5	5.5	7.5	5.5	24.0A	25C-B024N104	C
	10	7.5	10	7.5	32.2A	25C-B032N104	D
	15	11	15	11	48.3A	25C-B048N104	E
	20	15	15	11	62.1A	25C-B062N104	E
380-480V, 30 No Filter	0.5	0.4	0.5	0.4	1.4A	25C-D1P4N104	A
	1	0.75	1	0.75	2.3A	25C-D2P3N104	A
	2	1.5	2	1.5	4.0A	25C-D4P0N104	A
	3	2.2	3	2.2	6.0A	25C-D6P0N104	A
	5	4	5	4	10.5A	25C-D010N104	B
	7.5	5.5	7.5	5.5	13.0A	25C-D013N104	C
	10	7.5	10	7.5	17.0A	25C-D017N104	C
	15	11	15	11	24A	25C-D024N104	D
	20	15	15	11	30A	25C-D030N104	D
	25	18.5	20	15	37A	25C-D037N114*	E
	30	22	25	18.5	43A	25C-D043N114*	E
380-480V, 30 EMC Filter	0.5	0.4	0.5	0.4	1.4A	25C-D1P4N114	A
	1	0.75	1	0.75	2.3A	25C-D2P3N114	A
	2	1.5	2	1.5	4.0A	25C-D4P0N114	A
	3	2.2	3	2.2	6.0A	25C-D6P0N114	A
	5	4	5	4	10.5A	25C-D010N114	B
	7.5	5.5	7.5	5.5	13.0A	25C-D013N114	C
	10	7.5	10	7.5	17.0A	25C-D017N114	C
	15	11	15	11	24A	25C-D024N114	D
	20	15	15	11	30A	25C-D030N114	D
	25	18.5	20	15	37A	25C-D037N114	E
	30	22	25	18.5	43A	25C-D043N114	E
525- 600V, 30 No Filter	0.5	0.4	0.5	0.4	0.9A	25C-E0P9N104	A
	1	0.75	1	0.75	1.7A	25C-E1P7N104	A
	2	1.5	2	1.5	3.0A	25C-E3P0N104	A
	3	2.2	3	2.2	4.2A	25C-E4P2N104	A
	5	4	5	4	6.6A	25C-E6P6N104	B
	7.5	5.5	7.5	5.5	9.9A	25C-E9P9N104	C
	10	7.5	10	7.5	12.0A	25C-E012N104	C
	15	11	15	11	19.0A	25C-E019N104	D
	20	15	15	11	22.0A	25C-E022N104	D
	25	18.5	20	15	27.0A	25C-E027N104	E
	30	22	25	18.5	32.0A	25C-E032N104	E

*With EMC filter

PowerFlex 525 AC Drives

50/60Hz 100-120V, 10 No Filter	Normal Duty (ND)		Heavy Duty (HD)		Output Current	Catalog No.	Frame Size
	Hp	kW	Hp	kW			
	0.5	0.4	0.5	0.4	2.5A	25B-V2P5N104	A
	1	0.75	1	0.75	4.8A	25B-V4P8N104	B
	1.5	1.1	1.5	1.1	6.0A	25B-V6P0N104	B
200-240V, 10 No Filter	0.5	0.4	0.5	0.4	2.5A	25B-A2P5N104	A
	1	0.75	1	0.75	4.8A	25B-A4P8N104	A
	2	1.5	2	1.5	8.0A	25B-A8P0N104	B
	3	2.2	3	2.2	11.0A	25B-A011N104	B
200-240V, 10 EMC Filter	0.5	0.4	0.5	0.4	2.5A	25B-A2P5N114	A
	1	0.75	1	0.75	4.8A	25B-A4P8N114	A
	2	1.5	2	1.5	8.0A	25B-A8P0N114	B
	3	2.2	3	2.2	11.0A	25B-A011N114	B
200-240V, 30 No Filter	0.5	0.4	0.5	0.4	2.5A	25B-B2P5N104	A
	1	0.75	1	0.75	5.0A	25B-B5P0N104	A
	2	1.5	2	1.5	8.0A	25B-B8P0N104	A
	3	2.2	3	2.2	11.0A	25B-B011N104	A
	5	4	5	4	17.5A	25B-B017N104	B
	7.5	5.5	7.5	5.5	24.0A	25B-B024N104	C
	10	7.5	10	7.5	32.2A	25B-B032N104	D
	15	11	15	11	48.3A	25B-B048N104	E
	20	15	15	11	62.1A	25B-B062N104	E
380-480V, 30 No Filter	0.5	0.4	0.5	0.4	1.4A	25B-D1P4N104	A
	1	0.75	1	0.75	2.3A	25B-D2P3N104	A
	2	1.5	2	1.5	4.0A	25B-D4P0N104	A
	3	2.2	3	2.2	6.0A	25B-D6P0N104	A
	5	4	5	4	10.5A	25B-D010N104	B
	7.5	5.5	7.5	5.5	13.0A	25B-D013N104	C
	10	7.5	10	7.5	17.0A	25B-D017N104	C
	15	11	15	11	24A	25B-D024N104	D
	20	15	15	11	30A	25B-D030N104	D
	25	18.5	20	15	37A	25B-D037N114*	E
	30	22	25	18.5	43A	25B-D043N114*	E
380-480V, 30 EMC Filter	0.5	0.4	0.5	0.4	1.4A	25B-D1P4N114	A
	1	0.75	1	0.75	2.3A	25B-D2P3N114	A
	2	1.5	2	1.5	4.0A	25B-D4P0N114	A
	3	2.2	3	2.2	6.0A	25B-D6P0N114	A
	5	4	5	4	10.5A	25B-D010N114	B
	7.5	5.5	7.5	5.5	13.0A	25B-D013N114	C
	10	7.5	10	7.5	17.0A	25B-D017N114	C
	15	11	15	11	24A	25B-D024N114	D
	20	15	15	11	30A	25B-D030N114	D
	25	18.5	20	15	37A	25B-D037N114	E
	30	22	25	18.5	43A	25B-D043N114	E
525- 600V, 30 No Filter	0.5	0.4	0.5	0.4	0.9A	25B-E0P9N104	A
	1	0.75	1	0.75	1.7A	25B-E1P7N104	A
	2	1.5	2	1.5	3.0A	25B-E3P0N104	A
	3	2.2	3	2.2	4.2A	25B-E4P2N104	A
	5	4	5	4	6.6A	25B-E6P6N104	B
	7.5	5.5	7.5	5.5	9.9A	25B-E9P9N104	C
	10	7.5	10	7.5	12.0A	25B-E012N104	C
	15	11	15	11	19.0A	25B-E019N104	D
	20	15	15	11	22.0A	25B-E022N104	D
	25	18.5	20	15	27.0A	25B-E027N104	E
	30	22	25	18.5	32.0A	25B-E032N104	E

*With EMC filter

PowerFlex 523 AC Drives

50/60Hz	Normal Duty (ND)		Heavy Duty (HD)		Output Current	Catalog No.	Frame Size
	Hp	kW	Hp	kW			
	0.25	0.2	0.25	0.2			
100-120V, 10 No Filter	0.5	0.4	0.5	0.4	2.5A	25A-V2P5N104	A
	1	0.75	1	0.75	4.8A	25A-V4P8N104	B
	1.5	1.1	1.5	1.1	6.0A	25A-V6P0N104	B
200-240V, 10 No Filter	0.25	0.2	0.25	0.2	1.6A	25A-A1P6N104	A
	0.5	0.4	0.5	0.4	2.5A	25A-A2P5N104	A
	1	0.75	1	0.75	4.8A	25A-A4P8N104	A
	2	1.5	2	1.5	8.0A	25A-A8P0N104	B
	3	2.2	3	2.2	11.0A	25A-A011N104	B
200-240V, 10 EMC Filter	0.25	0.2	0.25	0.2	1.6A	25A-A1P6N114	A
	0.5	0.4	0.5	0.4	2.5A	25A-A2P5N114	A
	1	0.75	1	0.75	4.8A	25A-A4P8N114	A
	2	1.5	2	1.5	8.0A	25A-A8P0N114	B
	3	2.2	3	2.2	11.0A	25A-A011N114	B
200-240V, 30 No Filter	0.25	0.2	0.25	0.2	1.6A	25A-B1P6N104	A
	0.5	0.4	0.5	0.4	2.5A	25A-B2P5N104	A
	1	0.75	1	0.75	5.0A	25A-B5P0N104	A
	2	1.5	2	1.5	8.0A	25A-B8P0N104	A
	3	2.2	3	2.2	11.0A	25A-B011N104	A
	5	4	5	4	17.5A	25A-B017N104	B
	7	5.5	7.5	5.5	24.0A	25A-B024N104	C
	10	7.5	10	7.5	32.2A	25A-B032N104	D
	15	11	15	11	48.3A	25A-B048N104	E
	20	15	15	11	62.1A	25A-B062N104	E
380-480V, 30 No Filter	0.5	0.4	0.5	0.4	1.4A	25A-D1P4N104	A
	1	0.75	1	0.75	2.3A	25A-D2P3N104	A
	2	1.5	2	1.5	4.0A	25A-D4P0N104	A
	3	2.2	3	2.2	6.0A	25A-D6P0N104	A
	5	4	5	4	10.5A	25A-D010N104	B
	7.5	5.5	7.5	5.5	13.0A	25A-D013N104	C
	10	7.5	10	7.5	17.0A	25A-D017N104	C
	15	11	15	11	24A	25A-D024N104	D
	20	15	15	11	30A	25A-D030N104	D
	25	18.5	20	15	37A	25A-D037N114*	E
	30	22	25	18.5	43A	25A-D043N114*	E
380-480V, 30 EMC Filter	0.5	0.4	0.5	0.4	1.4A	25A-D1P4N114	A
	1	0.75	1	0.75	2.3A	25A-D2P3N114	A
	2	1.5	2	1.5	4.0A	25A-D4P0N114	A
	3	2.2	3	2.2	6.0A	25A-D6P0N114	A
	5	4	5	4	10.5A	25A-D010N114	B
	7.5	5.5	7.5	5.5	13.0A	25A-D013N114	C
	10	7.5	10	7.5	17.0A	25A-D017N114	C
	15	11	15	11	24A	25A-D024N114	D
	20	15	15	11	30A	25A-D030N114	D
	25	18.5	20	15	37A	25A-D037N114	E
	30	22	25	18.5	43A	25A-D043N114	E
525- 600V, 30 No Filter	0.5	0.4	0.5	0.4	0.9A	25A-E0P9N104	A
	1	0.75	1	0.75	1.7A	25A-E1P7N104	A
	2	1.5	2	1.5	3.0A	25A-E3P0N104	A
	3	2.2	3	2.2	4.2A	25A-E4P2N104	A
	5	4	5	4	6.6A	25A-E6P6N104	B
	7.5	5.5	7.5	5.5	9.9A	25A-E9P9N104	C
	10	7.5	10	7.5	12.0A	25A-E012N104	C
	15	11	15	11	19.0A	25A-E019N104	D
	20	15	15	11	22A	25A-E022N104	D
	25	18.5	20	15	27A	25A-E027N104	E
	30	22	25	18.5	32A	25A-E032N104	E

*With EMC filter

PowerFlex 520-Series AC Drives

Maximize System Performance

Control

PowerFlex 523 AC Drive

- Volts per Hertz
- Sensorless Vector Control

PowerFlex 525 AC Drive

- Volts per Hertz
- Sensorless Vector Control
- Closed Loop Velocity Vector Control
- Permanent Magnet Motor Control*

PowerFlex 527 AC Drive

- Volts per Hertz
- Sensorless Vector Control
- Closed Loop Velocity Vector Control

Position Control

PowerFlex 525 AC Drive

- PointStop positioning control stops motor load in a consistent position without encoder feedback
- Closed loop feedback with an optional encoder card
- Point-to-point positioning mode

Communications

- Built-in EtherNet/IP for PowerFlex 525 and 527 AC drives

PowerFlex 523 and 525 AC Drive

- Embedded DSI port
- Dual-port EtherNet/IP option card
- DeviceNet and PROFIBUS option cards

Energy Savings

- Economizer mode in SVC adjusts current output to help reduce energy costs
- Energy data monitoring and reporting capability
- Permanent magnet motor control* for PowerFlex 525 and 527 AC drives

* Permanent magnet motor control is scheduled for a future firmware release.

Hardware

- Modular design with removable control modules
- Same control module for the entire power range
- Addition of option cards does not affect footprint of the drive
- Vertical, side-by-side mounting to reduce panel space
- Flexible, time-saving installation using DIN rail mounting with A, B and C frame drives
- Horizontal mounting with a control module fan kit
- Ambient operating temperatures from -20°C (-4°F) up to 70°C (158°F) with current derating and a control module fan kit
- IP20 NEMA/Open, IP30 NEMA/UL Type 1 (with conduit kit)
- EMC filtering embedded at 200V and 400V; optional EMC filtering available for all voltages
- Conformal coating to IEC 60721 3C2 standards over the circuitry helps improve the drives' robustness (chemicals and gasses only)

Programming and Commissioning

PowerFlex 523 and 525 AC Drives

- HIM supports multiple languages and features QuickView scrolling text
- Application specific parameter groups and customized application settings using AppView and CustomView tools
- Simplified configuration and MainsFree programming using standard USB cables
- Connected Components Workbench software for fast and easy drive configuration
- Premier Integration with the Logix control platform with the Studio 5000 Logix Designer application

PowerFlex 527 AC Drive

- Premier Integration with the Logix control platform with the Studio 5000 Logix Designer application
- Shares motion instructions in Studio 5000 Logix Designer with Kinetix servo drives to help simplify machine development
- Configure, program and reuse application profiles to help reduce engineering time and effort

Tools and Resources

A variety of tools and resources are available to help you select Allen-Bradley products and design application solutions using those products.

Drives and Motion Accelerator Toolkit uses a System Development Wizard to take system data entered by the designer and automatically generate files such as a custom bill of material, CAD drawings and logic code for the specific drive and PAC used in the application.

Integrated Architecture Builder provides an efficient way to design systems leveraging the Rockwell Automation Integrated Architecture

Refer to www.ab.com/go/iatools for additional resources and downloads.

Motion Analyzer software helps machine builders by making it faster and easier to analyze, optimize, and select motion and drive control systems. A cloud-based architecture and a wide range of tools and features help users find the right set of products for their application.

Energy Savings Calculators demonstrate how installing a PowerFlex drive for your fan or pump can help reduce energy costs when compared with traditional flow control methods. Download the tools at:

<http://www.rockwellenergycalc.com/>

Product shown is actual size, PowerFlex 527 AC drive Frame A



Rockwell Automation, Inc. (NYSE:ROK), the world's largest company dedicated to industrial automation, makes its customers more productive and the world more sustainable. Throughout the world, our flagship Allen-Bradley and Rockwell Software® product brands are recognized for innovation and excellence.



Allen-Bradley, AppView, ArmorBlock, CompactLogix, Connected Components Workbench, ControlLogix, CustomView, GuardLogix, Guardmaster, Integrated Architecture, Kinetix, LISTEN. THINK. SOLVE, Logix PAC, MainsFree, Micro800, PanelView, PointStop, PowerFlex, QuickView, Rockwell Software, SensaGuard, StepLogic, Stratix 5700, Studio 5000, Studio 5000 Logix Designer are trademarks of Rockwell Automation, Inc. CIP, CIP Motion, CIP Safety, CIP Sync, DeviceNet and EtherNet/IP are trademarks of the ODVA. Microsoft and Visual Studio are trademarks of Microsoft Corporation. PROFIBUS is a trademark of PROFIBUS & PROFINET International. Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846