



PowerFlex Low Voltage Drives

Powerful Performance. Flexible Control.



Allen-Bradley

by ROCKWELL AUTOMATION

Selection Guide

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TotalFORCE Technology Firmware Enhancements and Extensions

Revision 13.002 Firmware Release

Synchronous Reluctance Flux Vector Motor Control:

- Allows the drive to operate in synchronous reluctance flux vector mode
- Benefits of this motor control type include:
 - Provides precise speed and torque control with dynamic response
 - Improved energy efficiency and motor reliability

CIP Motion for PowerFlex 755T:

- This feature allows the drive to operate in CIP Motion mode
- Studio 5000 Logix Designer v36 and higher required
- Key features supported in CIP Motion mode:
 - Induction motors only
 - TotalFORCE technology including predictive maintenance, adaptive tuning, load observer, and bus observer (TL/TR/TM only)

IEC 62443-4-2 Cybersecurity Requirement for PowerFlex 755T:

- IEC 62443-4-2 is pending TÜV Rheinland approval upon release of firmware R13.002. TÜV Rheinland approval is expected by the end of 2024. Consult your local Rockwell Automation sales office or distributor to confirm TÜV Rheinland certification.

Additional Product Support:

- PowerFlex 755TR 6L
 - Liquid-cooled PowerFlex 755TR frame 6 drive (400/480V AC, 300 Hp, 361 A)
 - Direct replacement for the PowerFlex 700L frame 2 drive

Powerful Performance and Flexible Control

The Allen-Bradley® PowerFlex® family of AC and DC drives provide the benefits that matter most to you. Our focus on delivering a flexible portfolio designed to keep you connected to your operations and ultimately help improve productivity, helps you achieve the positive impact to be successful.

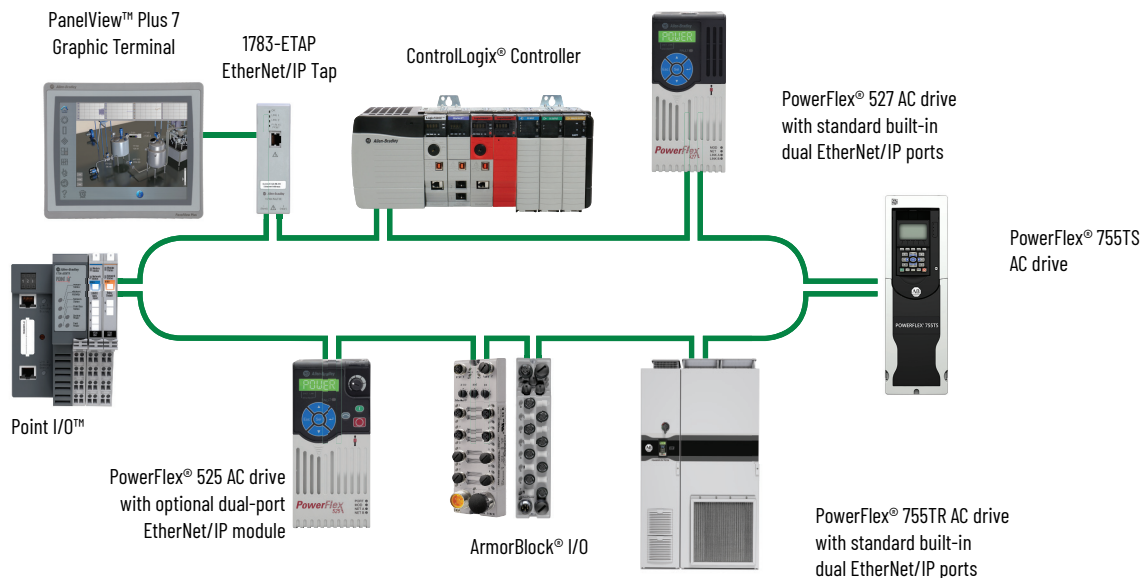
Optimize your application with a wide range of control technologies from open loop speed regulation to precise torque and speed control. In addition to industry standard motor control, the PowerFlex family offers unique control technologies that can provide you with even greater application flexibility.

FORCE™ Technology, is the original Allen-Bradley patented field-oriented control that provides excellent low speed/zero speed performance and delivers accurate torque and speed regulation.

PowerFlex 755T drives offer TotalFORCE® Technology that builds on the original FORCE technology to deliver superior motor control through precise, adaptive control of torque, velocity, and position for electric motors.

Our low harmonic, regenerative, and common bus PowerFlex drives feature enhanced corrosive gas protection offering greater defense than traditional conformal coating does on its own. Combined with several additional design enhancements, these drives provide improved performance in environments where corrosive gases are prevalent. This enhanced corrosive gas protection is optional on our six-pulse drive.

EtherNet/IP connectivity supports seamless integration into the Logix environment. PowerFlex drives help you apply this open network by making connections simple with built-in or optional EtherNet/IP communication ports. EtherNet/IP connectivity provides the flexibility to support multiple network topologies – linear, star, or ring configurations. An added advantage is the support for Device Level Ring (DLR) functionality.



Drive Efficient Operations

Adjusting the speed of motors to exactly match the requirements of the application can help provide significant savings to your operations.

- Some PowerFlex drives offer an Economizer mode, which consists of sensorless vector control with an additional energy savings function. When steady-state speed is achieved, the economizer becomes active and automatically adjusts the drive output voltage based on the applied load.
- The option for permanent magnet motor control is available with many PowerFlex drives. Using permanent magnet motors can help improve energy efficiency and reduce related costs. The higher power density provided by permanent magnet motors often results in a motor size reduction while maintaining the same output torque.
- PowerFlex drives with regeneration capability help reduce energy consumption by delivering regenerative energy from motors back to the incoming power supply.

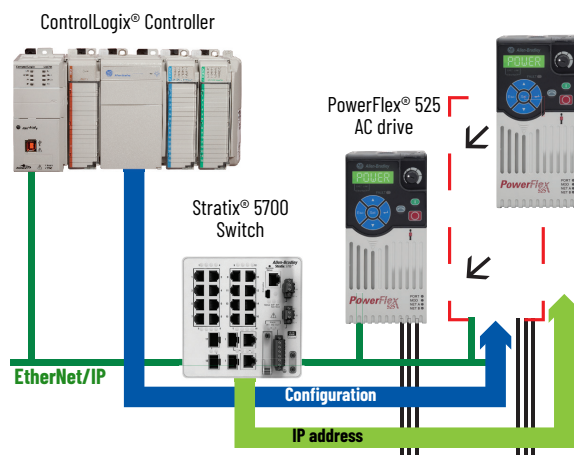
Simplified Drive Configuration and Programming

PowerFlex drives help make configuration and programming fast and uncomplicated with a choice of easy-to-use software packages and tools. Each tool is powerful and intuitive to help enhance your user experience and reduce your development time so you can deliver machines faster and more efficiently.

- The Human Interface Module (HIM) provides convenient configuration.
- Connected Components Workbench™ programming and configuration software leverages proven Rockwell Automation and Microsoft® Visual Studio® technologies for fast and easy drive configuration, controller programming, and integration with the HMI editor.
- PowerFlex drives are integrated within the Studio 5000® environment. Data associated with the drive is automatically generated to ease configuration and minimize the need to manually program the required parameters and tags.
- The PowerFlex 527, 755, and 755T AC drives can be programmed using motion instructions in the Studio 5000 environment. These motion instructions are shared with Kinetix® servo drives, providing a common configuration, programming, and control experience for both types of drives.

Automatic Device Configuration

Automatic Device Configuration (ADC) lets Logix controllers 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 can be used with PowerFlex drives that have a standard built-in EtherNet/IP port or drives using a dual-port EtherNet/IP option module.



Safety Solutions

In the past, implementing safety solutions often meant sacrificing productivity. PowerFlex drives address productivity concerns by offering safety options that help protect your people and equipment while also reducing unplanned downtime.

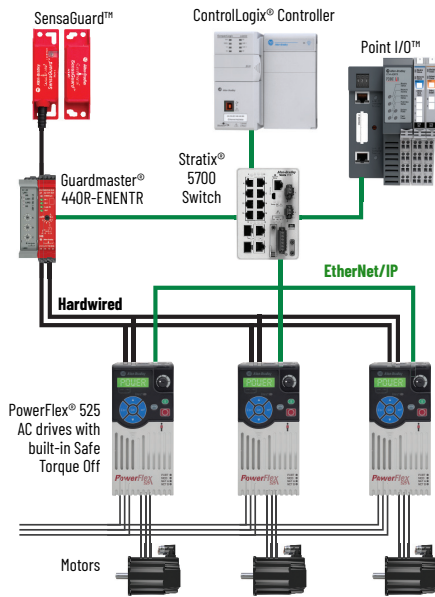
Safety can be implemented with PowerFlex drives using either built-in features or add-on safety options. Choose from a hardwired configuration that is wired directly into the drive. Or use integrated safety that is delivered via EtherNet/IP with select drives.

Hardwired Safe Torque Off is ideal for safety-related applications that benefit from removal of rotational power to the motor without removing power from the drive. This functionality offers the benefit of quick startup after a demand on the safety system.

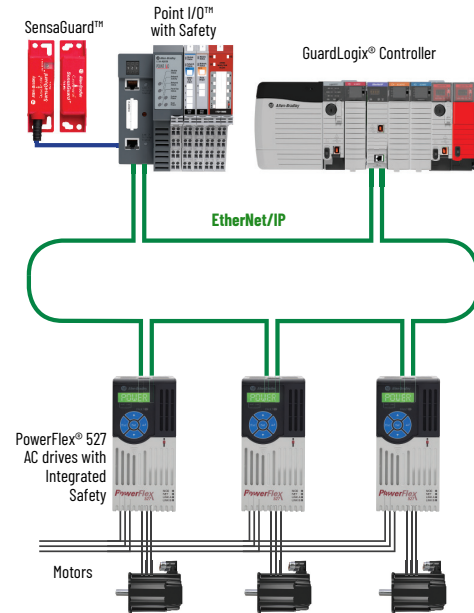
Integrated Safe Torque Off provides the same benefits and safety ratings as hardwired Safe Torque Off – plus the ability to simplify your machine design and minimize equipment redundancies.

- A single GuardLogix® controller can be used for both safety and standard control so that safety and non-safety functions share the same EtherNet/IP network
- Operators and maintenance personnel have visibility to all machine events including safety events. This enables a quick response that allows the machine to return to full production.

Hardwired Safe Torque Off



Integrated Safe Torque Off



Safe Speed Monitor provides a solution for applications that can benefit from access to a safety zone while there is limited motion. It allows operators to perform some process or maintenance work without stopping the machine.

Integrated safety functions provide PowerFlex 755, 755TL, 755TR, 755TS, and 755TM AC drives with advanced safety on an EtherNet/IP network. The option module uses safety instructions based on IEC 61800-5-2.

Drive-based safety instructions include:

- STO – Safe Torque Off
- SSI – Safe Stop 1

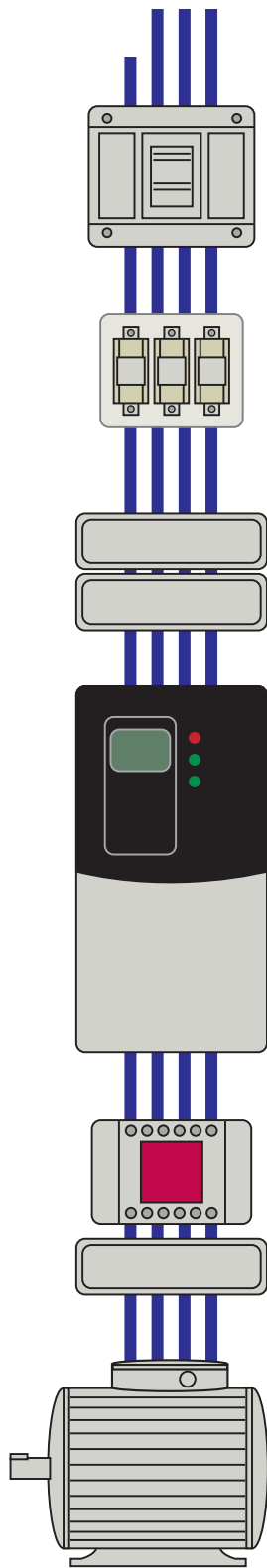
Controller-based safety functions include:

- SFX – Safety Feedback Interface
- SS1 – Safe Stop 1
- SS2 – Safe Stop 2
- SOS – Safe Operational Stop
- SLS – Safely-limited Speed
- SLP – Safely-limited Position
- SDI – Safe Direction
- SBC – Safe Brake Control

PowerFlex AC drives and Kinetix® servo drives use the same safety functions for a common, simplified user experience. When used as part of an integrated safety system that includes a GuardLogix 5580ES controller or Compact GuardLogix 5380ES controller, the integrated safety functions option module provides safety ratings up to and including SIL 3 and PLe Cat 4. Studio 5000 Logix Designer® application version 31 or later is also required.

Drive	Hardwired Safe Torque Off	Networked Safe Torque Off	Safe Speed Monitor	Network Integrated Safety Functions
PowerFlex 525	Built-in: SIL 2, PLd, cat. 3	—	—	—
PowerFlex 527	Built-in: SIL 3, PLe, cat. 3	Built-in: SIL 3, PLe, cat. 3	—	—
PowerFlex 70	Option: SIL 2, PLd, cat. 3	—	—	—
PowerFlex 753	Option: SIL 3, PLe, cat. 3	—	Option: SIL 3, PLe, cat. 4	—
PowerFlex 755	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 4	Option: SIL 3, PLe, cat. 4
PowerFlex 755TS	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 4	Option: SIL 3, PLe, cat. 4
PowerFlex 755TL	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 4	Option: SIL 3, PLe, cat. 4
PowerFlex 755TR	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 4	Option: SIL 3, PLe, cat. 4
PowerFlex 755TM	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 3	Option: SIL 3, PLe, cat. 4	Option: SIL 3, PLe, cat. 4

Line and Load Options



AC Supply Source

Know what type of power distribution grounding the drive will be on. Three of the most common grounding methods are: solidly grounded, high-resistance grounded, and ungrounded. Jumpers in our drives allow for installation in any of these configurations. A solidly grounded power distribution is recommended.

Input Fusing and Circuit Breakers

Rockwell Automation offers a full line of Allen-Bradley® circuit breakers and motor protection devices to help meet many of your application needs. The recommended fuse and breaker types are listed in the product user manuals.

Line Reactor

Must be applied if:

- Installation site has switched power factor correction capacitors
- Installation site has power interruptions or voltage dips
- The transformer is too large in comparison to the drive

Input Filter

Compact PowerFlex drives: External EMC filter required for EMC compliance. With PowerFlex 523, 525 and 527 AC drives, EMC filtering is embedded at 200V and 400V. Architecture drives: External EMC filter only required with long motor cables and/or specific immunity requirements.

AC Drive

Normal duty (ND) rating: 110% overload for 1 minute and 150% overload for 3 seconds. No excessive starting overload, transient overload, or high duty cycle. Most typical AC drive applications are normal duty.

Heavy duty (HD) rating: 150% overload for 1 minute and 180% overload for 3 seconds. Required for high starting torque (example: heavily loaded conveyors), high brake-away torque (example: extruders and mixers) and high running torque (example: reciprocating compressors).

Output Device or Cable Termination

Required if motor cable lengths exceed stated values.

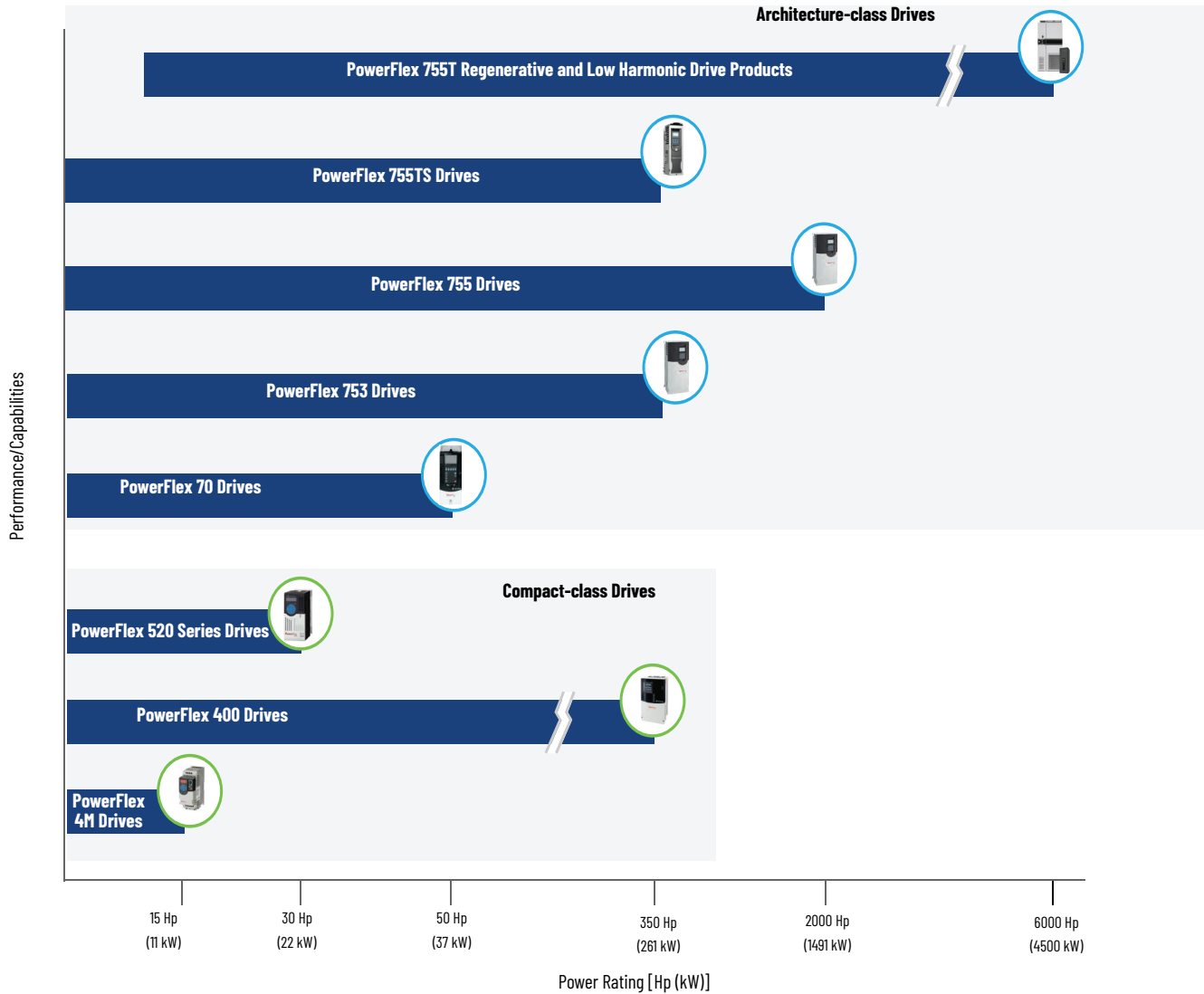
AC Motor

Inverter-duty rated at a minimum.

PowerFlex AC Drives

The PowerFlex® family of low voltage drives provides the power and control you need and offer a range of power ratings and capabilities to meet your application needs. See the [PowerFlex 755T AC Drives with TotalFORCE Technology Product Overview on page 15](#), [PowerFlex Architecture-class AC Drives Product Overview on page 16](#), and [PowerFlex Compact-class AC Drives Product Overview on page 14](#) for more information.

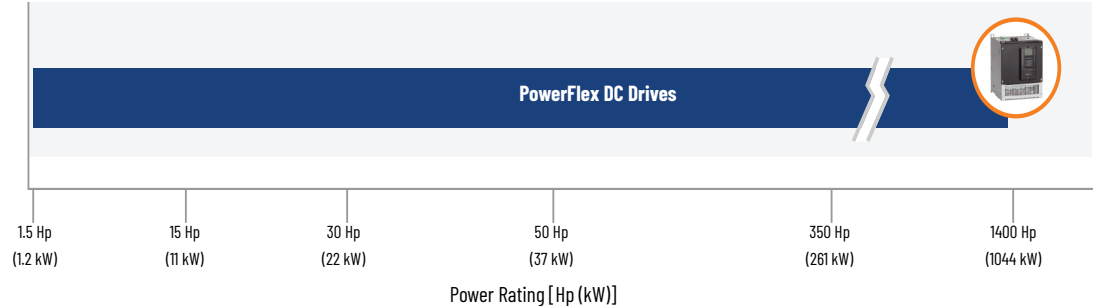
PowerFlex AC Drives Performance and Power



PowerFlex DC Drives

PowerFlex DC drives are available with 1.2...1044 kW/1.5...1400 Hp in voltages from 200...690V. These drives feature regenerative and non-regenerative solutions and various features to accommodate most application needs. See the [PowerFlex DC Drives Product Overview on page 18](#) for more information.

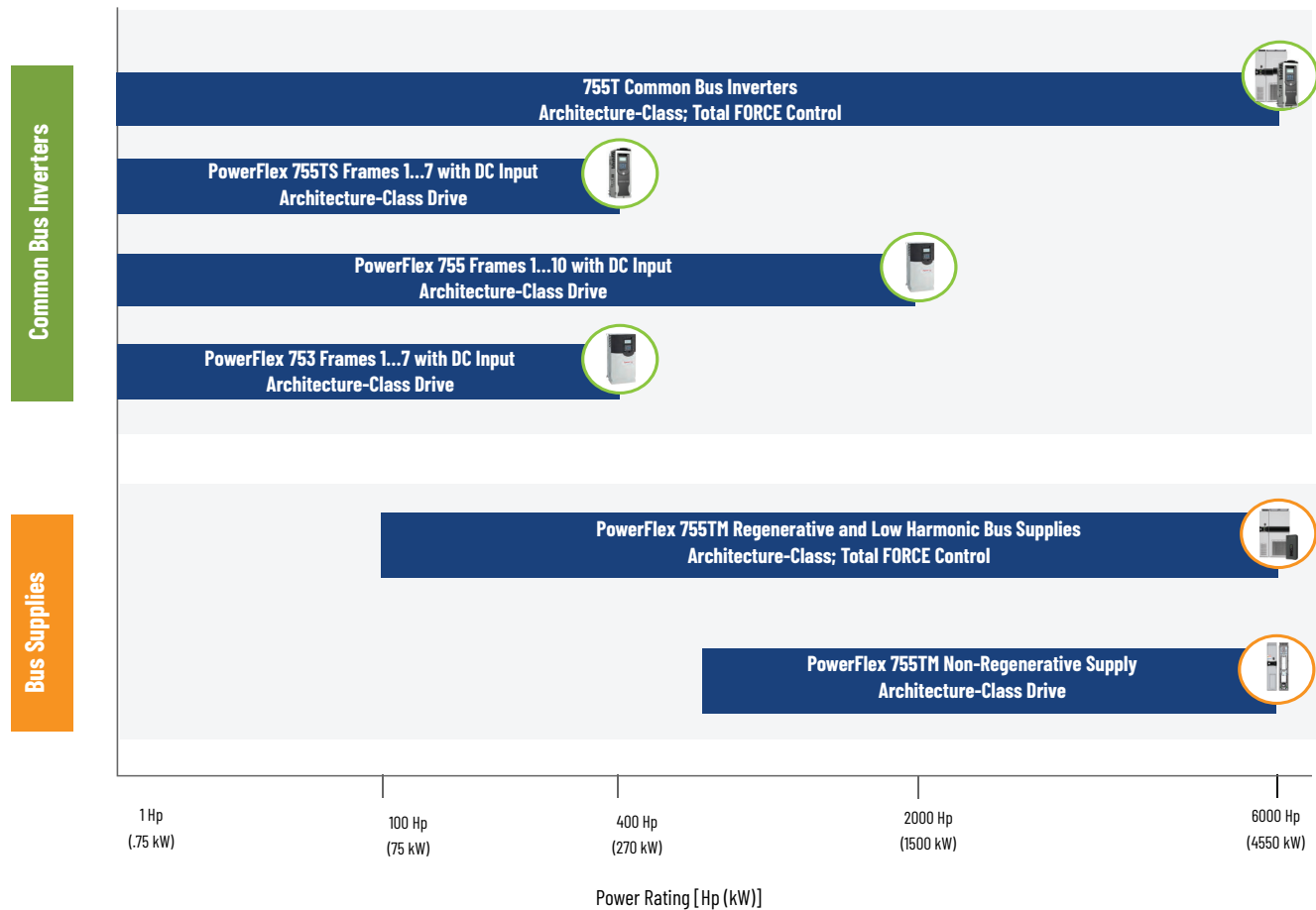
PowerFlex DC Drives Power Rating



PowerFlex Common Bus Inverters and Supplies

PowerFlex Common Bus Inverters are available with 0.75...4550 kW/1...6000 Hp. PowerFlex Common Bus Supplies are available with 0.75...4550 kW/1...6000 Hp. See the [PowerFlex 755TM Drives for Common Bus Systems Product Overview on page 17](#) for more information.

PowerFlex Common Bus Inverters and Bus Supplies Power Rating



PowerFlex Compact-class AC Drives

PowerFlex Compact-class AC Drives deliver a simple and cost-effective solution for standalone machine level control applications or simple system integration. Designed for ease of use, this general-purpose class of drives provides a compact package to optimize panel space and application versatility.

PowerFlex 4M is the most cost-effective of the PowerFlex family of drives and features feed-through wiring and Zero-Stacking (TM) for ambient temperatures



PowerFlex 400 is ideal for pump and fan applications. Built-in features such as purge and damper input provide a cost-effective solution for speed control in a broad range of variable torque fan and pump applications.



PowerFlex 520-series combines powerful performance with flexible control and focuses on ease of use. Each of the three drives in this family offers a unique set of features to distinctively match the needs of your application.



PowerFlex 523



PowerFlex 525



PowerFlex 527

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 hardwired Safe Torque Off and a built-in port for EtherNet/IP.

PowerFlex 527 AC drives are used with an Allen-Bradley® Logix programmable controller. They feature:

- Safe Torque Off, either hardwired or deployed over the EtherNet/IP network
- Built-in dual-port EtherNet/IP supports multiple network topologies and Device Level Ring functionality

PowerFlex Architecture-class AC Drives

PowerFlex Architecture-class AC drives provide a broad set of features and application-specific parameters, and they are ideal for high-performance applications. They are designed to meet your application requirements for speed and torque control.



PowerFlex 755 AC drives include multiple control, hardware, and safety options. Built-in EtherNet/IP delivers real time operating data and easily integrates into the Logix control system. Ideal for applications requiring position, speed, or torque control up to 1500 kW/2000 Hp. DC input options available.



PowerFlex 753 AC drives feature standard built-in I/O plus three options slots for communications, safety, and additional I/O.

PowerFlex 70 AC drives are compact packages of power, control, and operator interface that is designed to meet demands for space, simplicity, and reliability. Offered in wall or machine mount with speed and torque control with and without encoder feedback



PowerFlex 755T AC Drives with TotalFORCE Technology

PowerFlex 755T Drive Products provide harmonic mitigation, regeneration, non-regenerative, and common bus solutions that help you reduce energy costs, gain flexibility, and increase productivity. These are the first drives to offer TotalFORCE® technology to achieve excellent motor control through precise, adaptive control of torque, velocity, and position for electric motors. TotalFORCE technology incorporates several patented features that are designed to help optimize your system and maintain productivity.

PowerFlex 755TS Drive –incorporates TotalFORCE technology into a traditional six-pulse drive. TotalFORCE can now be used in a wider range of applications including fan, pump, and conveyor applications to more advanced motor control processes that require high performance features typically found in specialized drive solutions. PowerFlex 755TS offers real-time operational intelligence, automated commissioning, and optimization.



PowerFlex 755TL Drive – Provides harmonic mitigation and power factor correction by using active front end technology. By reducing the adverse effects of harmonic distortion, the drive helps to improve energy efficiency, reduce energy costs and minimize power distribution issues on the factory floor.

PowerFlex 755TR Drive – Features built-in regeneration capability that helps decrease energy consumption by delivering regenerative energy from motors back to the incoming supply. Line regeneration reduces the need for braking resistors and associated cooling equipment and helps avoid wasteful dissipation of energy. This drive also offers harmonic mitigation. This drive is also available in a liquid-cooled design up to 300 Hp.

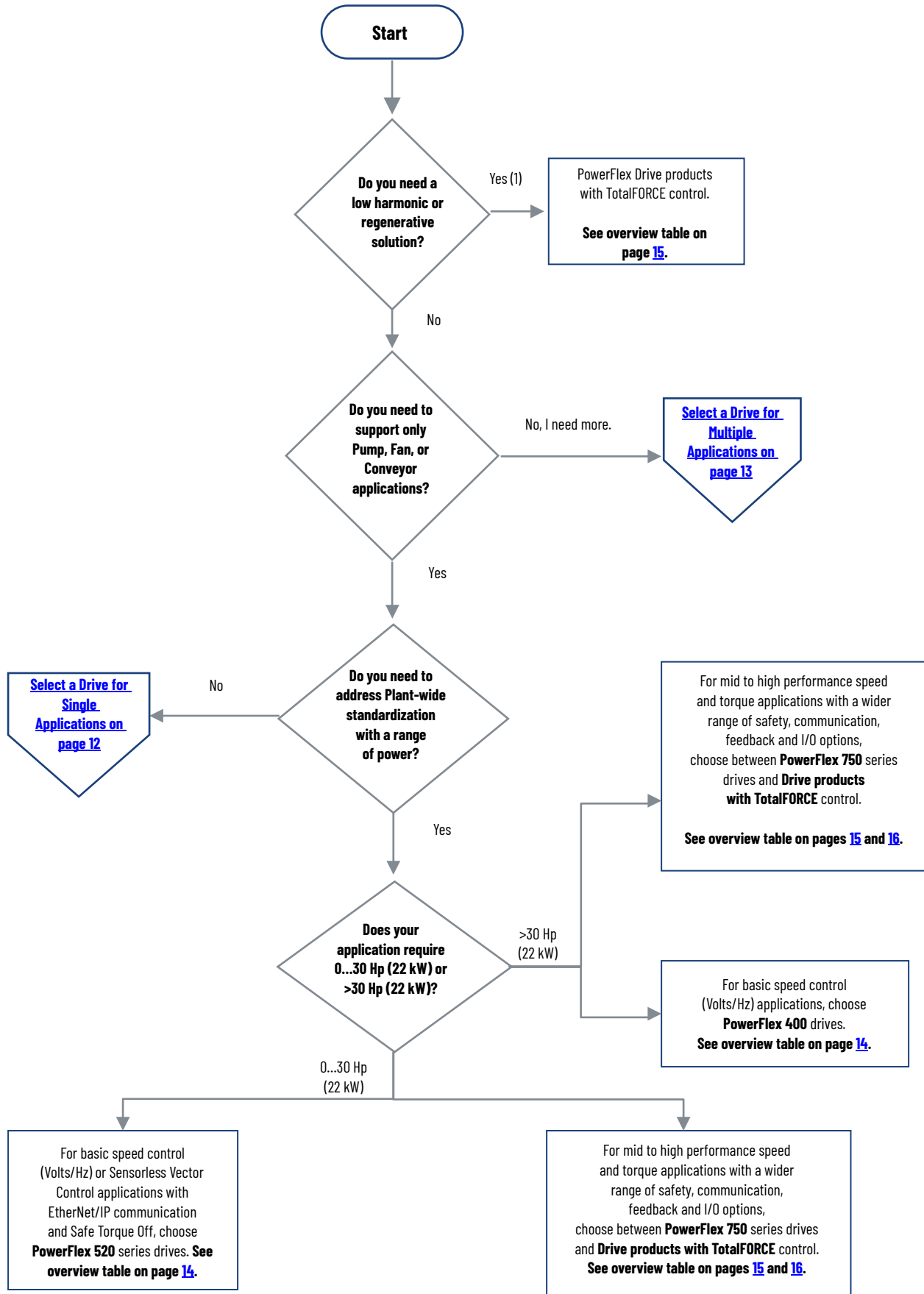
PowerFlex 755TM Drive System – Select from a series of predesigned configurations for regenerative, and non-regenerative common bus supplies and common bus inverters to optimize your system design and power consumption. A common bus drive system offers advantages such as design flexibility, energy optimization and reduced installation costs. PowerFlex 755TM systems provide harmonic mitigation and built-in regeneration capability.

PowerFlex 755T Drives Configured to Order – Our configured to order drives are factory delivered for PowerFlex 755TL, TR, and TM drives in frames 7...10. Packaging options include NEMA Type 1 and 12 enclosures. Options include: input circuit breaker and/or fuses, door-mounted push buttons and selector switches, optional door-mounted HIM, and output contactor and/or sine wave (DV/DT) filter.



Select a PowerFlex AC Drive Family

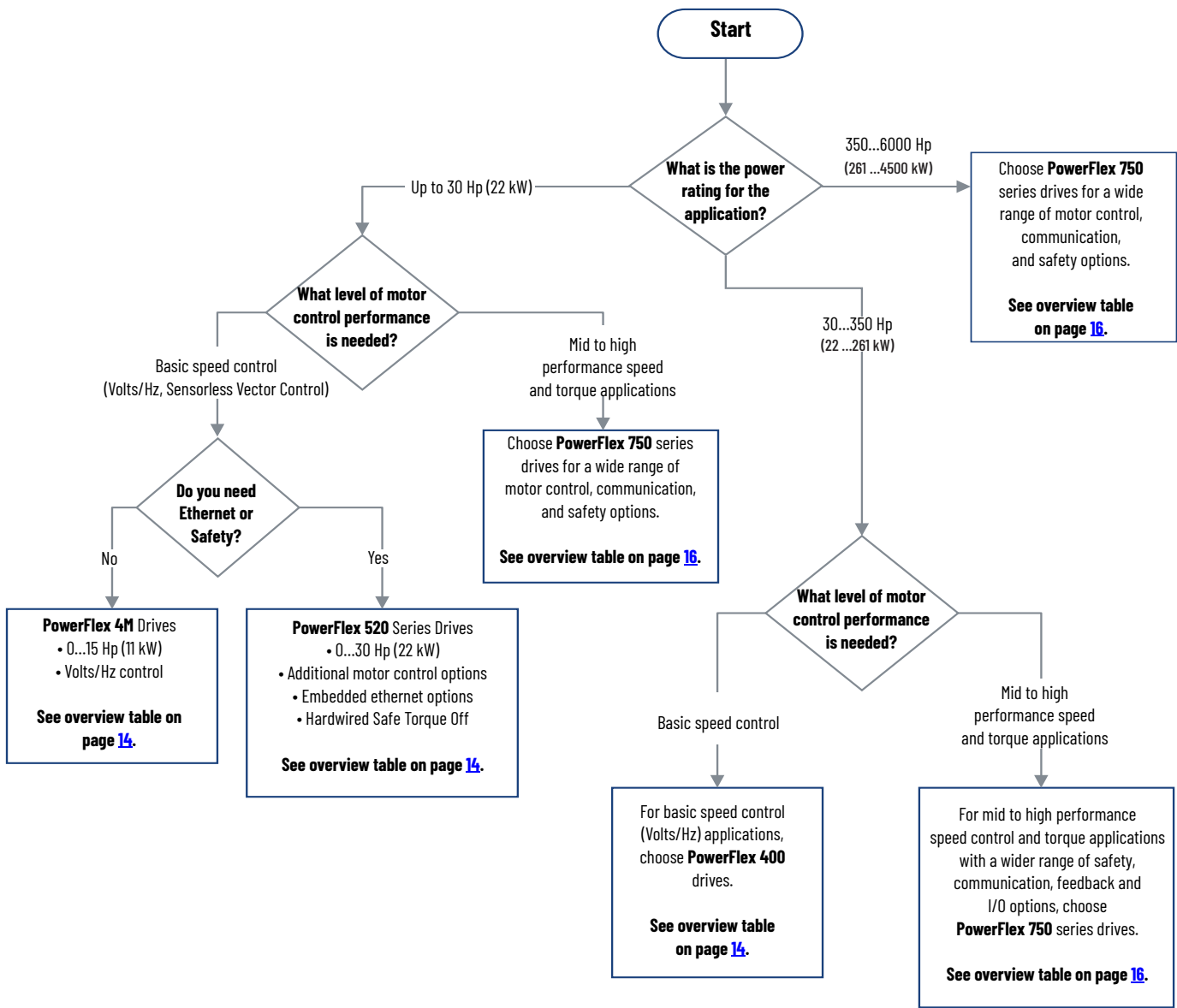
Use the following flowchart to help you find the right family of PowerFlex AC drives for your application needs.



(1) Consider an Engineered to Order solution if the drives in these families do not meet your needs

Select a Drive for Single Applications

Use the following flowchart to help you find the right family of PowerFlex AC drives for your application needs.



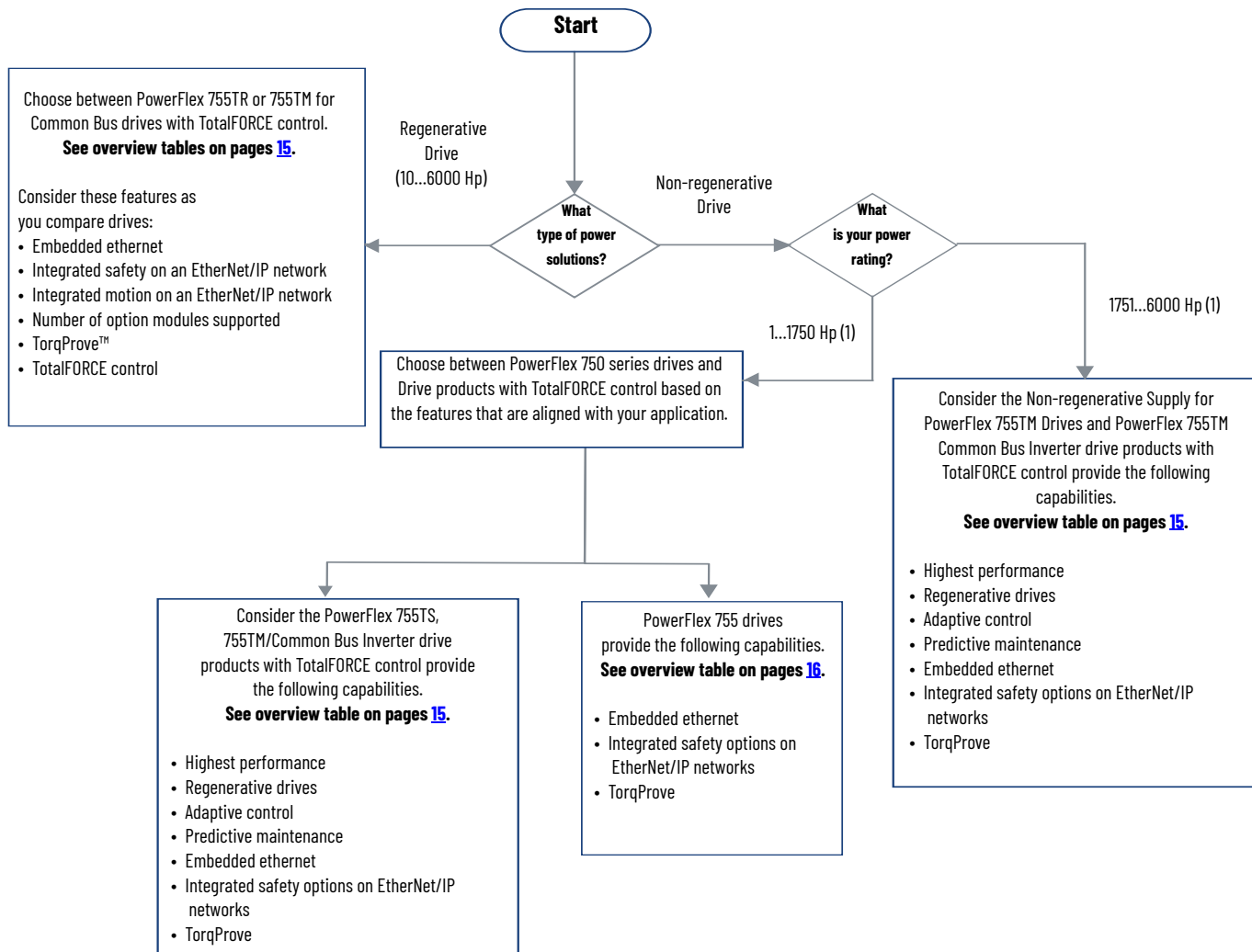
Select a Drive for Multiple Applications

PowerFlex 750-Series Drives and Drive Products with TotalFORCE control support multiple applications, including:

- | | | | |
|-----------------------------------|-----------------------|----------------------|-----------------------------|
| • Pump/Fan | • Centrifuge | • Pump Jack | • Mixers/Agitators |
| • Conveyors | • Tensioners | • Crushers/Shredders | • Extruders |
| • Compressors | • (Un)Winders/Coilers | • Press | • Crane/Hoist/Lift |
| • Reciprocating Pumps/Compressors | • Chippers | • Palletizers | • Flying Shear/Cutter/Knife |

For Common Bus applications, see [PowerFlex Drives Common Bus Solutions on page 69](#).

Use the following flowchart to help you find the right family of PowerFlex AC drives for your application needs.



(1) PowerFlex 755T Drive products with TotalFORCE control are available for power ratings of 10 Hp and up.

PowerFlex Compact-class AC Drives Product Overview

					
	PowerFlex 4M AC Drive	PowerFlex 400 AC Drive	PowerFlex 523 AC Drive	PowerFlex 525 AC Drive	PowerFlex 527 AC Drive
Selection Guide Page	See page 19	See page 22	See page 26	See page 29	See page 32
Motor Control	Volts per Hertz	Volts per Hertz	- 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
Application	Open loop speed regulation	Open loop speed regulation	Open loop speed regulation	- Open loop speed regulation - Closed loop speed regulation	- Open loop speed regulation - Closed loop speed regulation
Ratings 100...115V	0.2...1.1 kW 0.25...1.5 Hp 1.6...6 A	—	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
Ratings 200...240V	0.2...7.5 kW 0.25...10 Hp 1.6...33 A	2.2...37 kW 3.0...50 Hp 12...145 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
Ratings 400...480V	0.4...11 kW 0.5...15 Hp 1.5...24 A	2.2...250 kW 3.0...350 Hp 6.0...460 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
Ratings 500...600V	—	—	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
Communication Options	- Integral RS-485 (Modbus RTU) - Optional⁽¹⁾: EtherNet/IP, ControlNet, DeviceNet, PROFIBUS DP	- Integral RS-485 (Modbus RTU, Metasys N2, P1-FLN) - Optional⁽¹⁾: EtherNet/IP, ControlNet, DeviceNet, BACnet, LonWorks®, PROFIBUS DP	- Integral RS-485 (Modbus RTU) - Optional⁽¹⁾ dual-port EtherNet/IP, DeviceNet, PROFIBUS DP	- Built-in EtherNet/IP port - Integral RS-485 (Modbus RTU) - Optional⁽¹⁾: Dual-port EtherNet/IP, DeviceNet, PROFIBUS DP	Built-in dual EtherNet/IP ports
Safety	—	—	—	Built-in hardwired Safe Torque Off, SIL 2, PLd, cat. 3	- Built-in hardwired Safe Torque Off, SIL 3, PLc, cat. 3 - Built-in networked Safe Torque Off, SIL 3, PLc, cat. 3
Certifications and Standards Compliance ⁽²⁾	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS
Features	- Compact, space saving design - Cost-effective - Feed-through wiring - Drive overload protection and ramp regulation	- Ideal for pump and fan applications - Designed to meet demands for flexibility, space savings and ease-of-use - Drive overload protection, flying start, purge and damper input, hand/off/ auto, and sleep/wake, PID features	- Modular design eases installation - 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⁽³⁾	- Modular design eases installation - Economizer motor control for energy savings - Application-specific parameter groups - Simple positioning control with optional encoder card - Automatic Device Configuration	- Modular design eases installation - Works exclusively with Logix controllers - Choice of hardwired or networked safety - Removable terminal blocks help simplify installation - Simple positioning control with optional encoder card - Automatic Device Configuration
Operating Temperature Information	- Ambient temperatures up to 50 °C (122 °F) permitted with minimal spacing between drives - Zero-Stacking™ Drives for ambient temperatures up to 40 °C (104 °F)	Ambient Temperature up to 50 °C (122 °F)	-20...+50 °C (-4...+122 °F) - Up to 70 °C (158 °F) with current derating and optional control module fan kit	-20...+50 °C (-4...+122 °F) - Up to 70 °C (158 °F) with current derating and optional control module fan kit	-20...+50 °C (-4...+122 °F) - Up to 70 °C (158 °F) with current derating and optional control module fan kit
Configuration and Programming	- HIM - Studio 5000 Logix Designer® - Connected Components Workbench software	- HIM - Studio 5000 Logix Designer - Connected Components Workbench software	- Multilanguage HIM - Studio 5000 Logix Designer - Connected Components Workbench software	- Multilanguage HIM - Studio 5000 Logix Designer - Connected Components Workbench software	Motion instructions in Studio 5000 Logix Designer
Technical Data ⁽⁴⁾	22F-TD001	22C-TD001	520-TD001	520-TD001	520-TD002

(1) Optional network for use only with DSI External Communications Kit.

(2) For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(3) Requires dual-port EtherNet/IP Option Module (Cat. No. 25-COMM-E2P)

(4) Technical Data publications contain full product selection, accessories, and specifications information.

PowerFlex 755T AC Drives with TotalFORCE Technology Product Overview

			
	PowerFlex 755TS AC Drive	PowerFlex 755TL Low Harmonic AC Drive	PowerFlex 755TR Regenerative AC Drive
Selection Guide Page	See page 35	See page 42	See page 42
Motor Control	• Sensorless vector • Flux vector control • Volts per Hertz • Economizer • Field-oriented control • Permanent magnet motor control • Synchronous reluctance	• Sensorless vector • Flux vector control • Volts per Hertz • Economizer • Field-oriented control • Permanent magnet motor control • Synchronous reluctance	• Sensorless vector • Flux vector control • Volts per Hertz • Economizer • Field-oriented control • Permanent magnet motor control • Synchronous reluctance
Application	• Open loop speed regulation • Closed loop speed regulation • Precise torque, position, and speed regulation • Accurate positioning with PCAM, indexer, and gearing	• Open loop speed regulation • Closed loop speed regulation • Precise torque, position, and speed regulation • Accurate positioning with PCAM, indexer, and gearing	• Open loop speed regulation • Closed loop speed regulation • Accurate torque and speed regulation • Accurate positioning with PCAM, indexer, and gearing
Single-phase Input with Derate	Yes	No	No
Ratings 200...240V	0.37...132 kW (200V) 0.5...200 Hp (240V)	—	—
Ratings 400...480V	0.75...355 kW 1...500 Hp 2.1...617 A	7.5...1400 kW 10...1800 Hp 14...2156 A	7.5...4500 kW 10... 6000 Hp 14...6734 A
Ratings 500...600V	1...300 Hp	10...1500 Hp 11...1430 A	10... 5100 Hp 11...4960 A
Ratings 690V	7.5...250 kW	11...1400 kW 15...1419 A	11...4550 kW 15...4596 A
Communication Options	• Internal DPI™ • Built-in dual EtherNet/IP ports, 1 Gbps speed • Options: ControlNet, DeviceNet, PROFIBUS DP, PROFINET	• Internal DPI • Built-in dual EtherNet/IP ports • Options: ControlNet, DeviceNet, PROFIBUS DP, PROFINET	• Internal DPI • Built-in dual EtherNet/IP ports • Options: ControlNet, DeviceNet, PROFIBUS DP, PROFINET
Safety Options	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4
Certifications and Standards Compliance⁽¹⁾	• c-UL-us • CE • EAC • KCC • RCM • RoHS • Seismic	• c-UL-us • CE • EAC • KCC • RCM • RoHS • Seismic	• c-UL-us • CE • EAC • KCC • RCM • RoHS • Seismic
Features	• TotalFORCE technology with patented features to help optimize your system and maintain productivity • Predictive diagnostics and maintenance • Simplified migration from PowerFlex 755 with identical mechanical and electrical characteristics • High power density with compact footprint • TorqProve for lifting applications • Five option slots for I/O, feedback, safety, auxiliary control power, communications • Optional enhanced corrosive gas protection (XT)	• Provides harmonic mitigation and power factor correction • TotalFORCE technology with patented features to help optimize your system and maintain productivity • Predictive diagnostics and maintenance • Efficient installation and maintenance with convenient roll in/out design • High power density with compact footprint • TorqProve for lifting applications • Five option slots for I/O, feedback, safety, auxiliary control power, communications	• Provides harmonic mitigation, power factor correction, and regenerative capability • TotalFORCE technology with patented features to help optimize your system and maintain productivity • Predictive diagnostics and maintenance • Efficient installation and maintenance with convenient roll in/out design • High power density with compact footprint • TorqProve for lifting applications • Five option slots for I/O, feedback, safety, auxiliary control power, communications • Liquid-cooled up to 300 Hp
Configuration and Programming	• HIM • Studio 5000 Logix Designer • Connected Components Workbench software	• HIM • Studio 5000 Logix Designer • Connected Components Workbench software	• HIM • Studio 5000 Logix Designer • Connected Components Workbench software
Technical Data⁽²⁾	750-TD104	750-TD100	750-TD100

(1) For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(2) Technical Data publications contain full product selection, accessories, and specifications information.

PowerFlex Architecture-class AC Drives Product Overview

			
	PowerFlex 753 AC Drive	PowerFlex 755 AC Drive	PowerFlex 70 AC Drive
Selection Guide Page	See page 51	See page 56	See page 61
Motor Control	- Flux vector control with and without an encoder - Sensorless vector control - Volts per Hertz - Permanent magnet motor control	- Flux vector control with and without an encoder - Sensorless vector control - Volts per Hertz - Permanent magnet motor control	- Flux vector control with and without an encoder - Sensorless vector control - Volts per Hertz
Application	- Open loop speed regulation - Closed loop speed regulation - Accurate torque and speed regulation - Indexer positioning	- Open loop speed regulation - Closed loop speed regulation - Accurate torque and speed regulation - Accurate positioning with PCAM, indexer, and gearing	- Open loop speed regulation - Closed loop speed regulation - Accurate torque and speed regulation
Single-phase Input with Derate	Yes	Yes (frames 1...7); No (Frames 8...10)	Yes
Ratings 200...240V	0.37...132 kW 0.5...200 Hp 2.2...477 A	0.37...132 kW 0.5...200 Hp 2.2...477 A	0.37...18.5 kW 0.5...25 Hp 2.2...70 A
Ratings 400...480V	0.75...270 kW 1...400 Hp 2.1...477 A	0.75...1400 kW 1...2000 Hp 2.1...2330 A	0.37...37 kW 0.5...50 Hp 1.1...72 A
Ratings 500...600V	1...300 Hp 1.7... 289 A	1...1500 Hp 1.7...1530 A	0.37...37 kW 0.5...50 Hp 0.9...52 A
Ratings 690V	7.5...250 kW 12...263 A	0.75...1500 kW 12...1485 A	—
Communication Options	- Internal DPI™ - Options: Single or dual-port Ethernet/IP, ControlNet (Coax or Fiber), DeviceNet, BACnet/IP, CANopen, HVAC (Modbus RTU, FLN P1, Metasys N2), Modbus/TCP, PROFIBUS DP, PROFINET IO, RS-485 DF1, Internal DPI	- Internal DPI - Built-in EtherNet/IP port - Options: ControlNet (Coax or Fiber), DeviceNet, BACnet, dual-port EtherNet/IP, CANopen, External SCANport™, HVAC (Modbus RTU, FLN P1, Metasys N2), Modbus/TCP RS-485 DF1, RS-485 DF1, PROFINET IO	- Internal DPI - Options: Single or dual-port Ethernet/IP, ControlNet (Coax or Fiber), DeviceNet, BACnet, CANopen, ExternalSCANport, Modbus/TCP, PROFIBUS DP, RS-485 DF1, RS-485 HVAC (Modbus RTU, Metasys N2, Siemens P1)
Safety	- Hardwired Safe Torque Off SIL 3, PLe, cat. 3 - option - Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 - option	- Hardwired Safe Torque Off SIL 3, PLe, cat. 3 - option - Networked Safe Torque Off SIL 3, PLe, cat. 3 - option - Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 - option - Networked Integrated Safety Functions - SIL CL 3 and PLe Cat 4 - option	Hardwired Safe Torque Off SIL 2, PLd, cat. 3 - option
Certifications and Standards Compliance⁽¹⁾	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS	- c-UL-us - CE - EAC - KCC - RCM - RoHS
Features	- Embedded I/O standard - Three option slots for I/O, feedback, safety, auxiliary control power, communications - Predictive diagnostics - Adjustable voltage control - Application-specific control for indexing, oil well and fiber applications	- Five option slots for I/O, feedback, safety, auxiliary control power, communications - Predictive diagnostics - TorqProve™ for lifting applications - Application-specific control for indexing, oil well, and fiber applications - Adjustable voltage control - Convenient roll-in/out design for floor mount drives	- Embedded I/O standard - Speed and torque control with and without encoder feedback - P-Jump and Traverse for Fibers applications - Flexible packaging and mounting
Configuration and Programming	- HIM - Studio 5000 Logix Designer - Connected Components Workbench software	- HIM - Studio 5000 Logix Designer - Connected Components Workbench software	- HIM - Studio 5000 Logix Designer - Connected Components Workbench software
Technical Data⁽²⁾	750-TD001	750-TD001	20A-TD001

(1) For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(2) Technical Data publications contain full product selection, accessories, and specifications information.

PowerFlex 755TM Drives for Common Bus Systems Product Overview

			
	PowerFlex 755TM Regenerative Bus Supply	PowerFlex 755TM Non-regenerative Supply	PowerFlex 755TM Common Bus Inverters
Selection Guide Page	See page 73	See page 79	See page 73
Motor Control	—	—	• Sensorless vector • Flux vector control • Volts per Hertz • Economizer • Field-oriented control • Permanent magnet motor control
Application	—	—	• Open loop speed regulation • Closed loop speed regulation • Precise torque and speed regulation • Accurate positioning with PCAM, indexer, and gearing
Single-phase Input with Derate	—	—	—
Ratings 200...240V	—	—	—
Ratings 400...480V	• 87...4358 kW • 150...7517 A @400V • 90...4818 kW • 129...6925 A @480V	• 400...800 kW • 770...1463 A @400V • 650...1100kW • 770...1365 A @480V	• 160...3640 kW • 302...7007 A @400V • 250...6000 Hp • 302...6734 A @480V
Ratings 500...600V	• 69...4432 kW • 79...5096 A @ 600V	• 550...1000 kW • 545...980 A @ 600V	• 250... 5100 Hp • 242...4960 A @ 600V
Ratings 690V	• 84...4714 kW • 84...4714 A	• 500...900 kW • 505...920 A	• 200...4550 kW • 215...4596 A
Communication Options	• Internal DPI • Built-in dual EtherNet/IP ports • Options: ControlNet, DeviceNet, PROFIBUS DP, PROFINET	—	• Internal DPI • Built-in dual EtherNet/IP ports • Options: ControlNet, DeviceNet, PROFIBUS DP, PROFINET
Safety Options	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4	—	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4
Certifications and Standards Compliance⁽¹⁾	• c-UL-us • CE • EAC • KCC • RCM • RoHS	• c-UL-us • CE • EAC • KCC • RCM • RoHS	• c-UL-us • CE • EAC • KCC • RCM • RoHS
Features	• Common bus drive system helps provide design flexibility, minimize floor space, and reduce installation costs • Provides harmonic mitigation, power factor correction and regenerative capability • TotalFORCE technology with patented features helps optimize your system and maintain productivity • Predictive diagnostics and maintenance • Designed to enable coordination of multiple motors • High power density with compact footprint • TorqProve for lifting applications • Five option slots for I/O, feedback, safety, communications	• Cost-effective solution for common bus when regenerative and low harmonics are not required • Converts three-phase AC line voltage to DC • Compatible with PowerFlex 755TM common bus supplies and inverters • Available in 6-Pulse and 12-pulse configurations with enhanced corrosive gas protection (XT) • Uses a built-in 3% line reactor and can use the same service cart as the 755TM (common serviceability) • Paralleling capability • Common bus drive system helps provide design flexibility, minimize floor space, and reduce installation costs • High power density with compact footprint	• Common bus drive system helps provide design flexibility, minimize floor space, and reduce installation costs • Provides power factor correction and regenerative capability • TotalFORCE technology with patented features helps optimize your system and maintain productivity • Predictive diagnostics and maintenance • Designed to enable coordination of multiple motors • High power density with compact footprint • TorqProve for lifting applications • Five option slots for I/O, feedback, safety, communications
Configuration and Programming	• HIM • Studio 5000 Logix Designer • Connected Components Workbench software	—	• HIM • Studio 5000 Logix Designer • Connected Components Workbench software
Technical Data⁽²⁾	750-TD100	750-TD103	750-TD100

(1) For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(2) Technical Data publications contain full product selection, accessories, and specifications information.

PowerFlex DC Drives Product Overview



	PowerFlex DC Drive
Selection Guide Page	See page 65
Motor Control	• Regenerative and Non-regenerative • Field Weakening and Economize
Ratings 200...240V	1.2...224 kW 1.5...300 Hp 7...1050 A
Ratings 400...480V	1.5...671 kW 2...900 Hp 4.1...1494 A
Ratings 500...600V	37...932 kW 50...1250 Hp 67.5...1688 A
Ratings 690V	298...1044 kW 400...1400 Hp 452...1582 A
Certifications and Standards Compliance⁽¹⁾	• c-UL-us • CE • EAC • KCC • RCM • RoHS
Communication Options	• Internal DPI • Single or dual-port EtherNet I/P • ControlNet • DeviceNet • BACNet • HVAC comm adapter • Modbus • PROFIBUS DP
Features	• Overload Protection • PID Control (Speed or Torque) • Embedded I/O standard • Integrated field supply • Adaptive Gain, Droop, Feedback Loss Switchover • TorqProve™ for lifting applications
Technical Data⁽²⁾	20P-TD001

(1) For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(2) Technical Data publications contain full product selection, accessories, and specifications information.

PowerFlex 4M AC Drives

0.2...11 kW/0.25...15 Hp in voltages from 100...480V

Providing users with motor speed control in a compact, space-saving design, the PowerFlex® 4M AC drive is the smallest and most cost-effective member of the PowerFlex family of drives.

Providing application flexibility, feed-through wiring and ease-of-programming, this drive is ideal for machine-level speed control for applications that require space-saving and easy-to-use AC drives.

Attribute	Value
Ratings	
100...120V	0.2...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	0.2...11 kW/0.25...15 Hp/1.6...24 A
Motor Control	VHz Control
Enclosures	IP20, NEMA/UL Type Open
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.



1. Feed-through wiring design for simple retrofitting into applications that require variable speed motor control.
2. Integral keypad included. NEMA/UL Type 4X remote and Type 1 handheld keypads are available.
3. Communications: Integral RS-485.
4. Embedded I/O: 5 digital inputs, 1 relay output, 1 analog input, and 1 PTC input.
5. Internal brake IGBT in Frame C drives.



For accessories and options, including HIMs, communication, and power conditioning options, see PowerFlex 4 and 40 AC Drive Specifications Technical Data, 22F-TD001.

Catalog Number Explanation

Catalog number positions 1...7 identify the product type and voltage rating.

1...3	4	5	6-8	9	10	11	12
22F	-	D	018	N	1	0	4
A		B	C	D	E	F	G

A	
Drive	
Code	Type
22F	PowerFlex 4M

B		
Voltage Rating		
Code	Voltage	Phase
V	120V AC	1
A	240V AC	1
B	240V AC	3
D	480V AC	3

C1		
Rating		
100...120V AC, Single-phase Input		
Code	Description	kW (Hp)
1P6	1.6	0.2 (0.25)
2P5	2.5	0.4 (0.5)
4P5	4.5	0.75 (1.0)
6P0	6.0	1.1 (1.5)

C2		
Rating		
200...240V AC, Single-phase Input		
Code	Amps	kW (Hp)
1P6	1.6	0.2 (0.25)
2P5	2.5	0.4 (0.5)
4P2	4.2	0.75 (1.0)
8P0	8.0	1.5 (2.0)
011	11	2.2 (3.0)

C3		
Rating		
200...240V AC, Three-phase Input		
Code	Amps	kW (Hp)
1P6	1.6	0.2 (0.25)
2P5	2.5	0.4 (0.5)
4P2	4.2	0.75 (1.0)
8P0	8.0	1.5 (2.0)
012	12	2.2 (3.0)
017	17.5	3.7 (5.0)
025	25.0	5.5 (7.5)
033	33.0	7.5 (10.0)

C4		
Rating		
380...480V AC, Three-phase Input		
Code	Amps	kW (Hp)
1P5	1.5	0.4 (0.5)
2P5	2.5	0.75 (1.0)
4P2	4.2	1.5 (2.0)
6P0	6.0	2.2 (3.0)
8P7	8.7	3.7 (5.0)
013	13.0	5.5 (7.5)
018	18.0	7.5 (10.0)
024	24.0	10.0 (15.0)

D	
Enclosure	
Code	Enclosure
N	Panel Mount - IP20 (NEMA/UL Type Open)

E	
HIM	
Code	Interface Module
1	Fixed Keypad

F	
Emission Class	
Code	EMC Filter
0	No Filter
1	Filter

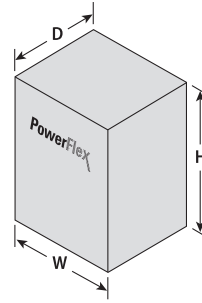
G	
Brake	
Code	Description
3	No Brake IGBT
4	Standard

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
A	174 (6.85)	72 (2.83)	136 (5.35)	1.58 (3.5)
B		100 (3.94)		2.09 (4.6)
C	260 (10.24)	130 (5.12)	180 (7.09)	4.81 (10.6)



PowerFlex 400 AC Drives

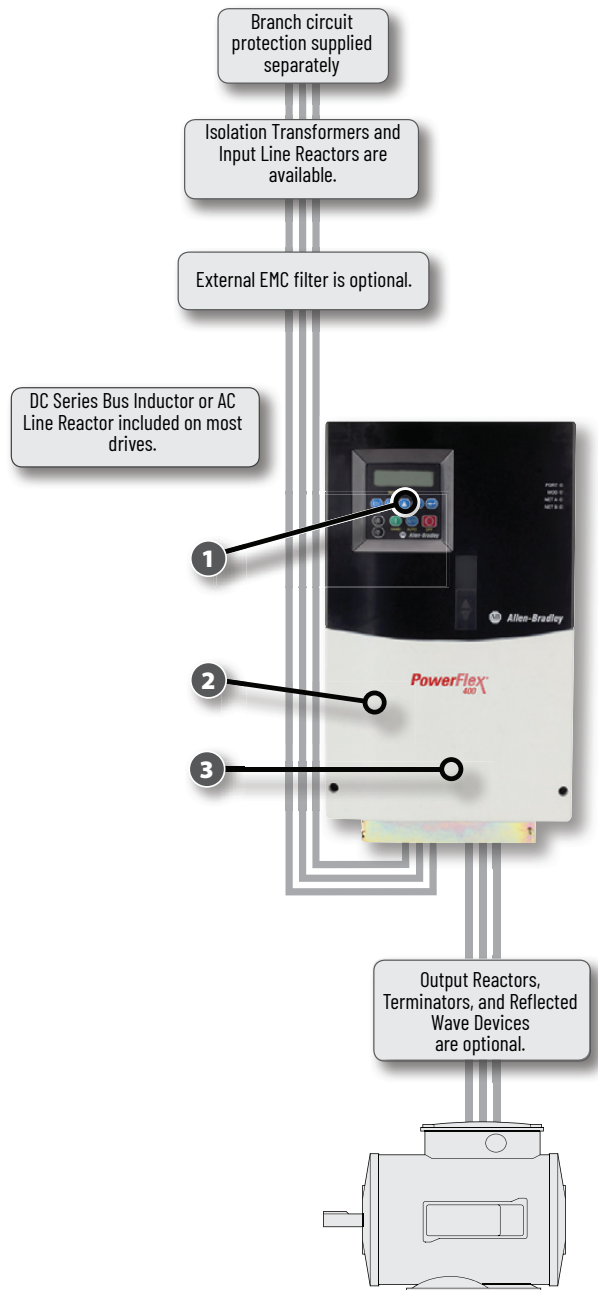
2.2...250 kW/3...350 Hp in voltages from 200...480V

Providing users with easy installation and ideal for mechanical fan and pump systems, the PowerFlex 400 AC drive offers a wide range of built-in features that allow for seamless building system integration. The PowerFlex 400 is designed to meet global OEM, contractor, and end-user demands for flexibility, space savings, and ease-of-use.

Attribute	Value
Ratings	
200...240V	2.2...37 kW/3...50 Hp/12...145 A
380...480V	2.2...250 kW/3...350 Hp/6...460 A
Motor Control	VHz Control
Enclosures	• IP20, NEMA/UL Type Open • Flange Mount • Front = IP20, NEMA/UL Type Open, Back/Heatsink = IP40/54/65, NEMA/UL Type 1/12/4/4X • IP30, NEMA/UL Type 1 (with optional kit)
Additional Features	PID/ PIP for fan and pump applications
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

1. Integral keypad included. NEMA/UL Type 4X remote and Type 1 handheld keypads are available.
2. Communications: Integral RS-485.
3. Embedded I/O: 7 digital inputs, 2 relay outputs, 2 analog inputs, 1 transistor, 2 analog outputs, and 1 PTC input. Extension option available.

For accessories and options, including HIMs, communication, and power conditioning options, see PowerFlex 400 AC Drive Specifications Technical Data, [22C-TD001](#).



Catalog Number Explanation

Catalog number positions 1...7 identify the product type and voltage rating.

1...3 4 5 6-8 9 10 11 12
 22C - D 038 A 1 0 3
 A B C D E F G

A		
Drive		
Code	Type	
22C	PowerFlex 400	
B		
Voltage Rating		
Code	Voltage	Phase
B	240V AC	3
D	480V AC	3

C1			
Rating			
200...240V Input			
Code	Amps	kW(Hp)	Frame
012	12	2.2 (3.0)	C
017	17.5	3.7 (5.0)	C
024	24	5.5 (7.5)	C
033	33	7.5 (10.0)	C
049	49	11 (15)	D
065	65	15 (20)	D
075	75	18.5 (25)	D
090	90	22 (30)	D
120	120	30 (40)	E
145	145	37 (50)	E

C2			
Rating			
380...480V Input			
Code	Amps	kW(Hp)	Frame
6P0	6	2.2 (3.0)	C
010	10.5	4.0 (5.0)	C
012	12	5.5 (7.5)	C
017	17	7.5 (10.0)	C
022	22	11 (15)	D
030	30	15 (20)	D
038	38	18.5 (25)	D
045	45.5	22 (30)	D
060	60	30 (40)	E
072	72	37 (50)	E
088	88	45 (60)	E
105	105	55 (75)	E
142	142	75 (100)	E
170	170	90 (125)	F
208	208	110 (150)	F
260	260	132 (200)	G
310	310	160 (250)	G
370	370	200 (300)	H
460	460	250 (350)	H

D	
Enclosure	
Code	Enclosure
N	Panel Mount - IP20 NEMA/UL Type Open ⁽¹⁾
A	Panel Mount - IP30 NEMA/UL Type 1 ⁽²⁾
F	Flange Mount - IP20 NEMA/UL Type Open ⁽³⁾

(1) Frame C drives only available with IP20, NEMA/UL Type Open enclosure. Field installed conversion kit available to achieve IP30, NEMA/UL Type 1 rating.

(2) Frame D, E, and F drives only available with IP30, NEMA/UL Type 1 enclosure.

(3) Frame C drives only.

E	
HIM	
Code	Interface Module
1	Fixed Keypad

F	
Emission Class	
Code	EMC Filter
0	No Filter

G	
Version	
Code	Description
3	No Brake IGBT

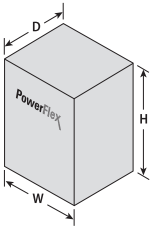
Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

Panel Mount

Frame	H	W	D	Weight ⁽¹⁾
C	260 (10.2) 320 (12.6) ⁽²⁾	130 (5.1)	180 (7.1)	7.49 (16.5)
D	436.2 (17.17)	250 (9.84)	206.1 (8.11)	15.6 (34.4)
E	605.5 (23.84)	370 (14.57)	259.2 (10.21)	51.2 (112.9)
F	850 (33.46)	425 (16.73)	280 (11.02)	88 (194)
G	892 (35.12)	425 (16.73)	264 (10.39)	106 (233.7)
H	1363.8 (53.69)	529.2 (20.83)	358.6 (14.12)	177 (390.2)

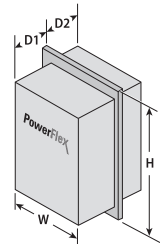
- (1) Weights are approximate. See the PowerFlex 400 User Manual, publication [22C-UM001](#), for detailed weight information.
- (2) Drive with IP30, NEMA 1/ULType 1 option kit installed.



Flange Mount

Frame	H	W	D1	D2	Weight ⁽¹⁾
C	325 (12.8)	300 (11.81)	105.8 (4.17)	138.2 (5.44)	3.85 (8.5)

- (1) Weights are approximate. See the PowerFlex 400 User Manual, publication [22C-UM001](#), for detailed weight information.



PowerFlex 4 AC Drives



Designed to meet global OEM and end-user demands for simplicity, space savings, and cost efficiency, this drive provides intuitive features such as an integral keypad with local potentiometer and control keys that are active right out of the box.

Attribute	Value
Ratings	100...120V 0.2...1.1 kW / 0.25...1.5 Hp / 1.5...6 A 200...240V 0.2...3.7 kW / 0.25...5 Hp / 1.4...17.5 A 380...480V 0.4...3.7 kW / 0.5...5 Hp / 1.4...8.7 A
Motor Control	VHz Control
Enclosures	- IP20, NEMA/UL Type Open - Plate Drive: Front = IP20, NEMA/ULType Open - Flange Mount: Front = IP20, NEMA/ULType; Open Back/Heatsink = IP40/54/65; NEMA/ULType 1/12/4/4X - IP30, NEMA/ULType 1 (with optional kit)

PowerFlex 40 AC Drives



The PowerFlex 40 AC drive gives OEMs, machine builders, and end users performance-enhancing motor control in an easy-to-use, compact package. The PowerFlex 40 features sensorless vector control to meet low speed torque demands that help improve application performance. With flexible packaging options and an uncomplicated programming structure, this drive can be quickly and easily installed and configured for various applications.

Attribute	Value
Ratings	100...120V 0.4...1.1 kW / 0.5...1.5 Hp / 2.3...6 A 200...240V 0.4...7.5 kW / 0.5...10 Hp / 2.3...33 A 380...480V 0.4...11 kW / 0.5...15 Hp / 1.4...24 A 500...600V 0.75...11 kW / 1...15 Hp / 1.7...19 A
Motor Control	VHz Control Sensorless Vector Control
Enclosures	- IP20, NEMA/UL Type Open - Plate Drive: Front = IP20, NEMA/ULType Open - Flange Mount: Front = IP20, NEMA/ULType; Open Back/Heatsink = IP40/54/65; NEMA/ULType 1/12/4/4X - IP30, NEMA/ULType 1 (with optional kit) - IP66, NEMA/ULType 4

For accessories and options, including HIMs and communication options, see PowerFlex 4 and 40 AC Drive Specifications Technical Data, publication [22-TD001](#).

PowerFlex 40P AC Drives



The PowerFlex 40P AC drive addresses user needs for closed loop control with an option for Category 3 Safe Torque Off in a compact and cost-effective design. Based on the popular PowerFlex 40, this drive is designed to meet global OEM and end-user demands for flexibility, space savings, and ease of use. This drive is a cost-effective alternative for speed or basic position control of applications such as diverters, smart conveyors, packaging machines, palletizers, drafting machines, ring spinning machines, and synthetic fiber spinning machines and shares common options and accessories with the PowerFlex 40.

Attribute	Value
Ratings	200...240V 0.4...7.5 kW / 0.5...10 Hp / 2.3...33 A 380...480V 0.4...11 kW / 0.5...15 Hp / 1.4...24 A 500...600V 0.75...11 kW / 1...15 Hp / 1.7...19 A
Motor Control	VHz Control Sensorless Vector Control
Enclosures	- IP20, NEMA/UL Type Open - Plate Drive: Front = IP20, NEMA/ULType Open - Flange Mount: Front = IP20, NEMA/ULType; Open Back/Heatsink = IP40/54/65; NEMA/ULType 1/12/4/4X - IP30, NEMA/ULType 1 (with optional kit)

For accessories and options, including HIMs and communication options, see PowerFlex 40P AC Drive Specifications Technical Data, publication [22D-TD001](#).

PowerFlex 523 AC Drives

0.2...22 kW/0.25...30 Hp in voltages from 100...600V

PowerFlex 523 AC drives are designed to help reduce installation and configuration time with an innovative modular design while providing just enough control for your application. These drives offer convenient programming features with the fast upload and download of configuration files over a standard USB connection, and installation flexibility with Zero-Stacking and a high ambient operating temperature. PowerFlex 523 AC drives also provide various motor control options, making these drives ideal for simple applications.

Attribute	Value
Ratings	100...120V 0.2...1.1 kW / 0.25...1.5 Hp / 1.6...6 A 200...240V 0.2...1.5 kW / 0.25...2.0 Hp / 1.6...6.2 A 380...480V 0.4...2.2 kW / 0.5...3.0 Hp / 1.4...4.3 A 525...600V 0.4...2.2 kW / 0.5...3.0 Hp / 0.9...3.2 A
Motor Control	VHz Control Sensorless Vector Control Sensorless Vector Control with Economizer
Enclosures	- IP20, NEMA/UL Type Open - IP30, NEMA/UL Type 1 (with optional kit)
Communication Options	- Option for dual-port EtherNet/IP adapter - DeviceNet and PROFIBUS DP adapters also available
Additional Features	- Automatic Device Configuration - Economizer motor control⁽¹⁾ - Conformal coating to IEC 60721 3C2 standards
Certifications	- c-UL-us - CE - EAC - KCC - RCM - RoHS - WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(1) Requires Dual-port EtherNet/IP Option Module (cat. no. 25-COMM-E2P).

1. LCD QuickView® Human Interface Module (HIM) with multi-language support in scrolling text.
2. Communications: Integral RS-485 with Modbus RTU/DSI. Other communication options available and can be added to the drive without size penalty.
3. Embedded I/O: 5 digital inputs, 1 analog input, 1 analog output (requires firmware revision 3 and Series B hardware), and 1 relay output.
4. Integral brake IGBT.

For accessories and options, including HIMs and communication options, see PowerFlex 523 and PowerFlex 525 AC Drive Specifications Technical Data, publication [520-TD001](#).



Catalog Number Explanation

1...3 4 5 6-8 9 10 11 12 13-14

25A - B 2P3 N 1 1 4

A B C D E F G

C

G

A	
Drive	
Code	Type
25A	PowerFlex 523
25B	PowerFlex 525

B		
Voltage Rating		
Code	Voltage	Phase
V	120V AC	1
A	240V AC	1
B	240V AC	3
D	480V AC	3
E	600V AC	3

C						
Output Current @ 1 Phase, 100...120V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	B
6P0	6.0	1.5	1.1	1.5	1.1	B

Output Current @ 1 Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	B
011	11.0	3.0	2.2	3.0	2.2	B

Output Current @ 3Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
5P0	5.0	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	A
011	11.0	3.0	2.2	3.0	2.2	A
017	17.5	5.0	4.0	5.0	4.0	B
024	24.0	7.5	5.5	7.5	5.5	C
032	32.2	10.0	7.5	10.0	7.5	D
048	48.3	15.0	11.0	10.0	7.5	E
062	62.1	20.0	15.0	15.0	11.0	E

Output Current @ 3Phase, 380...480V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P4	1.4	0.5	0.4	0.5	0.4	A
2P3	2.3	1.0	0.75	1.0	0.75	A
4P0	4.0	2.0	1.5	2.0	1.5	A
6P0	6.0	3.0	2.2	3.0	2.2	A
010	10.5	5.0	4.0	5.0	4.0	B
013	13.0	7.5	5.5	7.5	5.5	C
017	17.0	10.0	7.5	10.0	7.5	C
024	24.0	15.0	11.0	15.0	11.0	D
030	30.0	20.0	15.0	15.0	11.0	D
037	37.0	25.0	18.5	20.0	15.0	E
043	43.0	30.0	22.0	25.0	18.5	E

Output Current @ 3Phase, 525...600V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
0P9	0.9	0.5	0.4	0.5	0.4	A
1P7	1.7	1.0	0.75	1.0	0.75	A
3P0	3.0	2.0	1.5	2.0	1.5	A
4P2	4.2	3.0	2.2	3.0	2.2	A
6P6	6.6	5.0	4.0	5.0	4.0	B
9P9	9.9	7.5	5.5	7.5	5.5	C
012	12.0	10.0	7.5	10.0	7.5	C
019	19.0	15.0	11.0	15.0	11.0	D
022	22.0	20.0	15.0	15.0	11.0	D
027	27.0	25.0	18.5	20.0	15.0	E
032	32.0	30.0	22.0	25.0	18.5	E

D	
Enclosure	
Code	Enclosure
N	Panel Mount - IP20 NEMA/UL Type Open

E	
HIM	
Code	Interface Module
1	Standard

F	
Emission Class	
Code	EMC Filter
0	No Filter
1	Filter

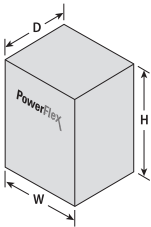
Braking	
Code	Description
4	Standard

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
A	152 (5.98)	72 (2.83)	172 (6.77)	1.1 (2.4)
B	180 (7.08)	87 (3.42)	172 (6.77)	1.6 (3.5)
C	220 (8.66)	109 (4.29)	184 (7.24)	2.3 (5.1)
D	260 (10.23)	130 (5.11)	212 (8.34)	3.2 (7.1)
E	300 (11.81)	185 (7.28)	279 (10.98)	12.9 (28.4)



PowerFlex 525 AC Drives

0.4...22 kW/0.5...30 Hp in voltages from 100...600V

PowerFlex 525 AC drives feature an innovative, modular design offering fast and easy installation and configuration. These cost-effective compact drives come with embedded EtherNet/IP™ communications, safety, USB configuration, and a high ambient operating temperature capability.

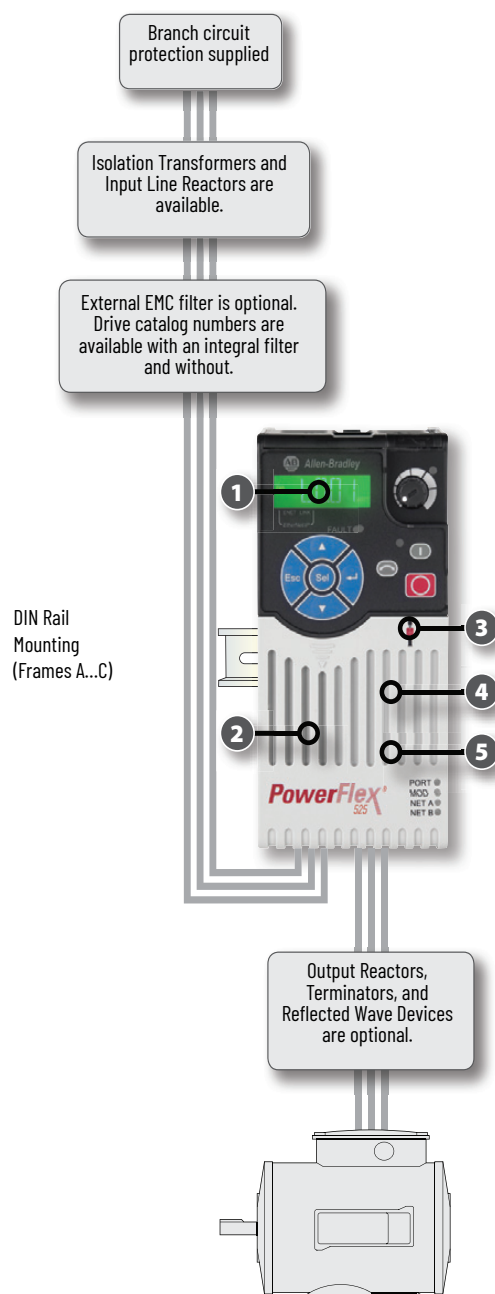
PowerFlex 525 AC drives also provide various motor control algorithms including volts per Hertz, sensorless vector control, closed loop velocity vector control, and permanent magnet motor control, making these drives ideal for a vast array of applications.

Attribute	Value
Ratings	100...120V 0.4...1.1 kW / 0.5...1.5 Hp / 2.5...6 A 200...240V 0.4...15 kW / 0.5...20 Hp / 2.5...62.1 A 380...480V 0.4...22 kW / 0.5...30 Hp / 1.4...43 A 525...600V 0.4...22 kW / 0.5...30 Hp / 0.9...32 A
Motor Control	• VHz Control • Closed Loop Velocity Vector Control • Sensorless Vector Control • Permanent Magnet Motor Control⁽¹⁾
Enclosures	• IP20, NEMA/UL Type Open • IP30, NEMA/UL Type 1 (with optional kit)
Communication Options	• Built-in EtherNet/IP port • Option for dual-port EtherNet/IP adapter • DeviceNet and PROFIBUS DP adapters also available
Additional Features	• Automatic Device Configuration • Economizer motor control • Conformal coating to IEC 60721 3C2 standards
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

(1) Requires firmware revision 5 or later; hardware change in not required.

1. LCD QuickView® Human Interface Module (HIM) with multi-language support in scrolling text.
2. Communications: Built-in EtherNet/IP port with option for dual-port EtherNet/IP adapter.
3. Machine safety with built-in Safe Torque Off SIL 2, PLd, cat. 3 (meets ISO 13849-1).
4. Embedded I/O: 7 digital inputs, 2 digital outputs, 2 analog inputs, 1 analog output, and 2 relay outputs.
5. Integral Brake IGBT Transistor.

For accessories and options, including HIMs and communication options, see PowerFlex 523 and PowerFlex 525 AC Drive Specifications Technical Data, publication [520-TD001](#).



Catalog Number Explanation

1...3

4

5

25B - B

A B

6-8

9

10

11

12

13-14

C D E F G

C

A	
Drive	
Code	Type
25A	PowerFlex 523
25B	PowerFlex 525

B		
Voltage Rating		
Code	Voltage	Phase
V	120V AC	1
A	240V AC	1
B	240V AC	3
D	480V AC	3
E	600V AC	3

C						
Output Current @ 1 Phase, 100...120V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	B
6P0	6.0	1.5	1.1	1.5	1.1	B

Output Current @ 1 Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	B
011	11.0	3.0	2.2	3.0	2.2	B

Output Current @ 3Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P6	1.6	0.25	0.2	0.25	0.2	A
2P5	2.5	0.5	0.4	0.5	0.4	A
5P0	5.0	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	A
011	11.0	3.0	2.2	3.0	2.2	A
017	17.5	5.0	4.0	5.0	4.0	B
024	24.0	7.5	5.5	7.5	5.5	C
032	32.2	10.0	7.5	10.0	7.5	D
048	48.3	15.0	11.0	10.0	7.5	E
062	62.1	20.0	15.0	15.0	11.0	E

Output Current @ 3Phase, 380...480V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P4	1.4	0.5	0.4	0.5	0.4	A
2P3	2.3	1.0	0.75	1.0	0.75	A
4P0	4.0	2.0	1.5	2.0	1.5	A
6P0	6.0	3.0	2.2	3.0	2.2	A
010	10.5	5.0	4.0	5.0	4.0	B
013	13.0	7.5	5.5	7.5	5.5	C
017	17.0	10.0	7.5	10.0	7.5	C
024	24.0	15.0	11.0	15.0	11.0	D
030	30.0	20.0	15.0	15.0	11.0	D
037	37.0	25.0	18.5	20.0	15.0	E
043	43.0	30.0	22.0	25.0	18.5	E

Output Current @ 3Phase, 525...600V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
0P9	0.9	0.5	0.4	0.5	0.4	A
1P7	1.7	1.0	0.75	1.0	0.75	A
3P0	3.0	2.0	1.5	2.0	1.5	A
4P2	4.2	3.0	2.2	3.0	2.2	A
6P6	6.6	5.0	4.0	5.0	4.0	B
9P9	9.9	7.5	5.5	7.5	5.5	C
012	12.0	10.0	7.5	10.0	7.5	C
019	19.0	15.0	11.0	15.0	11.0	D
022	22.0	20.0	15.0	15.0	11.0	D
027	27.0	25.0	18.5	20.0	15.0	E
032	32.0	30.0	22.0	25.0	18.5	E

D	
Enclosure	
Code	Enclosure
N	Panel Mount - IP20 NEMA/UL Type Open

E	
HIM	
Code	Interface Module
1	Standard

F	
Emission Class	
Code	EMC Filter
0	No Filter
1	Filter

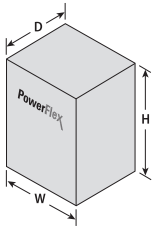
G	
Braking	
Code	Description
4	Standard

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
A	152 (5.98)	72 (2.83)	172 (6.77)	1.1 (2.4)
B	180 (7.08)	87 (3.42)	172 (6.77)	1.6 (3.5)
C	220 (8.66)	109 (4.29)	184 (7.24)	2.3 (5.1)
D	260 (10.23)	130 (5.11)	212 (8.34)	3.2 (7.1)
E	300 (11.81)	185 (7.28)	279 (10.98)	12.9 (28.4)



PowerFlex 527 AC Drives

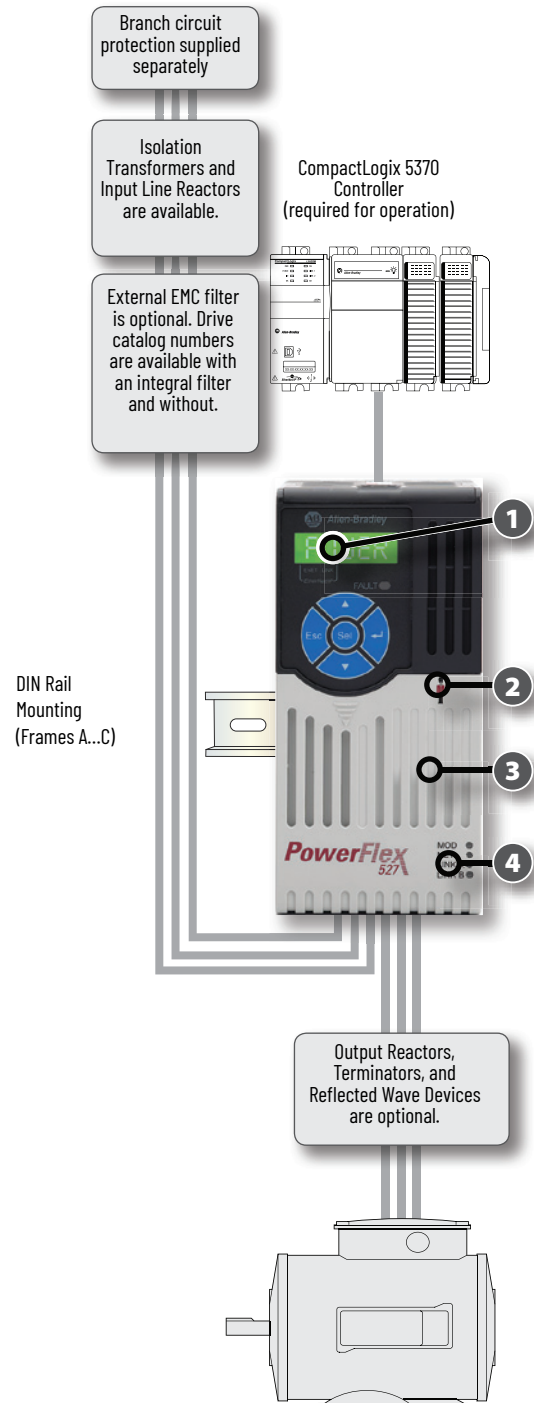
0.4...22 kW/0.5...30 Hp in voltages from 100...600V

PowerFlex 527 AC drives are the first compact PowerFlex drives designed to exclusively work with a Logix controller and programmed with Studio 5000® integrated motion instructions. The PowerFlex 527 drive is an ideal AC drive to complement machines already using Kinetix® servo drives. It features a built-in dual-port for EtherNet/IP hardwired and networked safety. Using the Studio 5000 environment, the configuration and programming experience saves startup time, and delivers a coordinated and synchronized machine.

Attribute	Value
Ratings	
100...120V	0.4...1.1 kW / 0.5...1.5 Hp / 2.5...6 A
200...240V	0.4...15 kW / 0.5...20 Hp / 2.5...62.1 A
380...480V	0.4...22 kW / 0.5...30 Hp / 1.4...43 A
525...600V	0.4...22 kW / 0.5...30 Hp / 0.9...32 A
Motor Control	- VHz Control - Closed Loop Velocity Vector Control - Sensorless Vector Control
Enclosures	- IP20, NEMA/UL Type Open - IP30, NEMA/UL Type 1 (with optional kit)
Safety	Built-in safety—hardwired or networked Safe Torque Off
Communication Options	Built-in dual-port for EtherNet/IP
Additional Features	- Automatic Device Configuration - Economizer motor control - Conformal coating to IEC 60721 3C2 standards - Optional encoder card
Certifications	- c-UL-us - CE - EAC - KCC - RCM - RoHS - WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

1. LCD QuickView® Human Interface Module (HIM) with multi-language support in scrolling text.
2. Choice of built-in hardwired or networked safety SIL 3, PLe, cat. 3. Built-in safety simplifies machine design and minimizes equipment redundancies.
3. Works exclusively with Logix controller. Program with motion instruction in the Studio 5000 Logix Designer® application allows a common user experience.
4. Communications: Built-in dual-port for EtherNet/IP.

For accessories and options, including HIMs and communication options, see PowerFlex 527 AC Drive Specifications Technical Data, publication [520-TD002](#).



Requires a Logix controller capable of supporting Motion Instructions at a minimum firmware revision of 24.

Catalog Number Explanation

1...3 4 5 6-8 9 10 11 12 13-14
 25C - B 2P3 N 1 1 4
 A B C D E F G

A	
Drive	
Code	Type
25C	PowerFlex 527

B		
Voltage Rating		
Code	Voltage	Phase
V	120V AC	1
A	240V AC	1
B	240V AC	3
D	480V AC	3
E	600V AC	3

C						
Output Current @ 1 Phase, 100...120V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	B
6P0	6.0	1.5	1.1	1.5	1.1	B

Output Current @ 1 Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
2P5	2.5	0.5	0.4	0.5	0.4	A
4P8	4.8	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	B
0T1	11.0	3.0	2.2	3.0	2.2	B

Output Current @ 3Phase, 200...240V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
2P5	2.5	0.5	0.4	0.5	0.4	A
5P0	5.0	1.0	0.75	1.0	0.75	A
8P0	8.0	2.0	1.5	2.0	1.5	A
0T1	11.0	3.0	2.2	3.0	2.2	A
0T7	17.5	5.0	4.0	5.0	4.0	B
024	24.0	7.5	5.5	7.5	5.5	C
032	32.2	10.0	7.5	10.0	7.5	D
048	48.3	15.0	11.0	10.0	7.5	E
062	62.1	20.0	15.0	15.0	11.0	E

Output Current @ 3Phase, 380...480V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
1P4	1.4	0.5	0.4	0.5	0.4	A
2P3	2.3	1.0	0.75	1.0	0.75	A
4P0	4.0	2.0	1.5	2.0	1.5	A
6P0	6.0	3.0	2.2	3.0	2.2	A
0T0	10.5	5.0	4.0	5.0	4.0	B
0T3	13.0	7.5	5.5	7.5	5.5	C
0T7	17.0	10.0	7.5	10.0	7.5	C
024	24.0	15.0	11.0	15.0	11.0	D
030	30.0	20.0	15.0	15.0	11.0	D
037	37.0	25.0	18.5	20.0	15.0	E
043	43.0	30.0	22.0	25.0	18.5	E

Output Current @ 3Phase, 525...600V Input						
Code	Amps	ND		HD		Frame
		HP	kW	HP	kW	
0P9	0.9	0.5	0.4	0.5	0.4	A
1P7	1.7	1.0	0.75	1.0	0.75	A
3P0	3.0	2.0	1.5	2.0	1.5	A
4P2	4.2	3.0	2.2	3.0	2.2	A
6P6	6.6	5.0	4.0	5.0	4.0	B
9P9	9.9	7.5	5.5	7.5	5.5	C
0T2	12.0	10.0	7.5	10.0	7.5	C
0T9	19.0	15.0	11.0	15.0	11.0	D
022	22.0	20.0	15.0	15.0	11.0	D
027	27.0	25.0	18.5	20.0	15.0	E
032	32.0	30.0	22.0	25.0	18.5	E

D	
Enclosure	
Code	Enclosure
N	Panel Mount - IP20 NEMA/UL Type Open

E	
HIM	
Code	Interface Module
1	Standard

F	
Emission Class	
Code	EMC Filter
0	No Filter
1	Filter

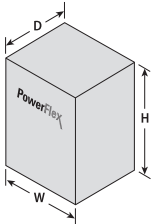
G	
Braking	
Code	Description
4	Standard

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
A	152 (5.98)	72 (2.83)	172 (6.77)	1.1 (2.4)
B	180 (7.08)	87 (3.42)	172 (6.77)	1.6 (3.5)
C	220 (8.66)	109 (4.29)	184 (7.24)	2.3 (5.1)
D	260 (10.23)	130 (5.11)	212 (8.34)	3.2 (7.1)
E	300 (11.81)	185 (7.28)	279 (10.98)	12.9 (28.4)



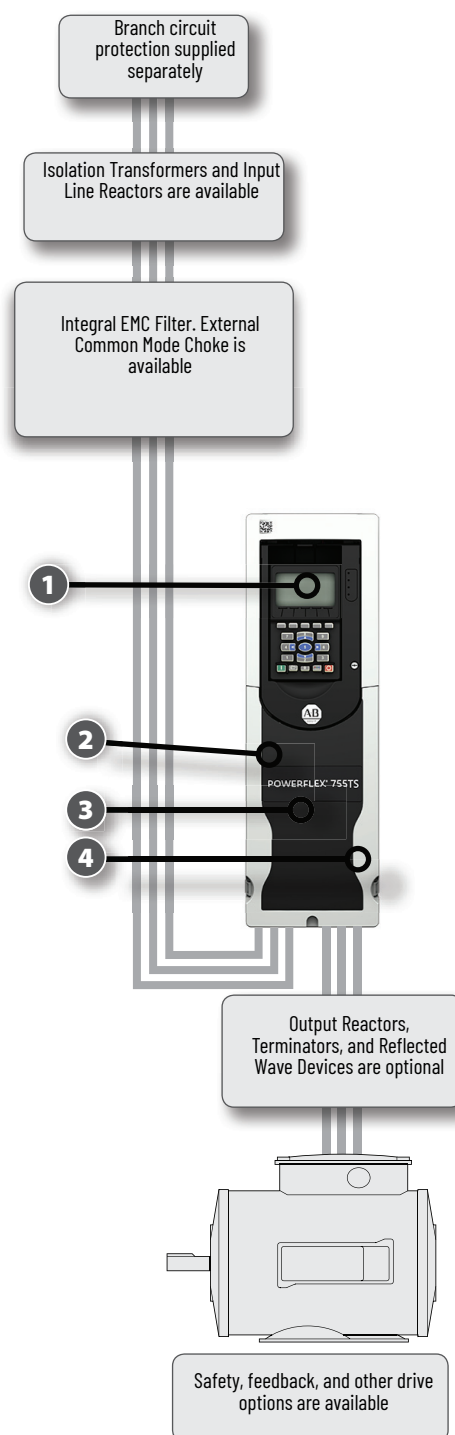
PowerFlex 755TS AC Drives

0.75...270 kW/1...400 Hp

The PowerFlex® 755TS drive is a scalable, next generation PowerFlex drive designed to meet your application needs. TotalFORCE® can now be used in a wider range of applications. This includes traditional applications as well as more advanced motor control processes that require high-performance such as cranes and hoists, presses, winders, and flying shears.

Attribute	Value
Ratings	755TS
200V	0.37...132 kW
240V	0.5...200 Hp
400V	0.75...355 kW
480V	1...500 Hp
600V	1...300 Hp
690V	7.5...250 kW
Motor Control	• Sensorless vector • Flux vector control • Volts per Hertz • Economizer • Permanent magnet motor control • Synchronous reluctance
Enclosures	• IP20, UL Open Type, Frame 1 • Flange, UL Type 4X/12 back • IP54, UL Type 12 • IP20/IP00, UL Open Type
Safety	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Networked Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 • Networked Integrated Safety Functions SIL CL 3 and PLe Cat 4
Additional Features	• Optional enhanced corrosive gas protection (XT) • TotalFORCE technology with patented features to help optimize your system and maintain productivity • Predictive diagnostics and maintenance • Simplified migration from PowerFlex 755 with identical mechanical and electrical characteristics • High power density with compact footprint • TorqProve™ for lifting applications • Five option slots for I/O, feedback, safety, auxiliary control power, communications
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • Seismic For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

For accessories and options, including HIMs and communication options, see PowerFlex 755TS Products with TotalFORCE Control Specifications Technical Data, publication [750-TD104](#).



1. LCD HIM with multi-language support in scrolling text available as optional accessory.
2. Communications: Embedded Dual Port EtherNet/IP
3. Embedded I/O: 1 Digital Input.
4. Integral brake transistor on Frames 1...5, optional on Frames 6...7. Optional resistors are available. See [755TS Catalog Number Explanation on page 36](#).

755TS Catalog Number Explanation

Catalog number positions 1...7 identify the product type and voltage rating.

1...3

4

5

6

7

8...10

11

12

13

14

15

16

17

18

20G2ANOD248ANONNNNN

A B C D E

A		
Drive		
Code	Type	Frames
20G	PowerFlex 755	1...7A

B		
Corrosion and Control Protection		
Code	Description	Frames
2	Standard Protection	1...7A
E	Enhanced Corrosive Gas Protection (XT)	1...7

C		
Input Type		
Code	Description	Frames
1	AC Input with Precharge, includes DC Terminals	1...5
4	DC Input with Precharge	5...7
A	AC Input with Precharge, no DC Terminals	6...7A ⁽¹⁾

(1) The DC Bus Bar kit (20-750-DCBB3-Fn) is only available for Frames 6 and 7 AC input drives that require DC bus terminals. Not available for frame 7A.

D		
Enclosure		
Code	Description	Frames
R	IP20, NEMA/UL Type Open, Frame 1	1
F ⁽¹⁾	Flange (NEMA/UL Type 4X/12 back)	2...5
G	IP54, NEMA/UL Type 12	2...7
N ⁽²⁾	IP20/IP00, NEMA/UL Type Open	2...7A

(1) For Frames 6...7, a user installed flange kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
(2) Frames 2...5 are IP20, Frames 6...7A are IP00.

E	
Voltage Rating	
Code	Voltage
B	240V AC (208V AC) ⁽¹⁾ / 325V DC (281V DC) ⁽¹⁾
C	400V AC/540V DC
D	480V AC/650V DC
E	600V AC/810V DC
F	690V AC/932V DC (not UL Listed)

(1) Drive must be programmed to obtain low (208V AC) voltage rating.

Catalog number positions 8...10 identify the product normal duty rating.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18
20G	2	A	N	D	248	A	N	O	N	N	N	N	N
F1...F2													

F1

ND Rating1														
208V ⁽¹⁾ , 60 Hz Input														
Code	Amps	kW	Frame											
			Enclosure Code											
			B, J, L, T	F	G	N	K, P, W, Y	R						
2P2	2.5	0.37	—	2	2	2	—	1						
4P2	4.8	0.75												
6P8	7.8	1.5												
9P6	11	2.2												
015	15.3	4												
022	22	5.5												
028	32.2	7.5		3	3	3		—						
042	43	11												
054	60	15												
055	61	15		—	—	3								
070	78.2	18.2		5	5	5								
071	79	18.2		4	—	4								
080	92	22		5	6	5		—						
104	120	30		6 ⁽²⁾		6								
130	150	37												
154	177	45												
192	221	55												
260	260	66		7	7									
312	359	90							7 ⁽²⁾					
360	414	110												
477	477	132		—	—	—								

(1) Drive must be programmed to obtain low (208V AC) voltage rating.

(2) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

F2

ND Rating											
240V, 60 Hz Input											
Code	Amps	Hp	Frame								
			Enclosure Code								
			B, J, L, T	F	G	N	K, P, W, Y	R			
2P2	2.2	0.5	—	2	2	2	—	1			
4P2	4.2	1									
6P8	6.8	2									
9P6	9.6	3									
015	15	5									
022	22	7.5									
028	28	10		3	3	3		—			
042	42	15									
054	54	20									
055	55	20		—	—	3					
070	70	25		5	5	5					
071	71	25		4	—	4					
080	80	30		5	6	5		—			
104	104	40		6 ⁽¹⁾		6					
130	130	50									
154	154	60									
192	192	75									
260	260	100		7 ⁽¹⁾	7						
312	312	125									
360	360	150									
477	477	200		—	—	—					

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

Catalog number positions 8...10 identify the product normal duty rating.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18
20G	2	A	N	D	248	A	N	O	N	N	N	N	N
F3...F4													

F3											
ND Rating											
400V, 50 Hz Input											
Code	Amps	kW	Frame								
			Enclosure Code								
			B, J, L, T	F	G	N	K, P, W, Y	R			
2P1	2.1	0.75	-	2	2	2	-	1			
3P5	3.5	1.5									
5P0	5	2.2									
8P7	8.7	4									
011	11.5	5.5									
015	15.4	7.5									
022	22	11									
030	30	15						-			
037	37	18.5		3	3	3					
043	43	22									
060	60	30									
061	61	30		-	-	3					
072	72	37		4	5	4					
073	73	37		-	4	-					
085	85	45		5	5	5					
086	86	45		4	-	4					
104	104	55		5	6	5					
140	140	75		6 ⁽¹⁾		6					
170	170	90									
205	205	110									
260	260	132									
302	302	160		7 ⁽¹⁾	7	7					
367	367	200									
456	456	250									
477	477	270									
567	567	315		-	-	7A					
650	650	355									

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

F4										
ND Rating										
480V, 60 Hz Input										
Code	Amps	Hp	Frame							
			Enclosure Code							
			B, J, L, T	F	G	N	K, P, W, Y	R		
2P1	2.1	1	-	2	2	2	-	1		
3P4	3.4	2								
5P0	5	3								
8P0	8	5								
011	11	7.5								
014	14	10								
022	22	15								
027	27	20		3	3	3				
034	34	25								
040	40	30								
052	52	40		4	4	4				
053	53	40		—	—	3				
065	65	50		4	5	4				
066	66	50		—	4	—				
077	77	60		5	5	5				
078	78	60		4	—	4				
096	96	75		5	6	5				
125	125	100		6 ⁽¹⁾		6				
156	156	125								
186	186	150								
248	248	200								
302	302	250		7 ⁽¹⁾	7	7				
361	361	300								
415	415	350								
477	477	400								
545	545	450		—	—	7A				
617	617	500								

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

Catalog number positions 8...10 identify the product normal duty rating.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18
20G	2	A	N	D	248	A	N	O	N	N	N	N	N
F5...F6													

F5

ND Rating								
600V, 60 Hz Input								
Code	Amps	kW	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R
1P7	1.7	1	-	3	3	3	-	-
2P7	2.7	2						
3P9	3.9	3						
6P1	6.1	5						
9P0	9	7.5						
011	11	10						
012 ⁽¹⁾	12	10		—	6	6		
017	17	15		3	3	3		
018 ⁽¹⁾	18	15		—	6	6		
022	22	20		3	3	3		
023 ⁽¹⁾	23	20		—	6	6		
024 ⁽¹⁾	24	20						
027	27	25						
028 ⁽¹⁾	28	25						
032	32	30						
033 ⁽¹⁾	33	30						
041	41	40		5	5	5		
042 ⁽¹⁾	42	40		—	6	6		
052	52	50		5	—	5		
053 ⁽¹⁾	53	50		6 ⁽²⁾	6	6		
063	63	60						
077	77	75						
099	99	100						
125	125	125						
144	144	150						
192	192	200		7 ⁽²⁾	7	7		
242	242	250						
289	289	300						

F6

ND Rating								
690V, 50 Hz Input (not UL Listed)								
Code	Amps	Hp	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R
012	12	7.5	—	6 ⁽¹⁾	6	6	—	—
015	15	11						
020	20	15						
023	23	18.5						
030	30	22						
034	34	30						
046	46	37						
050	50	45						
061	61	55						
082	82	75						
098	98	90						
119	119	110						
142	142	132						
171	171	160						
212	212	200		7 ⁽¹⁾	7	7		
263	263	250						

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

- (1) Required for uncontrolled common DC bus applications. Optional for all AC applications.
 (2) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

Catalog number positions 11...13 identify additional product configuration.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18
20G	2	A	N	D	248	J	N	O	N	N	N	N	N
						G	H	I					

G

Filtering and CM Cap Configuration		
Code	Filtering	Default CM Cap Connection
J ⁽¹⁾	Yes	Jumper Installed

(1) PowerFlex 750TS Series A will only allow code J. CM jumpers will always be installed at the factory.

H

Dynamic Braking		
Code	Internal Resistor ⁽¹⁾	Internal Transistor ⁽²⁾
A	No	Yes
N	No	No

(1) Frames 1...2 only. Internal Resistor kits (20-750-DB1-Dx) sold separately.
(2) Standard on Frames 1...5, optional on 6...7.

I

Human Interface Module (HIM)	
Code	Operator Interface
0	No HIM

Catalog number positions 14...18 are not used.

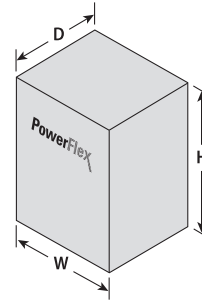
1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18
20G	2	A	N	D	248	A	N	O	N	N	N	N	N

Approximate Dimensions and Weights Frames (1...7)

Dimensions are in mm (in.) - weights are in kg (lb)

IP00/IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
1	400.5 (15.77)	110 (4.33)	211 (8.31)	6 (12.75)
2	424.2 (16.7)	134.5 (5.3)	212 (8.35)	7.8 (17.2)
3	454 (17.87)	190 (7.48)		11.8 (26.1)
4	474 (18.66)	222 (8.74)		13.6 (30)
5	550 (21.65)	270 (10.63)		20.4 (45)
6	665.5 (26.2)	308 (12.13)	346.4 (13.64)	38.6 (85)
7	881.5 (34.7)	430 (16.93)	349.6 (13.76)	72.6...108.9 (160...240)

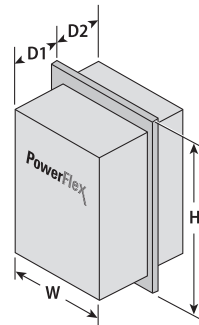


IP54, NEMA/UL Type 12

Frame	H	W	D	Weight
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8 (17)
3	551 (21.69)	268 (10.55)	220.1 (8.67)	12 (26)
4	571 (22.48)	300 (11.81)		14 (30)
5	647 (25.47)	348.0 (13.7)		20 (45)
6	1298.3 (51.11)	609.4 (24)	464.7 (18.3)	91 (200)
7	1614 (63.54)			162 (357)

Flange Mount

Frame	H	W	D1	D2	Weight
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8 (17)
3	515 (20.28)	260 (10.24)	127.4 (5.02)	84.6 (3.33)	12 (26)
4	535 (21.06)	292 (11.5)			14 (30)
5	611 (24.06)	340 (13.39)			20 (45)
6	665.5 (26.2)	308 (12.13)	208.4 (8.2)	138 (5.43)	38 (84)
7	875 (34.45)	430 (16.93)			96 (212)



PowerFlex 755TL/TR AC Drives

7.5...4550 kW/10...6000 Hp from 400...690V

The Allen-Bradley® PowerFlex 755TL and 755TR drives expand the proven PowerFlex 750 drive portfolio and provide solutions for harmonic mitigation and regeneration. The drives offer energy-saving features and a world-class footprint along with simplified installation and startup.

The new PowerFlex drives use TotalFORCE® technology to deliver exceptional motor control through precise, adaptive control of torque, velocity, and position. TotalFORCE technology incorporates several patented features that are designed to help optimize your system and maintain productivity through improved machine uptime.

PowerFlex 755TL/TR products have been enhanced to include enhanced corrosive gas protection (XT), providing leading electronics reliability and suitability for industrial environments with corrosive atmospheres.

Attribute	Value	
Ratings	755TL	755TR
400V	7.5...1250 kW	7.5...3640 kW
480V	10...1800 Hp	10...6000 Hp
600V	10...1500 Hp	10...2500 Hp
690V	11...1400 kW	11...4596 kW
Motor Control	• VHz Control • Economizer • Field-oriented Control • Sensorless Vector Control • Flux Vector Control	• Interior Permanent Magnet (IPM) • Surface-mounted Permanent Magnet (SPM) • Synchronous Reluctance • Induction
Enclosures	• IP21, UL Type 1 • Open Type/IP00	• IP54, UL Type 12
Safety	• Hardwired Safe Torque Off SIL 3, PLe, cat. 3 • Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4	• Networked Safe Torque Off SIL 3, PLe, cat. 3 • Networked Integrated Safety Functions SIL 3, PLe, cat. 4
Additional Features	• Regenerative power supply ride-through control • TotalFORCE Technology • Energy-efficient regenerative capability • Provides harmonic mitigation and power factor correction • Optional built-in Dv/Dt filter designed to mitigate reflective wave phenomenon • Modular construction for easy install and maintenance • Built-in dual-port EtherNet/IP • Predictive diagnostics help monitor drive components • Liquid cooling available for specific ratings (PowerFlex 755TR only)	• Embedded DeviceLogix™ control • Adaptive tuning • Bus Observer • Load Observer • LCL Filter Resonance and failure detection • Auto Restart • Start at power-up • Emergency Override • Energy Pause • TorqProve™ • Line voltage and current imbalance detection
Certifications	• c-UL-us • CE • EAC • KCC	• RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

Control and Power Options for PowerFlex 755TL and TR Drives

Pre-engineered, factory-installed options are available with the PowerFlex 755TL and 755TR drives.

For accessories and options, including HIMs and communication options, see PowerFlex 750-Series AC Drive Specifications Technical Data, publication [750-TD100](#).



1. AC precharge
2. LCL Filter
3. Line Side Converter
4. Motor Side Inverter
5. IP21/IP54 Enclosures
6. Control Pod

PowerFlex 755TL AC Drive

The PowerFlex 755TL drive provides harmonic mitigation and power factor correction by using Regenerative Power Supply technology. By reducing the adverse effects of harmonic distortion, the drive helps to improve energy efficiency, reduce energy costs and minimize power distribution issues on the factory floor. In addition, new TotalFORCE technology delivers exceptional motor control through precise, adaptive control of torque, velocity, and position with patented features that are designed to help optimize your system and maintain productivity.

PowerFlex 755TR AC Drive

The PowerFlex 755TR drive has built-in regeneration capability that helps reduce energy consumption by delivering regenerative energy from motors back to the incoming supply. Line regeneration can reduce the need for braking resistors and associated cooling equipment and helps avoid wasteful dissipation of energy. The drive also offers harmonic mitigation and the benefits of TotalFORCE technology and a world-class footprint and simplified startup and installation.

PowerFlex 755TM Drive Systems

PowerFlex 755TM drive systems enable coordination of multiple motors based on two main building blocks: regenerative and non-regenerative common bus supplies and common bus inverters. For more information, see [PowerFlex Drives Common Bus Solutions on page 69](#).

Catalog Number Explanation

Catalog number positions 1...7 identify the product type and voltage rating.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	
20G	E	G	3	D	740	L	N	A	N	N	N	N	N	-C0-P15...
A	B	C	D	E										

A		
Drive		
Code	Type	Frames
20G	PowerFlex 755TL Drives	5...10
	PowerFlex 755TR Drives	5...15, and 6L
	PowerFlex 755TM Common Bus Inverters	8...15
20J	PowerFlex 755TM Bus Supplies	6...15

B			
Corrosive Gas Protection and Cooling Type			
Code	Description	Frames	Firmware
E	Corrosive Gas Protection (XT), Forced Air	5...15	10.xxx and later
4	Corrosive Gas Protection (XT), Liquid Cooled	6L	13.xxx and later

C		
Input Type		
Code	Description	Frames
6	Regenerative and Low Harmonic, 755TR Drives	5, 6, 6L, and 7
	Regenerative and Low Harmonic, 755TM Bus Supplies	6...7
7	Low Harmonic, 755TL Drives	5...7
D	Common Bus with DC Precharge	8...15
E	Common Bus without DC Precharge	8...15
F	Regenerative and Low Harmonic, 755TR Drives	8...15
	Regenerative and Low Harmonic, 755TM Bus Supplies	8...15
G	Low Harmonic , 755TL Drives	8...10

D		
Enclosure		
Code	Description	Frames
N	IP00, UL Open Type	5, 6, and 6L
	IP20, UL Type 1; Floor Mount	7 ⁽¹⁾
3	IP21, UL Type 1; Floor Mount	7...15
4	IP54, UL Type 12; Floor Mount	7...15

(1) Only select code N for frame 7 drives when selecting the EMC C2 solution in Table I.

E	
Voltage Rating	
Code	Voltage
C	400V AC; 3 PH
D	480V AC; 3 PH
E	600V AC; 3 PH
F	690V AC; 3 PH

Catalog number positions 8...10 identify the product normal duty rating.

1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18
 20G 1 G 3 D 740 L N A N N N N N -CO-P15...
F1...F4

F1

PowerFlex 755T ND Drive Ratings			
400V, 50 Hz Input			
Code	Amps	kW	Frame
015	15.4	7.5	5
022	22	11	
030	30	15	
037	37	18.5	
043	43	22	
060	60	30	
072	72	37	
085	85	45	
104	104	55	
140	140	75	
176	170	90	6
205	205	110	
260	260	132	
360	361	200	6L
302	302	160	7
367	367	200	
460	460	250	
540	540	315	
585	600	315	
302	302	160	8
367	367	200	
460	460	250	
540	540	315	
585	585	315	
650	650	355	
750	750	400	
770	770	400	
920	920	500	9
1K0	1040	560	
1K1	1112	630	
1K2	1175	710	
1K4	1463	800	
1K6	1590	850	10
1K7	1715	1000	
2K1	2156	1250	
2K8	2849	1650	11
3K5	3542	2000	12
4K2	4235	2200	13
5K6	5621	2920	14
7K0	7007	3640	15

F2

PowerFlex 755T ND Drive Ratings			
480V, 60 Hz Input			
Code	Amps	Hp	Frame
014	14	10	5
022	22	15	
027	27	20	
034	34	25	
040	40	30	
052	52	40	
065	65	50	
077	77	60	
096	96	75	
125	125	100	
156	156	125	6
186	186	150	
248	248	200	
360	361	300	6L
302	302	250	7
361	361	300	
430	430	350	
505	505	400	
617	600	500	
302	302	250	8
361	361	300	
430	430	350	
505	505	400	
545	545	450	
617	617	500	
710	710	600	
740	740	650	
800	800	700	9
960	960	800	
1K0	1045	900	
1K1	1135	1000	
1K3	1365	1100	
1K4	1420	1250	10
1K6	1655	1500	
2K0	2072	1800	
2K6	2738	2400	11
3K4	3404	3000	12
4K0	4070	3600	13
5K4	5402	4800	14
6K7	6734	6000	15

F3			
PowerFlex 755T ND Drive Ratings			
600V, 60 Hz Input			
Code	Amps	Hp	Frame
011	11	10	5
017	17	15	
022	22	20	
027	27	25	
032	32	30	
041	41	40	
052	52	50	
062	62	60	
077	77	75	6
099	99	100	
125	125	125	
144	144	150	
192	192	200	7
242	242	250	
295	295	300	
355	355	350	
395	395	400	
242	242	250	8
295	295	300	
355	355	350	
395	395	400	
435	435	450	
545	545	550	9
595	580	600	
690	690	700	
760	760	800	
825	825	900	
980	980	1000	10
1K1	1045	1100	
1K2	1220	1250	
1K5	1430	1500	11
2K0	1946	2000	
2K4	2420	2500	
2K9	2998	3100	
3K9	3979	4100	
4K9	4960	5100	

F4			
PowerFlex 755T ND Drive Ratings			
690V, 50 Hz Input			
Code	Amps	kW	Frame
015	15	11	5
020	20	15	
023	23	18.5	
030	30	22	
034	34	30	
046	46	37	
050	50	45	
061	61	55	
082	82	75	6
098	98	90	
119	119	110	
142	142	132	
171	171	160	7
215	215	200	
265	265	250	
330	330	315	
370	370	355	
215	215	200	8
265	265	250	
330	330	315	
370	370	355	
415	415	400	
505	505	500	9
565	565	560	
650	650	630	
735	735	710	
820	820	800	
920	920	900	10
1K0	1030	1000	
1K1	1150	1100	
1K4	1419	1400	11
1K8	1865	1800	
2K3	2318	2300	
2K7	2778	2750	
3K6	3687	3650	
4K5	4596	4550	

Catalog number positions 11...13 identify additional product configuration.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	
20G	1	G	3	D	740	L	N	A	N	N	N	N	N	-CO-P15...
						I	J	K						
						I								

Filtering and CM Cap Configuration

Code	EMC Filtering ⁽¹⁾	PE-A ⁽²⁾	PE-B	DR ⁽³⁾	Reflective Wave Filtering	Frames
J ⁽⁴⁾	Yes	Installed	Removed	—	No	8...15
K ⁽⁴⁾	Yes	Installed	Removed	—	Yes	8...15
L ⁽⁵⁾	No	Installed	Removed	Installed	No	5...15, and 6L
M ⁽⁵⁾	No	Installed	Removed	—	Yes	8...15
P ⁽⁶⁾	Yes	Installed	Removed	—	No	7

(1) EMC C2 rating, conducted only (IP20), is provided by 'P' filtering option for frame 7; C2 solutions kits are also available for frames 5, 6, 6L, and 8...10.

(2) Configuration does not apply to product type 20G with input types D and E. PE-A jumpers are removed when bus conditioner for marine applications (-P51) is selected.

(3) The DR jumper only applies to frame 5, 6, 6L, and 7 drives.

(4) Does not provide a C2 solution (C3 compliant), but does include some filtering.

(5) C3 compliant without additional filtering.

(6) Filtering with C2 compliance.

J

Dynamic Braking ⁽¹⁾

Code	Internal Resistor	Internal Transistor	Frames
N	No	No	5...15, and 6L

(1) Not available on Frames 8...15, specify Code 'N'.

K

Door-mounted HIM (Frames 7...15)

Code	Operator Interface and Control	Frames
A	No HIM with TotalFORCE Control	5...15, and 6L
D	Enhanced LCD, Full Numeric, IP66, NEMA Type 4X/12 with TotalFORCE Control	7...15

Catalog number positions 14...18 are not used.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	
20G	1	G	3	D	740	L	N	A	N	N	N	N	N	-CO-P15...

Power and control options are listed in the unnumbered field to right of position 18.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	
20G	1	G	3	D	740	L	N	A	N	N	N	N	N	-CO-P15...

20G Control Options Selection

Code	Option	Frames	Input Type
C0	Torque Accuracy Module	5...12, and 6L	D, E, F, G, 6, 7
		13...15	D, E
C11	Single Pod (with Control Bay) ⁽¹⁾	8...15	D, E
C12	Dual Pod (with Control Bay) ⁽¹⁾	8...15	D, E

(1) When code 'D' is selected in position 13, code C11 includes one door-mounted HIM and code C12 includes two door-mounted HIMs.

20J Control Options Selection

Code	Option	Frames	Input Type
C1	Control Transformer (Internal 240V) ⁽¹⁾	8...15	F

(1) This option only applies to 755TM regenerative and low harmonic bus supplies. If this option is not selected, a 240V AC, single-phase, neutral grounded external power source must be supplied by the customer.

20G Power Options Selection

Code	Option	Frames	Input Type
P15	Top Cable Exit with wiring bay	8...15	D, E, F, G
P16	Top Cable Entry with wiring bay	10...15	F, G
P17	Top Cable Entry no wiring bay	8...9	F, G
P46	System DC Bus (4700 Amp)	8...10	D, E, F, G
P50	DC Bus Conditioner	8...15	D, E, F, G
P51	DC Bus Conditioner - Marine Applications	5...12, and 6L	D, E, F, G, 6, 7
P60	Back-to-back configuration	13...15	D, E, F, G

20J Power Options Selection

Code	Option	Frames	Input Type
P16	Top Cable Entry with wiring bay	10...15	F
P17	Top Cable Entry no wiring bay	8...9	F
P46	System DC Bus (4700 Amp)	8...10	F
P50	DC Bus Conditioner	8...15	F
P51	DC Bus Conditioner - Marine Applications	8...15	F

Approximate Dimensions and Weights

Frames 5...7

Frame Size	Input Voltage	Normal Duty Rating	Without Conduit Box				With Conduit Box			
			Width	Depth	Height	Weight	Width	Depth	Height	Weight
5	400	7.5...55 kW	343 (13.5)	356 (14)	863 (34)	85 (187)	343 (13.5)	356 (14)	1125 (44.3)	85 (187)
	480	10...60 Hp								
	600	10...50 Hp								
	690	11...55 kW								
6	400	75...132kW	404 (15.9)	361 (14.2)	1656 (65.2)	158 (349)	404 (15.9)	432 (17)	1877 (73.9)	158 (349)
	480	75...200 Hp								
	600	60...125 Hp								
	690	75...132 kW								
6L	400	200 kW	390 (15.3)	566 (22.3)	972 (38.3)	—	—	—	—	—
	480	300 Hp								
Frame Size	Input Voltage	Normal Duty Rating	IP21 Enclosure				IP54 Enclosure			
			Width	Depth	Height	Weight	Width	Depth	Height	Weight
7	400	160...315 kW	800 (31.5)	676 (26.6)	2131 (83.9)	596 (1315)	800 (31.5)	721 (28.4)	2291 (90.2)	596 (1315)
	480	250...500 Hp								
	600	150...400 Hp								
	690	160...355 kW								

Frames 8...12

Frame	Input Voltage	Normal Duty Rating	Width	Combined Width - Drive with Optional Wiring Bays			Depth		Height		Weight	
			Drive	With Entry Bay	With Exit Bay	With Both Bays	IP21	IP54	IP21	IP54	Without Filter	With Filter
8	400	160...400 kW	1200 (47.2)	(1)	1600 (63)	(1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	861.8 (1900)	920.8 (2030)
	480	250...650 Hp										
	600	250...550 Hp										
	690	200...500 kW										
9	400	400...800 kW	2000 (78.7)	(1)	2400 (94.5)	(1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	1360.8 (3000)	1419.7 (3130)
	480	650...1100 Hp										
	600	550...1000 Hp										
	690	500...900 kW										
10	400	800...1250 kW	3200 (126)	3600 (141.7)	3600 (141.7)	4000 (157.5)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	2925.7 (6450)	3043.6 (6710)
	480	1100...1800 Hp										
	600	1000...1500 Hp										
	690	900...1400 kW										
11	400	1200...1650 kW	3800 (149.6)	4600 (181.1)	4600 (181.1)	5400 (212.6)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	3447.3 (7600)	3565.2 (7860)
	480	1800...2400 Hp										
	600	1500...2000 Hp										
	690	1400...1800 kW										
12	400	1650...2000 kW	4600 (181.1)	5400 (212.6)	5400 (212.6)	6200 (244.1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	4286 (9450)	4463.3 (9840)
	480	2400...3000 Hp										
	600	2000...2500 Hp										
	690	1800...2300 kW										

(1) Optional wiring bay is not required for top entry of power cables.

Frames 13...15

Frame Size	Input Voltage	Normal Duty Rating	In-line Dimensions							Back to Back Dimensions								
			Length	Depth		Height		Square Footage (m ²)		Weight	Length (mm)	Depth (mm)		Height (mm)		Square Footage (m ²)		Weight
				IP21	IP54	IP21	IP54	IP21	IP54			IP21	IP54	IP21	IP54	IP21	IP54	
13	400	2200 kW	8000 (314.8)	676 (26.6)	721 (28.4)	2132 (83.9)	2291 (90.2)	5.41	5.77	6984 (15,397)	4000 (157.4)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	5.41	5.77	7030 (15,498)
	480	3600 Hp																
	600	3100 Hp																
	690	2750 kW																
14	400	2920 kW	10,800 (425.2)					7.30	7.79	9122 (20,111)	5400 (212.6)					7.30	7.79	9098 (20,058)
	480	4800 Hp																
	600	4100 Hp																
	690	3650 kW																
15	400	3640 kW	12,400 (488.2)					8.65	9.23	10,842 (23,902)	6200 (244.1)					8.38	8.94	10,818 (23,850)
	480	6000 Hp																
	600	5100 Hp																
	690	4550 kW																

PowerFlex 753 AC Drives

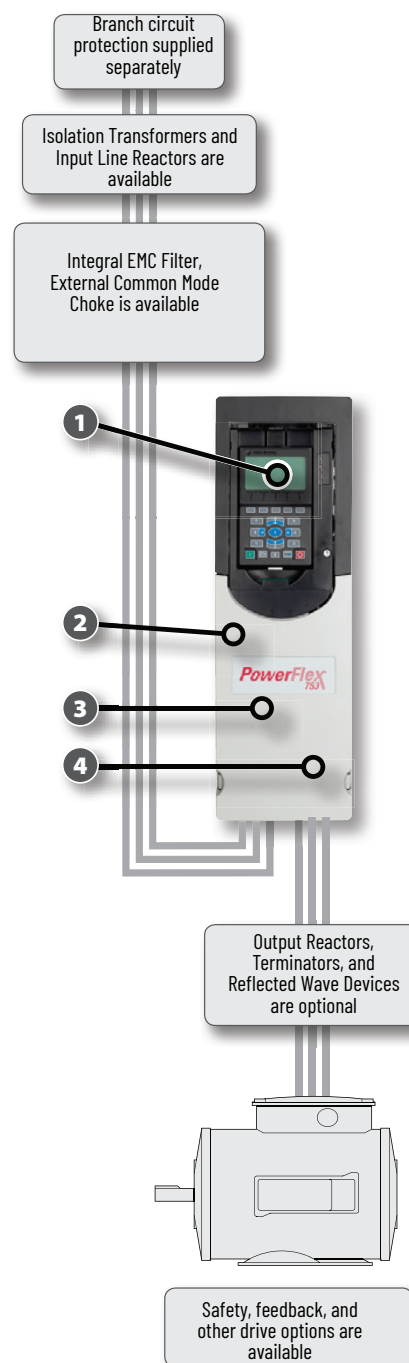
0.37...270 kW/0.5...400 Hp in voltages from 200...690V

Designed for general-purpose applications, the PowerFlex® 753 AC drive offers multiple options and features along with the added benefit of simple integration. The PowerFlex 753 comes standard with built-in I/O, making it a cost-effective solution ideal for OEMs and system integrators looking to reduce engineering costs, deliver machines to market faster and meet end-user demand for more productive and safer machines.

Attribute	Value
Ratings 200...240V 380...480V 575...600V 690V	0.37...132 kW/0.5...200 Hp / 2.2...477 A 0.75...270 kW / 1.0...400 Hp / 2.1...477 A 1.0...300 Hp / 1...289 A 7.5...250 kW / 12...263 A
Motor Control	• VHz Control • Sensorless Vector Control • Vector Control with FORCE Technology (with and without encoder) • Interior Permanent Magnet
Enclosures	• IP00/IP20, NEMA/UL Type Open • Flange Mount • IP54, NEMA/UL Type 12
Safety	• Safe Torque Off SIL 3, PL e, cat. 3 • Safe Speed Monitor SIL 3, PL e, cat. 4
Additional Features	• Automatic Device Configuration • DeviceLogix™ • Adjustable Voltage Control • Indexing • Pump Jack and Pump Off for oil well applications • Pump and Traverse for fibers applications • Conformal Coating
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

1. LCD Human Interface Module (HIM) with multi-language support in scrolling text available as optional accessory.
2. Multiple communication options for industrial networks available.
3. Embedded I/O: 3 digital inputs, 1 relay output, 1 transistor output, 1 analog input, 1 analog output, and 1 PTC input.
4. Integral brake resistor on Frames 1...5, optional on Frames 6...7. Resistors are available.

For accessories and options, including HIMs and communication options, see PowerFlex 750-Series AC Drive Specifications Technical Data, publication [750-TD001](#).



Catalog Number Explanation - PowerFlex 753 and PowerFlex 755

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	LD - P3 - P11...	
20G	1	A	N	D	248	A	A	O	N	N	N	N	N		
A	B	C	D	E	F1...F6	G	H	I	Positions 14...18 are not used.						

A		
Drive		
Code	Type	Frames
20F	PowerFlex 753	1...7
20G	PowerFlex 755	1...10
21G	PowerFlex 755 Drive with Options	8...10

B		
Corrosion Protection and Cooling		
Code	Description	Frames
1	Standard Protection Forced Air	1...10
H	Corrosive Gas Protection (XT), Forced Air	8...10

C		
Input Type		
Code	Description	Frames
1	AC Input with Precharge, includes DC Terminals	1...5 8...10
4	DC Input with Precharge	5...10
A	AC Input with Precharge, no DC Terminals	6...8 ⁽¹⁾

(1) The DC busbar kit (20-750-DCBB1-Fx) is available for Frames 6...7 AC input drives that require DC bus terminals.

D		
Enclosure		
Code	Description	Frames
R	IP20, NEMA/UL Type Open, Frame 1	1
F ⁽¹⁾	Flange (NEMA/UL Type 4X/12 back)	2...5
G	IP54, NEMA/UL Type 12	2...7
N ⁽²⁾	IP20/IP00, NEMA/UL Type Open	2...7
B ⁽³⁾	IP20, NEMA/UL Type 1, 600 mm (23.6 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
J ⁽³⁾	IP54, UL Type 12, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
K ⁽³⁾	IP54, NEMA 12, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
L ⁽³⁾	IP20, NEMA/UL Type 1, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
P ⁽³⁾	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
W ⁽³⁾	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CENTERLINE® 2100 Gray (ASA49)	8...10
Y ⁽³⁾	IP54, NEMA 12, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CENTERLINE® 2100 Gray (ASA49)	8...10
T	IP00, UL Open Type without Control POD	8...10

- (1) For Frames 6...7, a user installed flange kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Frames 2...5 are IP20, Frames 6...7 are IP00.
- (3) Available as a drive with options (21G).

E	
Voltage Rating	
Code	Voltage
B	240V AC (208V AC) ⁽¹⁾ / 325V DC (281V DC) ⁽¹⁾
C	400V AC/540V DC
D	480V AC/650V DC
E	600V AC/810V DC
F	690V AC/932V DC (not UL Listed)

- (1) Drive must be programmed to obtain low (208V AC) voltage rating.

F1								
ND Rating								
208V ⁽¹⁾ 208V, 60 Hz Input								
Code	Amps	kW	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R
2P2	2.5	0.37	-	-	-	-	1	-
4P2	4.8	0.75						
6P8	7.8	1.5						
9P6	11	2.2						
015	15.3	4		2	2	2	-	
2P2	2.5	0.37						
4P2	4.8	0.75						
6P8	7.8	1.5						
9P6	11	2.2		3	3	3	-	
015	17.5	4						
022	22	5.5						
028	32.2	7.5						
042	43	11		5	5	5	-	
054	60	15						
070	78.2	18.2						
080	92	22						
104	120	30		(2)	6	6	-	
130	150	37						
154	177	45						
192	221	55						
260	260	66	(2)	7	7	-		
312	359	90						
360	414	110						
477	477	132						

- (1) Drive must be programmed to obtain low (208VAC) voltage rating.
- (2) For Frames 6 and 7, a user-installed flange kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

F2														
ND Rating														
240V, 60 Hz Input														
Code	Amps	Hp	Frame											
			Enclosure Code											
			B, J, L, T	F	G	N	K, P, W, Y	R						
2P2	2.2	0.5	-	-	-	-	-	1						
4P2	4.2	1												
6P8	6.8	2												
9P6	9.6	3												
015	15.3	5												
2P2	2.2	0.5												
4P2	4.2	1												
6P8	6.8	2												
9P6	9.6	3												
015	15.3	5												
022	22	7.5	-	2	2	2	-	-						
028	28	10												
042	42	15												
054	54	20												
070	70	25												
080	80	30												
104	104	40												
130	130	50												
154	154	60												
192	192	75												
260	260	100	(1)	3	3	3	-	-						
312	312	125												
360	360	150												
477	477	200												

- (1) For Frames 6 and 7, a user-installed flange kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	LD - P3 - P11...	
20G	1	A	N	D	248	A	A	O	N	N	N	N	N		
A	B	C	D	E	F1...F6	G	H	I	Positions 14...18 are not used.						

F3									
ND Rating									
400V, 50 Hz Input									
Code	Amps	kW	Frame						
			Enclosure Code						
			B, J, L, T	F	G	N	K, P, W, Y	R	
2P1	2.1	0.75						1	
3P5	3.5	1.5							
5P0	5.0	2.2							
8P7	8.7	4		2	2	2			
011	11.5	5.5							
015	15.4	7.5							
022	22	11							
030	30	15							
037	37	18.5		3	3	3			
043	43	22							
060	60	30	-	4	4	4	-		
072	72	37			5				
085	85	45		5		5			
104	104	55							
140	140	75			6				
170	170	90				6			
205	205	110		(1)					
260	260	132							
302	302	160			7	7			
367	367	200							
456	456	250							
460	460	250	8	-	-	-	8 ⁽²⁾	-	
477	477	270	-	(1)	-	7	-		
540	540	315							
567	567	315							
650	650	355	8				8 ⁽²⁾		
750	750	400							
770	770	400							
910	910	500							
1K0	1040	560		-	-	-			
1K1	1090	630							
1K2	1175	710							
1K4	1465	800							
1K5	1480	850							
1K6	1590	900							
2K1	2150	1250	10				10 ⁽²⁾		

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

F4									
ND Rating									
480V, 60 Hz Input									
Code	Amps	Hp	Frame						
			Enclosure Code						
			B, J, L, T	F	G	N	K, P, W, Y	R	
2P1	2.1	1							
3P4	3.4	2							
5P0	5.0	3							
8P0	8.0	5		2	2	2		1	
011	11	7.5							
014	14	10							
022	22	15							
027	27	20							
034	34	25		3	3	3			
040	40	30							
052	52	40	-	4	4	4	-		
065	65	50			5				
077	77	60		5		5			
096	96	75							
125	125	100			6				
156	156	125				6			
186	186	150		(1)					
248	248	200							
302	302	250			7	7			
361	361	300							
415	415	350							
430	430	350	8	-	-	-	8 ⁽²⁾	-	
477	477	400	-	(1)	-	7	-		
485	485	400							
545	545	450							
617	617	500	8				8 ⁽²⁾		
710	710	600							
740	740	650							
800	800	700		-	-	-			
960	960	800							
1K0	1045	900							
1K2	1135	1000	9				9 ⁽²⁾		
1K3	1365	1100							
1K4	1420	1250							
1K5	1525	1350							
2K0	2070	1750	10				10 ⁽²⁾		

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

F5									
ND Rating									
600V, 60 Hz Input									
Code	Amps	Hp	Frame						
			Enclosure Code						
			B, J, L, T	F	G	N	K, P, W, Y	R	
1P7	1.7	1							
2P7	2.7	2							
3P9	3.9	3							
6P1	6.1	5		3	3	3			
9P0	9	7.5							
011	11	10							
012 ⁽¹⁾	12	10		-	6	6			
017	17	15		3	3	3			
018 ⁽¹⁾	18	15		-	6	6			
022	22	20		3	3	3			
023 ⁽¹⁾	23	20		-	6	6			
024 ⁽¹⁾	24	20							
027	27	25		4	4	4			
028 ⁽¹⁾	28	25	-	-	6	6	-		
032	32	30		4	4	4			
033 ⁽¹⁾	33	30		-	6	6			
041	41	40		5	5	5			
042 ⁽¹⁾	42	40		-	6	6			
052	52	50		5	-	5			
053 ⁽¹⁾	53	50							
063	63	60							
077	77	75							
099	99	100			6	6			
125	125	125		(2)					
144	144	150							
192	192	200							
242	242	250			7	7			
289	289	300							
295	295	300							
355	355	350							
395	395	400							
435	435	450							
460	460	500							
510	510	500							
595	595	600							
630	630	700		-	-	-			
760	760	800							
825	825	900							
900	900	950							
980	980	1000							
1K1	1110	1100							
1K4	1430	1400							

- (1) Required for uncontrolled common DC bus applications. Optional for all AC applications.
- (2) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (3) Available as a drive with options (21G).

1...3	4	5	6	7	8...10	11	12	13	14	15	16	17	18	LD - P3 - P11...	
20G	1	A	N	D	248	A	A	O	N	N	N	N	N		
A	B	C	D	E	F1...F6	G	H	I	Positions 14...18 are not used.						

F6									
ND Rating									
690V, 50 Hz Input (not UL Listed)									
Code	Amps	kW	Frame						
			Enclosure Code						
			B, J, L, T	F	G	N	K, P, W, Y	R	
012	12	7.5							
015	15	11							
020	20	15							
023	23	18.5							
030	30	22							
034	34	30							
046	46	37			6	6			
050	50	45							
061	61	55							
082	82	75							
098	98	90							
119	119	110							
142	142	132							
171	171	160							
212	212	200			7	7			
263	263	250							
265	265	250							
330	330	315							
370	370	355							
415	415	400							
460	460	450							
500	500	500							
590	590	560							
650	650	630							
710	710	710							
765	765	750							
795	795	800							
960	960	900							
1K0	1040	1000							
1K4	1400	1400							

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

G		
Filtering and CM Cap Configuration		
Code	Filtering	Default CM Cap Connection
A	Yes	Jumper Removed
J	Yes	Jumper Installed

H		
Dynamic Braking ⁽¹⁾		
Code	Internal Resistor ⁽²⁾	Internal Transistor ⁽³⁾
A	No	Yes
N	No	No

- (1) Not available on Frames 8...10, specify Code 'N'.
- (2) Frames 1...2 only. Internal Resistor kits (20-750-DB1-Dx) sold separately.
- (3) Standard on Frames 1...5, optional on 6...7.

I	
Door Mounted HIM (Frames 8...10)	
Code	Operator Interface
0	No Door Mounted HIM
2	Enhanced LCD, Full Numeric, IP20
4	Enhanced LCD, Full Numeric, IP66 NEMA Type 4X/12

PowerFlex 755 w/Options (21G) Required Selections			
Code	Option	Frames	Type
LD	Light Duty	8...10	System Overload Duty Cycle ⁽¹⁾
ND	Normal Duty		
HD	Heavy Duty		
P3	Input Thermal-magnetic Circuit Breaker	8...10	Power Disconnect ⁽¹⁾
P5	Input Non-Fused Molded Case Disconnect Switch	8 Only	
P14	Wiring Only Bay	8...10	Wiring Only Bay

- (1) Only one option of this type can be selected.

PowerFlex 755 w/Options (21G) Additional Selections			
Code	Option	Frames	Type
L1	3% Input Reactor	8...9	Reactors ⁽¹⁾
L2	3% Output Reactor		
L3	5% Input Reactor	8 Only	
L4	5% Output Reactor		
P20	1200 A Bus	8...10	MCC Power Bus Capacity ⁽¹⁾
P22	2000 A Bus		
P24	3000 A Bus		
P30	UPS Control Bus, DC Input w/Precharge only	8...10	UPS Control Bus
X1	Auxiliary Transformer (500VA available), IP20 Cabinet Only	8 Only ⁽²⁾	Auxiliary Power

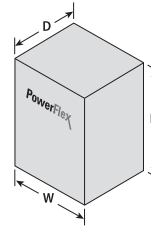
- (1) Only one option of this type can be selected.
- (2) Standard on all other cabinet configurations.

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP00/IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
1	400.5 (15.77)	110 (4.33)	211 (8.31)	6 (12.75)
2	424.2 (16.7)	134.5 (5.3)	212 (8.35)	7.8 (17.2)
3	454 (17.87)	190 (7.48)		11.8 (26.1)
4	474 (18.66)	222 (8.74)		13.6 (30)
5	550 (21.65)	270 (10.63)		20.4 (45)
6	665.5 (26.2)	308 (12.13)	346.4 (13.64)	38.6 (85)
7	881.5 (34.7)	430 (16.93)	349.6 (13.76)	72.6...108.9 (160...240)

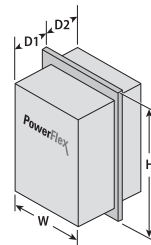


IP54, NEMA/UL Type 12

Frame	H	W	D	Weight
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8 (17)
3	551 (21.69)	268 (10.55)	220.1 (8.67)	12 (26)
4	571 (22.48)	300 (11.81)		14 (30)
5	647 (25.47)	348.0 (13.7)		20 (45)
6	1298.3 (51.11)	609.4 (24)	464.7 (18.3)	91 (200)
7	1614 (63.54)			162 (357)

Flange Mount

Frame	H	W	D1	D2	Weight
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8 (17)
3	515 (20.28)	260 (10.24)	127.4 (5.02)	84.6 (3.33)	12 (26)
4	535 (21.06)	292 (11.5)			14 (30)
5	611 (24.06)	340 (13.39)			20 (45)
6	665.5 (26.2)	308 (12.13)	208.4 (8.2)	138 (5.43)	38 (84)
7	875 (34.45)	430 (16.93)			96 (212)



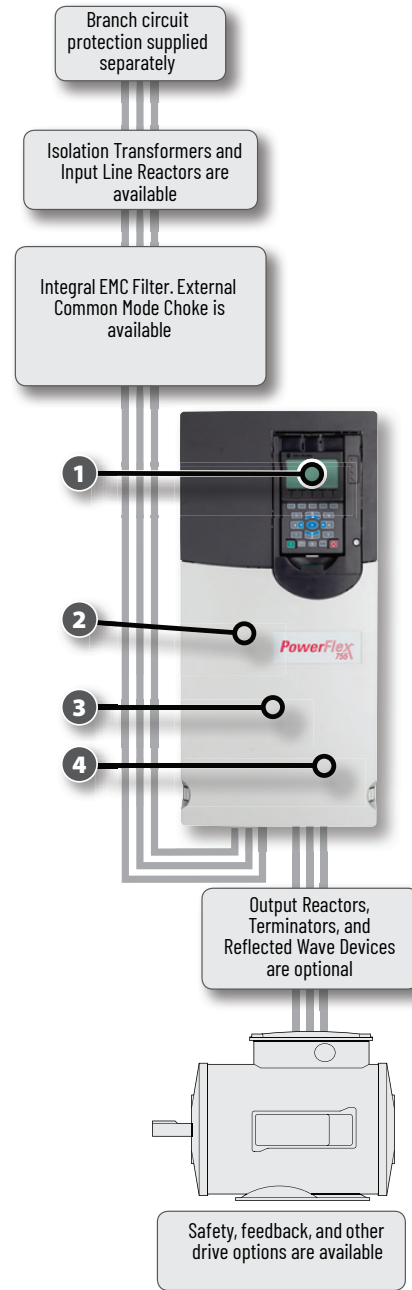
PowerFlex 755 AC Drives

0.37...1500 kW/1...2000 Hp in voltages from 200...690V

Designed for flexibility, connectivity, and productivity, the PowerFlex 755 AC drive provides ease of use and high performance for a wide variety of motor control applications. Ideal for machines that benefit from safety options, application flexibility, and packaging that is designed to meet various environmental conditions, the PowerFlex 755 drive offers more selection for control, communications, safety, and supporting hardware options than any other drives in its class.

Attribute	Value
Ratings	200...240V 380...480V 600V 690V
	0.37...132 kW/0.5...200 Hp / 2.2...477 A 0.75...1400 kW / 1.0...2000 Hp / 2.1...2330 A 1.0...1500 kW / 1.7...1530 A 7.5...1500 kW / 12...1485 A
Motor Control	- VHz Control - Sensorless Vector Control - Vector Control with FORCE Technology (with and without encoder) - Surface Mount Permanent Magnet: Frames 1...7 (with and without encoder) Frames 8...10 (with encoder) - Interior Permanent Magnet: Frames 1...7 (with and without encoder) Frames 8...10 (with encoder)
Enclosures	- IP00/IP20, NEMA/UL Type Open - Flange Mount - IP54, NEMA/UL Type 12 - IP20, NEMA/UL Type 1 (MCC Style Cabinet) - IP54, NEMA Type 12 (MCC Style Cabinet)
Safety	- Hardwired Safe Torque Off SIL 3, PLe, cat. 3 - Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 - Networked Safe Torque Off SIL 3, PLe, cat. 3
Communication Options	Built-in EtherNet/IP Port
Additional Features	- Automatic Device Configuration - DeviceLogix™ - Adjustable Voltage Control - TorqProve™ for lifting applications - Pump Jack and Pump Off for oil well applications - Pump and Traverse for fibers applications - Conformal Coating
Certifications	- c-UL-us - CE - EAC - KCC - RCM - RoHS - WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

For accessories and options, including HIMs and communication options, see PowerFlex 750-Series AC Drive Specifications Technical Data, publication [750-TD001](#).



1. LCD HIM with multi-language support in scrolling text available as optional accessory.
2. Communications: Embedded EtherNet/IP.
3. Embedded I/O: 1 Digital Input.
4. Integral brake transistor on Frames 1...5, optional on Frames 6...7. Resistors are available. See [Catalog Number Explanation - PowerFlex 753 and PowerFlex 755 on page 52](#).

PowerFlex 755 Wall Mount Drives

PowerFlex 755 wall mount drives have a power range from 0.75 kW / 1 Hp to 270 kW / 400 Hp and are available in several factory and field installable enclosure options to meet most environmental requirements.

The standard enclosure is optimized for cabinet installation and rated at IP00/IP20, NEMA/UL Type Open. Wall mount drives can be converted to IP20, NEMA/UL Type 1 with an optional kit containing a debris hood and conduit plate. A factory enclosure option is also available with extra protection (IP54, NEMA Type 12) for harsh environments.

Flange mount drives are available via a factory option (Frames 1...5) or field installable kits (Frames 6...7) and are designed to reduce panel cooling requirements by mounting the drive heatsink outside the cabinet.

A DC link choke is included on all frames and internal brake transistor in standard on Frames 1...5 and optional on Frames 6...7.



PowerFlex 755 Floor Mount Drives

PowerFlex 755 floor mount drives have a power range from 200 kW / 250 Hp to 1400 kW / 2000 Hp, and offer multiple duty ratings to provide flexibility for different application requirements. One drive can provide three different motor current ratings. For example a 480 A drive can run a 400 Hp motor in light duty, a 350 Hp motor in normal duty, and a 300 Hp motor in heavy duty.

- Light Duty = 110% of motor rated current for 60 seconds
- Normal Duty = 110% of motor rated current for 60 seconds/150% of motor rated current for 3 seconds
- Heavy Duty = 150% of motor rated current for 60 seconds/180% of motor rated current for 3 seconds

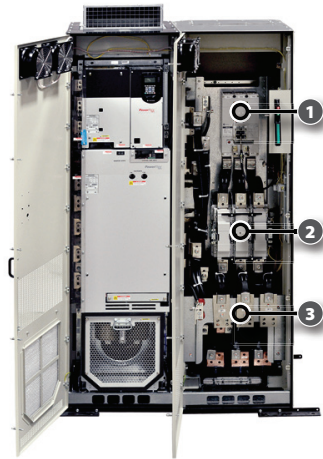
Other power options from the factory include disconnect, reactor, contactor, integrated MCC bus for direct connection to CENTERLINE® MCC, auxiliary transformer, or wiring bay.



Power Options for PowerFlex 755 Floor Mount, AC Input Drives

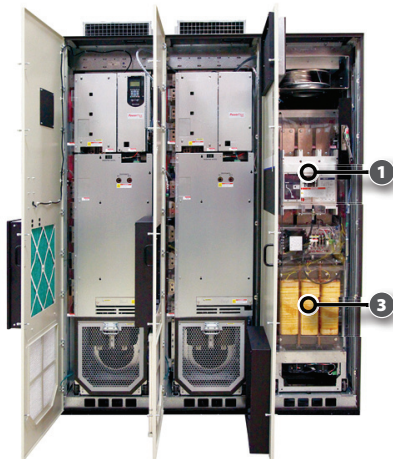
Pre-engineered, factory-installed options are available with the PowerFlex 755 floor mount drives, which includes disconnects, reactors, contactors, MCC bus and wiring only bays.

Frame 8 with Power Option Bay



Input power landed on line-side of power disconnect.

Frame 9 with Power Option Bay



Input power landed behind circuit breaker, which is accessed by extracting roll-out chassis.

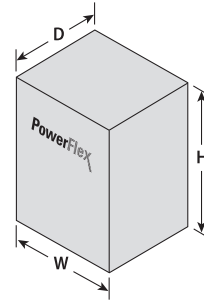
1. Power Disconnect Options -P3 or -P5
2. Contactor Options -P11 or -P12
3. Reactor Options -L1, -L2, -L3, or -L4

Approximate Dimensions and Weights Frames (1...7)

Dimensions are in mm (in.) - weights are in kg (lb)

IP00/IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
1	400.5 (15.77)	110 (4.33)	211 (8.31)	6 (12.75)
2	424.2 (16.7)	134.5 (5.3)	212 (8.35)	7.8 (17.2)
3	454 (17.87)	190 (7.48)		11.8 (26.1)
4	474 (18.66)	222 (8.74)		13.6 (30)
5	550 (21.65)	270 (10.63)		20.4 (45)
6	665.5 (26.2)	308 (12.13)	346.4 (13.64)	38.6 (85)
7	881.5 (34.7)	430 (16.93)	349.6 (13.76)	72.6...108.9 (160...240)

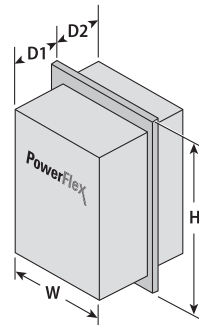


IP54, NEMA/UL Type 12

Frame	H	W	D	Weight
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8 (17)
3	551 (21.69)	268 (10.55)	220.1 (8.67)	12 (26)
4	571 (22.48)	300 (11.81)		14 (30)
5	647 (25.47)	348.0 (13.7)		20 (45)
6	1298.3 (51.11)	609.4 (24)	464.7 (18.3)	91 (200)
7	1614 (63.54)			162 (357)

Flange Mount

Frame	H	W	D1	D2	Weight
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8 (17)
3	515 (20.28)	260 (10.24)	127.4 (5.02)	84.6 (3.33)	12 (26)
4	535 (21.06)	292 (11.5)			14 (30)
5	611 (24.06)	340 (13.39)			20 (45)
6	665.5 (26.2)	308 (12.13)	208.4 (8.2)	138 (5.43)	38 (84)
7	875 (34.45)	430 (16.93)			96 (212)

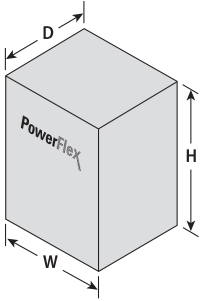


Approximate Dimensions and Weights Frames (8...10)

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type 1, MCC Style Cabinet

Frame	H	W	D	Weight
8	2453 (96.6)	600 (23.6)	600 (23.6) or 800 (31.5)	623 (1374)
8 with drive and options cabinet		1200 (47.2)		1145 (2525)
9		1200 (47.2)	600 (23.6) or 800 (31.5)	1246 (2748)
9 with drive and options cabinet		1800 (70.9)	800 (31.5)	2290 (5051)
10		1800 (70.9)	600 (23.6) or 800 (31.5)	1869 (4122)
10 with drive and options cabinet		2400 (94.5)	800 (31.5)	3435 (7576)



IP54, NEMA Type 12, MCC Style Cabinet

Frame	H	W	D	Weight
8	2477 (97.5)	600 (23.6)	800 (31.5) 898 (35.4) with filter	644 (1419)
8 with drive and options cabinet		1200 (47.2)		1166 (2570)
9		1200 (47.2)		1287 (2838)
9 with drive and options cabinet		1800 (70.9)		2332 (5141)
10		1800 (70.9)		1931 (4257)
10 with drive and options cabinet		2400 (94.5)		3498 (7711)

IP00, NEMA/UL Type Open

Frame	H	W	D
8	2145 (84.45)	778 (30.63)	425 (16.73)
9		1578 (62.12)	
10		2378 (93.62)	

Maximum Component Weights, Frames 8...10

Component	AC Input	Common DC Input
Converter/DC input with precharge	64 (140)	64 (140)
Inverter	222 (490)	165 (363)
Drive assembly (Open, IP00)	286 (630)	229 (504)

PowerFlex 70 AC Drives

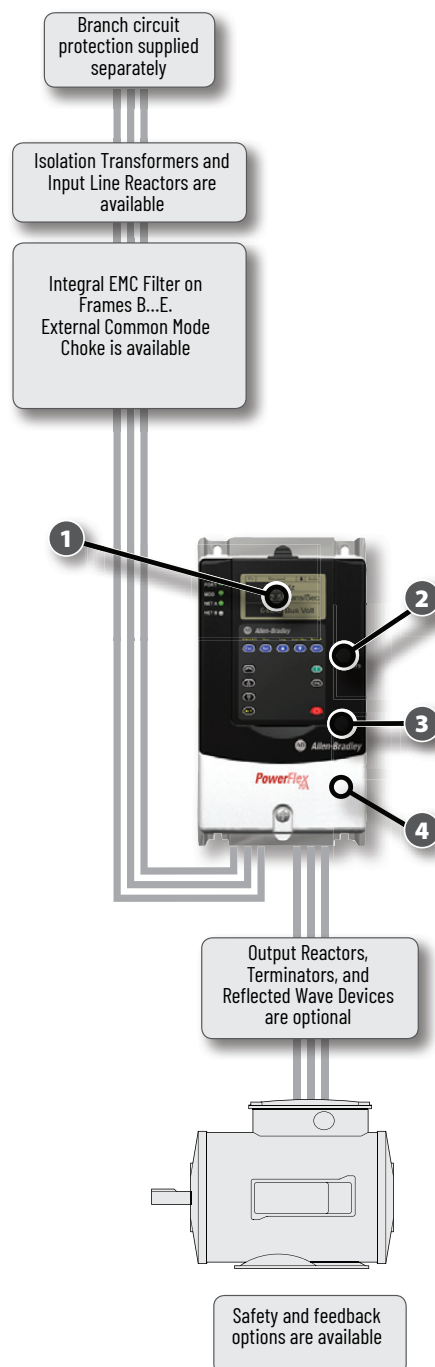
0.37...37 kW/0.5...50 Hp in voltages from 200...600V

The PowerFlex® 70 offers a compact package of power, control and operator interface, which is designed to meet the demands for space, simplicity, and reliability. This drive provides a broad spectrum of features, allowing both easy integration into your architecture, and configuration for most application needs.

Attribute	Value
Ratings	200...240V 0.37...18.5 kW / 0.5...25 Hp / 2.2...70 A 380...480V 0.37...37 kW / 0.5...50 Hp / 1.1...72 A 500...600V 0.5...50 Hp / 0.9...52 A
Motor Control	- VHz Control - Sensorless Vector Control - Vector Control with FORCE Technology (with and without encoder)
Enclosures	- IP20, NEMA/UL Type 1 - Flange Mount - IP54, NEMA/UL Type 12 - IP66, NEMA/UL Type 4X/12 for indoor use
Certifications	For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications .

1. LCD Programmer shown (not supplied).
2. Multiple communication options for industrial networks are available.
3. 24V DC I/O Standard. Six digital inputs, two analog inputs, two relay outputs, and one analog output. 115V interface is available.
4. Integral dynamic brake transistor. Internal and external resistors are available.

For accessories and options, including HIMs, and communication options, see PowerFlex 70 Adjustable Frequency AC Drive Specifications Technical Data, publication [20A-TD001](#).



Catalog Number Explanation

1...3

20A

A

4

B

B

5...7

2P2

C

8

A

D

9

3

E

10

A

F

11

Y

G

12

Y

H

13

N

I

14

N

J

15

C

K

16

O

L

C3

PowerFlex 70 ND Rating					
400V, 50 Hz Input					
Code	Amps	kW	Hp	Frame	
1P3	1.3	0.37	0.5	A	
2P1	2.1	0.75	1.0		
3P5	3.5	1.5	2.0		
5P0	5.0	2.2	3.0	B	
8P7	8.7	4.0	5.0		
011	11.5	5.5	7.5		
015	15.4	7.5	10	C	
022	22	11	15		
030	30	15	20		
037	37	18.5	25	D	
043	42	22	30		
060	60	30	40		
072	72	37	50	E	

C4

PowerFlex 70 ND Rating					
480V, 50 Hz Input					
Code	Amps	kW	Hp	Frame	
1P1	1.1	0.37	0.5	A	
2P1	2.1	0.75	1.0		
3P4	3.4	1.5	2.0		
5P0	5.0	2.2	3.0	B	
8P0	8.0	3.7	5.0		
011	11	5.5	7.5		
014	14	7.5	10	C	
022	22	11	15		
027	27	15	20		
034	34	18.5	25	D	
040	40	22	30		
052	52	30	40		
065	65	37	50	E	

I

Emission Class	
Code	Rating
A	Filtered
N	Not Filtered

Emission Class by Frame Current Rating (A...E) and Voltage

	A ⁽¹⁾⁽²⁾	B ⁽²⁾	C	D	E
240V	A or N	A or N	A	A	A
400V	A or N	A or N	A	A	A
480V	A or N	A or N	A	A	A
600V	N	N	N	N	A

(1) If a filter is used with a Frame A current rating, the drive with internal filter is supplied in the B Frame to accommodate the additional size.
(2) "A or N" indicates that filtering is optional.

K

Control and I/O		
Code	Control	Safe Torque Off
C	Enhanced	No
G	Enhanced	Yes

C5

PowerFlex 70 ND Rating					
600V, 60 Hz Input ⁽¹⁾					
Code	Amps	kW	Hp	Frame	
0P9	0.9	0.37	0.5	A	
1P7	1.7	0.75	1.0		
2P7	2.7	1.5	2.0		
3P9	3.9	2.2	3.0	B	
6P1	6.1	4.0	5.0		
9P0	9.0	5.5	7.5		
011	11	7.5	10	C	
017	17	11	15		
022	22	15	20		
027	27	18.5	25	D	
032	32	22	30		
041	41	30	40		
052	52	37	50	E	

(1) 600V class drives are declared to meet the Low Voltage Directive. It is the responsibility of the user to determine compliance with the EMC Directive.

D

Enclosure	
Code	Description
A ⁽¹⁾	Panel Mount - IP 20, NEMA/UL Type 1
C ⁽¹⁾	Wall/Machine Mount = IP66, NEMA/UL Type 4X/12 for indoor use only
F	Flange Mount - Front Chassis = IP 20, NEMA/UL Type 1; Rear Heatsink = IP66, NEMA/UL Type 4X/12 for indoor use only
G	Wall/Machine Mount - IP54, NEMA/UL Type 12 ⁽²⁾

(1) IP20 and IP66 frame E drives are manufactured with a flange-like heatsink with mounting holes.
(2) Only available on Frame E.

E

HIM	
Code	Interface Module
0	Blank Cover
3	Full Numeric LCD ⁽¹⁾
5	Prog. Only LCD ⁽¹⁾

(1) Only available with NEMA 4X, enclosure C.

F

Documentation	
Code	Description
A	Manual
N	No manual

G

Brake IGBT	
Code	w/Brake
Y	Yes

L

Feedback	
Code	Description
0	No Feedback
1	5V/12V Encoder ⁽¹⁾

(1) Drive is not CE EMC certified when the encoder interface option is installed

A

Drive		
Code	Type	
20 A	PowerFlex 70	

B

Voltage Rating		
Code	Voltage	Ph.
B	240V AC	3 (6 pulse)
C	400V AC	3 (6 pulse)
D	480V AC	3 (6 pulse)
E	600V AC	3 (6 pulse)

C1

PowerFlex 70 ND Rating				
208V, 60 Hz Input				
Code	208V amps	kW	Hp	Frame
2P2	2.5	0.37	0.5	A
4P2	4.8	0.75	1.0	
6P8	7.8	1.5	2.0	
9P6	11	2.2	3.0	B
015	17.5	4.0	5.0	
022	25.3	5.5	7.5	
028	32.2	7.5	10	C
042	43	11	15	
054	56	15	20	
070	78.2	18.5	25	D
042	43	11	15	
054	56	15	20	
070	78.2	18.5	25	E

C2

PowerFlex 70 ND Rating				
240V, 60 Hz Input				
Code	Amps	kW	Hp	Frame
2P2	2.2	0.37	0.5	A
4P2	4.2	0.75	1.0	
6P8	6.8	1.5	2.0	
9P6	9.6	2.2	3.0	B
015	15.3	4.0	5.0	
022	22	5.5	7.5	
028	28	7.5	10	C
042	42	11	15	
054	54	15	20	
070	70	18.5	25	D
042	42	11	15	
054	54	15	20	
070	70	18.5	25	E

H

Internal Brake Resistor	
Code	w/ Resistor
Y	Yes
N	No

J

Comm Slot	
Code	Network Type
C	ControlNet (Coax)
D	DeviceNet
E	EtherNet/IP
N	None

62

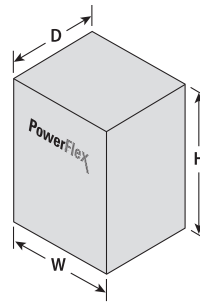
Rockwell Automation Publication PFLEX-SG002Q-EN-P - June 2024

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP20, NEMA/UL Type 1

Frame	H	W	D	Weight
A	225.7 (8.89)	122.4 (4.82)	179.8 (7.08)	2.71 (6)
B	234.6 (9.24)	171.7 (6.76)		3.6 (7.9)
C	300 (11.81)	185 (7.28)		6.89 (15.2)
D	350 (13.78)	219.9 (8.66)		9.25 (20.4)
E	555.8 (21.88)	280.3 (11.04)	207.1 (8.15)	18.6 (41)

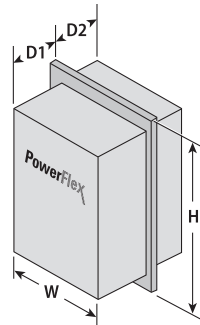


IP66, NEMA/UL Type 4X/12 for Indoor Use

Frame	H	W	D	Weight
B	239.8 (9.44)	171.7 (6.76)	203.3 (8)	3.61 (8)
D	350 (13.78)	219.9 (8.66)	210.7 (8.29)	9.13 (20.1)
E	555.8 (21.88)	280.3 (11.04)	219.8 (8.65)	18.6 (41)

Flange Mount

Frame	H	W	D1	D2	Weight
A	225.8 (8.89)	156 (6.14)	123 (4.84)	55.6 (2.19)	2.71 (6)
B	234.6 (9.24)	205.2 (8.08)			3.6 (7.9)
C	300 (11.81)	219 (8.62)			6.89 (15.2)
D	350 (13.78)	248.4 (9.78)			9.25 (20.4)
E	555.8 (21.88)	280.3 (11.04)	117.2 (4.61)	89.9 (3.54)	18.6 (41)



Notes:

PowerFlex DC Drives

1.2...1044 kW/1.5...1400 Hp from 200...690V

Engineered solutions available up to 4000 kW / 6000 Hp

The PowerFlex® DC drive combines powerful performance with flexible control to produce a highly functional, cost-effective drive and control solution. This drive also offers many features that allow the user to easily configure the drive for most application needs. Drive modules are available in IP20 Open Type enclosures, in both regenerative and non-regenerative configurations. The PowerFlex DC comes standard with an armature converter, regulated field converter for field weakening or economy applications, an advanced regulator with integrated DPI functionality, DC tachometer, and encoder capability.

Attribute	Value
Ratings	
200...240V	1.2...224 kW / 1.5...300 Hp / 7...1050 A
380...480V	1.5...671 kW / 2...900 Hp / 4...1494 A
500...600V	37...932 kW / 50...1250 Hp / 67.5...1688 A
690V	298...1044 kW / 400...1400 Hp / 452...1582 A
Motor Control	• Regenerative and Non-regenerative • Field Weakening and Economize
Enclosures	IP20, NEMA/UL Type Open
Additional Features	• Overload Protection • PID Control (Speed or Torque) • Adaptive Gain, Droop, Feedback Loss Switchover • TorqProve for lifting applications
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.

1. LCD Numeric HIM shown (optional).
2. Multiple Communications options for industrial networks are available.
3. Embedded I/O: Eight digital inputs, four digital outputs, three analog inputs, two analog outputs, and two relay outputs.

For accessories and options, including HIMs, and communication options, see PowerFlex DC Drive Specifications Technical Data, publication [20P-TD001](#).



PowerFlex DC Drive Catalog Number Explanation

1...3	4	5	6	7	8...10	11	12	13	14	15	16
20P	4	1	A	D	4P1	R	A	O	N	N	N
A	B	C	D	E	F	G	H	I	J	K	L

A	
Drive	
Code	Type
20P	PowerFlex DC drive
B	
Motor Operation	
Code	Type
2	Two quadrant operation ⁽¹⁾
4	Four quadrant operation
C	
Input Type	
Code	Type
1	6 pulse
D	
Enclosure	
Code	Enclosure Rating
A	IP20, NEMA/UL Type Open ⁽¹⁾
E	
Input Voltage	
Code	Voltage
B	230V AC
D	460V AC ⁽¹⁾
E	600V AC
F	690V AC

(1) Not available for 230V AC input drives.

(1) Conformal coated.

(1) Use this code for 400V AC input applications.

F1					
230V, 60 Hz Input					
Code	Hp	kW	Armature Amps	Frame	Field Amps
7P0	1.5	1.2	7	A	10
9P0	2	1.5	9		
012	3	2.2	12		
020	5	3.7	20		
029	7.5	5.5	29		
038	10	7.5	38		
055	15	11	55		
073	20	15	73		
093	25	18.5	93		
110	30	22	110		
146	40	30	146	B	20
180	50	37	180		
218	60	45	218		
265	75	56	265		
360	100	75	360		
434	125	93	434		
521	150	112	521		
700	200	149	700		
875	250	186	875		
1K0	300	224	1050	D	40

F2					
460V, 60 Hz Input					
Code	Hp	kW	Armature Amps	Frame	Field Amps
4P1	2	1.5	4.1	A	10
6P0	3	2.2	6		
010	5	3.7	10		
014	7.5	5.5	14		
019	10	7.5	19		
027	15	11	27		
035	20	15	35		
045	25	18.5	45		
052	30	22	52		
073	40	30	73		
086	50	37	86	B	14
100	60	45	100		
129	75	56	129		
167	100	75	167		
207	125	93	207		
250	150	112	250		
330	200	149	330		
412	250	187	412		
495	300	224	495		
667	400	298	667		
830	500	373	830	C	20
996	600	447	996		
1K1	700	552	1162	D	40
1K3	800	597	1328		
1K4	900	671	1494		

F4					
690V, 60 Hz Input					
Code	Hp	kW	Armature Amps	Frame	Field Amps
452	400	298	452	C	20
565	500	373	565		
678	600	447	678	D	40
791	700	552	791		
904	800	597	904		
1K0	900	671	1017		
1K1	1000	746	1130		
1K2	1100	820	1243		
1K4	1250	932	1413		70
1K5	1400	1044	1582		
G					
Field Supply					
Code	Type				
R	Single-phase regulated				
H					
Packaging/Documentation					
Code	Type				
A	Shipping carton and user manual				
I					
HIM					
Code	Operator Interface				
O	Blank cover				
J					
I/O Options ⁽¹⁾					
Code	Control				
N	None ⁽²⁾				
(1) All I/O options are purchased separately and user installed.					
(2) Eight 24V DC digital inputs, four digital outputs, three analog inputs, and two analog outputs are standard.					
K					
Communication Options					
Code	Description				
N	None				
I					
Cabinet Options					
Code	Type				
N	None				

- (1) All I/O options are purchased separately and user installed.
(2) Eight 24V DC digital inputs, four digital outputs, three analog inputs, and two analog outputs are standard.

K	
Communication Options	
Code	Description
N	None
I	
Cabinet Options	
Code	Type
N	None

The PowerFlex DC Field Controller

The PowerFlex DC Field Controller provides three-phase, four quadrant (reversing) DC motor or generator field control. The PowerFlex DC Field Controller can be used for standalone DC motor field control applications, or with a PowerFlex DC Digital drive or PowerFlex DC Standalone Regulator (SAR). A fiber-optic interface option module, or digital and analog I/O, provides transmission of the reference, feedback, and status signals between the drive or regulator and the field controller.

In the standalone mode, the PowerFlex DC Field Controller provides power to a DC motor field with a fixed reference by using fixed I/O. The PowerFlex DC Field Controller can also be used to supply various DC non-motor loads (highly inductive loads). These DC non-motor loads include galvanic applications, electromagnets, synchronous motor excitation circuits, and others.

A PowerFlex DC field controller is a cost-effective way to migrate DC motor controls while using/re-purposing existing equipment.

Controller Features

- Programming flexibility allows parameters to be linked within the device.
- Field-flashable firmware through DPI interface.
- Reversing field supply standard on all frames.
- Controls non-motor inductive loads, such as electromagnets

The PowerFlex DC Standalone Regulator

The PowerFlex DC Standalone Regulator (SAR) and Gate Amplifier products provide an integrated solution to control external DC power modules. The SAR is a DC drive regulator that provides armature regulation, armature SCR gate signals and a regulated field supply. The SAR field supply consists of a single-phase, two quadrant (non reversing) full wave rectified bridge, available as 40 amps or 70 amps. The SAR supports an AC line input voltage range of 230...690V AC and a field input voltage range of 100...460V AC.

PowerFlex DC Field Controller Catalog Number Explanation

1...5

23PFC

A

6

B

B

7...9

245

C

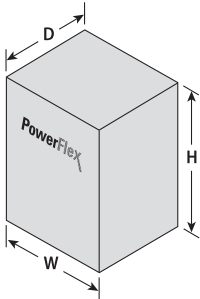
A		B		C		
Drive		Input Voltage		DC Output		
Code	Type	Code	Voltage Range/Phase	Code	Amps	Frame Size
23PFC	PowerFlex DC field controller	B	60...200V AC (±10%) / 3	017	17	A
		D	230...500V AC (±10%) / 3	060	60	A
				120	120	A
				245	245	B
				365	365	B
				570	570	B

Approximate Dimensions Frames (A...D)

Dimensions are in mm (in.)

PowerFlex DC Drives

Frame	H	W	D
A	359 (14.0)	267 (10.5)	287 (11.3)
B	388 (15.3)	311 (12.2)	350 (13.8)
C	511 (20.1)	521 (20.5)	416 (16.4)
D	1230 (48.4)	704 (27.7)	436.5 (17.2)



PowerFlex DC Field Controllers

Frame	H	W	D
A	359 (14.0)	267 (10.5)	287 (11.3)
B	388 (15.3)	311 (12.2)	350 (13.8)

PowerFlex Drives Common Bus Solutions

An increasing number of drive systems in a wide range of industrial applications and power ranges are being configured today in a common DC bus configuration. This drive system configuration provides users with significant advantages such as: design flexibility, higher efficiency, and cost savings.

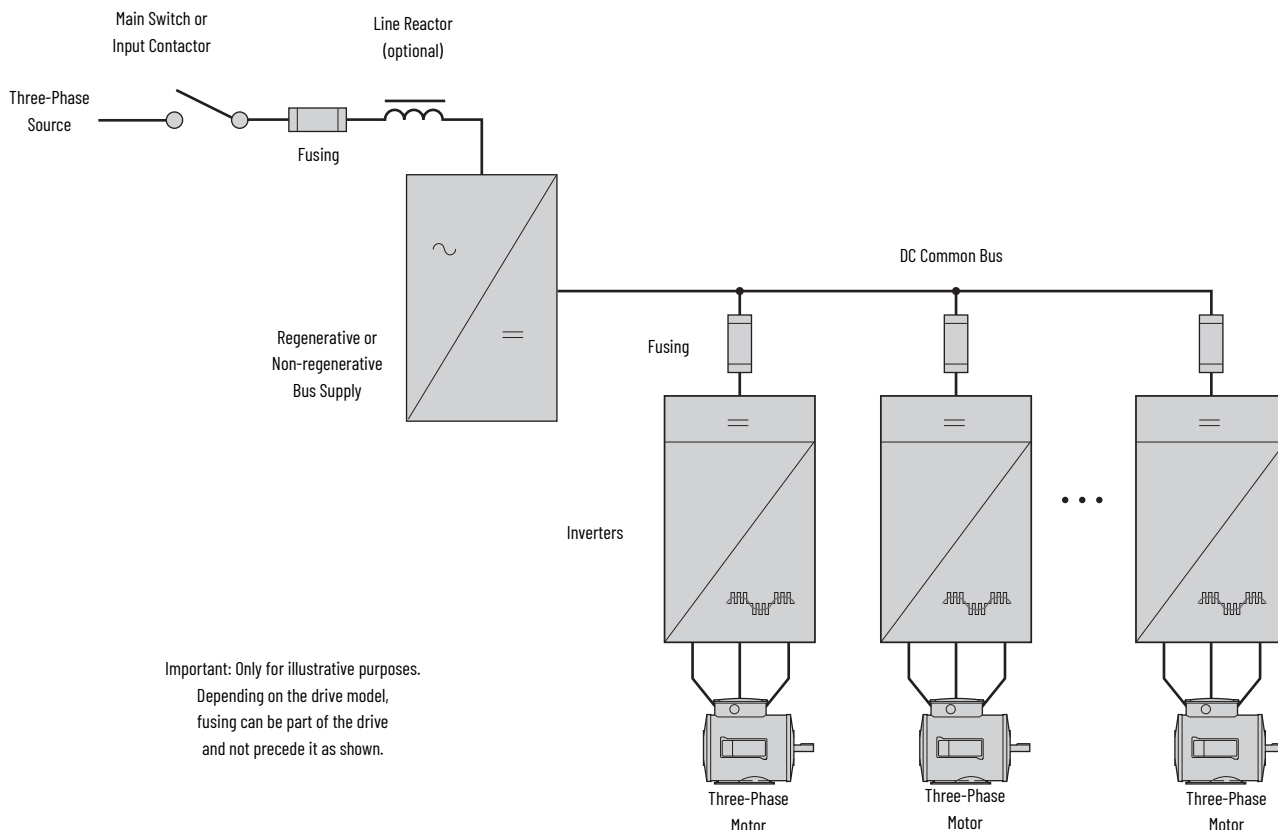
In a common DC bus System, an appropriately rated common bus rectifier can supply power to the DC bus for a lineup of DC-AC inverters in a system. This configuration helps to prevent the need of having individual rectifiers as standalone AC drives.

Power sharing on the DC bus makes it possible for inverters that are motoring to consume power from inverters that are generating. This results in less power usage from the rectifier unit.

In addition, cost savings are realized through the reduction of application-based system components such as reactors, braking units, contactors. This advantage can reduce the number of parts that are used on the drive system and assembly, wiring, wiring costs, number of failures and spare parts. PowerFlex common bus products provide a wide range of modular solutions that are designed to meet common bus applications.

Example Common Bus Configuration

By packaging a combination of inverters and bus supplies in different arrangements and ratings, you can optimize a high-power density system with an industry-leading small footprint.



PowerFlex 753 Common Bus Drives

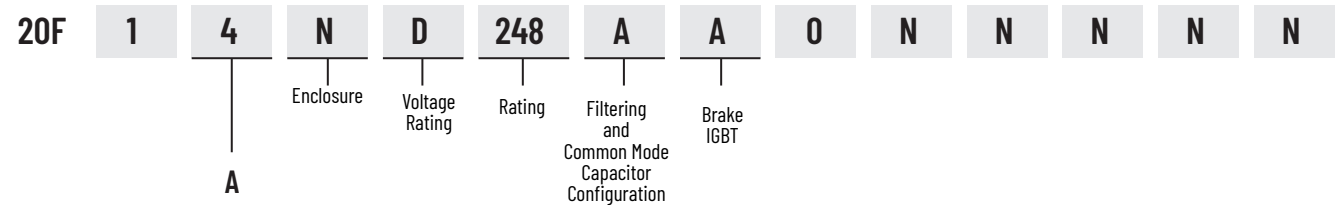
0.37...270 kW/0.5...400 Hp in voltages from 200...690V

The PowerFlex 753 common bus DC drive offers multiple options and features along with the added benefit of simple integration. The PowerFlex 753 common bus DC drive comes standard with built-in I/O, making it a cost-effective solution ideal for drive systems providers and other system integrators looking to reduce engineering costs, deliver machines to market faster and meet end-user demand for more productive and safer machines.

DC Fuses are supplied separately. Integral EMC Filter. External Common Mode Choke is available. See PowerFlex 750-Series AC Drives Technical Data, publication [750-TD001](#) and 1321 Power Conditioning Products Technical Data, publication [1321-TD001](#).

Attribute	Value
Input Ratings	
400V	0.75...270 kW / 2.1...477 A
480V	1...400 Hp/ 2.1...477 A
600V	1...300 Hp / 1...289 A
690V	7.5...250 kW / 12...263 A

Catalog Number Explanation for PowerFlex 753 Common Bus Drives



A

Input Type	
Code	Description
1	AC Input with Precharge, includes DC terminals
4	DC Input with Precharge

See PowerFlex 753 Drives on [page 51](#) for additional details, including dimensions and weights.

PowerFlex 755 Common Bus Drive

0.75...1500 kW/1...2000 Hp in input voltages from 400...690V

Designed for flexibility, connectivity, and productivity, the PowerFlex 755 common bus DC drive provides ease of use and high performance for a wide variety of motor control applications. Ideal for machines that benefit from safety options, application flexibility, and packaging designed to meet various environmental conditions. The PowerFlex 755 common bus DC drive offers more control, communications, safety, and supporting hardware options than any other drives in its class.

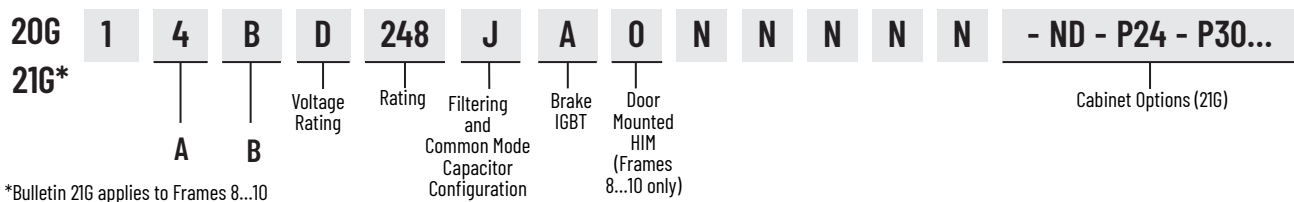
The PowerFlex 755 common bus DC drive can be configured and programmed by using motions instructions within the Studio 5000 environment that are shared with Kinetix® servo drives. This common user experience helps to reduce complexity and save valuable engineering time.

Wall mount and floor mount drives are available in various power ranges and offer multiple duty ranges and enclosure options as described on [page 52](#).

DC Fuses are supplied separately. Integral EMC Filter, External Common Mode Choke is available. See PowerFlex 750-Series AC Drives Technical Data, publication [750-TD001](#) and 1321 Power Conditioning Products Technical Data, publication [1321-TD001](#).

Attribute	Value
Input Ratings	
400V	0.75...1400 kW / 2.1...2330 A
480V	1...2000 Hp/ 2.1...2240 A
600V	1...1500 Hp / 1...1530 A
690V	7.5...1500 kW / 12...1485 A

Catalog Number Explanation for PowerFlex 755 Common Bus Drives



A

Input Type	
Code	Description
1	AC Input with Precharge, includes DC terminals
4	DC Input with Precharge

B

Enclosure Type ⁽¹⁾	
Code	Description
B	600 mm deep, IP20/NEMA 1, standard color (RAL 7032)
L	800 mm deep, IP20/NEMA 1, standard color (RAL 7032)
P	800 mm deep, IP20/NEMA 1, with Motor Control Center (MCC) power bus option, standard color (RAL 7032)
W	800 mm deep, IP20/NEMA 1, with MCC power bus option, CENTERLINE® 2100 gray (ASA49)
J	800 mm deep, IP54/NEMA 12, standard color (RAL 7032)
K	800 mm deep, IP54/NEMA 12, with MCC power bus option, standard color (RAL 7032)
Y	800 mm deep, IP54/NEMA 12, with MCC power bus option, CENTERLINE 2100 gray (ASA49)

(1) Frames 9 and 10 are only available in Code P or W Enclosure Types.

See PowerFlex 755 Drives on [page 56](#) for additional details, including dimensions and weights.

PowerFlex 755TS Common Bus Drive

0.75...355 kW/0.5...500 Hp in voltages from 400...480V

The PowerFlex 755TS common bus DC drive offers scalable options and features along with the added benefit of simple integration. The PowerFlex 755TS common bus DC drive comes standard with built-in I/O, making it a cost-effective solution ideal for drive systems providers and other system integrators that want to reduce engineering costs, deliver machines to market faster and meet end-user demand for more productive and safer machines.

DC Fuses are supplied separately, see PowerFlex 755TS Products DC Fuses and Fuse Holders Installation Instructions, [750-IN121](#). Integral EMC Filter. External Common Mode Choke is available. See PowerFlex 750-Series AC Drives Technical Data, publication [750-TD001](#) and 1321 Power Conditioning Products Technical Data, publication [1321-TD001](#).

Attribute	Value
Input Ratings	
400V	0.75...250 kW / 2.1...456 A
480V	1...350 Hp/ 2.1...415 A

Catalog Number Explanation for PowerFlex 755TS Common Bus Drives

20G

2

X

X

X

xxx

A

N

O

N

N

N

N

N

A

B

C

Enclosure

Voltage Rating

A		
Drive		
Code	Type	Frames
20G	PowerFlex 755TS Drives	1...7

B		
Corrosive Gas Protection and Cooling Type		
Code	Description	Frames
2	Standard Protection, Forced Air	1...7
E	Enhanced Corrosive Gas Protection (XT), Forced Air	1...7

C		
Input Type		
Code	Description	Frames
1	AC Input with Precharge, includes DC terminals	1...7
4	DC Input with Precharge	1...7

See PowerFlex 755TS Drives on [page 35](#) for additional details, including dimensions and weights.

PowerFlex 755TM Drive System

75...4550 kW/100...6000 Hp in voltages from 400...690V AC

The PowerFlex 755TM drive system enables coordination of multiple motors based on two main building blocks: regenerative and non-regenerative common bus supplies and common bus inverters. The common DC bus optimizes the sizing of the bus supply so that energy consumption remains strictly matched with the requirement of the application.

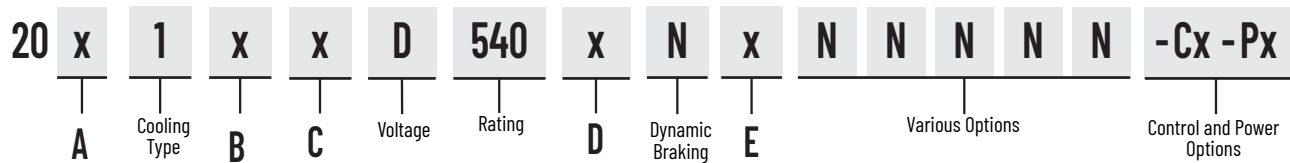
By packaging inverters and bus supplies in different arrangements and ratings, you can optimize a high power density system with a small footprint. You can also eliminate external multi-phase transformers or filters, and their associated wiring, labor, installation, and maintenance costs.

Attribute	Value
Ratings	755TM
400V	75...3640 kW
480V	100...6000 Hp
600V	75...5100 Hp
690V	75...4550 kW
Motor Control	- Field Oriented Control - Sensorless Vector Control - Flux Vector Control - VHz Control - Economizer - Interior Permanent Magnet and Surface Permanent - Magnet Flux Vector Control - Voltage Boost
Enclosures	- IP21, UL Type 1 - IP54, UL Type 12
Safety	- Hardwired Safe Torque Off SIL 3, PLe, cat. 3 - Hardwired Safe Speed Monitor SIL 3, PLe, cat. 4 - Networked Safe Torque Off SIL 3, PLe, cat. 3 - Networked Integrated Safety Functions SIL 3, PLe, cat. 4
Additional Features	- Active front end ride-through control reduces downtime - TotalFORCE® Technology - Provides harmonic mitigation and power factor correction - Optional built-in Dv/Dt filter designed to mitigate reflective wave phenomenon - Modular construction for easy install and maintenance - Built-in dual port EtherNet/IP - Predictive diagnostics help monitor drive components - Embedded DeviceLogix™ control - Adaptive tuning - Bus Observer - Load Observer - LCL Filter Resonance and failure detection - Auto Restart - Start at PowerUp - Emergency Override - Energy Pause - TorqProve™ - Line voltage and current imbalance detections
Certifications	- c-UL-us - CE - EAC - KCC - RCM - RoHS - WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.



For accessories and options, including HIMs, and communication options, see PowerFlex 750-Series AC Drive Specifications Technical Data, publication [750-TD100](#) or PowerFlex 755TM IP00 Open Type Kits Technical Data, publication [750-TD101](#).

Catalog Number Explanation



A	
Drive Type	
Code	Description
G	PowerFlex 755TM Common Bus Inverters
J	PowerFlex 755TM Bus Supplies

B		
Input Type		
Code ⁽¹⁾	Description	Frame Size
6	Regenerative and low harmonic AFE, 755TM Bus Supplies	6...7
D	Common bus with DC precharge	8...15
E	Common bus without DC precharge	8...15
F	Regenerative and low harmonic AFE, 755TM Bus Supplies	8...15

(1) Codes D and E are only available with 20G-type drives. Code F is only available with 20J-type drives.

C	
Enclosure	
Code	Enclosure Rating
N	IP00, UL Open Type
3	IP21, UL Type 1; Floor Mount
4	IP54, UL Type 12; Floor Mount

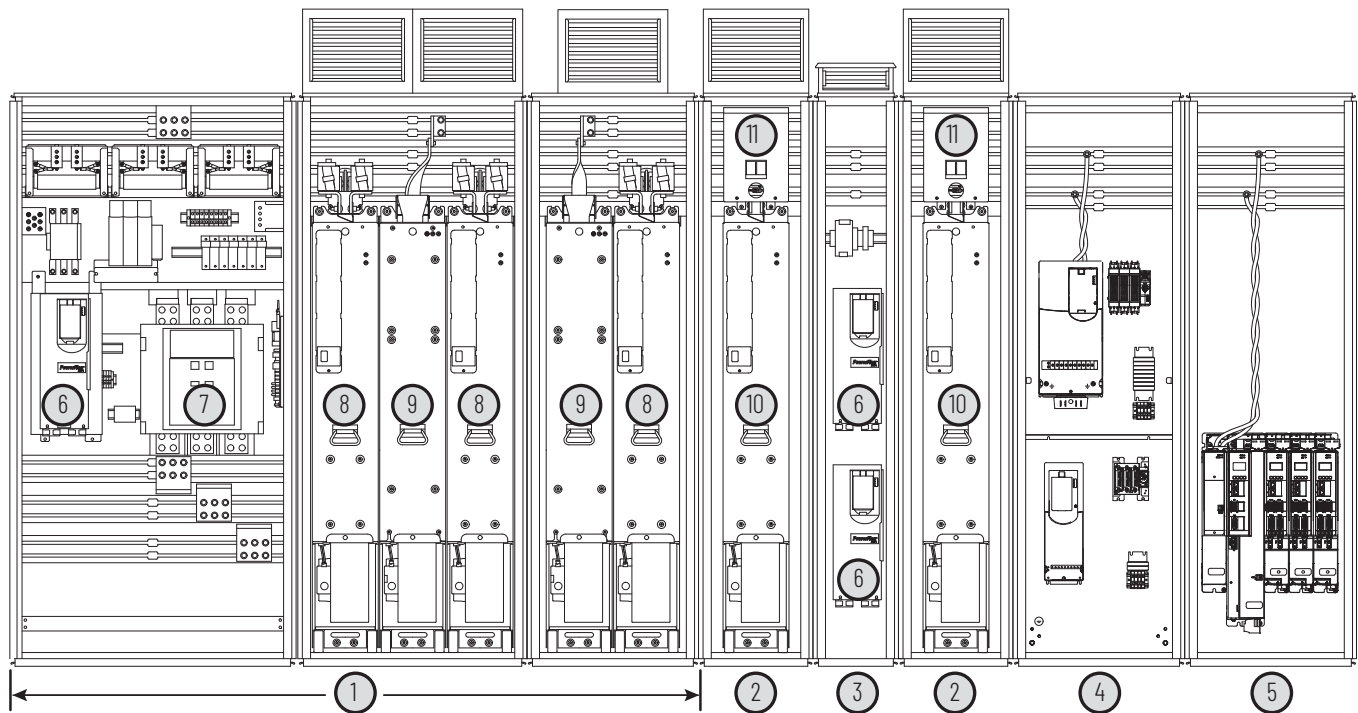
D				
Filtering and CM Cap Configuration ⁽¹⁾				
Code ⁽²⁾	EMC Filtering	CM Cap Default Configuration	Reflected Wave Filtering	Frame Size
J	Yes	Jumper Installed	No	8...15
K	Yes	Jumper Installed	Yes	8...15
L	No	Jumper Installed	No	6...15
M	No	Jumper Installed	Yes	8...15
P	Yes	Jumper Installed	No	7

(1) Refer to publication 750-TD100 for the full list of EMC C2, EMC C3, and Reflected Wave filtering options available.
(2) Codes J and K are not configurable with 20G-type drives (input types D or E). Codes K and M are not configurable with 20J-type drives (input type F).

E	
Door Mounted HIM ⁽¹⁾	
Code	Operator Interface and Control
A	No door mounted HIM with TotalFORCE control
D	Enhanced LCD, full numeric, IP66, NEMA Type 4X/12 with TotalFORCE control

(1) HIM option depends on catalog configuration.

PowerFlex 755TM Common Bus System Example



Item	Description
1	PowerFlex 755TM regenerative bus supply
2	PowerFlex 755TM common bus inverter
3	Control bay to support the control pods that control the motors for each inverter
4	Lower power PowerFlex drives to support smaller rated motors
5	Kinetix servo drives
6	Control pod to control the system
7	AC precharge module
8	Line side converter
9	LCL filter
10	Motor side inverter
11	DC precharge module (optional)

Approximate Dimensions and Weights^(a)

Dimensions are in mm (in.), and weights are in kg (lb).

PowerFlex 755TM Regenerative Common Bus Supplies - Frame 6

Frame Size	Input Voltage	Normal Duty Rating	Without Conduit Box			With Conduit Box			Weight
			Width	Depth	Height	Width	Depth	Height	
6	400	87...162 kW	404 (15.9)	361 (14.2)	1656 (65.2)	404 (15.9)	432 (17)	1877 (73.9)	145 (320)
	480	90...177 kW							
	600	69...129 kW							
	690	84...146 kW							

PowerFlex 755TM Regenerative Common Bus Supplies - Frames 7...12

Frame	Input Voltage	Normal Duty Rating	Width		Depth		Height		Weight
			Bus Supply	With Optional Entry Bay	IP21	IP54	IP21	IP54	
7	400	188...373 kW	800 (31.5)	(1)	676 (26.6)	721 (28.4)	2132 (83.9)	2291 (90.2)	454 (1000)
	480	216...429 kW							
	600	171...353 kW							
	690	176...380 kW							
8	400	188...479 kW	1000 (39.4)	(1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	709 (1563)
	480	216...529 kW							
	600	217...487 kW							
	690	221...518 kW							
9	400	479...910 kW	1400 (55.1)	(1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	1180 (2601)
	480	529...977 kW							
	600	487...877 kW							
	690	518...944 kW							
10	400	910...1342 kW	2400 (94.5)	2800 (110.2)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	2106 (4643)
	480	977...1483 kW							
	600	877...1279 kW							
	690	944...1456 kW							
11	400	1342...1772 kW	2600 (102.4)	3400 (133.9)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	2531 (5580)
	480	1483...1959 kW							
	600	1279...1740 kW							
	690	1456...1914 kW							
12	400	1772...2204 kW	3200 (126.0)	4000 (157.5)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	3085 (6803)
	480	1959...2436 kW							
	600	1740...2164 kW							
	690	1914...2379 kW							

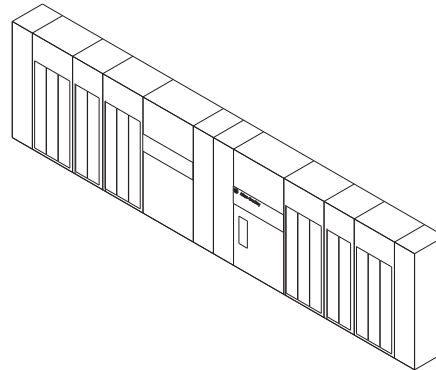
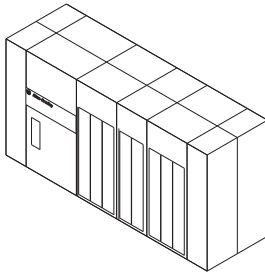
(a) Weight excludes wiring bays. See PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#) to determine the maximum weight for your configuration.

Approximate Dimensions and Weights^(a) (continued)

Dimensions are in mm (in.), and weights are in kg (lb).

PowerFlex 755™ Regenerative Common Bus Supplies - Frames 13...15

Frame Size	Input Voltage	Normal Duty Ratings	In-line Dimensions					Back to Back Dimensions					Weight
			Length	Depth		Height		Length	Depth		Height		
				IP21	IP54	IP21	IP54		IP21	IP54	IP21	IP54	
13	400	2204...2634 kW	5600 (220.4)					3200 (125.9)					4716 (10398)
	480	2436...2912 kW											
	600	2164...2678 kW											
	690	2379...2849 kW											
14	400	2634...3496 kW	6800 (267.8)	676 (26.6)	721 (28.4)	2132 (83.9)	2291 (90.2)	3800 (149.6)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	5798 (12782)
	480	2912...3865 kW											
	600	2678...3555 kW											
	690	2849...3781 kW											
15	400	3496...4358 kW	8000 (315.0)					4400 (173.2)					6906 (15228)
	480	3865...4818 kW											
	600	3555...4432 kW											
	690	3781...4714 kW											



(a) Weight excludes wiring bays. See PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#) to determine the maximum weight for your configuration.

Approximate Dimensions and Weights^(a) (continued)

Dimensions are in mm (in.), and weights are in kg (lb).

PowerFlex 755TM Common Bus Inverters –Frames 8 ...15

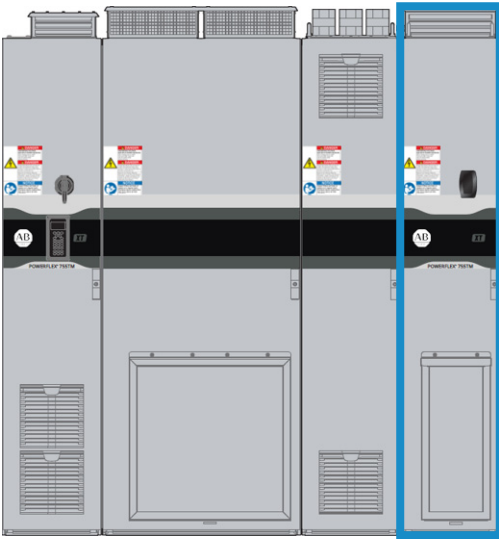
Frame	Input Voltage (V AC)	Normal Duty Rating	Width			Depth		Height		Weight
			Control Bay ⁽¹⁾	Inverter Bay	Exit Wiring Bay	IP21	IP54	IP21	IP54	
8	400	160...400 kW	300 (11.8)	400 (15.7)	400 (15.7)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	374 (825)
	480	250...650 Hp								
	600	250...550 Hp								
	690	200...500 kW								
9	400	400...800 kW	300 (11.8)	600 (23.6)	400 (15.7)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	611 (1348)
	480	650...1100 Hp								
	600	550...1000 Hp								
	690	500...900 kW								
10	400	800...1250 kW	300 (11.8)	800 (31.5)	400 (15.7)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	873 (1924)
	480	1100...1800 Hp								
	600	1000...1500 Hp								
	690	900...1400 kW								
11	400	1200...1650 kW	300 (11.8)	1200 (47.2)	800 (31.5)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	1284 (2830)
	480	1800...2400 Hp								
	600	1500...2000 Hp								
	690	1400...1800 kW								
12	400	1600...2000 kW	300 (11.8)	1400 (55.1)	800 (31.5)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	1580 (3483)
	480	2400...3000 Hp								
	600	2000...2500 Hp								
	690	1800...2300 kW								
13 ⁽²⁾	400	2000...2200 kW	300 (11.8)	800 (31.5)	400 (15.7)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	2199 (4848)
	480	3000...3600 Hp								
	600	2500...3100 Hp								
	690	2300...2750 kW								
14 ⁽²⁾	400	2200...2920 kW	300 (11.8)	1200 (47.2)	800 (31.5)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	3253 (7172)
	480	3600...4800 Hp								
	600	3100...4100 Hp								
	690	2750...3650 kW								
15 ⁽²⁾	400	2920...3640 kW	300 (11.8)	1400 (55.1)	800 (31.5)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	3607 (7954)
	480	4800...6000 Hp								
	600	4100...5100 Hp								
	690	3650...4550 kW								

(1) Optional wiring bay is not required for top entry of power cables.

(2) PowerFlex 755TM Common Bus Inverters Frames 13...15 are only available in the back-to-back configuration.

(a) Weight excludes wiring bays. See PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#) to determine the maximum weight for your configuration.

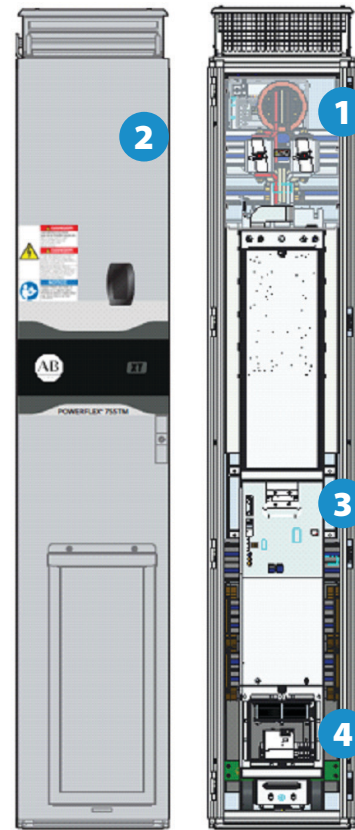
PowerFlex 755TM Non-Regenerative Supply



Common Bus Systems up to 6000 Hp for non-regenerative applications, enables high power six-pulse drive configuration with TotalFORCE control. Common architecture provides easy integration with PowerFlex 755TM drive products and roll-in modules and spare parts provide high serviceability and reduced downtime.

- Cost-effective, space saving solution for common bus, when regenerative and low harmonics are not required
- Converts three-phase AC line voltage to DC
- Compatible with PowerFlex 755TM common bus supplies and inverters
- Paralleling capability

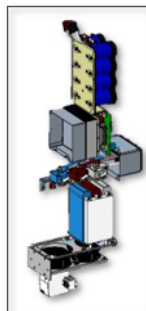
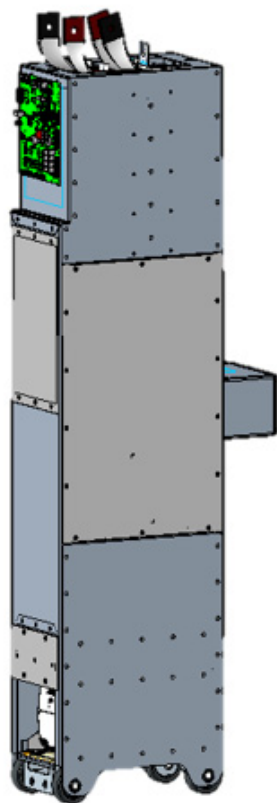
Attribute	Value
Ratings	
400V	770...1463 A / 400...800 kW
480V	770...1365 A / 650...1100 kW
600V	545...980 A / 550...1000 kW
690V	505...920 A / 500...900 kW
Motor Control	Power Configurations • 6-pulse configuration • 12-pulse configuration
Enclosures	• Floor Mount IP21, IP54 • 400 mm Power Bay • 230 mm IP00 Roll-in • Bottom/Top Entry
Additional Features	• Enhanced Corrosive Gas Protection (XT) • 240V Control Transformer for NRS Power Module • 240V Control Transformer for Equivalent CBI (Optional) • EMC C3 standard
Certifications	• c-UL-us • CE • EAC • KCC • RCM • RoHS • WEEE For a complete list, search PowerFlex Certifications on the Product Certifications website, rok.auto/certifications.



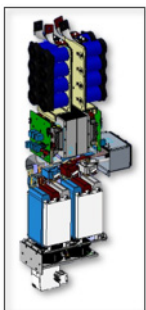
1. Rating:
 - 400/480V. 600/690V
 - 500...6000 Hp
2. Enclosure:
 - Floor Mount IP21, IP54
 - 400 mm Power Bay
 - 230 mm IP00 Roll-in
 - Bottom/Top Entry
3. Power Configurations
 - 6-pulse configuration
 - 12-pulse configuration
4. Built-in Features
 - Enhanced Corrosive Gas Protection (XT)
 - 240V Control Transformer for NRS Power Module
 - 240V Control Transformer for Equivalent CBI (Optional)
 - EMC C3 as standard

For accessories and options, including HIMs, and communication options, see PowerFlex 750-Series AC Drive Specifications Technical Data, publication [750-TD100](#) or PowerFlex 755TM IP00 Open Type Kits Technical Data, publication [750-TD101](#).

Power Module



Single Density
W/ Optional Cap Bank
700 Hp @ 480V AC



Dual Density
W/ Optional Cap Bank
1250 Hp @ 480V AC

Ratings

- Single Density NRS Module
 - 770 A at 400V, 545 A at 600V
- Dual Density NRS Module
 - 1K4A at 400V, 980 A at 600V

Roll-in Modules

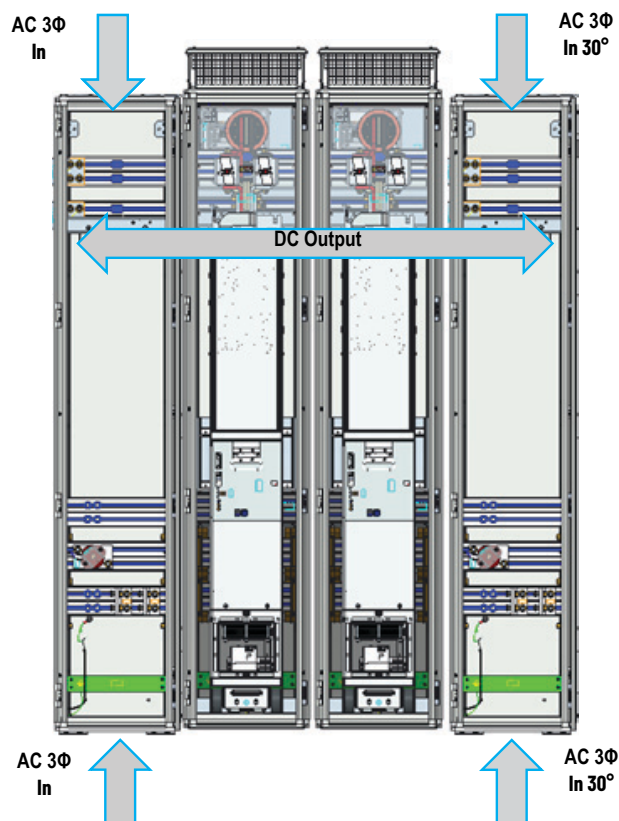
- PowerFlex 755T Service Cart
- 230 mm IP00 Roll-in

Built-in Features

- Enhanced Corrosive Gas Protection (XT)
- 3% Line Reactor
- Alarm/Fault light-emitting diode (LED) Display
- I/O
- DC Bus Caps (Optional)

12-pulse Configurations

- Offering low incremental solution cost, 12-pulse delivers high power, medium-performance, harmonic reduction
- 12-pulse configurations solutions are delivered through:
 - Two equivalently rated parallel NRS sections with separate wiring entry bays
 - Phase-shifting transformer
- The total harmonic reduction depends on percent load and phase balancing, 12-pulse delivers 12...15% THD at 100% load



Non-Regenerative Bus Supply Catalog Number Explanation

1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18
 20J E H 3 D 740 L N A N N N N N -C1-P18...
 A B C D E F1...F4 G H I Catalog number positions 14...18 are not used. Options

A

Drive	
Code	Type
20J	PowerFlex 755TM Bus Supplies

B

Corrosive Gas Protection and Cooling Type	
Code	Type
E	Corrosive Gas Protection (XT), Forced Air ⁽¹⁾

(1) Firmware 10.xxx and later

C

Input Type	
Code	Type
H	Non-Regenerative, 755TM Bus Supply

D

Enclosure	
Code	Enclosure Rating
3	IP21, UL Type 1; Floor Mount
4	IP54, UL Type 12; Floor Mount

E

Input Voltage	
Code	Voltage
B	400V AC; 3 PH
D	480V AC; 3 PH
E	600V AC; 3 PH
F	690V AC; 3 PH

F1

PowerFlex 755TM ND Non-Regenerative Bus Supply Ratings 400V AC, 50 Hz Input 580V DC Output			
Code	Amps	kW	Module Density
770	770	400	Single
1K4	1463	800	Dual

F2

PowerFlex 755TM ND Non-Regenerative Bus Supply Ratings 480V AC, 60 Hz Input 696V DC Output			
Code	Amps	kW	Module Density
770	770	650	Single
1K3	1365	1100	Dual

F3

PowerFlex 755TM ND Non-Regenerative Bus Supply Ratings 600V AC, 60 Hz Input 870V DC Output			
Code	Amps	kW	Module Density
545	545	550	Single
980	980	1000	Dual

F4

PowerFlex 755TM ND Non-Regenerative Bus Supply Ratings 690V AC, 50 Hz Input 1000V DC Output			
Code	Amps	kW	Module Density
505	505	500	1X
920	920	900	2X

G

Filtering and Cap Configuration			
Code	EMC Filtering C3 Conducted, and Radiated	PE-A	PE-B
L	Single-phase regulated	Installed	—

H

Dynamic Braking		
Code	Internal Resistor	Internal Transistor
N	No	No

I

Door-mounted HIM	
Code	Operator Interface and Control
A	No HIM Provided

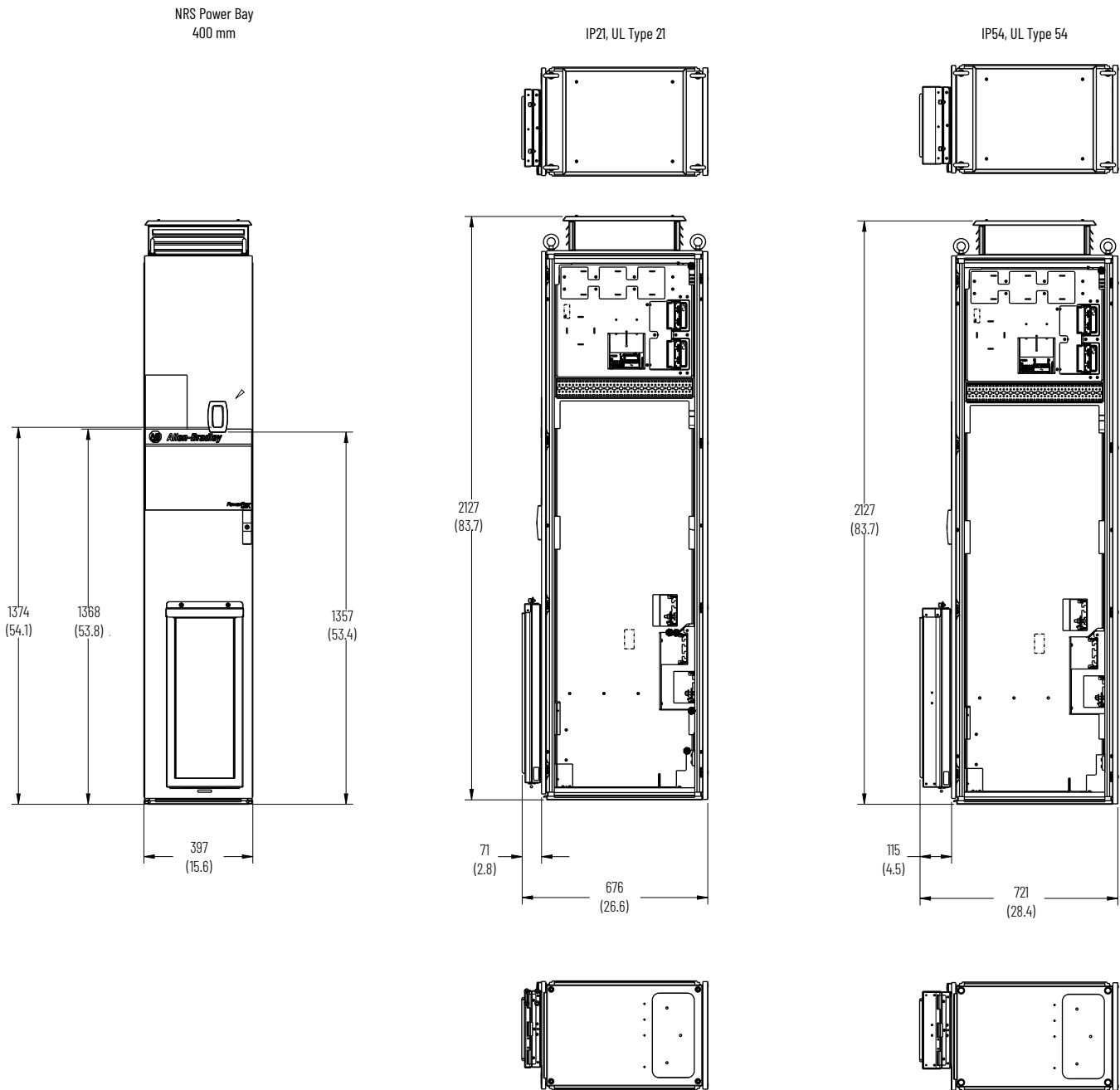
20J Options Selection⁽¹⁾

Code	Option
C1	Bus Supply and CBI Control Transformer
C2	Bus Supply Control Transformer Only
P18	NRS Wire Entry Bay (Default for X2 Rating)
P46	System DC Bus (4700 Amp, Copper)
P47	System AC & DC Bus
P50	Standard DC Bus Conditioner
P50	DC Bus Condition with Discharge Circuit - Marine Applications
P72	Integral Roll-In Bus Capacitor

(1) Power and control options are listed in the unnumbered field to right of position 18.

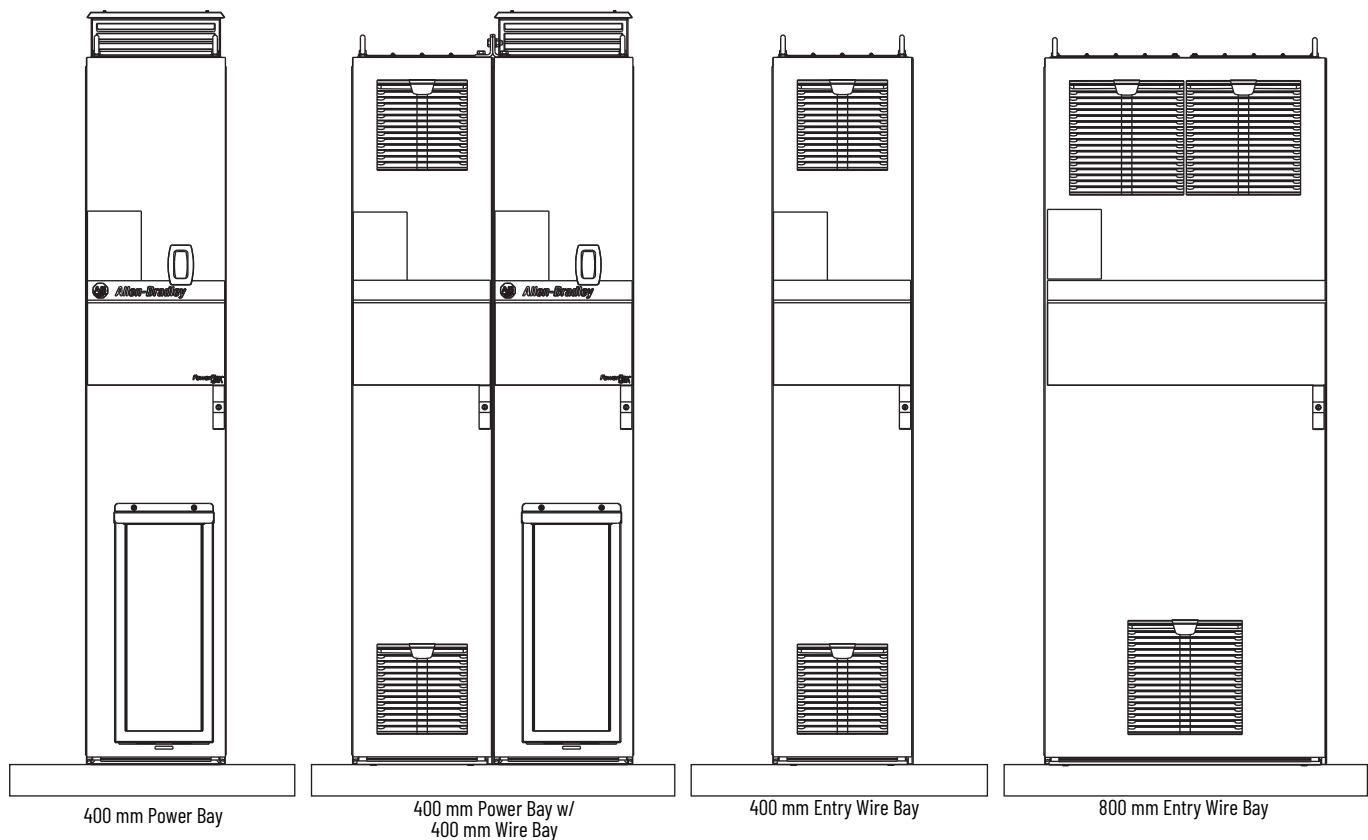
Approximate Dimensions

Dimensions are in mm (in.)



Approximate Weights^(a)

Weights are in kg (lb).



Approximate Maximum Unit Weights, kg (lb)

Description	Weight	With Packaging
Power bay, single-density	295 (650)	490 (1080)
Power bay, single-density with integral bus capacitors	304 (670)	533 (1175)
Power bay, single-density with optional 3 kVA control transformer	332 (732)	561 (1237)
Power bay, single-density with integral bus capacitors and optional 3 kVA control transformer	341 (752)	604 (1332)
Power bay, dual-density	553 (1219)	828 (1825)
Power bay, dual-density with integral bus capacitors	571 (1259)	880 (1940)
Power bay, dual-density with optional 3 kVA control transformer	590 (1301)	899 (1982)
Power bay, dual-density with integral bus capacitors and optional 3 kVA control transformer	608 (1340)	951 (2097)
400 mm entry wire bay	126 (278)	188 (414)
800 mm entry wire bay	242 (534)	309 (681)

(a) See PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#) to determine the maximum weight for your configuration.

Notes:

Additional Resources

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

Resource	Description
PowerFlex® 4M AC Drive Technical Data, publication 22F-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 400 AC Drive Technical Data, publication 22C-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 523 and 525 AC Drives Technical Data, publication 520-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 527 AC Drives Technical Data, publication 520-TD002	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 70 AC Drive Technical Data, publication 20A-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 753 AC Drive Technical Data, publication 750-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 755TL/TR/TM AC Drive Technical Data, publication 750-TD100	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 755TS AC Drive Technical Data, publication 750-TD104	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex DC Drive Technical Data, publication 20P-TD001	Provides full product selection, accessories, dimensions, and specifications.
PowerFlex 755T Drive Solutions Brochure, publication 755T-BR001	Provides overview of PowerFlex 755T Drives and Technologies.
EtherNet/IP Network Devices User Manual, publication ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, publication ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
CIP Security Application Technique, SECURE-AT001	Describes how to plan and implement a Rockwell Automation system that support the CIP Security protocol.
Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication IC-TD002	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 SGI-1.1	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 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications .	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at rok.auto/literature.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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