

PowerFlex Common Bus Configuration Selection Guide



LISTEN.
THINK.
SOLVE.

PowerFlex Common Bus Configuration

Selection Guide



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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, etc. This advantage can reduce the number of parts used on the drive system as well as assembly, wiring, wiring costs, number of failures and spare parts.

PowerFlex® common bus products provide a wide range of modular solutions designed to meet today's common bus applications.

Access to Real-time Information

Getting valuable **real-time data** from your application can help enhance the productivity of your business.

As part of the Rockwell Automation® Integrated Architecture®, PowerFlex drives can do much more than just respond to interlocking commands. They provide valuable real time **operation and diagnostic information**.

EtherNet/IP™ connectivity supports seamless integration into the Logix environment. PowerFlex drives help you apply this open, widely adopted network by making connections simple with built-in or optional EtherNet/IP communication ports.

PowerFlex Drives

The Allen-Bradley® PowerFlex family of AC and DC drives has been developed to 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 you need to be successful.

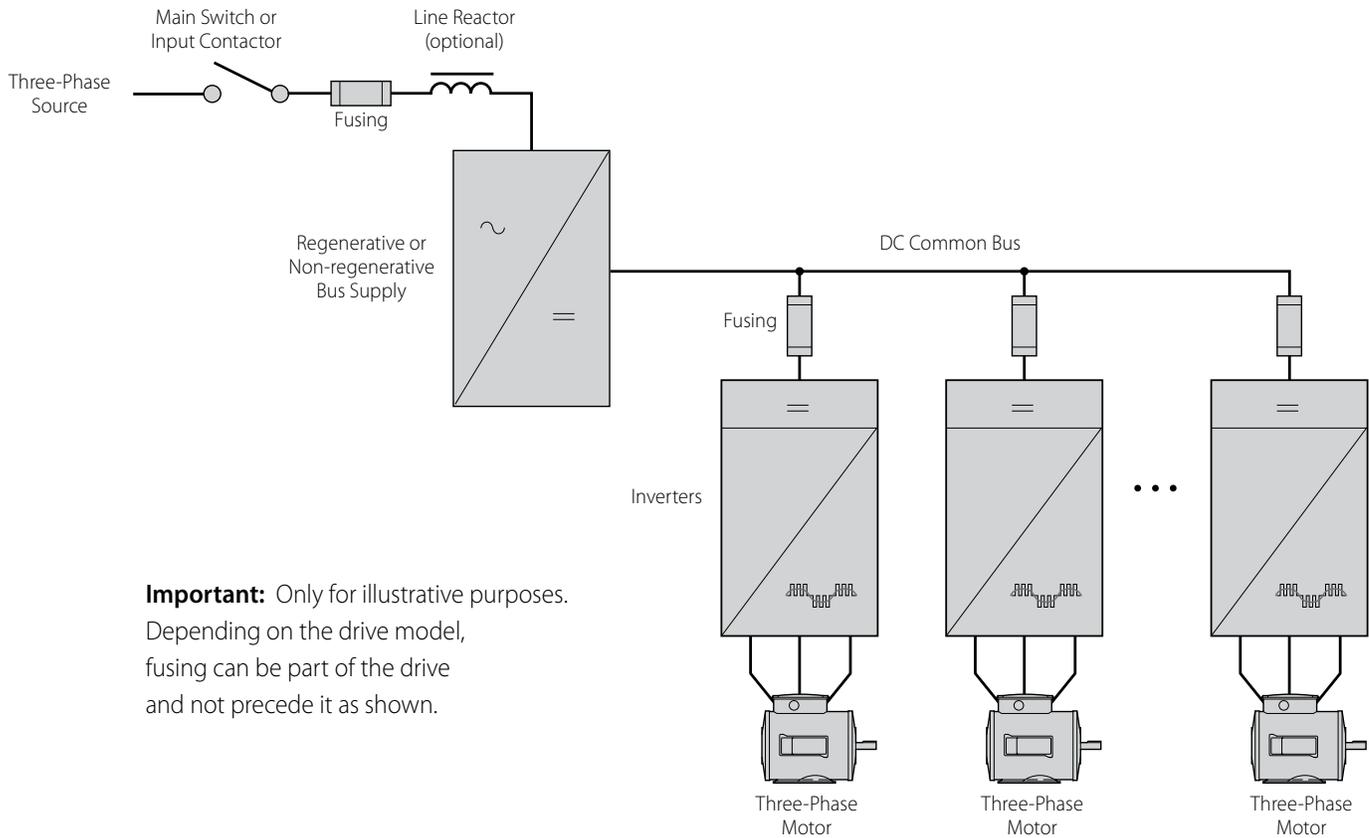
[Look to the entire family of PowerFlex drives to meet your application needs.](#)

Configuring PowerFlex drives with the Studio 5000 Logix Designer® application lets you consolidate controller programming and drive system configuration, operation, and maintenance into a single software environment.



Typical 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.



Important: Only for illustrative purposes. Depending on the drive model, fusing can be part of the drive and not precede it as shown.



PowerFlex 755T Drive Solutions

TotalFORCE Technology provides a proactive approach to improving uptime

Your investment is significant. The application is crucial. And improving productivity is essential. Finding the right AC drives to help optimize assets and make good use of valuable time is an important part of achieving your goals. That's why we developed the PowerFlex 755T drives. They have been built to help you save time, reduce costs and keep your machine up and running.

The PowerFlex 755T drives provide harmonic mitigation, regeneration 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 velocity, torque and position for electric motors. TotalFORCE technology incorporates several patented features that are designed to help optimize your system and maintain productivity.

The new PowerFlex 755T drives include:

- **PowerFlex 755TL Drive** – Provides harmonic mitigation and power factor correction through the use of 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. The drive also offers harmonic mitigation.
- **PowerFlex 755TM Drive System** – Select from a series of predesigned configurations for 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 offer harmonic mitigation, regeneration and common bus solutions
in a wide power range of 10...6000 Hp / 7.5...4500 kW***



We've continued to build on the value provided by PowerFlex 755T drives, including enhancements to patented TotalFORCE Technology. Here are some of the new features and benefits designed to help improve performance and flexibility:

- **Expanded Power Ratings** – A broad power range of 10...6000 Hp / 7.5...4500 kW allows the drives to be used in an even wider variety of applications. The lower power ratings are provided in compact, panel mount drives.
- **DeviceLogix™ Control** – Provides built-in drive capability to process logic locally and reduce demands on the controller and network. The ability to operate the drive independently or complementary to supervisory control can help speed reaction time by reducing dependency on network throughput.
- **Permanent Magnet Motor Control** – Provides energy-efficient addition to the wide variety of motors supported.
- **Anti-sway Technology** – Designed to improve safety and efficiency in crane and hoist applications by reducing the swinging of a moving load.
- **Power Loss Ride-through** – Helps increase uptime for applications susceptible to voltage or currents sags. During a power disturbance, the nominal DC bus voltage is maintained by using the stored energy captured in the DC bus capacitor bank. Drives meet SEMI F47 standard for voltage sag tolerance.
- **Emergency Override** – Will override fault conditions and allow the drive to continue running until the user issues a stop command. This feature can be useful in applications in which stopping the drive could be potentially dangerous and may result in an emergency situation.
- **Energy Pause** – Reduces fan speed and sets the PowerFlex 755T drive or Bus Supply into a low energy state to help reduce overall energy consumption.

These new features complement the established benefits of the PowerFlex 755T drives, including:

- **Predictive Diagnostics and Maintenance** – Help improve productivity by monitoring drive operating conditions and calculating the remaining life span of drive components, so preventive action can be taken if necessary
- **Harmonic Mitigation** – Drives meet the IEEE 519 standard (5% or less of total harmonic distortion)
- **Serviceability** – Designed with key components that are modular in design and easily accessible. This allows for simplified servicing and helps reduce both cost and service time
- **Roll in/out Design** – Makes the power and filter modules easy to install and service. Power wiring can stay connected while unit is rolled out
- **Patented Slot-based Hardware Structure** – Allows you to select option modules for safety, feedback, communications and I/O. Option modules can be added if and when you need them
- **Adaptive Control** – As your equipment operates, load observer and adaptive tuning monitor machine characteristics that can change over time and automatically compensate for the changes that occur
- **Voltage Boost Ride-Through** – Helps keep equipment running through power quality disturbances



A convenient service cart allows one person to easily insert or remove a module for easy installation and maintenance

Remote Monitoring & Analytics

Gaining insight into the performance of your automation machinery is the key to optimizing your operations and preventing costly downtime events. To help reduce your downtime, Rockwell Automation provides the Remote Monitoring & Analytics Service – using powerful visualization and dashboard tools coupled with a support center staffed by Rockwell Automation experts who monitor your assets in real time to help keep you operating. This service is available for all PowerFlex 755T drives and PowerFlex 755 floor mount drives.

PowerFlex 753 Drive

0.75...270 kW/1...400 Hp in input voltages from 540...932V DC

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.

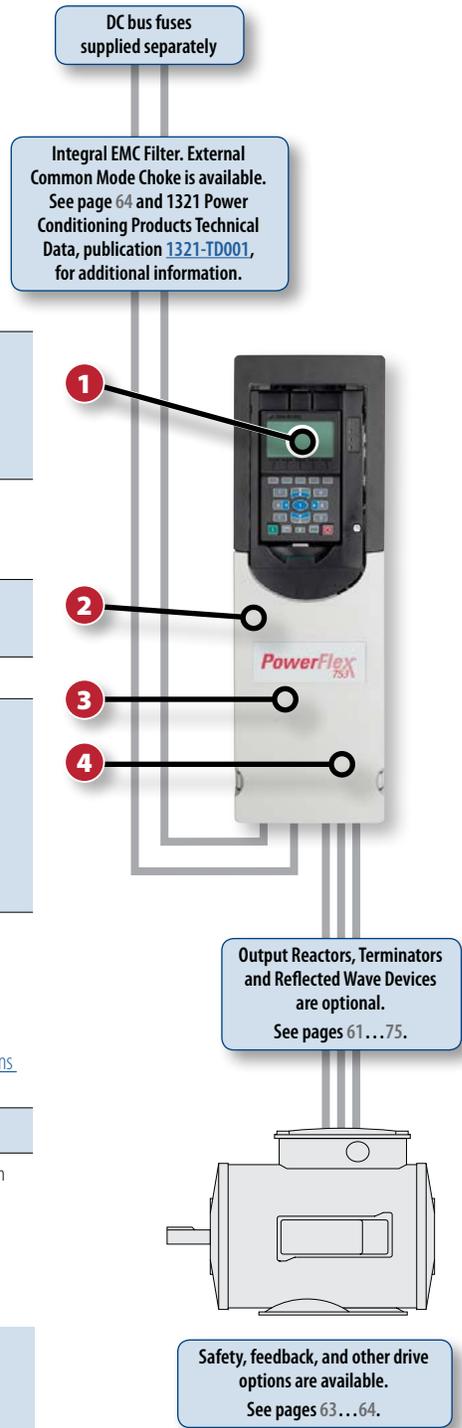
PowerFlex 753 at a Glance

Input Ratings	0.75...270 kW / 2.1...477 A 1...400 Hp / 2.1...477 A 1...300 Hp / 1...289 A 7.5...250 kW / 12...263 A	
Motor Control	<ul style="list-style-type: none"> V/Hz Control Sensorless Vector Control 	<ul style="list-style-type: none"> Vector Control with FORCE Technology (with and without encoder) Interior Permanent Magnet
Enclosures	<ul style="list-style-type: none"> IP00/IP20, NEMA/UL Type Open Flange Mount 	<ul style="list-style-type: none"> IP54, NEMA/UL Type 12
Safety	<ul style="list-style-type: none"> Safe Torque Off SIL3, PLc, CAT 3 	<ul style="list-style-type: none"> Safe Speed Monitor SIL3, PLc, CAT 4
Additional Features	<ul style="list-style-type: none"> DeviceLogix technology Predictive Diagnostics Adjustable Voltage Control Three option slots for I/O, feedback, safety, auxiliary control power, communications Indexing 	<ul style="list-style-type: none"> Pump Jack and Pump Off for oil well applications Pump and Traverse for fibers applications Conformal Coating DC Link Choke Automatic Device Configuration⁽¹⁾
Certifications	<ul style="list-style-type: none"> ATEX⁽²⁾ cULus CE EAC KCC 	<ul style="list-style-type: none"> RCM RoHS TÜV FS⁽³⁾ WEEE <p>For a complete list, search PowerFlex Certifications on literature.rockwellautomation.com</p>
Options	See pages 61...75	

(1) Requires Dual-port EtherNet/IP Option Module (Cat. No. 20-750-ENETR), firmware version 7, Studio 5000 Logix Designer, and Drive Add-On Profiles version 4.04 or higher.

(2) Certification requires 11-series I/O and ATEX daughter card options.

(3) Certification applies to 20-750-S and 20-750-S1 Safety Options when installed in drive.

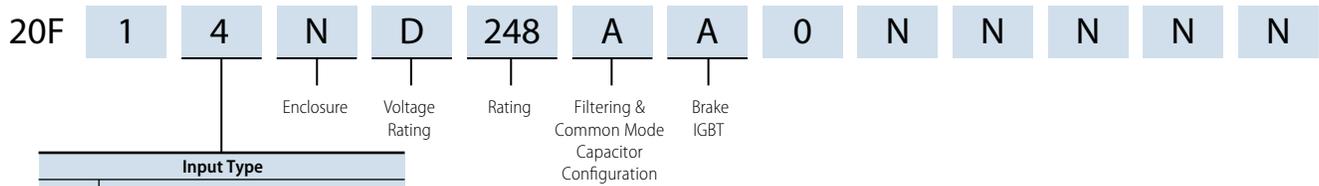


- 1** LCD Human Interface Module (HIM) with multi-language support in scrolling text available as optional accessory. See page 61 for other options.
- 2** Multiple communication options for industrial networks available. See page 62 for additional options.
- 3** Embedded I/O: 3 digital inputs, 1 relay output, 1 transistor output, 1 analog input, 1 analog output, and 1 PTC input. See page 63 for additional options.
- 4** Integral brake transistor on Frames 1...5, optional on Frames 6...7. For resistors, consult Rockwell Automation Encompass™ partners.

Additional Information

PowerFlex 750-Series Brochure, publication [750-BR001](#)
 PowerFlex 750-Series Technical Data, publication [750-TD001](#)
 PowerFlex 750-Series Quick Start Guide, publication [750-QS001](#)

Catalog Number Explanation



Input Type	
Code	Description
1	AC input with precharge and DC terminals
4	DC input with precharge

Product Selection

Common Bus Drives—540V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	2.3	3.2	0.75	1.3	2.3	3.2	0.37	20F11RC2P1JA0NNNNN	1
3.5	3.9	5.3	1.5	2.1	3.9	5.3	0.75	20F11RC3P5JA0NNNNN	
5	5.5	7.5	2.2	3.5	5.5	7.5	1.5	20F11RC5P0JA0NNNNN	
8.7	9.6	13.1	4	5	9.6	13.1	2.2	20F11RC8P7JA0NNNNN	
11.5	13.1	17.3	5.5	8.7	13.1	17.3	4	20F11RC011JA0NNNNN	
15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20F11RC015JA0NNNNN	
2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20F11NC2P1JA0NNNNN	2
3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20F11NC3P5JA0NNNNN	
5	7.5	9	2.2	5	7.5	9	2.2	20F11NC5P0JA0NNNNN	
8.7	13	15.6	4	8.7	13.0	15.6	4	20F11NC8P7JA0NNNNN	
11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20F11NC011JA0NNNNN	
15.4	16.9	23.1	7.5	11.5	17.2	20.7	5.5	20F11NC015JA0NNNNN	
22	24.2	33	11	15.4	24.2	33	7.5	20F11NC022JA0NNNNN	3
30	33	45	15	22	33	45	11	20F11NC030JA0NNNNN	
37	40.7	55.5	18.5	30	45	55.5	15	20F11NC037JA0NNNNN	
43	47.3	64.5	22	37	55.5	66.6	18.5	20F11NC043JA0NNNNN	
60	66	90	30	44	66	90	22	20F11NC060JA0NNNNN	4
72	79.2	108	37	60	90	108	30	20F11NC072JA0NNNNN	
85	93.5	128	45	72	108	130	37	20F14NC085JA0NNNNN	5
104	114	156	55	85	128	156	45	20F14NC104JA0NNNNN	
140	154	210	75	104	156	210	55	20F14NC140JNONNNNN ⁽³⁾	6
170	187	255	90	140	210	255	75	20F14NC170JNONNNNN ⁽³⁾	
205	226	308	110	170	255	308	90	20F14NC205JNONNNNN ⁽³⁾	
260	286	390	132	205	308	390	110	20F14NC260JNONNNNN ⁽³⁾	7
302	332	453	160	260	390	468	132	20F14NC302JNONNNNN ⁽³⁾	
367	404	551	200	302	453	551	160	20F14NC367JNONNNNN ⁽³⁾	
456	502	684	250	367	551	684	200	20F14NC456JNONNNNN ⁽³⁾	
477	525	716	270	367	551	684	200	20F14NC477JNONNNNN ⁽³⁾	

(1) Frames 1 . . . 5 are IP20, NEMA/UL Type Open. Frames 6 . . . 7 are IP00, NEMA/UL Type Open. Frames 1 . . . 7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives—540V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20F11GC2P1JA0NNNNN	2
3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20F11GC3P5JA0NNNNN	
5	7.5	9	2.2	5	7.5	9	2.2	20F11GC5P0JA0NNNNN	
8.7	13	15.6	4	8.7	13	15.6	4	20F11GC8P7JA0NNNNN	
11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20F11GC011JA0NNNNN	
15.4	16.9	23.1	7.5	11.5	17.2	20.7	5.5	20F11GC015JA0NNNNN	
22	24.2	33	11	15.4	24.2	33	7.5	20F11GC022JA0NNNNN	
30	33	45	15	22	33	45	11	20F11GC030JA0NNNNN	3
37	40.7	55.5	18.5	30	45	55.5	15	20F11GC037JA0NNNNN	
43	47.3	64.5	22	37	55.5	66.6	18.5	20F11GC043JA0NNNNN	
60	66	90	30	44	66	90	22	20F11GC060JA0NNNNN	4
72	79.2	108	37	60	90	108	30	20F14GC072JA0NNNNN	5
85	93.5	128	45	72	108	130	37	20F14GC085JA0NNNNN	
104	114	156	55	85	128	156	45	20F14GC104JNONNNNN ⁽²⁾	6
140	154	210	75	104	156	210	55	20F14GC140JNONNNNN ⁽²⁾	
170	187	255	90	140	210	255	75	20F14GC170JNONNNNN ⁽²⁾	
205	226	308	110	170	255	308	90	20F14GC205JNONNNNN ⁽²⁾	
260	286	390	132	205	308	390	110	20F14GC260JNONNNNN ⁽²⁾	7
302	332	453	160	260	390	468	132	20F14GC302JNONNNNN ⁽²⁾	
367	404	551	200	302	453	551	160	20F14GC367JNONNNNN ⁽²⁾	
456	502	684	250	367	551	684	200	20F14GC456JNONNNNN ⁽²⁾	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(2) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives—540V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (back/heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (kit 20-750-FLNG4-F6 for Frame 6, and kit 20-750-FLNG4-F7 for Frame 7). See page 10 for 540V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20F11FC2P1JA0NNNNN	2
3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20F11FC3P5JA0NNNNN	
5	7.5	9	2.2	5	7.5	9	2.2	20F11FC5P0JA0NNNNN	
8.7	13	15.6	4	8.7	13	15.6	4	20F11FC8P7JA0NNNNN	
11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20F11FC011JA0NNNNN	
15.4	16.9	23.1	7.5	11.5	17.2	20.7	5.5	20F11FC014JA0NNNNN	
22	24.2	33	11	15.4	24.2	33	7.5	20F11FC022JA0NNNNN	
30	33	45	15	22	33	45	11	20F11FC030JA0NNNNN	3
37	40.7	55.5	18.5	30	45	55.5	15	20F11FC037JA0NNNNN	
43	47.3	64.5	22	37	55.5	66.6	18.5	20F11FC043JA0NNNNN	
60	66	90	30	44	66	90	22	20F11FC060JA0NNNNN	4
72	79.2	108	37	60	90	108	30	20F11FC072JA0NNNNN	
85	93.5	128	45	72	108	130	37	20F14FC085JA0NNNNN	5
104	114	156	55	85	128	156	45	20F14FC104JA0NNNNN	

(1) The 11th character determines default filtering and common mode cap jumper configuration; 'J' = Installed, and 'A' = Removed.

Common Bus Drives—650V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	2.3	3.2	1	1.1	2.3	3.2	0.5	20F11RD2P1JA0NNNNN	1
3.4	3.7	5.1	2	2.8	4.2	5.1	1	20F11RD3P4JA0NNNNN	
5	5.5	7.5	3	3.4	5.5	7.5	2	20F11RD5P0JA0NNNNN	
8	8.8	12	5	5	8.8	12	3	20F11RD8P0JA0NNNNN	
11	12.1	16.5	7.5	8	12.1	16.5	5	20F11RD011JA0NNNNN	
14	15.4	21	10	11	16.5	21	7.5	20F11RD014JA0NNNNN	
2.1	3.1	3.7	1	2.1	3.1	3.7	1	20F11ND2P1JA0NNNNN	2
3.4	5.1	6.1	2	3.4	5.1	6.1	2	20F11ND3P4JA0NNNNN	
5	7.5	9	3	5	7.5	9	3	20F11ND5P0JA0NNNNN	
8	12	14.4	5	8	12	14.4	5	20F11ND8P0JA0NNNNN	
11	16.5	19.8	7.5	11	16.5	19.8	7.5	20F11ND011JA0NNNNN	
14	15.4	21	10	11	16.5	21	7.5	20F11ND014JA0NNNNN	
22	24.2	33	15	14	24.2	33	15	20F11ND022JA0NNNNN	3
27	29.7	40.5	20	22	33	40.5	15	20F11ND027JA0NNNNN	
34	37.4	51	25	27	40.5	51	20	20F11ND034JA0NNNNN	
40	44	60	30	34	51	61.2	25	20F11ND040JA0NNNNN	
52	57.2	78	40	40	60	78	30	20F11ND052JA0NNNNN	4
65	71.5	97.5	50	52	78	97.5	40	20F11ND065JA0NNNNN	
77	84.7	116	60	65	97.5	116	50	20F14ND077JA0NNNNN	5
96	106	144	75	77	116	144	60	20F14ND096JA0NNNNN	
125	138	188	100	96	144	188	75	20F14ND125JNONNNNN ⁽³⁾	6
156	172	234	125	125	188	234	100	20F14ND156JNONNNNN ⁽³⁾	
186	205	279	150	156	234	281	125	20F14ND186JNONNNNN ⁽³⁾	
248	273	372	200	186	279	372	150	20F14ND248JNONNNNN ⁽³⁾	
302	332	453	250	248	372	453	200	20F14ND302JNONNNNN ⁽³⁾	7
361	397	542	300	302	453	535	250	20F14ND361JNONNNNN ⁽³⁾	
415	457	623	350	361	542	650	300	20F14ND415JNONNNNN ⁽³⁾	
477	525	716	400	361	542	650	300	20F14ND477JNONNNNN ⁽³⁾	

(1) Frames 1 . . . 5 are IP20, NEMA/UL Type Open. Frames 6 . . . 7 are IP00, NEMA/UL Type Open. Frames 1 . . . 7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives—650V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	1	2.1	3.1	3.7	1	20F11GD2P1JA0NNNNN	2
3.4	5.1	6.1	2	3.4	5.1	6.1	2	20F11GD3P4JA0NNNNN	
5	7.5	9	3	5	7.5	9	3	20F11GD5P0JA0NNNNN	
8	12	14.4	5	8	12	14.4	5	20F11GD8P0JA0NNNNN	
11	16.5	19.8	7.5	11	16.5	19.8	7.5	20F11GD011JA0NNNNN	
14	15.4	21	10	11	16.5	21	7.5	20F11GD014JA0NNNNN	
22	24.2	33	15	14	24.2	33	15	20F11GD022JA0NNNNN	
27	29.7	40.5	20	22	33	40.5	15	20F11GD027JA0NNNNN	3
34	37.4	51	25	27	40.5	51	20	20F11GD034JA0NNNNN	
40	44	60	30	34	51	61.2	25	20F11GD040JA0NNNNN	
52	57.2	78	40	40	60	78	30	20F11GD052JA0NNNNN	4
65	71.5	97.5	50	52	78	97.5	40	20F14GD065JA0NNNNN	5
77	84.7	116	60	65	97.5	116	50	20F14GD077JA0NNNNN	
96	106	144	75	77	116	144	60	20F14GD096JNONNNNN ⁽²⁾	6
125	138	188	100	96	144	188	75	20F14GD125JNONNNNN ⁽²⁾	
156	172	234	125	125	188	234	100	20F14GD156JNONNNNN ⁽²⁾	
186	205	279	150	156	234	281	125	20F14GD186JNONNNNN ⁽²⁾	7
248	273	372	200	186	279	372	150	20F14GD248JNONNNNN ⁽²⁾	
302	332	453	250	248	372	453	200	20F14GD302JNONNNNN ⁽²⁾	
361	397	542	300	302	453	535	250	20F14GD361JNONNNNN ⁽²⁾	
415	457	623	350	361	542	650	300	20F14GD415JNONNNNN ⁽²⁾	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(2) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives–650V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (back/heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (kit 20-750-FLNG4-F6 for Frame 6, and kit 20-750-FLNG4-F7 for Frame 7). See page 13 for 650V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	1	2.1	3.1	3.7	1	20F11FD2P1JA0NNNNN	2
3.4	5.1	6.1	2	3.4	5.1	6.1	2	20F11FD3P4JA0NNNNN	
5	7.5	9	3	5	7.5	9.0	3	20F11FD5P0JA0NNNNN	
8	12	14.4	5	8	12	14.4	5	20F11FD8P0JA0NNNNN	
11	16.5	19.8	7.5	11	16.5	19.8	7.5	20F11FD011JA0NNNNN	
14	15.4	21	10	11	16.5	21	7.5	20F11FD014JA0NNNNN	
22	24.2	33	15	14	24.2	33	15	20F11FD022JA0NNNNN	
27	29.7	40.5	20	22	33	40.5	15	20F11FD027JA0NNNNN	3
34	37.4	51	25	27	40.5	51	20	20F11FD034JA0NNNNN	
40	44	60	30	34	51	61.2	25	20F11FD040JA0NNNNN	
52	57.2	78	40	40	60	78	30	20F11FD052JA0NNNNN	4
65	71.5	97.5	50	52	78	97.5	40	20F11FD065JA0NNNNN	
77	84.7	116	60	65	97.5	116	50	20F14FD077JA0NNNNN	5
96	106	144	75	77	116	144	60	20F14FD096JA0NNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

Common Bus Drives—810V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
1.7	1.9	2.6	1	1.7	1.4	2.6	1	20F11NE1P7JA0NNNNN	3
2.7	3	4.1	2	1.7	2.6	4.1	1	20F11NE2P7JA0NNNNN	
3.9	4.29	5.85	3	2.7	4.1	5.9	2	20F11NE3P9JA0NNNNN	
6.1	6.7	9.2	5	3.9	5.9	9.2	3	20F11NE6P1JA0NNNNN	
9	9.9	13.5	7.5	6.1	9.2	13.5	5	20F11NE9P0JA0NNNNN	
11	12.1	16.5	10	9	13.5	16.5	7.5	20F11NE011JA0NNNNN	
17	18.7	25.5	15	11	16.5	25.5	10	20F11NE017JA0NNNNN	
22	24.2	33	20	17	25.5	33	15	20F11NE022JA0NNNNN	
27	29.7	40.5	25	22	33	40.5	20	20F11NE027JA0NNNNN	4
32	35.2	48	30	27	40.5	48.6	25	20F11NE032JA0NNNNN	
41	45.1	61.5	40	32	48	61.5	30	20F14NE041JA0NNNNN	5
52	57.2	78	50	41	61.5	78	40	20F14NE052JA0NNNNN	
12	13.2	18	10	9.1	13.7	18	7.5	20F14NE012JNONNNNN ⁽³⁾	6
18	19.8	27	15	12	18	27	10	20F14NE018JNONNNNN ⁽³⁾	
23	25.3	34.5	20	18	27	34.5	15	20F14NE023JNONNNNN ⁽³⁾	
24	26.4	36	20	22	33	39.6	20	20F14NE024JNONNNNN ⁽³⁾	
28	30.8	42	25	23	34.5	42	20	20F14NE028JNONNNNN ⁽³⁾	
33	36.3	49.5	30	28	42	50.4	25	20F14NE033JNONNNNN ⁽³⁾	
42	46.2	63	40	33	49.5	63	30	20F14NE042JNONNNNN ⁽³⁾	
53	58	80	50	42	63	80	40	20F14NE053JNONNNNN ⁽³⁾	
63	69	95	60	52	78	95	50	20F14NE063JNONNNNN ⁽³⁾	
77	85	116	75	63	95	116	50	20F14NE077JNONNNNN ⁽³⁾	
99	109	149	100	77	116	149	60	20F14NE099JNONNNNN ⁽³⁾	
125	138	188	125	99	149	188	75	20F14NE125JNONNNNN ⁽³⁾	
144	158	216	150	125	188	225	100	20F14NE144JNONNNNN ⁽³⁾	7
192	211	288	200	144	216	288	125	20F14NE192JNONNNNN ⁽³⁾	
242	266	363	250	192	288	363	150	20F14NE242JNONNNNN ⁽³⁾	
289	318	434	300	242	363	436	200	20F14NE289JNONNNNN ⁽³⁾	

(1) Frames 3...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 3...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives—810V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
1.7	1.9	2.6	1	1.7	1.4	2.6	1	20F11GE1P7JA0NNNNN	3
2.7	3	4.1	2	1.7	2.6	4.1	1	20F11GE2P7JA0NNNNN	
3.9	4.29	5.85	3	2.7	4.1	5.9	2	20F11GE3P9JA0NNNNN	
6.1	6.7	9.2	5	3.9	5.9	9.2	3	20F11GE6P1JA0NNNNN	
9	9.9	13.5	7.5	6.1	9.2	13.5	5	20F11GE9P0JA0NNNNN	
11	12.1	16.5	10	9	13.5	16.5	7.5	20F11GE011JA0NNNNN	
17	18.7	25.5	15	11	16.5	25.5	10	20F11GE017JA0NNNNN	
22	24.2	33	20	17	25.5	33	15	20F11GE022JA0NNNNN	
27	29.7	40.5	25	22	33	40.5	20	20F11GE027JA0NNNNN	4
32	35.2	48	30	27	40.5	48.6	25	20F11GE032JA0NNNNN	
41	45.1	61.5	40	32	48	61.5	30	20F14GE041JA0NNNNN	5
12	13.2	18	10	9.1	13.7	18	7.5	20F14GE012JN0NNNNN ⁽²⁾	6
18	19.8	27	15	12	18	27	10	20F14GE018JN0NNNNN ⁽²⁾	
23	25.3	34.5	20	18	27	34.5	15	20F14GE023JN0NNNNN ⁽²⁾	
24	26.4	36	20	22	33	39.6	20	20F14GE024JN0NNNNN ⁽²⁾	
28	30.8	42	25	23	34.5	42	20	20F14GE028JN0NNNNN ⁽²⁾	
33	36.3	49.5	30	28	42	50.4	25	20F14GE033JN0NNNNN ⁽²⁾	
42	46.2	63	40	33	49.5	63	30	20F14GE042JN0NNNNN ⁽²⁾	
53	58	80	50	42	63	80	40	20F14GE053JN0NNNNN ⁽²⁾	
63	69	95	60	52	78	95	50	20F14GE063JN0NNNNN ⁽²⁾	
77	85	116	75	63	95	116	50	20F14GE077JN0NNNNN ⁽²⁾	
99	109	149	100	77	116	149	60	20F14GE099JN0NNNNN ⁽²⁾	
125	138	188	125	99	149	188	75	20F14GE125JN0NNNNN ⁽²⁾	
144	158	216	150	125	188	225	100	20F14GE144JN0NNNNN ⁽²⁾	
192	211	288	200	144	216	288	125	20F14GE192JN0NNNNN ⁽²⁾	7
242	266	363	250	192	288	363	150	20F14GE242JN0NNNNN ⁽²⁾	
289	318	434	300	242	363	436	200	20F14GE289JN0NNNNN ⁽²⁾	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(2) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives—810V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (back/heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (kit 20-750-FLNG4-F6 for Frame 6, and kit 20-750-FLNG4-F7 for Frame 7). See page 16 for 810V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
1.7	1.9	2.6	1	1.7	1.4	2.6	1	20F11FE1P7JA0NNNNN	3
2.7	3	4.1	2	1.7	2.6	4.1	1	20F11FE2P7JA0NNNNN	
3.9	4.29	5.85	3	2.7	4.1	5.9	2	20F11FE3P9JA0NNNNN	
6.1	6.7	9.2	5	3.9	5.9	9.2	3	20F11FE6P1JA0NNNNN	
9	9.9	13.5	7.5	6.1	9.2	13.5	5	20F11FE9P0JA0NNNNN	
11	12.1	16.5	10	9	13.5	16.5	7.5	20F11FE011JA0NNNNN	
17	18.7	25.5	15	11	16.5	25.5	10	20F11FE017JA0NNNNN	
22	24.2	33	20	17	25.5	33	15	20F11FE022JA0NNNNN	4
27	29.7	40.5	25	22	33	40.5	20	20F11FE027JA0NNNNN	
32	35.2	48	30	27	40.5	48.6	25	20F11FE032JA0NNNNN	
41	45.1	61.5	40	32	48	61.5	30	20F14FE041JA0NNNNN	5
52	57.2	78.0	50	41	61.5	78	40	20F14FE052JA0NNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

Common Bus Drives–932V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Normal Duty				Heavy Duty				Cat. No. ⁽²⁾⁽³⁾	Frame Size
Output Amps			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
12	13.2	18	7.5	9	13.5	18	5.5	20F14NF012JNONNNNN	6
15	16.5	22.5	11	12	18	22.5	7.5	20F14NF015JNONNNNN	
20	22	30	15	15	22.5	30	11	20F14NF020JNONNNNN	
23	25.3	34.5	18.5	20	30	36	15	20F14NF023JNONNNNN	
30	33	45	22	23	34.5	45	18.5	20F14NF030JNONNNNN	
34	37.4	51	30	30	45	54	22	20F14NF034JNONNNNN	
46	50.6	69	37	34	51	69	30	20F14NF046JNONNNNN	
50	55	75	45	46	69	83	37	20F14NF050JNONNNNN	
61	67	92	55	50	75	92	45	20F14NF061JNONNNNN	
82	90	123	75	61	92	123	55	20F14NF082JNONNNNN	
98	108	147	90	82	123	148	75	20F14NF098JNONNNNN	
119	131	179	110	98	147	179	90	20F14NF119JNONNNNN	
142	156	213	132	119	179	214	110	20F14NF142JNONNNNN	
171	188	257	160	142	213	257	132	20F14NF171JNONNNNN	
212	233	318	200	171	257	318	160	20F14NF212JNONNNNN	
263	289	395	250	212	318	395	200	20F14NF263JNONNNNN	

(1) Frames 6...7 are IP00, NEMA/UL Type Open. Frames 1...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Common Bus Drives–932V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Normal Duty				Heavy Duty				Cat. No. ⁽²⁾⁽³⁾	Frame Size
Outputs Amp			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
12	13.2	18	7.5	9	13.5	18	5.5	20F14GF012JNONNNNN	6
15	16.5	22.5	11	12	18	22.5	7.5	20F14GF015JNONNNNN	
20	22	30	15	15	22.5	30	11	20F14GF020JNONNNNN	
23	25.3	34.5	18.5	20	30	36	15	20F14GF023JNONNNNN	
30	33	45	22	23	34.5	45	18.5	20F14GF030JNONNNNN	
34	37.4	51	30	30	45	54	22	20F14GF034JNONNNNN	
46	50.6	69	37	34	51	69	30	20F14GF046JNONNNNN	
50	55	75	45	46	69	83	37	20F14GF050JNONNNNN	
61	67	92	55	50	75	92	45	20F14GF061JNONNNNN	
82	90	123	75	61	92	123	55	20F14GF082JNONNNNN	
98	108	147	90	82	123	148	75	20F14GF098JNONNNNN	
119	131	179	110	98	147	179	90	20F14GF119JNONNNNN	
142	156	213	132	119	179	214	110	20F14GF142JNONNNNN	
171	188	257	160	142	213	257	132	20F14GF171JNONNNNN	
212	233	318	200	171	257	318	160	20F14GF212JNONNNNN	
263	289	395	250	212	318	395	200	20F14GF263JNONNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; 'J' = Installed, and 'A' = Removed.

(2) The 12th character determines whether an internal dynamic braking IGBT is included; 'A' = Internal dynamic braking transistor installed, and 'N' = No internal dynamic braking transistor.

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (Back/Heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (20-750-FLNG4-F6 for Frame 6, and 20-750-FLNG4-F7 for Frame 7).

See page 19 for 932V DC, Frame 6...7 IP00, NEMA Type Open drives.

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⁾
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)

(1) Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.

IP54, NEMA/UL Type 12

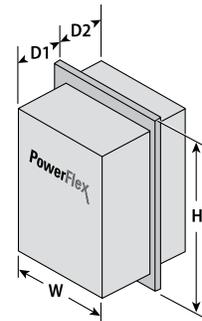
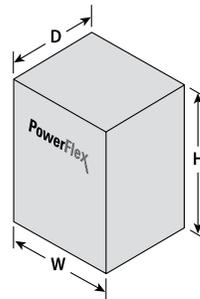
Frame	H	W	D	Weight ⁽¹⁾
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8 (17)
3	551 (21.69)	268 (10.55)	220.1 (8.67)	12 (26)
4	571 (22.48)	300 (11.81)		14 (30)
5	647 (25.47)	348.0 (13.7)		20 (45)
6	1298.3 (51.11)	609.4 (24)	464.7 (18.3)	91 (200)
7	1614 (63.54)			162 (357)

(1) Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.

Flange Mount

Frame	H	W	D1	D2	Weight ⁽¹⁾
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)

(1) Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.



PowerFlex 755 Drive

0.75...1500 kW/1...2000 Hp in input voltages from 540...932V DC

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 a variety of 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.

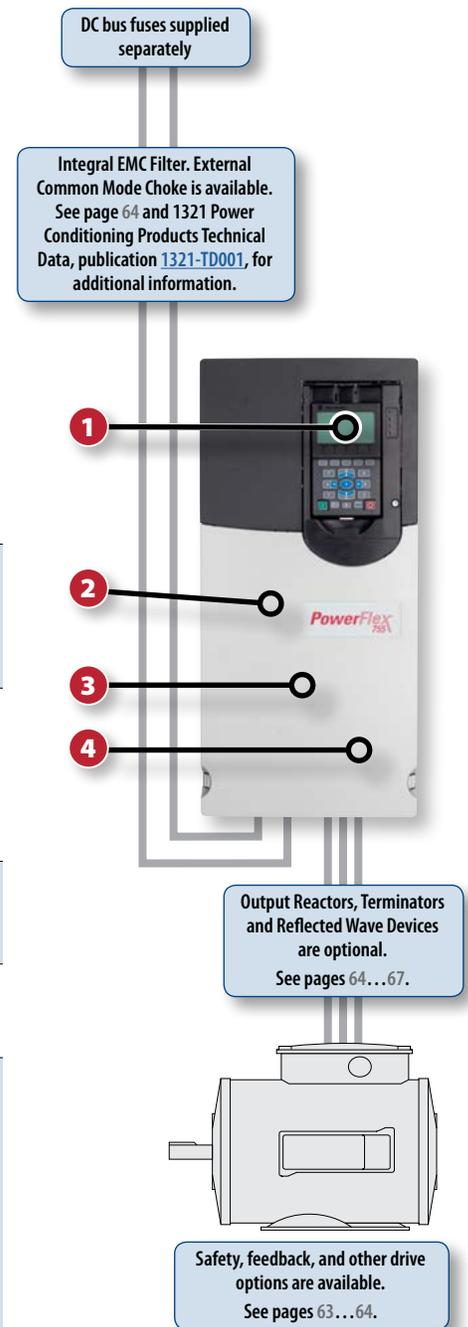
The PowerFlex 755 common bus DC drive can be configured and programmed by using motions instructions within the Studio 5000 environment that are shared with Kinetix servo drives. This common user experience helps to reduce complexity and save valuable engineering time.

PowerFlex 755 at a Glance

Input Ratings	540V DC 0.75...1400 kW / 2.1...2330 A 650V DC 1...2000 Hp / 2.1...2240 A 810V DC 1...1500 Hp / 1.7...1530 A 932V DC 7.5...1500 kW / 12...1485 A	
Motor Control	<ul style="list-style-type: none"> V/Hz Control Sensorless Vector Control Vector Control with FORCE Technology (with and without encoder) 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> IP00/IP20, NEMA/UL Type Open Flange Mount IP54/NEMA/UL Type 12 	<ul style="list-style-type: none"> IP20, NEMA/UL Type 1 (MCC Style Cabinet) IP54, NEMA Type 12 (MCC Style Cabinet)
Safety	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 	<ul style="list-style-type: none"> Networked Safe Torque Off SIL3, PLe, CAT 3 Integrated Safety Functions Option SIL3, PLe, CAT4
Additional Features	<ul style="list-style-type: none"> Built-in EtherNet/IP Port Automatic Device Configuration Program with motion instructions in Studio 5000 Logix Designer™ Software Predictive Diagnostics Adjustable Voltage Control Five option slots for I/O, feedback, safety, auxiliary control power, communications Accurate positioning with PCAM, Indexer, Electronic Gearing, and speed/position profiling Incremental, Absolute and High Resolution feedback supported 	
Certifications	<ul style="list-style-type: none"> ATEX⁽¹⁾ cULus CE EAC KCC 	<ul style="list-style-type: none"> RCM RoHS TÜV FS⁽²⁾ WEEE <p>For a complete list, search PowerFlex Certifications on literature.rockwellautomation.com</p>
Options	See pages 61...75	

(1) Certification requires 11-series I/O and ATEX daughter card options.

(2) Certification applies to 20-750-S, 20-750-S1, 20-750-S3, and 20-750-S4 safety options when installed in drive.



- 1** LCD HIM with multi-language support in scrolling text available as optional accessory. See page 61 for other options.
- 2** Communications: Embedded EtherNet/IP. See page 62 for additional options.
- 3** Embedded I/O: 1 Digital Input. See page 63 for other options.
- 4** Integral brake transistor on Frames 1...5, optional on Frames 6...7. For resistors, consult Rockwell Automation Encompass™ partners.

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 is 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.



IP20, NEMA Type 1 Common Bus Drive (2500 MCC Style Cabinet)
(Frame 9 shown)

Includes: Integrated fuses, roll-out design, sealed air channel, exhaust hood, and control/protection devices.



Roll-out Design
(Frame 8 shown)

A roll-out cart is required for Frame 8...10 drives and Frame 9...10 optional bay chassis. The cart has an adjustable Curb Height of 0...182 mm (0...7.2 in.) and curb offset/reach of 0...114 mm (0...4.5 in.). See page 64 for ordering information.

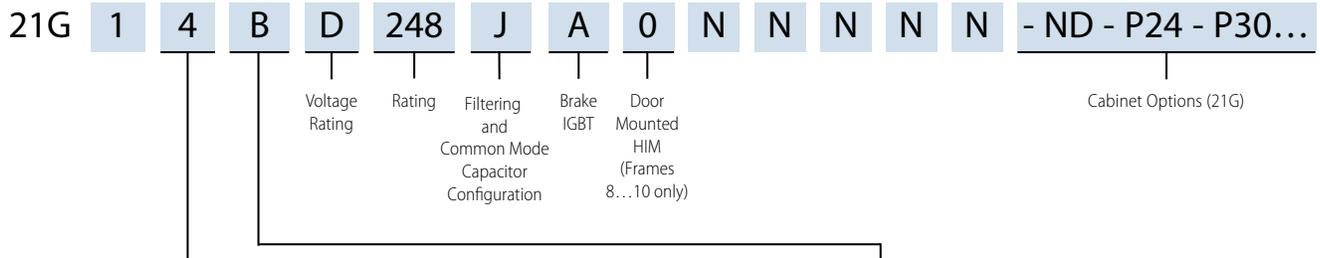
Additional Information

PowerFlex 750-Series Brochure, publication [750-BR001](#)

PowerFlex 750-Series Technical Data, publication [750-TD001](#)

PowerFlex 750-Series Quick Start Guide, publication [750-QS001](#)

Catalog Number Explanation



Input Type	
Code	Description
1	AC input with precharge and DC terminals
4	DC input with precharge

Enclosure Type*	
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)

* Frames 9 and 10 are only available in Code P or W Enclosure Types.

Product Selection

Common Bus Drives—540V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾	Frame Size
Output Amps		kW	Output Amps			kW	Output Amps			kW		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	2.1	2.3	3.2	0.75	1.3	2.3	3.2	0.37	20G11RC2P1JA0NNNNN	1
			3.5	3.9	5.3	1.5	2.1	3.9	5.3	0.75	20G11RC3P5JA0NNNNN	
			5	5.5	7.5	2.2	3.5	5.5	7.5	1.5	20G11RC5P0JA0NNNNN	
			8.7	9.6	13.1	4	5	9.6	13.1	2.2	20G11RC8P7JA0NNNNN	
			11.5	13.1	17.3	5.5	8.7	13.1	17.3	4	20G11RC011JA0NNNNN	
			15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20G11RC015JA0NNNNN	
			2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20G11NC2P1JA0NNNNN	2
			3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20G11NC3P5JA0NNNNN	
			5	7.5	9	2.2	5	7.5	9	2.2	20G11NC5P0JA0NNNNN	
			8.7	13	15.6	4	8.7	13	15.6	4	20G11NC8P7JA0NNNNN	
			11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20G11NC011JA0NNNNN	
			15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20G11NC015JA0NNNNN	
			22	24.2	33	11	15.4	24.2	33	7.5	20G11NC022JA0NNNNN	3
			30	33	45	15	22	33	45	11	20G11NC030JA0NNNNN	
			37	40.7	55.5	18.5	30	45	55.5	15	20G11NC037JA0NNNNN	
			43	47.3	64.5	22	37	55.5	66.6	18.5	20G11NC043JA0NNNNN	
			60	66	90	30	44	66	90	22	20G11NC060JA0NNNNN	4
			72	79.2	108	37	60	90	108	30	20G11NC072JA0NNNNN	
			85	93.5	128	45	72	108	130	37	20G14NC085JA0NNNNN	5
			104	114	156	55	85	128	156	45	20G14NC104JA0NNNNN	
			140	154	210	75	104	156	210	55	20G14NC140JNONNNNN ⁽⁴⁾	6
			170	187	255	90	140	210	255	75	20G14NC170JNONNNNN ⁽⁴⁾	
			205	226	308	110	170	255	308	90	20G14NC205JNONNNNN ⁽⁴⁾	
			260	286	390	132	205	308	390	110	20G14NC260JNONNNNN ⁽⁴⁾	
			302	332	453	160	260	390	468	132	20G14NC302JNONNNNN ⁽⁴⁾	7
			367	404	551	200	302	453	551	160	20G14NC367JNONNNNN ⁽⁴⁾	
			456	502	684	250	367	551	684	200	20G14NC456JNONNNNN ⁽⁴⁾	
			477	525	716	270	367	551	684	200	20G14NC477JNONNNNN ⁽⁴⁾	

(1) Frames 1...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 1...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating available only on Frame 8...10 drives. Light duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(table continues on next page)

Common Bus Drives—540V DC Nominal Input (continued)

IP00/IP20, NEMA/UL Type Open (continued)⁽¹⁾

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Base Drive Cat. No. ⁽³⁾⁽⁴⁾	Frame Size
Output Amps		kW	Output Amps			kW	Output Amps			kW		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
540	594	315	460	506	690	250	385	578	693	200	21G14*C460JNONNNNN	8 ⁽⁶⁾
585	644	315	540	594	810	315	456	684	821	250	21G14*C540JNONNNNN	
612	673	355	567	624	851	315	472	708	850	250	21G14*C567JNONNNNN	
750	825	400	650	715	975	355	540	810	972	315	21G14*C650JNONNNNN	
796	876	450	750	825	1125	400	585	878	1053	315	21G14*C750JNONNNNN	
832	915	450	770	847	1155	400	642	963	1156	355	21G14*C770JNONNNNN	
1040	1144	560	910	1001	1365	500	750	1125	1350	400	21G14*C910JNONNNNN	9 ⁽⁶⁾
1090	1199	630	1040	1144	1560	560	880	1320	1584	500	21G14*C1K0JNONNNNN	
1175	1293	710	1090	1199	1635	630	910	1365	1638	500	21G14*C1K1JNONNNNN	
1465	1612	800	1175	1293	1763	710	1040	1560	1872	560	21G14*C1K2JNONNNNN	
1480	1628	850	1465	1612	2198	800	1090	1635	1962	630	21G14*C1K4JNONNNNN	
1600	1760	900	1480	1628	2220	850	1175	1763	2115	710	21G14*C1K5JNONNNNN	
1715	1887	1000	1590	1749	2385	900	1325	1988	2385	710	21G14*C1K6JNONNNNN	10 ⁽⁶⁾
2330	2563	1400	2150	2365	3225	1250	1800	2700	3240	1000	21G14*C2K1JNONNNNN	

(1) Frames 1...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 1...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(4) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(5) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(6) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—540V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Light Duty ⁽¹⁾			Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps		kW	Output Amps			kW	Output Amps			kW		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20G11GC2P1JA0N0NNNN	2
			3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20G11GC3P5JA0N0NNNN	
			5	7.5	9	2.2	5	7.5	9.0	2.2	20G11GC5P0JA0N0NNNN	
			8.7	13	15.6	4	8.7	13	15.6	4	20G11GC8P7JA0N0NNNN	
			11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20G11GC011JA0N0NNNN	
			15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20G11GC015JA0N0NNNN	
			22	24.2	33	11	15.4	24.2	33	7.5	20G11GC022JA0N0NNNN	
			30	33	45	15	22	33	45	11	20G11GC030JA0N0NNNN	3
			37	40.7	55.5	18.5	30	45	55.5	15	20G11GC037JA0N0NNNN	
			43	47.3	64.5	22	37	55.5	66.6	18.5	20G11GC043JA0N0NNNN	
			60	66	90	30	44	66	90	22	20G11GC060JA0N0NNNN	4
			72	79.2	108	37	60	90	108	30	20G14GC072JA0N0NNNN	5
			85	93.5	128	45	72	108	130	37	20G14GC085JA0N0NNNN	6
			104	114	156	55	85	128	156	45	20G14GC104JNON0NNNN ⁽⁴⁾	
			140	154	210	75	104	156	210	55	20G14GC140JNON0NNNN ⁽⁴⁾	
			170	187	255	90	140	210	255	75	20G14GC170JNON0NNNN ⁽⁴⁾	
			205	226	308	110	170	255	308	90	20G14GC205JNON0NNNN ⁽⁴⁾	
			260	286	390	132	205	308	390	110	20G14GC260JNON0NNNN ⁽⁴⁾	
			302	332	453	160	260	390	468	132	20G14GC302JNON0NNNN ⁽⁴⁾	
			367	404	551	200	302	453	551	160	20G14GC367JNON0NNNN ⁽⁴⁾	7
			456	502	684	250	367	551	684	200	20G14GC456JNON0NNNN ⁽⁴⁾	
540	594	315	460	506	690	250	385	578	693	200	21G14*C460JNON0NNNN ⁽³⁾	8 ⁽⁵⁾
585	644	315	540	594	810	315	456	684	821	250	21G14*C540JNON0NNNN ⁽³⁾	9 ⁽⁵⁾
612	673	355	567	624	851	315	472	708	850	250	21G14*C567JNON0NNNN ⁽³⁾	
750	825	400	650	715	975	355	540	810	972	315	21G14*C650JNON0NNNN ⁽³⁾	
796	876	450	750	825	1125	400	585	878	1053	315	21G14*C750JNON0NNNN ⁽³⁾	
832	915	450	770	847	1155	400	642	963	1156	355	21G14*C770JNON0NNNN ⁽³⁾	
1040	1144	560	910	1001	1365	500	750	1125	1350	400	21G14*C910JNON0NNNN ⁽³⁾	
1090	1199	630	1040	1144	1560	560	880	1320	1584	500	21G14*C1K0JNON0NNNN ⁽³⁾	
1175	1293	710	1090	1199	1635	630	910	1365	1638	500	21G14*C1K1JNON0NNNN ⁽³⁾	
1465	1612	800	1175	1293	1763	710	1040	1560	1872	560	21G14*C1K2JNON0NNNN ⁽³⁾	
1480	1628	850	1465	1612	2198	800	1090	1635	1962	630	21G14*C1K4JNON0NNNN ⁽³⁾	
1600	1760	900	1480	1628	2220	850	1175	1763	2115	710	21G14*C1K5JNON0NNNN ⁽³⁾	
1715	1887	1000	1590	1749	2385	900	1325	1988	2385	710	21G14*C1K6JNON0NNNN ⁽³⁾	10 ⁽⁵⁾
2330	2563	1400	2150	2365	3225	1250	1800	2700	3240	1000	21G14*C2K1JNON0NNNN ⁽³⁾	

(1) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

(3) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(5) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—540V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (Back/Heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (20-750-FLNG4-F6 for Frame 6, and 20-750-FLNG4-F7 for Frame 7). See page 26 for 540V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Outputs Amp			kW	Output Amps			kW		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20G11FC2P1JA0NNNNN	2
3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20G11FC3P5JA0NNNNN	
5	7.5	9	2.2	5	7.5	9	2.2	20G11FC5P0JA0NNNNN	
8.7	13	15.6	4	8.7	13	15.6	4	20G11FC8P7JA0NNNNN	
11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20G11FC011JA0NNNNN	
15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20G11FC015JA0NNNNN	
22	24.2	33	11	15.4	24.2	33	7.5	20G11FC022JA0NNNNN	
30	33	45	15	22	33	45	11	20G11FC030JA0NNNNN	3
37	40.7	55.5	18.5	30	45	55.5	15	20G11FC037JA0NNNNN	
43	47.3	64.5	22	37	55.5	66.6	18.5	20G11FC043JA0NNNNN	
60	66	90	30	44	66	90	22	20G11FC060JA0NNNNN	4
72.0	79.2	108	37	60	90	108	30	20G11FC072JA0NNNNN	
85	93.5	128	45	72	108	130	37	20G14FC085JA0NNNNN	5
104	114	156	55	85	128	156	45	20G14FC104JA0NNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

Common Bus Drives—650V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾	Frame Size
Output Amps		Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	2.1	2.3	3.2	1	1.1	2.3	3.2	0.5	20G11RD2P1JA0NNNNN	1
			3.4	3.7	5.1	2	2.8	4.2	5.1	1	20G11RD3P4JA0NNNNN	
			5	5.5	7.5	3	3.4	5.5	7.5	2	20G11RD5P0JA0NNNNN	
			8	8.8	12	5	5	8.8	12	3	20G11RD8P0JA0NNNNN	
			11	12.1	16.5	7.5	8	12.1	16.5	5	20G11RD011JA0NNNNN	
			14	15.4	21	10	11	16.5	21	7.5	20G11RD014JA0NNNNN	
			2.1	3.1	3.7	1	2.1	3.1	3.7	1	20G11ND2P1JA0NNNNN	2
			3.4	5.1	6.1	2	3.4	5.1	6.1	2	20G11ND3P4JA0NNNNN	
			5	7.5	9.0	3	5	7.5	9	3	20G11ND5P0JA0NNNNN	
			8	12	14.4	5	8	12	14.4	5	20G11ND8P0JA0NNNNN	
			11	16.5	19.8	7.5	11	16.5	19.8	7.5	20G11ND011JA0NNNNN	
			14	15.4	21	10	11	16.5	21	7.5	20G11ND014JA0NNNNN	
			22	24.2	33	15	14	24.2	33	15	20G11ND022JA0NNNNN	3
			27	29.7	40.5	20	22	33	40.5	15	20G11ND027JA0NNNNN	
			34	37.4	51	25	27	40.5	51	20	20G11ND034JA0NNNNN	
			40	44	60	30	34	51	61.2	25	20G11ND040JA0NNNNN	
			52	57.2	78.0	40	40	60	78	30	20G11ND052JA0NNNNN	4
			65	71.5	97.5	50	52	78	97.5	40	20G11ND065JA0NNNNN	
			77	84.7	116	60	65	97.5	116	50	20G14ND077JA0NNNNN	5
			96	106	144	75	77	116	144	60	20G14ND096JA0NNNNN	
			125	138	188	100	96	144	188	75	20G14ND125JNONNNNN ⁽⁴⁾	6
			156	172	234	125	125	188	234	100	20G14ND156JNONNNNN ⁽⁴⁾	
			186	205	279	150	156	234	281	125	20G14ND186JNONNNNN ⁽⁴⁾	
			248	273	372	200	186	279	372	150	20G14ND248JNONNNNN ⁽⁴⁾	
			302	332	453	250	248	372	453	200	20G14ND302JNONNNNN ⁽⁴⁾	7
			361	397	542	300	302	453	535	250	20G14ND361JNONNNNN ⁽⁴⁾	
			415	457	623	350	361	542	650	300	20G14ND415JNONNNNN ⁽⁴⁾	
			477	525	716	400	361	542	650	300	20G14ND477JNONNNNN ⁽⁴⁾	

(1) Frames 1...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 1...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(table continues on next page)

Common Bus Drives—650V DC Nominal Input (continued)

IP00/IP20, NEMA/UL Type Open (continued)⁽¹⁾

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾⁽⁴⁾	Frame Size
Output Amps		Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
485	534	400	430	473	645	350	370	555	666	300	21G14*D430JNONNNNN	8 ⁽⁶⁾
545	600	450	485	534	728	400	414	621	745	350	21G14*D485JNONNNNN	
590	649	500	545	600	818	450	454	681	817	350	21G14*D545JNONNNNN	
710	781	600	617	679	926	500	485	728	873	400	21G14*D617JNONNNNN	
765	842	650	710	781	1065	600	545	818	981	450	21G14*D710JNONNNNN	
800	880	700	740	814	1110	650	617	926	1111	500	21G14*D740JNONNNNN	
960	1056	800	800	880	1200	700	710	1065	1278	600	21G14*D800JNONNNNN	9 ⁽⁶⁾
1045	1150	900	960	1056	1440	800	795	1193	1431	700	21G14*D960JNONNNNN	
1135	1249	1000	1045	1150	1568	900	800	1200	1440	750	21G14*D1K0JNONNNNN	
1365	1502	1100	1135	1249	1703	1000	960	1440	1728	800	21G14*D1K2JNONNNNN	
1420	1562	1250	1365	1502	2048	1100	1045	1568	1881	900	21G14*D1K3JNONNNNN	
1540	1694	1350	1420	1562	2130	1250	1135	1703	2043	1000	21G14*D1K4JNONNNNN	
1655	1821	1500	1525	1678	2288	1350	1270	1905	2286	1100	21G14*D1K5JNONNNNN	10 ⁽⁶⁾
2240	2464	2000	2070	2277	3105	1750	1730	2595	3114	1650	21G14*D2K0JNONNNNN	

(1) Frames 1...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 1...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(4) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(5) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(6) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—650V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Light Duty ⁽¹⁾			Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size	
Output Amps		Hp	Output Amps			Hp	Output Amps			Hp			
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s				
—	—	—	2.1	3.1	3.7	1	2.1	3.1	3.7	1	20G11GD2P1JA0NNNNN	2	
			3.4	5.1	6.1	2	3.4	5.1	6.1	2	20G11GD3P4JA0NNNNN		
			5	7.5	9	3	5	7.5	9	3	20G11GD5P0JA0NNNNN		
			8	12	14.4	5	8	12	14.4	5	20G11GD8P0JA0NNNNN		
			11	16.5	19.8	7.5	11	16.5	19.8	7.5	20G11GD011JA0NNNNN		
			14	15.4	21	10	11	16.5	21	7.5	20G11GD014JA0NNNNN		
			22	24.2	33	15	14	24.2	33	15	20G11GD022JA0NNNNN		
			27	29.7	40.5	20	22	33	40.5	15	20G11GD027JA0NNNNN	3	
			34	37.4	51	25	27	40.5	51	20	20G11GD034JA0NNNNN		
			40	44	60	30	34	51	61.2	25	20G11GD040JA0NNNNN		
			52	57.2	78	40	40	60	78	30	20G11GD052JA0NNNNN	4	
			65	71.5	97.5	50	52	78	97.5	40	20G14GD065JA0NNNNN	5	
			77	84.7	116	60	65	97.5	116	50	20G14GD077JA0NNNNN	6	
			96	106	144	75	77	116	144	60	20G14GD096JNONNNNN ⁽³⁾		
			125	138	188	100	96	144	188	75	20G14GD125JNONNNNN ⁽³⁾		
			156	172	234	125	125	188	234	100	20G14GD156JNONNNNN ⁽³⁾		
			186	205	279	150	156	234	281	125	20G14GD186JNONNNNN ⁽³⁾		
			248	273	372	200	186	279	372	150	20G14GD248JNONNNNN ⁽³⁾	7	
			302	332	453	250	248	372	453	200	20G14GD302JNONNNNN ⁽³⁾		
			361	397	542	300	302	453	535	250	20G14GD361JNONNNNN ⁽³⁾		
			415	457	623	350	361	542	650	300	20G14GD415JNONNNNN ⁽³⁾		
485	534	400	430	473	645	350	370	555	666	300	21G14*D430JNONNNNN ⁽⁴⁾		8 ⁽⁵⁾
545	600	450	485	534	728	400	414	621	745	350	21G14*D485JNONNNNN ⁽⁴⁾		
590	649	500	545	600	818	450	454	681	817	350	21G14*D545JNONNNNN ⁽⁴⁾		
710	781	600	617	679	926	500	485	728	873	400	21G14*D617JNONNNNN ⁽⁴⁾		
765	842	650	710	781	1065	600	545	818	981	450	21G14*D710JNONNNNN ⁽⁴⁾		
800	880	700	740	814	1110	650	617	926	1111	500	21G14*D740JNONNNNN ⁽⁴⁾		
960	1056	800	800	880	1200	700	710	1065	1278	600	21G14*D800JNONNNNN ⁽⁴⁾	9 ⁽⁵⁾	
1045	1150	900	960	1056	1440	800	795	1193	1431	700	21G14*D960JNONNNNN ⁽⁴⁾		
1135	1249	1000	1045	1150	1568	900	800	1200	1440	750	21G14*D1K0JNONNNNN ⁽⁴⁾		
1365	1502	1100	1135	1249	1703	1000	960	1440	1728	800	21G14*D1K2JNONNNNN ⁽⁴⁾		
1420	1562	1250	1365	1502	2048	1100	1045	1568	1881	900	21G14*D1K3JNONNNNN ⁽⁴⁾		
1540	1694	1350	1420	1562	2130	1250	1135	1703	2043	1000	21G14*D1K4JNONNNNN ⁽⁴⁾	10 ⁽⁵⁾	
1655	1821	1500	1525	1678	2288	1350	1270	1905	2286	1100	21G14*D1K5JNONNNNN ⁽⁴⁾		
2240	2464	2000	2070	2277	3105	1750	1730	2595	3114	1650	21G14*D2K0JNONNNNN ⁽⁴⁾		

(1) Light Duty rating available only on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(4) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(5) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—650V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (Back/Heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (20-750-FLNG4-F6 for Frame 6, and 20-750-FLNG4-F7 for Frame 7). See page 29 for 650V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Output Amps			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
2.1	3.1	3.7	1	2.1	3.1	3.7	1	20G11FD2P1JA0NNNNN	2
3.4	5.1	6.1	2	3.4	5.1	6.1	2	20G11FD3P4JA0NNNNN	
5	7.5	9	3	5	7.5	9	3	20G11FD5P0JA0NNNNN	
8	12	14.4	5	8	12	14.4	5	20G11FD8P0JA0NNNNN	
11	16.5	19.8	7.5	11	16.5	19.8	7.5	20G11FD011JA0NNNNN	
14	15.4	21	10	11	16.5	21	7.5	20G11FD014JA0NNNNN	
22	24.2	33	15	14	24.2	33	15	20G11FD022JA0NNNNN	
27	29.7	40.5	20	22	33	40.5	15	20G11FD027JA0NNNNN	3
34	37.4	51	25	27	40.5	51	20	20G11FD034JA0NNNNN	
40	44	60	30	34	51	61.2	25	20G11FD040JA0NNNNN	
52.0	57.2	78	40	40	60	78	30	20G11FD052JA0NNNNN	4
65.0	71.5	97.5	50	52	78	97.5	40	20G11FD065JA0NNNNN	
77	84.7	116	60	65	97.5	116	50	20G14FD077JA0NNNNN	5
96	106	144	75	77	116	144	60	20G14FD096JA0NNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

Common Bus Drives—810V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾	Frame Size
Outputs Amp		Hp	Outputs Amp			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	1.7	1.9	2.6	1	1.7	1.4	2.6	1	20G11NE1P7JA0NNNNN	3
			2.7	3	4.1	2	1.7	2.6	4.1		20G11NE2P7JA0NNNNN	
			3.9	4.29	5.85	3	2.7	4.1	5.9	2	20G11NE3P9JA0NNNNN	
			6.1	6.7	9.2	5	3.9	5.9	9.2	3	20G11NE6P1JA0NNNNN	
			9	9.9	13.5	7.5	6.1	9.2	13.5	5	20G11NE9P0JA0NNNNN	
			11	12.1	16.5	10	9	13.5	16.5	7.5	20G11NE011JA0NNNNN	
			17	18.7	25.5	15	11	16.5	25.5	10	20G11NE017JA0NNNNN	
			22	24.2	33	20	17	25.5	33	15	20G11NE022JA0NNNNN	
			27	29.7	40.5	25	22	33	40.5	20	20G11NE027JA0NNNNN	4
			32	35.2	48	30	27	40.5	48.6	25	20G11NE032JA0NNNNN	
			41	45.1	61.5	40	32	48	61.5	30	20G14NE041JA0NNNNN	
			52	57.2	78	50	41	61.5	78	40	20G14NE052JA0NNNNN	5
			12	13.2	18	10	9.1	13.7	18	7.5	20G14NE012JNONNNNN ⁽⁴⁾	
			18	19.8	27	15	12	18	27	10	20G14NE018JNONNNNN ⁽⁴⁾	
			23	25.3	34.5	20	18	27	34.5	15	20G14NE023JNONNNNN ⁽⁴⁾	
			24	26.4	36	20	22	33	39.6	20	20G14NE024JNONNNNN ⁽⁴⁾	
			28	30.8	42	25	23	34.5	42	20	20G14NE028JNONNNNN ⁽⁴⁾	
			33	36.3	49.5	30	28	42	50.4	25	20G14NE033JNONNNNN ⁽⁴⁾	
			42	46.2	63	40	33	49.5	63	30	20G14NE042JNONNNNN ⁽⁴⁾	
			53	58	80	50	42	63	80	40	20G14NE053JNONNNNN ⁽⁴⁾	
			63	69	95	60	52	78	95	50	20G14NE063JNONNNNN ⁽⁴⁾	
			77	85	116	75	63	95	116	50	20G14NE077JNONNNNN ⁽⁴⁾	
			99	109	149	100	77	116	149	60	20G14NE099JNONNNNN ⁽⁴⁾	
			125	138	188	125	99	149	188	75	20G14NE125JNONNNNN ⁽⁴⁾	
			144	158	216	150	125	188	225	100	20G14NE144JNONNNNN ⁽⁴⁾	
			192	211	288	200	144	216	288	125	20G14NE192JNONNNNN ⁽⁴⁾	7
			242	266	363	250	192	288	363	150	20G14NE242JNONNNNN ⁽⁴⁾	
			289	318	434	300	242	363	436	200	20G14NE289JNONNNNN ⁽⁴⁾	

(1) Frames 3...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 3...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(table continues on next page)

Common Bus Drives—810V DC Nominal Input (continued)

IP00/IP20, NEMA/UL Type Open (continued)⁽¹⁾

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾⁽⁴⁾⁽⁵⁾	Frame Size
Outputs Amp		Hp	Outputs Amp			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
355	391	350	295	325	443	300	272	408	490	250	21G14*E295JNONNNNN	8 ⁽⁶⁾
395	435	400	355	391	533	350	295	443	531	300	21G14*E355JNONNNNN	
435	479	450	395	435	593	400	329	494	592	350	21G14*E395JNONNNNN	
460	506	500	435	479	653	450	355	533	639	350	21G14*E435JNONNNNN	
510	561	500	460	506	690	500	395	593	711	400	21G14*E460JNONNNNN	
545	600	550	510	561	765	500	425	638	765	450	21G14*E510JNONNNNN	9 ⁽⁶⁾
690	759	700	595	655	893	600	510	765	918	500	21G14*E595JNONNNNN	
760	836	800	630	693	945	700	595	893	1071	600	21G14*E630JNONNNNN	
835	919	900	760	836	1140	800	630	945	1134	700	21G14*E760JNONNNNN	
900	990	950	825	908	1238	900	700	1050	1260	750	21G14*E825JNONNNNN	
980	1078	1000	900	990	1350	950	760	1140	1368	800	21G14*E900JNONNNNN	10 ⁽⁶⁾
1045	1150	1100	980	1078	1470	1000	815	1223	1467	900	21G14*E980JNONNNNN	
1220	1342	1200	1110	1221	1665	1100	920	1380	1656	1000	21G14*E1K1JNONNNNN	
1530	1683	1500	1430	1573	2145	1400	1190	1785	2142	1250	21G14*E1K4JNONNNNN	

(1) Frames 3...5 are IP20, NEMA/UL Type Open. Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 3...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.

(2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(3) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(4) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(5) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(6) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—810V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Light Duty ⁽¹⁾			Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps		Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	1.7	1.9	2.6	1	1.7	1.4	2.6	1	20G11GE1P7JA0NNNNN	3
			2.7	3	4.1	2	1.7	2.6	4.1	1	20G11GE2P7JA0NNNNN	
			3.9	4.29	5.85	3	2.7	4.1	5.9	2	20G11GE3P9JA0NNNNN	
			6.1	6.7	9.2	5	3.9	5.9	9.2	3	20G11GE6P1JA0NNNNN	
			9	9.9	13.5	7.5	6.1	9.2	13.5	5	20G11GE9P0JA0NNNNN	
			11	12.1	16.5	10	9	13.5	16.5	7.5	20G11GE011JA0NNNNN	
			17	18.7	25.5	15	11	16.5	25.5	10	20G11GE017JA0NNNNN	
			22	24.2	33	20	17	25.5	33	15	20G11GE022JA0NNNNN	
			27	29.7	40.5	25	22	33	40.5	20	20G11GE027JA0NNNNN	4
			32	35.2	48	30	27	40.5	48.6	25	20G11GE032JA0NNNNN	
			41	45.1	61.5	40	32.0	48	61.5	30	20G14GE041JA0NNNNN	5
			12	13.2	18	10	9.1	13.7	18	7.5	20G14GE012JNONNNNN ⁽³⁾	6
			18	19.8	27	15	12	18	27	10	20G14GE018JNONNNNN ⁽³⁾	
			23	25.3	34.5	20	18	27	34.5	15	20G14GE023JNONNNNN ⁽³⁾	
			24	26.4	36	20	22	33	39.6	20	20G14GE024JNONNNNN ⁽³⁾	
			28	30.8	42	25	23	34.5	42	20	20G14GE028JNONNNNN ⁽³⁾	
			33	36.3	49.5	30	28	42	50.4	25	20G14GE033JNONNNNN ⁽³⁾	
			42	46.2	63	40	33	49.5	63	30	20G14GE042JNONNNNN ⁽³⁾	
			53	58	80	50	42	63	80	40	20G14GE053JNONNNNN ⁽³⁾	
			63	69	95	60	52	78	95	50	20G14GE063JNONNNNN ⁽³⁾	
			77	85	116	75	63	95	116	50	20G14GE077JNONNNNN ⁽³⁾	
			99	109	149	100	77	116	149	60	20G14GE099JNONNNNN ⁽³⁾	
			125	138	188	125	99	149	188	75	20G14GE125JNONNNNN ⁽³⁾	
			144	158	216	150	125	188	225	100	20G14GE144JNONNNNN ⁽³⁾	7
			192	211	288	200	144	216	288	125	20G14GE192JNONNNNN ⁽³⁾	
			242	266	363	250	192	288	363	150	20G14GE242JNONNNNN ⁽³⁾	
			289	318	434	300	242	363	436	200	20G14GE289JNONNNNN ⁽³⁾	

(1) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(table continues on next page)

Common Bus Drives—810V DC Nominal Input (continued)

IP54, NEMA/UL Type 12 (continued)

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Light Duty ⁽¹⁾			Normal Duty				Heavy Duty				Cat. No. ⁽²⁾⁽³⁾⁽⁴⁾	Frame Size
Output Amps		Hp	Output Amps			Hp	Output Amps			Hp		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
355	391	350	295	325	443	300	272	408	490	250	21G14*E295JNONNNNN	8 ⁽⁵⁾
395	435	400	355	391	533	350	295	443	531	300	21G14*E355JNONNNNN	
435	479	450	395	435	593	400	329	494	592	350	21G14*E395JNONNNNN	
460	506	500	435	479	653	450	355	533	639	350	21G14*E435JNONNNNN	
510	561	500	460	506	690	500	395	593	711	400	21G14*E460JNONNNNN	
545	600	550	510	561	765	500	425	638	765	450	21G14*E510JNONNNNN	
690	759	700	595	655	893	600	510	765	918	500	21G14*E595JNONNNNN	9 ⁽⁵⁾
760	836	800	630	693	945	700	595	893	1071	600	21G14*E630JNONNNNN	
835	919	900	760	836	1140	800	630	945	1134	700	21G14*E760JNONNNNN	
900	990	950	825	908	1238	900	700	1050	1260	750	21G14*E825JNONNNNN	
980	1078	1000	900	990	1350	950	760	1140	1368	800	21G14*E900JNONNNNN	
1045	1150	1100	980	1078	1470	1000	815	1223	1467	900	21G14*E980JNONNNNN	
1220	1342	1200	1110	1221	1665	1100	920	1380	1656	1000	21G14*E1K1JNONNNNN	10 ⁽⁵⁾
1530	1683	1500	1430	1573	2145	1400	1190	1785	2142	1250	21G14*E1K4JNONNNNN	

(1) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(2) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(3) The 11th character determines default Filtering and Common Mode Cap Jumper configuration; "J" = Installed, and "A" = Removed.

(4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(5) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives–810V DC Nominal Input (continued)

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Important: At 810V DC, PowerFlex 750-series Frames 3...5 drives cannot be used on the same common DC bus as 810/932V DC PowerFlex 750-series Frames 6...10 drives. For more details, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Important: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (back/heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (kit 20-750-FLNG4-F6 for Frame 6, and kit 20-750-FLNG4-F7 for Frame 7). See page 33 for 810V DC, Frame 6...7 IP00, NEMA Type Open drives.

Normal Duty				Heavy Duty				Cat. No. ⁽¹⁾	Frame Size
Outputs Amp			Hp	Output Amps			Hp		
Cont.	1 min	3 s		Cont.	1 min	3 s			
1.7	1.9	2.6	1	1.7	1.4	2.6	1	20G11FE1P7JA0NNNNN	3
2.7	3	4.1	2	1.7	2.6	4.1	1	20G11FE2P7JA0NNNNN	
3.9	4.29	5.85	3	2.7	4.1	5.9	2	20G11FE3P9JA0NNNNN	
6.1	6.7	9.2	5	3.9	5.9	9.2	3	20G11FE6P1JA0NNNNN	
9	9.9	13.5	7.5	6.1	9.2	13.5	5	20G11FE9P0JA0NNNNN	
11	12.1	16.5	10	9	13.5	16.5	7.5	20G11FE011JA0NNNNN	
17	18.7	25.5	15	11	16.5	25.5	10	20G11FE017JA0NNNNN	
22	24.2	33	20	17	25.5	33	15	20G11FE022JA0NNNNN	
27	29.7	40.5	25	22	33	40.5	20	20G11FE027JA0NNNNN	4
32	35.2	48	30	27	40.5	48.6	25	20G11FE032JA0NNNNN	
41	45.1	61.5	40	32	48	61.5	30	20G14FE041JA0NNNNN	5
52	57.2	78	50	41	61.5	78.0	40	20G14FE052JA0NNNNN	

(1) The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

Common Bus Drives–932V DC Nominal Input

IP00/IP20, NEMA/UL Type Open⁽¹⁾

Light Duty ⁽²⁾			Normal Duty				Heavy Duty				Cat. No. ⁽³⁾	Frame Size
Output Amps		kW	Output Amps			kW	Output Amps			kW		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	12	13.2	18	7.5	9	13.5	18	5.5	20G14NF012JNONNNNN ⁽⁴⁾	6
			15	16.5	22.5	11	12	18	22.5	7.5	20G14NF015JNONNNNN ⁽⁴⁾	
			20	22	30	15	15	22.5	30	11	20G14NF020JNONNNNN ⁽⁴⁾	
			23	25.3	34.5	18.5	20	30	36	15	20G14NF023JNONNNNN ⁽⁴⁾	
			30	33	45	22	23	34.5	45	18.5	20G14NF030JNONNNNN ⁽⁴⁾	
			34	37.4	51	30	30	45	54	22	20G14NF034JNONNNNN ⁽⁴⁾	
			46	50.6	69	37	34	51	69	30	20G14NF046JNONNNNN ⁽⁴⁾	
			50	55	75	45	46	69	83	37	20G14NF050JNONNNNN ⁽⁴⁾	
			61	67	92	55	50	75	92	45	20G14NF061JNONNNNN ⁽⁴⁾	
			82	90	123	75	61	92	123	55	20G14NF082JNONNNNN ⁽⁴⁾	
			98	108	147	90	82	123	148	75	20G14NF098JNONNNNN ⁽⁴⁾	
			119	131	179	110	98	147	179	90	20G14NF119JNONNNNN ⁽⁴⁾	
			142	156	213	132	119	179	214	110	20G14NF142JNONNNNN ⁽⁴⁾	
			171	188	257	160	142	213	257	132	20G14NF171JNONNNNN ⁽⁴⁾	
			212	233	318	200	171	257	318	160	20G14NF212JNONNNNN ⁽⁴⁾	
			263	289	395	250	212	318	395	200	20G14NF263JNONNNNN ⁽⁴⁾	
330	363	315	265	292	398	250	215	323	387	200	21G14*F265JNONNNNN ⁽⁵⁾	8 ⁽⁶⁾
370	407	355	330	363	495	315	265	398	477	250	21G14*F330JNONNNNN ⁽⁵⁾	
410	451	400	370	407	555	355	308	462	554	300	21G14*F370JNONNNNN ⁽⁵⁾	
460	506	450	415	457	623	400	370	555	666	355	21G14*F415JNONNNNN ⁽⁵⁾	
500	550	500	460	506	690	450	375	563	675	375	21G14*F460JNONNNNN ⁽⁵⁾	
530	583	530	500	550	750	500	413	620	743	400	21G14*F500JNONNNNN ⁽⁵⁾	
650	715	630	590	649	885	560	460	690	828	450	21G14*F590JNONNNNN ⁽⁵⁾	9 ⁽⁶⁾
710	781	710	650	715	975	630	500	750	900	500	21G14*F650JNONNNNN ⁽⁵⁾	
790	869	800	710	781	1065	710	590	885	1062	560	21G14*F710JNONNNNN ⁽⁵⁾	
860	946	850	765	842	1148	750	650	975	1170	630	21G14*F765JNONNNNN ⁽⁵⁾	
960	1056	900	795	875	1193	800	750	1125	1350	710	21G14*F795JNONNNNN ⁽⁵⁾	
1020	1122	1000	960	1056	1440	900	795	1193	1431	800	21G14*F960JNONNNNN ⁽⁵⁾	10 ⁽⁶⁾
1150	1265	1100	1040	1144	1560	1000	865	1298	1557	900	21G14*F1K0JNONNNNN ⁽⁵⁾	
1485	1634	1500	1400	1540	2100	1400	1160	1740	2088	1120	21G14*F1K4JNONNNNN ⁽⁵⁾	

- (1) Frames 6...7 are IP00, NEMA/UL Type Open. Frames 8...10 are IP20, NEMA/UL Type 1. Frames 6...7 can be converted to IP20, NEMA/UL Type 1 with optional kit (20-750-NEMA1-Fx), where x is the frame size of the drive.
- (2) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.
- (3) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.
- (4) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.
- (5) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.
- (6) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—932V DC Nominal Input (continued)

IP54, NEMA/UL Type 12

Light Duty ⁽¹⁾			Normal Duty				Heavy Duty				Cat. No. ⁽²⁾	Frame Size
Output Amps		kW	Output Amps			kW	Output Amps			kW		
Cont.	1 min		Cont.	1 min	3 s		Cont.	1 min	3 s			
—	—	—	12	13.2	18	7.5	9	13.5	18	5.5	20G14GF012JNONNNNN ⁽³⁾	6
			15	16.5	22.5	11	12	18	22.5	7.5	20G14GF015JNONNNNN ⁽³⁾	
			20	22	30	15	15	22.5	30	11	20G14GF020JNONNNNN ⁽³⁾	
			23	25.3	34.5	18.5	20	30	36	15	20G14GF023JNONNNNN ⁽³⁾	
			30	33	45	22	23	34.5	45	18.5	20G14GF030JNONNNNN ⁽³⁾	
			34	37.4	51	30	30	45	54	22	20G14GF034JNONNNNN ⁽³⁾	
			46	50.6	69	37	34	51	69	30	20G14GF046JNONNNNN ⁽³⁾	
			50	55	75	45	46	69	83	37	20G14GF050JNONNNNN ⁽³⁾	
			61	67	92	55	50	75	92	45	20G14GF061JNONNNNN ⁽³⁾	
			82	90	123	75	61	92	123	55	20G14GF082JNONNNNN ⁽³⁾	
			98	108	147	90	82	123	148	75	20G14GF098JNONNNNN ⁽³⁾	
			119	131	179	110	98	147	179	90	20G14GF119JNONNNNN ⁽³⁾	
			142	156	213	132	119	179	214	110	20G14GF142JNONNNNN ⁽³⁾	
			171	188	257	160	142	213	257	132	20G14GF171JNONNNNN ⁽³⁾	
			212	233	318	200	171	257	318	160	20G14GF212JNONNNNN ⁽³⁾	
			263	289	395	250	212	318	395	200	20G14GF263JNONNNNN ⁽³⁾	
330	363	315	265	292	398	250	215	323	387	200	21G14*F265JNONNNNN ⁽⁴⁾	8 ⁽⁵⁾
370	407	355	330	363	495	315	265	398	477	250	21G14*F330JNONNNNN ⁽⁴⁾	
410	451	400	370	407	555	355	308	462	554	300	21G14*F370JNONNNNN ⁽⁴⁾	
460	506	450	415	457	623	400	370	555	666	355	21G14*F415JNONNNNN ⁽⁴⁾	
500	550	500	460	506	690	450	375	563	675	375	21G14*F460JNONNNNN ⁽⁴⁾	
530	583	530	500	550	750	500	413	620	743	400	21G14*F500JNONNNNN ⁽⁴⁾	
650	715	630	590	649	885	560	460	690	828	450	21G14*F590JNONNNNN ⁽⁴⁾	9 ⁽⁵⁾
710	781	710	650	715	975	630	500	750	900	500	21G14*F650JNONNNNN ⁽⁴⁾	
790	869	800	710	781	1065	710	590	885	1062	560	21G14*F710JNONNNNN ⁽⁴⁾	
860	946	850	765	842	1148	750	650	975	1170	630	21G14*F765JNONNNNN ⁽⁴⁾	
960	1056	900	795	875	1193	800	750	1125	1350	710	21G14*F795JNONNNNN ⁽⁴⁾	
1020	1122	1000	960	1056	1440	900	795	1193	1431	800	21G14*F960JNONNNNN ⁽⁴⁾	
1150	1265	1100	1040	1144	1560	1000	865	1298	1557	900	21G14*F1K0JNONNNNN ⁽⁴⁾	10 ⁽⁵⁾
1485	1634	1500	1400	1540	2100	1400	1160	1740	2088	1120	21G14*F1K4JNONNNNN ⁽⁴⁾	

(1) Light Duty rating only available on Frame 8...10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.

(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.

(3) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.

(4) The 6th character (designated by an * in this table) determines the enclosure type. Refer to the Enclosure Type table in the Catalog Number Explanation on page 24.

(5) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Flange Mount (Front: IP20, NEMA/UL Type Open; Back/Heatsink: IP66, NEMA/UL Type 4X)

Tip: Frame 6...7 IP00, NEMA Type Open drives can be converted to a flange mount drive (Back/Heatsink: IP66, NEMA/UL Type 4X) with an optional user installed flange kit (20-750-FLNG4-F6 for Frame 6, and 20-750-FLNG4-F7 for Frame 7).

See page 38 for 932V DC, Frame 6...7 IP00, NEMA Type Open drives.

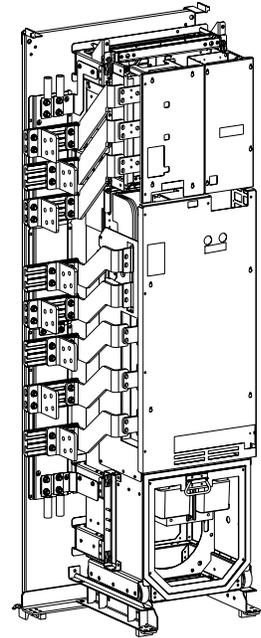
PowerFlex 755 Floor Mount Drives for Open Frame Designs

Floor mount, open frame drives are for applications that require power ranges from 215 kW to 1500kW (250 Hp...2000 Hp) and are contained within an enclosure of your choosing. These drives use the same drive unit(s) as standard IP20 and IP54 product. Open Frame applications can accommodate Common Bus DC input systems.

Floor mount, open frame drives can also be horizontally mounted, with derating. Refer to publication [750-IN020](#), the PowerFlex 755 IP00 NEMA/UL Open Type Drive Installation Instructions, for details.

To order an IP00 drive:

1. Using the tables that follow, locate your desired drive output values.
2. Select the Base Drive Catalog Number for your desired output values.
3. Note the Quantity Required.
4. Order the specified quantity (1, 2, or 3) of the Base Drive Catalog Number.
5. Refer to page 64 for option kits and publication [750-IN020](#) for installation details.



Common Bus Drives—540V DC Nominal Input

Light Duty (-LD)		Normal Duty (-ND)		Heavy Duty (-HD)		Base Drive Cat. No. ⁽¹⁾	Quantity Required	Equivalent Frame Size ⁽²⁾
Output Amps	kW	Output Amps	kW	Output Amps	kW			
Cont.		Cont.		Cont.				
540	315	460	250	385	200	20G14TC460JNONNNNN	1	8
585	315	540	315	456	250	20G14TC540JNONNNNN		
612	355	567	315	472	250	20G14TC567JNONNNNN		
750	400	650	355	540	315	20G14TC650JNONNNNN		
796	450	750	400	585	315	20G14TC750JNONNNNN		
832	450	770	400	642	355	20G14TC770JNONNNNN		
1040	560	910	500	750	400	20G14TC460JNONNNNN	2	9
1090	630	1040	560	880	500	20G14TC540JNONNNNN		
1175	710	1090	630	910	500	20G14TC567JNONNNNN		
1465	800	1175	710	1040	560	20G14TC650JNONNNNN		
1480	850	1465	800	1090	630	20G14TC750JNONNNNN		
1600	900	1480	850	1175	710	20G14TC770JNONNNNN		
1715	1000	1590	900	1325	710	20G14TC567JNONNNNN	3	10
2330	1400	2150	1250	1800	1000	20G14TC770JNONNNNN		

(1) The 11th character determines default filtering and common mode cap jumper configuration. "J" = Installed, "A" = Removed.

(2) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

PowerFlex 755 Floor Mount Drives for Open Frame Designs (continued)

Common Bus Drives—650V DC Nominal Input

Light Duty (-LD)		Normal Duty (-ND)		Heavy Duty (-HD)		Base Drive Cat. No.	Quantity Required	Equivalent Frame Size ⁽¹⁾
Output Amps	Hp	Output Amps	Hp	Output Amps	Hp			
Cont.		Cont.		Cont.				
485	400	430	350	370	300	20G14TD430JNONNNNN	1	8
545	450	485	400	414	350	20G14TD485JNONNNNN		
590	500	545	450	454	350	20G14TD545JNONNNNN		
710	600	617	500	485	400	20G14TD617JNONNNNN		
765	650	710	600	545	450	20G14TD710JNONNNNN		
800	700	740	650	617	500	20G14TD740JNONNNNN		
960	800	800	700	710	600	20G14TD430JNONNNNN	2	9
1045	900	960	800	795	700	20G14TD485JNONNNNN		
1135	1000	1045	900	800	750	20G14TD545JNONNNNN		
1365	1100	1135	1000	960	800	20G14TD617JNONNNNN		
1420	1250	1365	1100	1045	900	20G14TD710JNONNNNN		
1540	1350	1420	1250	1135	1000	20G14TD740JNONNNNN		
1655	1500	1525	1350	1270	1100	20G14TD545JNONNNNN	3	10
2240	2000	2070	1750	1730	1650	20G14TD740JNONNNNN		

(1) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

Common Bus Drives—810V DC Nominal Input

Light Duty (-LD)		Normal Duty (-ND)		Heavy Duty (-HD)		Base Drive Cat. No.	Quantity Required	Equivalent Frame Size ⁽¹⁾
Output Amps	Hp	Output Amps	Hp	Output Amps	Hp			
Cont.		Cont.		Cont.				
355	350	295	300	272	250	20G14TE295JNONNNNN	1	8
395	400	355	350	295	300	20G14TE355JNONNNNN		
435	450	395	400	329	350	20G14TE395JNONNNNN		
460	500	435	450	355	350	20G14TE435JNONNNNN		
510	500	460	500	395	400	20G14TE460JNONNNNN		
545	550	510	500	425	450	20G14TE510JNONNNNN		
690	700	595	600	510	500	20G14TE295JNONNNNN	2	9
760	800	630	700	595	600	20G14TE355JNONNNNN		
835	900	760	800	630	700	20G14TE395JNONNNNN		
900	950	825	900	700	750	20G14TE435JNONNNNN		
980	1000	900	950	760	800	20G14TE460JNONNNNN		
1045	1100	980	1000	815	900	20G14TE510JNONNNNN		
1220	1200	1110	1100	920	1000	20G14TE395JNONNNNN	3	10
1530	1500	1430	1400	1190	1250	20G14TE510JNONNNNN		

(1) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

PowerFlex 755 Floor Mount Drives for Open Frame Designs (continued)

Common Bus Drives—932V DC Nominal Input

Light Duty (-LD)		Normal Duty (-ND)		Heavy Duty (-HD)		Base Drive Cat. No. ⁽²⁾	Quantity Required	Equivalent Frame Size ⁽²⁾
Output Amps	kW	Output Amps	kW	Output Amps	kW			
Cont.		Cont.		Cont.				
330	315	265	250	215	200	20G14TF265JNONNNNN	1	8
370	355	330	315	265	250	20G14TF330JNONNNNN		
410	400	370	355	308	300	20G14TF370JNONNNNN		
460	450	415	400	370	355	20G14TF415JNONNNNN		
500	500	460	450	375	375	20G14TF460JNONNNNN		
530	530	500	500	413	400	20G14TF500JNONNNNN		
650	630	590	560	460	450	20G14TF265JNONNNNN	2	9
710	710	650	630	500	500	20G14TF330JNONNNNN		
790	800	710	710	590	560	20G14TF370JNONNNNN		
860	850	765	750	650	630	20G14TF415JNONNNNN		
960	900	795	800	750	710	20G14TF460JNONNNNN		
1020	1000	960	900	795	800	20G14TF500JNONNNNN		
1150	1100	1040	1000	865	900	20G14TF370JNONNNNN	3	10
1485	1500	1400	1400	1160	1120	20G14TF500JNONNNNN		

- (1) The 11th character determines filtering and common mode cap jumper configuration. "J" = Installed, "A" = Removed.
- (2) A roll-out cart is required with Frame 8...10 drives to assist with power wiring and cabinet mounting. Refer to page 64.

PowerFlex 755 Floor Mount Drives for Open Frame Designs (continued)

Kits listed here provide electrical connection, mounting and ventilation provisions along with the control pod and its corresponding cables for PowerFlex 755 Floor Mount Open Frame designs. Other accessories shown include the rollout cart and EMC cores. Refer to publication [750-IN020](#) for details.

PowerFlex 755 IP00 Option Kits

Description	Required?	Frame 8		Frame 9		Frame 10	
		Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Qty.
Field Termination, DC Input, Common Bus Precharge ⁽¹⁾⁽²⁾	Recommended	20-750-BUS5-F8	1	20-750-BUS5-F9	1	20-750-BUS5-F10	1
Field Termination, Inverter, AC Output		20-750-BUS3-F8	1	20-750-BUS3-F9	1	20-750-BUS3-F10	1
Pod, Bucket Assembly	Required	20-750-POD1-F8	1	20-750-POD1-F8	1	20-750-POD1-F8	1
Pod, Cable, 24 Volt Supply ⁽⁴⁾		20-750-PH1-F8	⁽³⁾	20-750-PH2-F9	1	20-750-PH3-F10	1
Cable, Fiber Optic, 560 mm (22 in.) ⁽⁴⁾		20-750-FCBL1-F8	1	—	—	—	—
Cable, Fiber Optic, 2.8 m (110 in.) ⁽⁴⁾		—	—	20-750-FCBL1-F10	2	20-750-FCBL1-F10	3
Transceiver, Fiber Optic		—	—	SK-R1-FTR1-F8	1	SK-R1-FTR1-F8	2
POD, Remote Mounting Kit	Optional	20-750-RPD1-F8	1	20-750-RPD1-F9	1	20-750-RPD1-F10	1
Mounting Kit, Back Panel	Recommended	20-750-MNT2-F8	1	20-750-MNT2-F9	1	20-750-MNT2-F10	1
Mounting Kit, Floor		20-750-MNT3-F8	1	20-750-MNT3-F9	1	20-750-MNT3-F10	1
Duct, Top Outlet		20-750-DUCT2-F8	1	20-750-DUCT2-F8	2	20-750-DUCT2-F8	3
Duct, Bottom Inlet		20-750-DUCT4-F8	1	20-750-DUCT4-F8	2	20-750-DUCT4-F8	3
Roll-out Cart		20-750-CART1-F8	1	20-750-CART1-F8	1	20-750-CART1-F8	1
Control Power Circuit Breaker ⁽¹⁾		1489-A2D130	1	1489-A2D130	2	1489-A2D130	3
Control Power Circuit Breaker Lock ⁽¹⁾		1489-AAL0A	1	1489-AAL0A	2	1489-AAL0A	3
EMC Core, Inverter Output	Optional	20-750-EMCCM1-F8	1	20-750-EMCCM1-F8	2	20-750-EMCCM1-F8	3

(1) Common DC input drives only.

(2) EMC input cores are included with the 20-750-BUS5-Fx kits.

(3) 24 volt supply cable is included with each Frame 8 drive unit.

(4) 20-750-PH1-Fx and 20-750-FCBL1-Fx kits are used if the control pod is mounted in the drive. If the control pod is to be remote mounted (up to 23 m or 75 ft away), order a 20-750-RPD1-Fx kit instead.

Connect to a CENTERLINE Motor Control Center (MCC)

To select the splice kit best suited for your application, determine the following.

Important: A splice kit contains three splice plates.

1. Are you connecting to a CENTERLINE® 2100 or CENTERLINE 2500 MCC?
2. While facing the front of the PowerFlex 755 drive, decide to which drive side that you want to connect.
3. Are you connecting PowerFlex 755 floor mount drives together, or are you connecting a PowerFlex 755 floor mount drive to a CENTERLINE MCC?

If you are connecting PowerFlex 755 floor mount drives together or if you are connecting a PowerFlex 755 floor mount drive to a CENTERLINE 2500 MCC, then use PowerFlex 755 CENTERLINE 2500 Splice Kits. Otherwise, use PowerFlex 755 CENTERLINE 2100 Splice Kits.

PowerFlex 755 CENTERLINE 2100 Splice Kits

A complete installation requires one transition section and one bus bar splicing kit. Splicing kits include all necessary hardware to complete all connections.

Mounting Channel	Busbar Position ⁽¹⁾	Amp Rating	Left-side Kit Cat No.	Right-side Kit Cat No.	Frame Sizes
N/A	Transition section ⁽²⁾	N/A	20-750-XSEC-LH-20G	20-750-XSEC-RH-20G	8...10
For use with MCCs that have 1.5 in. mounting channels	Standard	1200	20-750-XBUS-LHNB-1200	20-750-XBUS-RHNB-1200	8...10
		2000	20-750-XBUS-LHNB-2000	20-750-XBUS-RHNB-2000	
		3000	20-750-XBUS-LHNB-3000	20-750-XBUS-RHNB-3000	
	Bumped back	1200	20-750-XBUS-LHBB-1200	20-750-XBUS-RHBB-1200	
		2000	20-750-XBUS-LHBB-2000	20-750-XBUS-RHBB-2000	
		3000	20-750-XBUS-LHBB-3000	20-750-XBUS-RHBB-3000	
For use with MCCs that do not have mounting channels	Standard	1200	20-750-XBUS-LLNB-1200	20-750-XBUS-RLNB-1200	8...10
		2000	20-750-XBUS-LLNB-2000	20-750-XBUS-RLNB-2000	
		3000	20-750-XBUS-LLNB-3000	20-750-XBUS-RLNB-3000	
	Bumped back	1200	20-750-XBUS-LLBB-1200	20-750-XBUS-RLBB-1200	
		2000	20-750-XBUS-LLBB-2000	20-750-XBUS-RLBB-2000	
		3000	20-750-XBUS-LLBB-3000	20-750-XBUS-RLBB-3000	

(1) All busbar positions are 20 in. deep.

(2) Hardware is included to install the optional 1.5 in. mounting channel.

PowerFlex 755 CENTERLINE 2500 Splice Kits

DC splicing kits include all necessary hardware to connect to DC+ and DC- MCC bus bars.

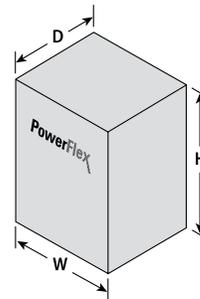
Description	Amp Rating	Cat No.	Frame Sizes
DC splice kit to connect right side of drive to a CENTERLINE 2500 cabinet	1200	20-750-DBUSR1-1200	8...10
DC splice kit to connect right side of drive to a CENTERLINE 2500 cabinet	2000	20-750-DBUSR1-2000	
DC splice kit to connect right side of drive to a CENTERLINE 2500 cabinet	3000	20-750-DBUSR1-3200	
DC splice kit to connect multiple Frame 8...10 drives or to connect left side of drive to a CENTERLINE 2500 cabinet	1200	20-750-DBUSL1-1200	
DC splice kit to connect multiple Frame 8...10 drives or to connect left side of drive to a CENTERLINE 2500 cabinet	2000	20-750-DBUSL1-2000	
DC splice kit to connect multiple Frame 8...10 drives or to connect left side of drive to a CENTERLINE 2500 cabinet	3000	20-750-DBUSL1-3200	

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)	7.80 (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

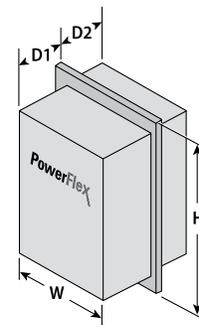
Frame	H	W	D	Weight ⁽¹⁾
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8 (17)
3	551 (21.69)	268 (10.55)	220.1 (8.67)	12 (26)
4	571 (22.48)	300 (11.81)		14 (30)
5	647 (25.47)	348 (13.7)		20 (45)
6	1298.3 (51.11)	609.4 (24)	464.7 (18.3)	91 (200)
7	1614 (63.54)			162 (357)

(1) Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.

Flange Mount

Frame	H	W	D1	D2	Weight ⁽¹⁾
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8 (17.0)
3	515 (20.28)	260 (10.24)	127.4 (5.02)	84.6 (3.33)	12 (26.0)
4	535 (21.06)	292 (11.50)			14 (30.0)
5	611 (24.06)	340 (13.39)			20. (45.0)
6	665.5 (26.20)	308 (12.13)	208.4 (8.20)	138. (5.43)	38 (84.0)
7	875 (34.45)	430.0 (16.93)			96 (212.0)

(1) Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.



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

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

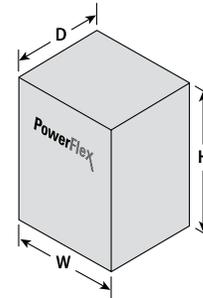
Weights are approximate. Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed weight information.

IP20, NEMA/UL Type 1, MCC Style Cabinet

Frame	H	W	D	Weight
8	2453 (96.6)	600 (23.6)	600 (23.6)	623 (1374)
9		1200 (47.2)	or 800 (31.5)	1246 (2748)
10		1800 (70.9)		1869 (4122)

IP54, NEMA Type 12, MCC Style Cabinet

Frame	H	W	D	Weight
8	2477 (97.5)	600 (23.6)	800 (31.5)	644 (1419)
9		1200 (47.2)	898 (35.4) with filter	1287 (2838)
10		1800 (70.9)		1931 (4257)



IP00, NEMA/UL Type Open⁽¹⁾

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

(1) Refer to [750-TD001](#), the PowerFlex 750-Series Technical Data, for detailed information.

Maximum Component Weights, Frames 8...10

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

PowerFlex 755™ Drive System

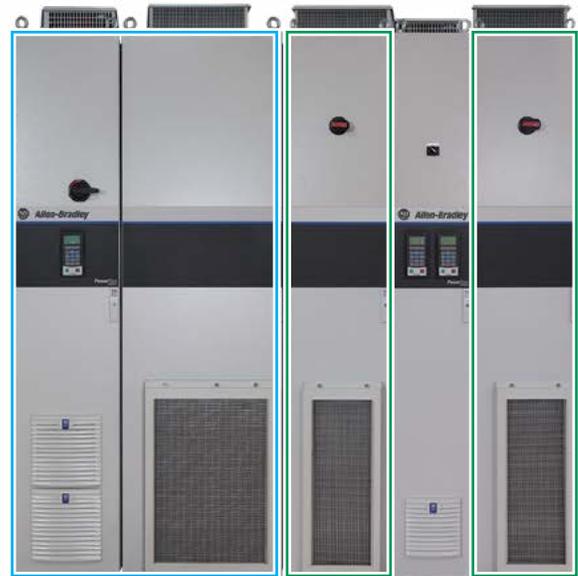
75...4550 kW/100...6000 Hp in voltages from 400...690V AC

The PowerFlex 755™ drive system enables coordination of multiple motors based on two main building blocks: 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.

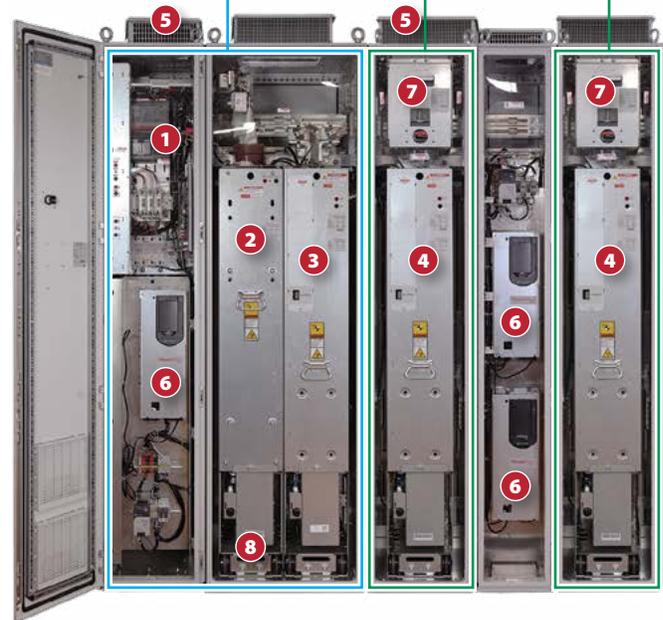
PowerFlex 755™ at a Glance

Input Ratings	75...3640 kW
400V AC	100...6000 Hp
480V AC	75...5100 Hp
600V AC	75...4550 kW
690V AC	
Motor Control	<ul style="list-style-type: none"> Field Oriented Control Sensorless Vector Control Flux Vector Control V/Hz Control Economizer Interior Permanent Magnet and Surface Permanent Magnet Flux Vector Control Voltage Boost
Enclosures	<ul style="list-style-type: none"> IP21, UL Type 1 IP54, UL Type 12
Safety Options	<ul style="list-style-type: none"> Hardwired Safe Torque Off SIL3, PLe, CAT 3 Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 Networked Safe Torque Off SIL3, PLe, CAT 3 Networked Integrated Safety Functions SIL3, PLe, CAT 4
Additional Features	<ul style="list-style-type: none"> 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 detection
Options	See page 57



Regenerative Bus Supply

Common Bus Inverters



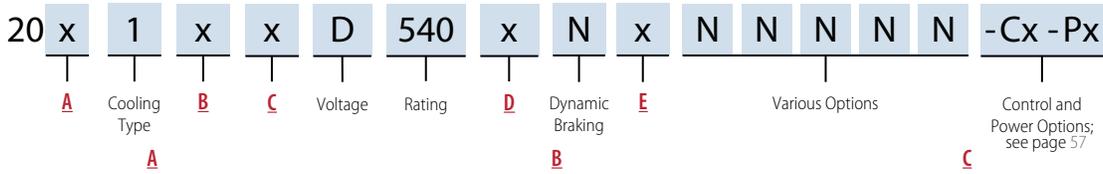
- 1** AC Precharge
- 2** LCL Filter
- 3** Line Side Converter
- 4** Motor Side Inverter
- 5** IP21/54 Enclosures
- 6** Control Pod
- 7** DC Precharge (optional)
- 8** Roll-in/rollout design

Additional Information

PowerFlex 755T Drive Solutions Brochure, publication [755T-BR001](#)

PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#)

Catalog Number Explanation



Drive Type	
Code	Description
G	755TM common bus inverters
J	755TM bus supplies

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

Enclosure	
Code	Description
N	IP00, UL Open Type
3	IP21, UL Type 1; floor mount
4	IP54, UL Type 12; floor mount

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

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

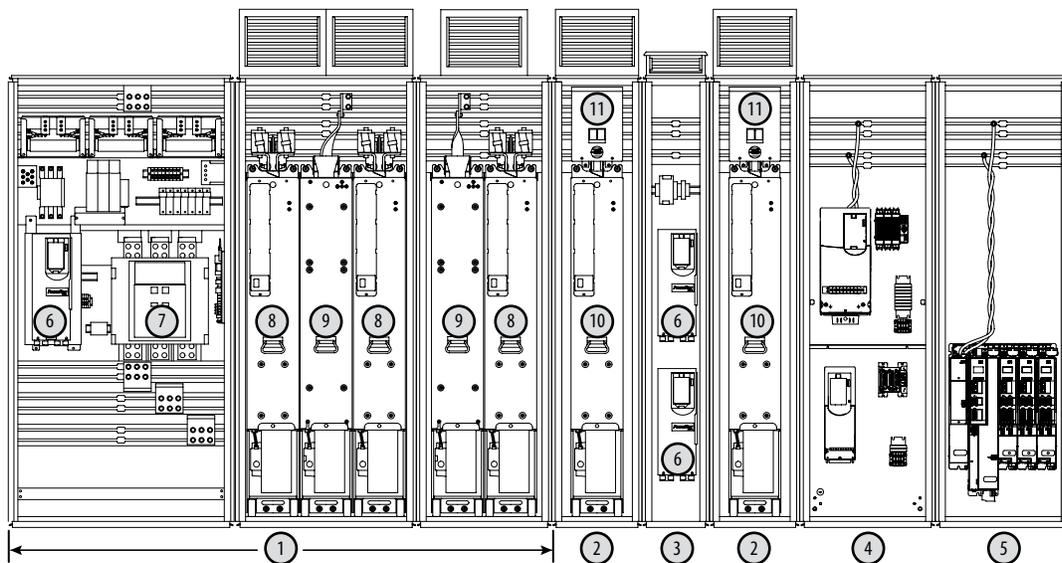
Door Mounted HIM ⁽¹⁾	
Code	Operator Interface and Control
A	No door mounted HIM with TotalFORCE control
D	Enhanced LCD, full numeric, IP66, NEMA Type 4X/12 with TotalFORCE control

⁽¹⁾ HIM option depends on catalog configuration; for full details, see footnote 2 on page 57.

⁽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).

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

Item	Description
5	Kinetix servo drives
6	Control pod to control the system
7	AC precharge module
8	Line side converter

Item	Description
9	LCL filter
10	Motor side inverter
11	DC precharge module (optional)

Product Selection

Regenerative Common Bus Supply–400V AC Input

Wall Mounted (Frame 6) Bus Supplies: IP00, UL Open Type
Cabinet (Frames 7...15) Bus Supplies: IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps DC	kW	Amps DC	kW	Amps DC		
106	182	87	150	65	112	20J1xxC140xNxNNNNN	6
128	220	106	182	87	150	20J1xxC176xNxNNNNN	
162	279	128	220	106	182	20J1xxC205xNxNNNNN	
188	324	162	279	128	220	20J1xxC260xNxNNNNN	
228	394	188	324	162	279	20J1xxC302xNxNNNNN-Px	7
286	494	228	294	188	324	20J1xxC367xNxNNNNN-Px	
336	579	286	494	228	294	20J1xxC460xNxNNNNN-Px	
364	628	336	579	286	494	20J1xxC540xNxNNNNN-Px	
384	662	373	644	311	527	20J1xxC585xNxNNNNN-Px	
228	394	188	324	162	279	20J1xxC302xNxNNNNN-Cx-Px	8
286	494	228	394	188	324	20J1xxC367xNxNNNNN-Cx-Px	
336	579	286	494	228	394	20J1xxC460xNxNNNNN-Cx-Px	
364	628	336	579	286	494	20J1xxC540xNxNNNNN-Cx-Px	
387	667	364	628	286	494	20J1xxC585xNxNNNNN-Cx-Px	
467	805	405	698	336	579	20J1xxC650xNxNNNNN-Cx-Px	
479	826	467	805	364	628	20J1xxC750xNxNNNNN-Cx-Px	
518	893	479	826	405	698	20J1xxC770xNxNNNNN-Cx-Px	
647	1116	572	987	479	826	20J1xxC920xNxNNNNN-Cx-Px	9
678	1170	647	1116	572	987	20J1xxC1K0xNxNNNNN-Cx-Px	
735	1268	692	1193	647	1116	20J1xxC1K1xNxNNNNN-Cx-Px	
911	1572	731	1261	678	1170	20J1xxC1K2xNxNNNNN-Cx-Px	
983	1696	910	1570	731	1261	20J1xxC1K4xNxNNNNN-Cx-Px	
1067	1840	984	1697	911	1572	20J1xxC1K6xNxNNNNN-Cx-Px	10
1337	2307	1067	1840	921	1588	20J1xxC1K7xNxNNNNN-Cx-Px	
1449	2500	1342	2314	1067	1840	20J1xxC2K1xNxNNNNN-Cx-Px	
1915	3303	1772	3057	1449	2500	20J1xxC2K8xNxNNNNN-Cx-Px	11
2393	4127	2204	3801	1886	3254	20J1xxC3K5xNxNNNNN-Cx-Px	12
2847	4912	2634	4546	2226	3839	20J1xxC4K2xNxNNNNN-Cx-Px	13
3779	6519	3496	6030	2954	5095	20J1xxC5K6xNxNNNNN-Cx-Px	14
4711	8126	4358	7517	3684	6352	20J1xxC7K0xNxNNNNN-Cx-Px	15

Regenerative Common Bus Supply–480V AC Input

Wall Mounted (Frame 6) Bus Supplies: IP00, UL Open Type

Cabinet (Frames 7...15) Bus Supplies: IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps DC	kW	Amps DC	kW	Amps DC		
111	160	90	129	69	99	20J1xxD125xNxNNNNN	6
133	191	111	160	90	129	20J1xxD156xNxNNNNN	
177	255	133	191	111	160	20J1xxD186xNxNNNNN	
216	311	177	255	133	191	20J1xxD248xNxNNNNN	
258	371	216	311	177	255	20J1xxD302xNxNNNNN-Px	7
307	442	258	371	216	311	20J1xxD361xNxNNNNN-Px	
347	499	307	442	258	371	20J1xxD430xNxNNNNN-Px	
390	560	361	519	307	442	20J1xxD505xNxNNNNN-Px	
441	634	429	617	358	514	20J1xxD617xNxNNNNN-Px	8
258	371	216	311	177	255	20J1xxD302xNxNNNNN-Cx-Px	
307	442	258	371	216	311	20J1xxD361xNxNNNNN-Cx-Px	
347	499	307	442	258	371	20J1xxD430xNxNNNNN-Cx-Px	
390	560	361	519	307	442	20J1xxD505xNxNNNNN-Cx-Px	9
422	607	390	560	307	442	20J1xxD545xNxNNNNN-Cx-Px	
508	730	442	635	347	499	20J1xxD617xNxNNNNN-Cx-Px	
529	761	508	730	390	560	20J1xxD710xNxNNNNN-Cx-Px	
573	823	529	761	442	635	20J1xxD740xNxNNNNN-Cx-Px	10
687	987	573	823	529	761	20J1xxD800xNxNNNNN-Cx-Px	
748	1075	687	987	573	823	20J1xxD960xNxNNNNN-Cx-Px	
802	1153	748	1075	687	987	20J1xxD1K0xNxNNNNN-Cx-Px	
977	1404	812	1167	748	1075	20J1xxD1K1xNxNNNNN-Cx-Px	11
1087	1563	977	1404	812	1167	20J1xxD1K3xNxNNNNN-Cx-Px	
1184	1702	1016	1460	977	1404	20J1xxD1K4xNxNNNNN-Cx-Px	
1481	2129	1184	1702	1016	1460	20J1xxD1K6xNxNNNNN-Cx-Px	
1603	2304	1483	2131	1184	1702	20J1xxD2K0xNxNNNNN-Cx-Px	12
2118	3044	1959	2816	1603	2304	20J1xxD2K6xNxNNNNN-Cx-Px	
2632	3784	2436	3501	2132	3065	20J1xxD3K4xNxNNNNN-Cx-Px	13
3149	4527	2912	4186	2430	3493	20J1xxD4K0xNxNNNNN-Cx-Px	
4180	6008	3865	5555	3225	4636	20J1xxD5K4xNxNNNNN-Cx-Px	14
5210	7489	4818	6925	4020	5779	20J1xxD6K7xNxNNNNN-Cx-Px	
							15

Regenerative Common Bus Supply–600V AC Input

Wall Mounted (Frame 6) Bus Supplies: IP00, UL Open Type

Cabinet (Frames 7...15) Bus Supplies: IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps DC	kW	Amps DC	kW	Amps DC		
89	102	69	79	56	64	20J1xxE077xNxNNNNN	6
112	129	89	102	69	79	20J1xxE099xNxNNNNN	
129	148	112	129	89	102	20J1xxE125xNxNNNNN	
171	197	129	148	112	129	20J1xxE144xNxNNNNN	
217	249	171	197	129	148	20J1xxE192xNxNNNNN-Px	7
263	303	217	249	171	197	20J1xxE242xNxNNNNN-Px	
317	365	263	303	217	249	20J1xxE295xNxNNNNN-Px	
353	406	317	365	263	303	20J1xxE355xNxNNNNN-Px	
389	447	353	406	317	365	20J1xxE395xNxNNNNN-Px	
263	303	217	249	171	197	20J1xxE242xNxNNNNN-Cx-Px	8
317	365	263	303	217	249	20J1xxE295xNxNNNNN-Cx-Px	
353	406	317	365	263	303	20J1xxE355xNxNNNNN-Cx-Px	
389	447	353	406	317	365	20J1xxE395xNxNNNNN-Cx-Px	
456	524	389	447	353	406	20J1xxE435xNxNNNNN-Cx-Px	
518	596	487	560	403	463	20J1xxE545xNxNNNNN-Cx-Px	9
617	710	518	596	487	560	20J1xxE595xNxNNNNN-Cx-Px	
680	782	617	710	532	612	20J1xxE690xNxNNNNN-Cx-Px	
737	848	680	782	617	710	20J1xxE760xNxNNNNN-Cx-Px	
877	1008	737	848	680	782	20J1xxE825xNxNNNNN-Cx-Px	
985	1133	877	1008	737	848	20J1xxE980xNxNNNNN-Cx-Px	10
1091	1255	935	1075	877	1008	20J1xxE1K1xNxNNNNN-Cx-Px	
1279	1471	1091	1255	935	1075	20J1xxE1K2xNxNNNNN-Cx-Px	
1452	1670	1279	1471	1091	1255	20J1xxE1K5xNxNNNNN-Cx-Px	11
1919	2207	1740	2001	1520	1748	20J1xxE2K0xNxNNNNN-Cx-Px	
2386	2744	2164	2489	1851	2129	20J1xxE2K4xNxNNNNN-Cx-Px	12
2851	3278	2678	3080	2215	2547	20J1xxE2K9xNxNNNNN-Cx-Px	13
3784	4351	3555	4088	2939	3380	20J1xxE3K9xNxNNNNN-Cx-Px	14
4717	5424	4432	5096	3664	4213	20J1xxE4K9xNxNNNNN-Cx-Px	15

Regenerative Common Bus Supply–690V AC Input

Wall Mounted (Frame 6) Bus Supplies: IP00, UL Open Type
Cabinet (Frames 7...15) Bus Supplies: IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps DC	kW	Amps DC	kW	Amps DC		
101	101	84	84	63	63	20J1xxF082xNxNNNNN	6
122	122	101	101	84	84	20J1xxF098xNxNNNNN	
146	146	122	122	101	101	20J1xxF119xNxNNNNN	
176	176	146	146	122	122	20J1xxF142xNxNNNNN	
221	221	176	176	146	146	20J1xxF171xNxNNNNN-Px	7
272	272	221	221	176	176	20J1xxF215xNxNNNNN-Px	
339	339	272	272	221	221	20J1xxF265xNxNNNNN-Px	
380	380	339	339	272	272	20J1xxF330xNxNNNNN-Px	
426	426	380	380	339	339	20J1xxF370xNxNNNNN-Px	
272	272	221	221	176	176	20J1xxF215xNxNNNNN-Cx-Px	8
339	339	272	272	221	221	20J1xxF265xNxNNNNN-Cx-Px	
380	380	339	339	272	272	20J1xxF330xNxNNNNN-Cx-Px	
426	426	380	380	339	339	20J1xxF370xNxNNNNN-Cx-Px	
472	472	426	426	380	380	20J1xxF415xNxNNNNN-Cx-Px	
580	580	518	518	426	426	20J1xxF505xNxNNNNN-Cx-Px	9
580	580	580	580	518	518	20J1xxF565xNxNNNNN-Cx-Px	
754	754	667	667	580	580	20J1xxF650xNxNNNNN-Cx-Px	
842	842	754	754	667	667	20J1xxF735xNxNNNNN-Cx-Px	
944	944	842	842	754	754	20J1xxF820xNxNNNNN-Cx-Px	
1102	1102	944	944	842	842	20J1xxF920xNxNNNNN-Cx-Px	10
1180	1180	1057	1057	944	944	20J1xxF1K0xNxNNNNN-Cx-Px	
1380	1380	1180	1180	1057	1057	20J1xxF1K1xNxNNNNN-Cx-Px	
1624	1624	1456	1456	1193	1193	20J1xxF1K4xNxNNNNN-Cx-Px	
2146	2146	1914	1914	1576	1576	20J1xxF1K8xNxNNNNN-Cx-Px	11
2668	2668	2379	2379	2073	2073	20J1xxF2K3xNxNNNNN-Cx-Px	12
3190	3190	2849	2849	2343	2343	20J1xxF2K7xNxNNNNN-Cx-Px	13
4234	4234	3781	3781	3110	3110	20J1xxF3K6xNxNNNNN-Cx-Px	14
5278	5278	4714	4714	3877	3877	20J1xxF4K5xNxNNNNN-Cx-Px	15

Common Bus Inverters–540V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps AC	kW	Amps AC	kW	Amps AC		
200	367	160	302	132	260	20G1xxC302xNxNNNNN-Cx-Px	8
250	460	200	367	160	302	20G1xxC367xNxNNNNN-Cx-Px	
315	540	250	460	200	367	20G1xxC460xNxNNNNN-Cx-Px	
315	585	315	540	250	460	20G1xxC540xNxNNNNN-Cx-Px	
355	650	315	585	250	472	20G1xxC585xNxNNNNN-Cx-Px	
400	750	355	650	315	540	20G1xxC650xNxNNNNN-Cx-Px	
450	796	400	750	315	585	20G1xxC750xNxNNNNN-Cx-Px	
450	832	400	770	355	650	20G1xxC770xNxNNNNN-Cx-Px	
560	1040	500	920	400	770	20G1xxC920xNxNNNNN-Cx-Px	
630	1090	560	1040	500	920	20G1xxC1K0xNxNNNNN-Cx-Px	
710	1182	630	1112	500	1040	20G1xxC1K1xNxNNNNN-Cx-Px	
800	1465	710	1175	560	1090	20G1xxC1K2xNxNNNNN-Cx-Px	
850	1581	800	1465	630	1175	20G1xxC1K4xNxNNNNN-Cx-Px	
1000	1715	850	1590	710	1465	20G1xxC1K6xNxNNNNN-Cx-Px	10
1250	2150	1000	1715	800	1480	20G1xxC1K7xNxNNNNN-Cx-Px	
1400	2330	1250	2156	1000	1715	20G1xxC2K1xNxNNNNN-Cx-Px	
1800	3078	1650	2849	1400	2330	20G1xxC2K8xNxNNNNN-Cx-Px	11
2200	3846	2000	3542	1650	3032	20G1xxC3K5xNxNNNNN-Cx-Px	12
2475	4576	2200	4235	1953	3575	20G1xxC4K2xNxNNNNN-Cx-Px	13
3285	6074	2920	5621	2592	4745	20G1xxC5K6xNxNNNNN-Cx-Px	14
4095	7571	3640	7007	3231	5915	20G1xxC7K0xNxNNNNN-Cx-Px	15

Common Bus Inverters–650V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
Hp	Amps AC	Hp	Amps AC	Hp	Amps AC		
300	361	250	302	200	248	20G1xxD302xNxNNNNN-Cx-Px	8
350	430	300	361	250	302	20G1xxD361xNxNNNNN-Cx-Px	
400	485	350	430	300	361	20G1xxD430xNxNNNNN-Cx-Px	
450	545	400	505	350	430	20G1xxD505xNxNNNNN-Cx-Px	
500	617	450	545	350	454	20G1xxD545xNxNNNNN-Cx-Px	
600	710	500	617	400	485	20G1xxD617xNxNNNNN-Cx-Px	
650	765	600	710	450	545	20G1xxD710xNxNNNNN-Cx-Px	
700	800	650	740	500	617	20G1xxD740xNxNNNNN-Cx-Px	
800	960	700	800	600	740	20G1xxD800xNxNNNNN-Cx-Px	9
900	1045	800	960	700	800	20G1xxD960xNxNNNNN-Cx-Px	
1000	1135	900	1045	750	960	20G1xxD1K0xNxNNNNN-Cx-Px	
1100	1365	1000	1135	800	1045	20G1xxD1K1xNxNNNNN-Cx-Px	
1250	1520	1100	1365	900	1135	20G1xxD1K3xNxNNNNN-Cx-Px	
1500	1655	1250	1420	1000	1365	20G1xxD1K4xNxNNNNN-Cx-Px	10
1800	2070	1500	1655	1100	1420	20G1xxD1K6xNxNNNNN-Cx-Px	
2000	2240	1800	2072	1500	1655	20G1xxD2K0xNxNNNNN-Cx-Px	
2600	2960	2400	2738	2000	2240	20G1xxD2K6xNxNNNNN-Cx-Px	11
3300	3696	3000	3404	2400	2980	20G1xxD3K4xNxNNNNN-Cx-Px	12
3900	4400	3600	4070	2800	3394	20G1xxD4K0xNxNNNNN-Cx-Px	13
5200	5840	4800	5402	3700	4504	20G1xxD5K4xNxNNNNN-Cx-Px	14
6400	7280	6000	6734	4600	5615	20G1xxD6K7xNxNNNNN-Cx-Px	15

Common Bus Inverters–810V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
Hp	Amps AC	Hp	Amps AC	Hp	Amps AC		
300	295	250	242	200	192	20G1xxE242xNxNNNNN-Cx-Px	8
350	355	300	295	250	242	20G1xxE295xNxNNNNN-Cx-Px	
400	395	350	355	300	295	20G1xxE355xNxNNNNN-Cx-Px	
450	435	400	395	350	355	20G1xxE395xNxNNNNN-Cx-Px	
500	510	450	435	400	395	20G1xxE435xNxNNNNN-Cx-Px	
600	580	550	545	450	450	20G1xxE545xNxNNNNN-Cx-Px	
700	690	600	580	550	545	20G1xxE595xNxNNNNN-Cx-Px	9
800	760	700	690	600	595	20G1xxE690xNxNNNNN-Cx-Px	
900	825	800	760	700	690	20G1xxE760xNxNNNNN-Cx-Px	
1000	980	900	825	800	760	20G1xxE825xNxNNNNN-Cx-Px	
1100	1102	1000	980	900	825	20G1xxE980xNxNNNNN-Cx-Px	
1250	1220	1100	1045	1000	980	20G1xxE1K1xNxNNNNN-Cx-Px	10
1500	1430	1250	1220	1100	1045	20G1xxE1K2xNxNNNNN-Cx-Px	
1600	1624	1500	1430	1250	1220	20G1xxE1K5xNxNNNNN-Cx-Px	
2100	2146	2000	1946	1800	1700	20G1xxE2K0xNxNNNNN-Cx-Px	11
2600	2668	2500	2420	2100	2070	20G1xxE2K4xNxNNNNN-Cx-Px	12
3300	3190	3100	2998	2500	2475	20G1xxE2K9xNxNNNNN-Cx-Px	13
4400	4234	4100	3979	3300	3285	20G1xxE3K9xNxNNNNN-Cx-Px	14
5500	5278	5100	4960	4100	4095	20G1xxE4K9xNxNNNNN-Cx-Px	15

Common Bus Inverters–932V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty		Base Cat. No.	Frame Size
kW	Amps AC	kW	Amps AC	kW	Amps AC		
250	265	200	215	160	171	20G1xxF215xNxNNNNN-Cx-Px	8
315	330	250	265	200	215	20G1xxF265xNxNNNNN-Cx-Px	
355	370	315	330	250	265	20G1xxF330xNxNNNNN-Cx-Px	
400	415	355	370	315	330	20G1xxF370xNxNNNNN-Cx-Px	
450	460	400	415	355	370	20G1xxF415xNxNNNNN-Cx-Px	
560	565	500	505	400	415	20G1xxF505xNxNNNNN-Cx-Px	
630	650	560	565	500	505	20G1xxF565xNxNNNNN-Cx-Px	9
710	735	630	650	560	565	20G1xxF650xNxNNNNN-Cx-Px	
800	820	710	735	630	650	20G1xxF735xNxNNNNN-Cx-Px	
900	920	800	820	710	735	20G1xxF820xNxNNNNN-Cx-Px	
1000	1074	900	920	800	820	20G1xxF920xNxNNNNN-Cx-Px	
1100	1150	1000	1030	900	920	20G1xxF1K0xNxNNNNN-Cx-Px	
1250	1344	1100	1150	1000	1030	20G1xxF1K1xNxNNNNN-Cx-Px	10
1500	1582	1400	1419	1100	1162	20G1xxF1K4xNxNNNNN-Cx-Px	
2000	2091	1800	1865	1500	1535	20G1xxF1K8xNxNNNNN-Cx-Px	
2500	2599	2300	2318	2000	2020	20G1xxF2K3xNxNNNNN-Cx-Px	12
3080	3108	2750	2778	2200	2283	20G1xxF2K7xNxNNNNN-Cx-Px	13
4088	4125	3650	3687	2920	3030	20G1xxF3K6xNxNNNNN-Cx-Px	14
5096	5142	4550	4596	3640	3777	20G1xxF4K5xNxNNNNN-Cx-Px	15

Control and Power Options for PowerFlex 755TM Drives

Pre-engineered, factory installed options are available with the PowerFlex 755TM drives.

To configure a catalog number for a PowerFlex 755TM drive with options, perform the following steps:

1. Select the base drive catalog number from the tables on the previous pages. Drive selection is based on the output amps and corresponding system overload(s) required by the application.
For example: 20G1xxD505xNxNNNNN-Cx-Px.
2. Select required control from the Control and Power Options table. For example: 20G1xxD505xNxNNNNN-**C0**-Px.
3. Select required power from the table. Add the desired option codes to the end of the base drive catalog number, separating each option code with a dash. For example: 20G1xxD505xNxNNNNN-**C0-P15**.
4. If needed, select other power options from the table. For example: 20G1xxD505xNxNNNNN-**C0-P15-P46**.

Control and Power Options

Type	Option	Frame Sizes	Description	
Control Options	C0 ⁽¹⁾	Torque Accuracy Control	7...15	Option that enables increased torque performance capability and the ability to operate in a Field Oriented Control mode.
	C1 ⁽²⁾	Control transformer	8...12	Provides control power to peripheral devices.
	C11 ⁽¹⁾⁽³⁾	Control pod (single)		Single pod with control bay.
	C12 ⁽¹⁾⁽³⁾	Control pod (dual)		Dual pod with control bay.
Power Options	P15 ⁽¹⁾	Top Cable Exit (with wiring bay)	8...15	Option that enables a user to bring in their motor cables from the top of the cabinet.
	P16 ⁽²⁾	Top Cable Entry (with wiring bay)	10...15	Option that enables a user to bring in their power/input cables from the top of the cabinet.
	P17 ⁽²⁾	Top Cable Entry (without wiring bay)	8 & 9	Option that enables a user to bring in their power/input cables from the top of the cabinet.
	P46	4700A System Bus	8...15	Option that increases the allowable capacitance of the system DC bus to 4700 A.
	P50	DC Bus Conditioner	8...15	Eliminates peak voltage spikes on the system DC bus. Intended for systems that are not solidly grounded.
	P51	DC Bus Conditioner with Marine Discharge	7...15	Eliminates peak voltage spikes on the system DC bus. Intended for systems that are not solidly grounded (for marine applications).

(1) Option applies only to common bus inverters.

(2) Option applies only to common bus supplies.

(3) On 20G-type drives, you must select input type D (with precharge) or input type E (without precharge) before you can select the door mounted HIM option. For more information about input types D or E, see Catalog Number Explanation on page 48.

Input Protection Devices

For more information on input protection devices, refer to PowerFlex 750-Series Products with TotalFORCE Control Technical Data, publication [750-TD100](#).

Approximate Dimensions and Weights⁽¹⁾

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

PowerFlex 755TM 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	361	1656	404	432	1877	145 (320)
	480	90...177 kW	(15.9)	(14.2)	(65.2)	(15.9)	(17)	(73.9)	
	600	69...129 kW							
	690	84...146 kW							

PowerFlex 755TM 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	721	2132 (83.9)	2291 (90.2)	454 (1000)
	480	216...429 kW			(26.6)	(28.4)			
	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							

(1) Weight does not include wiring bays. Refer to publication [750-TD100](#) to determine the maximum weight for your configuration.

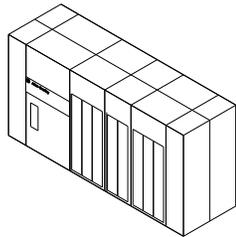
Approximate Dimensions and Weights⁽¹⁾ (continued)

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

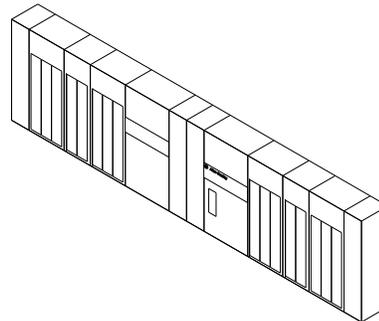
PowerFlex 755TM Common Bus Supplies - Frames 13...15

Frame Size	Input Voltage	Normal Duty Ratings	In-line Dimensions					Back to Back Dimensions					Weight
			Length	Depth		Height		Length (mm)	Depth		Height		
				IP21	IP54	IP21	IP54		IP21	IP54	IP21	IP54	
13	400	2204...2634 kW	5600 (220.4)	676 (26.6)	721 (28.4)	2132 (83.9)	2291 (90.2)	3200 (125.9)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	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)	676 (26.6)	721 (28.4)	2132 (83.9)	2291 (90.2)	4400 (173.2)	1352 (53.2)	1442 (56.8)	2132 (83.9)	2291 (90.2)	6906 (15228)
	480	3865...4818 kW											
	600	3555...4432 kW											
	690	3781...4714 kW											

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



Back-to-Back Configuration



Inline Configuration

(1) Weight does not include wiring bays. Refer to publication [750-TD100](#) to determine the maximum weight for your configuration.

Approximate Dimensions and Weights⁽¹⁾ (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.

(1) Weight does not include wiring bays. Refer to publication [750-TD100](#) to determine the maximum weight for your configuration.

PowerFlex Drive Options

Human Interface Modules



20-HIM-A0



20-HIM-A6



20-HIM-C6S

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755	755TM
No HIM (Blank Plate), Handheld/Local (Drive Mount)	20-HIM-A0	✓	✓
Enhanced, LCD, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A6	✓	✓
Enhanced, LCD, Full Numeric Keypad ⁽¹⁾⁽²⁾	20-HIM-C6S	✓	✓

Human Interface Module (HIM) Accessories

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755	755TM
Bezel Kit for LCD HIMs, NEMA Type 1 ⁽¹⁾	20-HIM-B1	✓	✓
PowerFlex HIM Interface Cable, 1 m (3.3 ft) ⁽²⁾	20-HIM-H10	✓	✓
Comm Option Cable Kit (Male-Male)			
0.33 m (1.1 ft)	1202-C03	✓	✓
1 m (3.3 ft)	1202-C10	✓	✓
3 m (9.8 ft)	1202-C30	✓	✓
9 m (29.5 ft)	1202-C90	✓	✓
Cable Kit (Male-Female) ⁽³⁾			
0.33 m (1.1 ft)	1202-H03	✓	✓
1 m (3.3 ft)	1202-H10	✓	✓
3 m (9.8 ft)	1202-H30	✓	✓
9 m (29.5 ft)	1202-H90	✓	✓
DPI™ Cable Kit with Connectors, Tools and 100 m (328 ft) Cable	1202-CBL-KIT-100M	✓	✓
DPI Cable Connector Kit	1202-TB-KIT-SET	✓	✓
DPI/SCANport™ One to Two Port Splitter Cable	1203-S03	✓	✓

(1) Includes a 1202-C30 interface cable (3 m/9.8 ft) for connection to drive.

(2) Required only when HIM is used as handheld or remote.

(3) Required in addition to 20-HIM-H10 for distances up to a total maximum of 10 m (32.8 ft).

Communication Option Kits and Accessories

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755	755TM
BACnet/IP Option Module	20-750-BNETIP	✓	—
Coaxial ControlNet™ Option Module	20-750-CNETC	✓	✓
ControlNet™ Communication Adapter (Coax)	20-COMM-C	✓ ⁽¹⁾	—
DeviceNet™ Option Module	20-750-DNET	✓	✓
DeviceNet™ Communication Adapter	20-COMM-D	✓ ⁽¹⁾	—
Dual-port EtherNet/IP Option Module	20-750-ENETR	✓	✓
EtherNet/IP™ Communication Adapter	20-COMM-E	✓ ⁽¹⁾	—
HVAC Communication Adapter	20-COMM-H	✓ ⁽¹⁾	—
CANopen® Communication Adapter	20-COMM-K	✓ ⁽¹⁾	—
LonWorks® Communication Adapter	20-COMM-L	✓ ⁽¹⁾	—
Modbus/TCP Communication Adapter	20-COMM-M	✓ ⁽¹⁾	—
Profibus DPV1 Option Module	20-750-PBUS	✓ ⁽⁴⁾	✓
Single-port Profinet I/O Option Module	20-750-PNET	✓ ⁽⁴⁾	✓
Dual-port Profinet I/O Option Module	20-750-PNET2P	✓ ⁽⁴⁾	✓
PROFIBUS™ DP Communication Adapter	20-COMM-P	✓ ⁽¹⁾	—
ControlNet™ Communication Adapter (Fiber)	20-COMM-Q	✓ ⁽¹⁾	—
RS485 DF1 Communication Adapter	20-COMM-S	✓ ⁽¹⁾	—
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	—
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	—
External DPI I/O Option Board ⁽²⁾	20-XCOMM-IO-OPT1	✓	—
Compact I/O™ Module (3 Channel)	1769-SM1	✓	—
Serial Null Modem Adapter	1203-SNM	✓	✓
Universal Serial Bus Converter ⁽³⁾	1203-USB	✓	✓
ControlNet T-tap Straight	1786-TPS	✓	✓

(1) Requires a Communication Carrier Card (20-750-20COMM or 20-750-20COMM-F1). Refer to the Communication Accessories table on page 63 for details.

(2) For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

(3) Includes 2 m USB, 20-HIM-H10 & 22-HIM-H10 cables.

(4) Contact your local Allen-Bradley distributor or Rockwell Automation sales office for availability.

Communication Accessories

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755	755TM
Serial Null Modem Adapter	1203-SNM	✓	✓
Smart Self-powered Serial Converter (RS232) includes 1203-SFC and 1202-C10 Cables	1203-SSS	✓	✓
Universal Serial Bus™ (USB) Converter includes 2m USB, 20-HIM-H10 and 22-HIM-H10 Cables	1203-USB	✓	✓
ControlNet T-tap Straight	1786-TPS	✓	—
Communication Carrier Card for PowerFlex 750-Series Frame 1 drives	20-750-20COMM-F1	✓	—
Communication Carrier Card for PowerFlex 750-Series Frame 2 or higher drives	20-750-20COMM	✓	—

I/O Option Kits

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755 ⁽¹⁾	755TM
ATEX Option Module with 1 Thermosensor Input Connection (requires 11-Series I/O Module below)	20-750-ATEX	✓	✓
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132C-2R	✓	✓
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In, 1 Relay and 2 Transistor Outputs	20-750-1133C-1R2T	✓	✓
115V AC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132D-2R	✓	✓
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262C-2R	✓	✓
115V AC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262D-2R	✓	✓
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In, 3 Digital Out, 1 Relay and 2 Transistor Outputs	20-750-2263C-1R2T	✓	✓

(1) For kits to be used with CIP Motion instructions, the card can only be used in slot 7 of the PowerFlex 755 drive. It also requires PowerFlex 755 firmware version 12 and higher, and Studio 5000 version 28 and higher.

Safety Options⁽¹⁾

Description	Cat. No.	Used with PowerFlex Common Bus Drive			
		70	753	755	755TL/755TR
Hardwired Safe Torque Off	20-750-S	—	✓	✓	✓
Hardwired Safe Speed Monitor	20-750-S1	—	✓ ⁽²⁾	✓ ⁽²⁾	✓
Networked Safe Torque Off	20-750-S3	—	—	✓ ⁽³⁾⁽⁴⁾	✓ ⁽³⁾
Networked Integrated Safety Functions	20-750-S4	—	—	✓ ⁽⁵⁾⁽⁶⁾	✓ ⁽⁵⁾

(1) All PowerFlex 7-series drives can accommodate only one safety option.

(2) Requires the Dual Incremental Encoder or Universal Feedback Option. Also requires the 20-750-EMCSSM1-F8 EMC Option Kit with Frame 8...10 drives.

(3) Requires Studio 5000 version 30 and higher.

(4) Requires PowerFlex 755 firmware version 13 and higher. This option is not allowed while controlling a PowerFlex drive in CIP Motion mode.

(5) Requires Studio 5000 version 31 and higher.

(6) Requires PowerFlex 755 firmware version 14.002 and higher.

Feedback Options

Description	Cat. No.	Used with PowerFlex Common Bus Drive	
		753/755	755TM
Incremental Encoder	20-750-ENC-1	✓ ⁽¹⁾	✓
Dual Incremental Encoder	20-750-DENC-1	✓ ⁽¹⁾	✓
Universal Feedback Board (includes Stegmann, Heidenhain, SSI, Biss, 5V Incremental)	20-750-UFB-1	✓	✓

(1) Homing and registration functions are not supported when using this device with Studio 5000 Logix Designer embedded motion instructions. To use these functions, the Universal Feedback Board (20-750-UFB-1) must be used.

PowerFlex 753 and 755 Common Bus Drive Option Kits

Description	Frame	Cat. No.	Used with PowerFlex Common Bus Drive		
			753	755	
Auxiliary Power Supply	24V DC Aux Power Supply	1...7 ⁽¹⁾	20-750-APS	✓	✓
EMC Option Kit	EMC Core – Inverter-mounted output, for 380...690V AC input and DC input drives.	8...10	20-750-EMCCM1-F8 ⁽²⁾	—	✓
	EMC Core – Cabinet-mounted input, only for 380...690V Common DC Input drives.		20-750-CBPEMCCM1-F8		✓
	EMC Cores – Required when using the Safe Speed Monitor option 20-750-S1 with 380...690V drives.		20-750-EMCSSM1-F8		✓
	Door Shielding Kit	10	20-750-EMCDK1-F10		✓
Exhaust Hood	Exhaust Hood – IP20, NEMA/UL Type 1 drives.	8	20-750-HOOD1-F8		✓
Flange Adapter Kit	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 1 integrity backside. This kit is for use with IP20, NEMA/UL Type 0 drives and does not provide an air-tight or water-tight seal. Where sealing is required (for example, contaminated, dirty or wet environments), a drive with an "F" enclosure option must be used.	2	20-750-FLNG1-F2	✓	✓
		3	20-750-FLNG1-F3	✓	✓
		4	20-750-FLNG1-F4	✓	✓
		5	20-750-FLNG1-F5	✓	✓
	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 4X/12 integrity backside.	6	20-750-FLNG4-F6	✓	✓
		7	20-750-FLNG4-F7	✓	✓
L Bus Bar Kit	Includes three L-brackets.	8...10 ⁽³⁾	20-750-LBRKT1	—	✓
NEMA/UL Type 1 Option Kit	NEMA/UL Type 1 Kit	1	20-750-NEMA1-F1	✓	✓
		2	20-750-NEMA1-F2	✓	✓
		3	20-750-NEMA1-F3	✓	✓
		4	20-750-NEMA1-F4	✓	✓
		5	20-750-NEMA1-F5	✓	✓
		6	20-750-NEMA1-F6	✓	✓
		7	20-750-NEMA1-F7	✓	✓
Power Terminal Extension	Allows connection of two parallel leads to the AC terminals.	6	20-750-ACTE1-F6	✓	✓
Power Terminal Guard	Provides additional protection against contact with the power terminals.		20-750-PTG1-F6	✓	✓
			20-750-PTG1-F7	✓	✓
Remote Control POD Mounting Kit	Hardware, fiber-optic, and power supply cables to remotely mount the control POD up to 23 m (75 ft) from the drive.	8...10	20-750-RPD1-F8	—	✓
Roll-out Cart	A wheeled roll-out cart that facilitates drive installation and removal. Required for Frame 8 and larger drives.		20-750-CART1-F8		✓

(1) Since Frame 8 and up drives can be powered from an external 24V DC source, a 20-750-APS is not required.

(2) Frame 8 drives require one EMC core, Frame 9 drives require two EMC cores, and Frame 10 drives require three EMC cores.

(3) Frame 8 drives ship with two L-brackets per input and output phase (12 total), Frame 9 drives with four L-brackets per phase (24 total), and Frame 10 with six L-brackets per phase (36 total).

PowerFlex 755TM Common Bus Drive Option Kits

The following option kits are available for all frame sizes of the Powerflex 755TM common bus drive, except where noted.

PowerFlex 755T Drives Option Kits

Description	Frame Size	Cat. No.
PowerFlex 750 Kit, AC Bus Bar, 600 mm, TE	7...15	20-750-MTEBUS1-4K7
PowerFlex 750 Kit, AC Bus Bar, 400 mm, TE	7...15	20-750-MTEBUS2-3K0
PowerFlex 750 Kit, AC Bus Bar, TE	7...15	20-750-MTESPL1-F8M
PowerFlex 750 Kit, AC Bus Bar, TE, Al	7...15	20-750-MTESPL2-F10M
PowerFlex 750 Kit, AC Bus Bar, TE, Cu	7...15	20-750-MTESPL3-F12M
PowerFlex 750 Kit, Anti-tip	7...15	20-750-MINV-ATIP
PowerFlex 750 Kit, Power Module Cart	7...15	20-750-MCART1
PowerFlex 750 Kit, External Baying	8...15	20-750-MEXTBAY1
PowerFlex 750 Kit, Service Ramp	7...15	20-750-MRAMP1
PowerFlex 750 Kit, Empty Option Bay, 600 mm	7...15	20-750-MPBAY-600
PowerFlex 750 Kit, Empty Option Bay, 800 mm	7...15	20-750-MPBAY-800
PowerFlex 750 Kit, Torque Accuracy Module, 400/480V	7...15	20-750-MTAM1-CD
PowerFlex 750 Kit, Torque Accuracy Module, 600/690V	8...15	20-750-MTAM1-EF
PowerFlex 750 Kit, Ground Clamp	7...15	SK-RM-GRNDCLMP-185
	7...15	SK-RM-GRNDCLMP-75
	7...15	SK-RM-GRNDCLMP-16
	7...15	SK-RM-GRNDCLMP-50
PowerFlex 750 Kit, DC Bus Conditioner	8...15	20-750-MDCBUS-COND
PowerFlex 750 Kit, AC Common Mode Core	8...15	20-750-MACCM1-F8M
PowerFlex 750 Kit, DC Link/Fuse, 400/480V	7...15	20-750-MDCL3-CD-F8M
PowerFlex 750 Kit, DC Link/Fuse, 600/690V	7...15	20-750-MDCL3-EF-F8M
PowerFlex 750 Kit, Door Fan & Filter 400MM	7...15	SK-RM-WBDR-FANFLR1
PowerFlex 750 Kit, Cart Bridge	7...15	SK-RM-MBRIDGE1-75ST
PowerFlex 750 Kit, Cart Key Kit	7...15	SK-RM-MPIN1-75ST
PowerFlex 750 Kit, HiHp Cart Clip Assy	7...15	SK-RM-MCLIP1-75ST
PowerFlex 750 Kit, HiHp Conversion Assy ⁽¹⁾	7...15	20-750-MPLT75ST
PowerFlex 750 Kit, Marine DC Bus Conditioner	8...15	20-750-MDCBUS1-COND
PowerFlex 750 Kit, EMC C2 Filter IP00	8...10	20-750-MEMCC2-F8910
PowerFlex 750 Kit, EMC Filter Bus Bar Kit	8	20-750-MEMCC2-F8
	9	20-750-MEMCC2-F9
	10	20-750-MEMCC2-F10
	8...10	20-750-MEMCC2-IPBB
PowerFlex 750 Kit, CBI Seismic Kit	8	20-750-MOSHDPD-F8M
	9	20-750-MOSHDPD-F9M
	10	20-750-MOSHDPD-F10M
	11	20-750-MOSHDPD-F11M
	12	20-750-MOSHDPD-F12M

(1) This kit attaches to the 20-750-MCART1. It enables the removal of power cores from PowerFlex 755 floor mount drives using the PowerFlex 755T drive service cart.

PowerFlex 755T Drives Option Kits

Description	Frame Size	Cat. No.	Description	Frame Size	Cat. No.	
PowerFlex 750 Kit, Transition Section	8...12	20-750-MTS-2100R	PowerFlex 750 Kit, C2 EMC Filter Kit,	5	20-750-EMC2-F5	
		20-750-MTS-2100L	PowerFlex 750 Kit, LCL Filter Capacitor, 600/690V		SK-RM-LCLCP6-F5	
		20-750-MTS-2100BR	PowerFlex 750 Kit, Heatsink Fan		SK-RM-HSFAN1-F5	
		20-750-MTS-2100BL	PowerFlex 750 Kit, Mixing Fan		SK-RM-MFAN1-F5	
		20-750-MTS-2500R	PowerFlex 750 Kit, LCL Filter Capacitor, 400/480V		SK-RM-LCLCP4-F5	
		20-750-MTS-2500L	PowerFlex 750 Kit, IP00 EMC Type 1 Conduit Box		20-750-CBOX1-F5	
PowerFlex 750 Kit, Transition Bus Bar Kit	8...12	20-750-MTS21-1-3K0	PowerFlex 750 Kit, Conduit Box, with Marine Discharge	6	20-750-CMRN-F5	
		20-750-MTS21-2-3K0	PowerFlex 750 Kit, Ground Plate		SK-RM-GNDPLT-F5	
		20-750-MTS21-1-C3K0	PowerFlex 750 Kit, C2 EMC Filter Kit		20-750-EMC2-F6	
		20-750-MTS21-2-C3K0	PowerFlex 750 Kit, Heatsink Fan		SK-RM-HSFAN1-F6	
		20-750-MTS21-1-B3K0	PowerFlex 750 Kit, Mixing Fan		SK-RM-MFAN1-F6	
		20-750-MTS21-2-B3K0	PowerFlex 750 Kit, IP00 EMC Type 1 Conduit Box		20-750-CBOX1-F6	
		20-750-MTS21-1-CB3K0	PowerFlex 750 Kit, Marine Discharge, IP00		20-750-CMRN-F6	
		20-750-MTS21-2-CB3K0	PowerFlex 750 Kit, PE Jumper		SK-RM-JMPR1-F6	
		20-750-MTS21-1-1K2	PowerFlex 750 Kit, Ground Plate IP00		SK-RM-GNDPLT-F6	
		20-750-MTS21-2-1K2	PowerFlex 750 Kit, AC Input Flex Bus		7	20-750-MACINP-F7
		20-750-MTS21-1-C1K2	PowerFlex 750 Kit, MD, ACPC Board			20-750-MACPC1-CD-F7M
		20-750-MTS21-2-C1K2	PowerFlex 750 Kit, ACPC Breaker		20-750-MACPCCB-1K0	
		20-750-MTS21-1-B1K2	PowerFlex 750 Kit, ACPC Resistor Bank		20-750-MACPR-CD-F7M	
		20-750-MTS21-2-B1K2	PowerFlex 750 Kit, ACPC Resistor Bank		20-750-MACPR-CD-F7M	
		20-750-MTS21-1-CB1K2	PowerFlex 750 Kit, Marine Discharge, IP00		20-750-MBSCD-DB	
		20-750-MTS21-2-CB1K2	PowerFlex 750 Kit, Single Control Pod (Low Harmonic Regenerative)		20-750-MCPOD1-F7M	
		20-750-MTS25-1-3K0	PowerFlex 750 Kit, Single Control Pod (Low Harmonic)		20-750-MCPOD2-F7M	
		20-750-MTS25-2-3K0	PowerFlex 750 Kit, DC Output Terminals		20-750-MDCOT-F7M	
		20-750-MTS25-1-1K2	PowerFlex 750 Kit, Floor Bracket, 800mm		20-750-MMNT1-F7M	
		20-750-MTS25-2-1K2	PowerFlex 750 Kit, IP21 Vent 800mm		20-750-MVENT1-F7M	
			PowerFlex 750 Kit, IP54 Vent 800mm		20-750-MVENT2-F7M	
			PowerFlex 750 Kit, MD, Module Fan		SK-RM-MFAN-F7	
			PowerFlex 750 Kit, Control Pod Fan		SK-RM-PODFAN-F7	

PowerFlex 753 and 755 Reflected Wave Reduction Modules

If you need a reflective wave reduction module for a 932V DC input PowerFlex 750-series drive, contact your local Rockwell Automation sales office or your Allen-Bradley distributor.

Drive Input Voltage	Normal Duty		Cat. No.	753/755
	kW	Hp		
540...650V DC	4	5	1321-RWR8-DP	✓
	5.5	7.5	1321-RWR12-DP	✓
	7.5	10	1321-RWR18-DP	✓
	11	15	1321-RWR25-DP	✓
	15	20	1321-RWR35-DP	✓
	18.5	25	1321-RWR35-DP	✓
	22	30	1321-RWR45-DP	✓
	30	40	1321-RWR55-DP	✓
	37	50	1321-RWR80-DP	✓
	45	60	1321-RWR80-DP	✓
	55	75	1321-RWR100-DP	✓
	75	100	1321-RWR130-DP	✓
	90	125	1321-RWR160-DP	✓
	110	150	1321-RWR200-DP	✓
	149	200	1321-RWR250-DP	✓
810V DC	4	5	1321-RWR8-EP	✓
	5.5	7.5	1321-RWR12-EP	✓
	7.5	10	1321-RWR12-EP	—
			1321-RWR18-EP	✓
	11	15	1321-RWR18-EP	—
			1321-RWR25-EP	✓
	15	20	1321-RWR25-EP	—
			1321-RWR35-EP	✓
	18.5	25	1321-RWR35-EP	✓
	22	30	1321-RWR35-EP	—
			1321-RWR45-EP	✓
	30	40	1321-RWR45-EP	—
			1321-RWR55-EP	✓
	37	50	1321-RWR55-EP	—
			1321-RWR80-EP	✓
45	60	1321-RWR80-EP	✓	
55	75	1321-RWR100-EP	✓	
75	100	1321-RWR130-EP	✓	
90	125	1321-RWR160-EP	✓	
110	150	1321-RWR200-EP	✓	
149	200	1321-RWR250-EP	✓	

PowerFlex 753 and 755 Input and Output Reactors—540V DC Nominal Input, 3% Impedance

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
0.25	0.33	Heavy	1321-3R1-C	1321-3RA1-C	1321-3R2-B	1321-3RA2-B	—
0.37	0.5	Normal					
0.55	0.75	Heavy	1321-3R2-A	1321-3RA2-A	1321-3R2-A	1321-3RA2-A	✓
0.75	1	Normal					
1.1	1.5	Heavy	1321-3R4-C	1321-3RA4-C	1321-3R4-B	1321-3RA4-B	✓
1.5	2	Normal	1321-3R4-B	1321-3RA4-B	1321-3R8-C	1321-3RA8-C	✓
		Heavy					✓
2.2	3	Normal	1321-3R8-C	1321-3RA8-C	1321-3R8-B	1321-3RA8-B	✓
		Heavy					✓
4	5	Normal	1321-3R8-B	1321-3RA8-B	1321-3R12-B	1321-3RA12-B	✓
		Heavy					✓
5.5	7.5	Normal	1321-3R12-B	1321-3RA12-B	1321-3R18-B	1321-3RA18-B	✓
		Heavy					✓
7.5	10	Normal	1321-3R18-B	1321-3RA18-B	1321-3R25-B	1321-3RA25-B	✓
		Heavy					✓
11	15	Normal	1321-3R25-B	1321-3RA25-B	1321-3R35-B	1321-3RA35-B	✓
		Heavy					✓
15	20	Normal	1321-3R35-B	1321-3RA35-B	1321-3R45-B	1321-3RA45-B	✓
		Heavy					✓
18.5	25	Normal	1321-3R45-B	1321-3RA45-B	1321-3R55-B	1321-3RA55-B	✓
		Heavy					✓
22	30	Normal	1321-3R45-B	1321-3RA45-B	1321-3R80-B	1321-3RA80-B	✓
		Heavy					✓
30	40	Normal	1321-3R55-B	1321-3RA55-B	1321-3R100-B	1321-3RA100-B	✓
		Heavy					✓
37	50	Normal	1321-3R80-B	1321-3RA80-B	1321-3R130-B	1321-3RA130-B	✓
		Heavy					✓
45	60	Normal/Heavy	1321-3R100-B	1321-3RA100-B	1321-3R160-B	1321-3RA160-B	✓
55	75						
75	100		1321-3R130-B	1321-3RA130-B	1321-3R160-B	1321-3RA160-B	✓
90	125		1321-3R160-B	1321-3RA160-B	1321-3R200-C	1321-3RA200-C	✓
110	150	Normal	1321-3R200-B	1321-3RA200-B	1321-3R250-B	1321-3RA250-B	✓
		Heavy					✓
—	200	Normal/Heavy	1321-3RB250-B	1321-3RAB250-B	1321-3RB320-B	1321-3RAB320-B	✓
132	—						✓
160	250		1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B	✓

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(table continues on next page)

PowerFlex 753 and 755 Input and Output Reactors—540V DC Nominal Input, 3% Impedance (continued)

kW	Hp	Duty ⁽²⁾	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
200	300	Normal	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B	✓
		Heavy					✓
—	350	Normal/Heavy	1321-3R500-B	1321-3R500-B	1321-3R500-B	1321-3R500-B	✓
250	—			1321-3RA500-B			✓
—	400	Light/Normal/Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B	✓
315	—		1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓
—	450		✓				
355	—		1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
—	500	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓
		Normal/Heavy	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
400	—	Light/Heavy	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
—	Normal	✓					
—	600	Light/Normal/Heavy	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
450	—	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
—	650						✓
—	700	Light/Normal/Heavy	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
—	750	Heavy	1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓
500	—	Normal/Heavy					✓
—	800	Light/Normal/Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽³⁾
560	—						✓ ⁽³⁾
630	900	Light/Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓ ⁽³⁾
710	1000						✓ ⁽³⁾
800	1100						✓ ⁽³⁾
850	—	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓ ⁽³⁾
900	—						✓ ⁽³⁾
—	1250	Light/Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓ ⁽³⁾
—	1350	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓ ⁽³⁾
—	1500						✓ ⁽⁴⁾
1000	—						✓ ⁽⁴⁾
—	2000						✓ ⁽⁴⁾
1400	—	✓ ⁽⁴⁾					

- (1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.
- (2) Light Duty refers only to PowerFlex 755 drives.
- (3) Requires two reactors wired in parallel.
- (4) Requires three reactors wired in parallel.

PowerFlex 753 and 755 Input and Output Reactors—650V DC Nominal Input, 5% Impedance

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
0.25	0.33	Heavy	1321-3R1-B	1321-3RA1-B	1321-3R2-C	1321-3RA2-C	—
0.37	0.5	Normal					
0.55	0.75	Heavy	1321-3R2-C	1321-3RA2-C	1321-3R2-B	1321-3RA2-B	✓
0.75	1	Normal					
1.1	1.5	Heavy	1321-3R4-D	1321-3RA4-D	1321-3R4-D	1321-3RA4-D	✓
1.5	2	Normal					
2.2	3	Heavy	1321-3R8-D	1321-3RA8-D	1321-3R8-D	1321-3RA8-D	✓
		Normal					
4	5	Heavy	1321-3R8-C	1321-3RA8-C	1321-3R8-C	1321-3RA8-C	✓
		Normal					
5.5	7.5	Heavy	1321-3R12-C	1321-3RA12-C	1321-3R12-C	1321-3RA12-C	✓
		Normal					
7.5	10	Heavy	1321-3R18-C	1321-3RA18-C	1321-3R18-C	1321-3RA18-C	✓
		Normal					
11	15	Heavy	1321-3R25-C	1321-3RA25-C	1321-3R25-C	1321-3RA25-C	✓
		Normal/Heavy					
15	20	Heavy	1321-3R35-C	1321-3RA35-C	1321-3R35-C	1321-3RA35-C	✓
		Normal					
18.5	25	Heavy	1321-3R45-C	1321-3RA45-C	1321-3R45-C	1321-3RA45-C	✓
		Normal					
22	30	Heavy	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C	✓
		Normal					
30	40	Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C	1321-3RA80-C	✓
		Normal					
37	50	Heavy	1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C	✓
		Normal					
45	60	Heavy	1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C	✓
		Normal/Heavy					
55	75		1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C	✓
75	100		1321-3R200-C	1321-3RA200-C	1321-3R200-C	1321-3RA200-C	✓
90	125						✓
110	150	Heavy					✓
		Normal					✓

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(table continues on next page)

PowerFlex 753 and 755 Input and Output Reactors—650V DC Nominal Input, 5% Impedance (continued)

kW	Hp	Duty ⁽²⁾	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
—	200	Normal/Heavy	1321-3RB250-C	1321-3RAB250-C	1321-3RB250-C	1321-3RAB250-C	✓
132	—		1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C	✓
160	250		1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C	✓
—	300		1321-3R500-C	1321-3R500-C	1321-3R500-C	1321-3R500-C	✓
200	—		1321-3RA500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C	✓
—	350		1321-3R500-C	1321-3R500-C	1321-3R500-C	1321-3R500-C	✓
—	400	Light/Normal/Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C	✓
315	—		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
—	450		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
355	—		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
—	500	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
—	—	Normal/Heavy	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
400	—	Light/Heavy	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	—	Normal	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	600	Light/Normal/Heavy	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
450	—	Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
500	—	Normal/Heavy	1321-3R1000-C	1321-3RA1000-C	1321-3R1000-C	1321-3RA1000-C	✓
—	650	Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	—	Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
—	700	Light/Normal/Heavy	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	750	Heavy	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	800	Light/Normal/Heavy	1321-3R1000-C	1321-3RA1000-C	1321-3R1000-C	1321-3RA1000-C	✓
560	—		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽³⁾
630	—		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽³⁾
—	900		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽³⁾
710	—		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽³⁾
—	1000		1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽³⁾
—	1100	Light/Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓ ⁽³⁾
800	—		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓ ⁽³⁾
850	—		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓ ⁽³⁾
—	1250		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓ ⁽³⁾
900	—	Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽³⁾
—	1350		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽³⁾
—	1500		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽⁴⁾
1000	—		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽⁴⁾
—	2000		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽⁴⁾
1400	—		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓ ⁽⁴⁾

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.
 (2) Light Duty refers only to PowerFlex 755 drives.
 (3) Requires two output reactors wired in parallel.
 (4) Requires three reactors wired in parallel.

PowerFlex 753 and 755 Input and Output Reactors—810V DC Nominal Input, 3% Impedance

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755		
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)			
0.75	1	Normal	1321-3R2-B ⁽²⁾	1321-3RA2-B ⁽²⁾	1321-3R2-B ⁽²⁾	1321-3RA2-B ⁽²⁾	✓		
		Heavy			1321-3R4-D ⁽²⁾	1321-3RA4-D ⁽²⁾	✓		
1.1	1.5		1321-3R2-A ⁽²⁾	1321-3RA2-A ⁽²⁾			—		
1.5	2	Normal	1321-3R4-C ⁽²⁾	1321-3RA4-C ⁽²⁾		1321-3RA4-D ⁽²⁾			
		Heavy			1321-3R4-C ⁽²⁾	1321-3RA4-C ⁽²⁾	✓		
		Normal	1321-3R4-D ⁽²⁾	1321-3RA4-D ⁽²⁾	1321-3R4-D ⁽²⁾	1321-3RA4-D ⁽²⁾	✓		
		Heavy			1321-3R4-C ⁽²⁾	1321-3RA4-C ⁽²⁾	✓		
2.2	3	Normal	1321-3R4-C ⁽²⁾	1321-3RA4-C ⁽²⁾			✓		
		Heavy			1321-3R8-C ⁽²⁾	1321-3RA8-C ⁽²⁾	—		
4	5	Normal	1321-3R8-C ⁽²⁾	1321-3RA8-C ⁽²⁾			✓		
		Heavy			1321-3R12-C ⁽²⁾	1321-3RA12-C ⁽²⁾	✓		
5.5	7.5	Normal	1321-3R12-C ⁽²⁾	1321-3RA12-C ⁽²⁾			✓		
		Heavy			1321-3R12-B ⁽²⁾	1321-3RA12-B ⁽²⁾	✓		
7.5	10	Normal	1321-3R12-B ⁽²⁾	1321-3RA12-B ⁽²⁾			✓		
		Heavy			1321-3R18-B ⁽²⁾	1321-3RA18-B ⁽²⁾	✓		
11	15	Normal	1321-3R18-B ⁽²⁾	1321-3RA18-B ⁽²⁾			✓		
		Heavy			1321-3R25-B ⁽²⁾	1321-3RA25-B ⁽²⁾	✓		
15	20	Normal	1321-3R25-B ⁽²⁾	1321-3RA25-B ⁽²⁾			✓		
		Heavy			1321-3R35-C ⁽²⁾	1321-3RA35-C ⁽²⁾	✓		
18.5	25	Normal	1321-3R35-C ⁽²⁾	1321-3RA35-C ⁽²⁾			✓		
		Heavy			1321-3R35-B ⁽²⁾	1321-3RA35-B ⁽²⁾	✓		
22	30	Normal	1321-3R35-B ⁽²⁾	1321-3RA35-B ⁽²⁾			✓		
		Heavy			1321-3R45-B ⁽²⁾	1321-3RA45-B ⁽²⁾	✓		
30	40	Normal	1321-3R45-B ⁽²⁾	1321-3RA45-B ⁽²⁾			✓		
		Heavy			1321-3R55-B ⁽²⁾	1321-3RA55-B ⁽²⁾	✓		
37	50	Normal	1321-3R55-B	1321-3RA55-B	1321-3R55-B	1321-3RA55-B	✓		
		Heavy			1321-3R80-B	1321-3RA80-B	✓		
45	60	Normal/Heavy	1321-3R80-B	1321-3RA80-B			✓		
55	75						✓		
75	100				1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B	✓
90	125				1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B	✓

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(2) Only rated for 810V DC and cannot be used on the same common DC bus as 810/932V DC applications.

(table continues on next page)

PowerFlex 753 and 755 Input and Output Reactors—810V DC Nominal Input, 3% Impedance (continued)

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755				
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)					
110	150	Normal	1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B	✓				
—	300	Heavy	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B	✓				
200	—		1321-3R250-B	1321-3RA250-B	1321-3R250-B	1321-3RA250-B	✓				
—	350	Light/Normal/Heavy	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B	✓				
250	—	Normal/Heavy	1321-3RB320-B	1321-3RAB320-B	1321-3RB320-B	1321-3RAB320-B	✓				
—	400	Light/Normal/Heavy	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B	✓				
300	—						Heavy	✓			
—	450	Light/Normal/Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B	✓				
315	—	Light/Normal	1321-3RB400-B	1321-3RAB400-B	1321-3RB400-B	1321-3RAB400-B	✓				
—	500	Light/Normal/Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓				
355	—		1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B	✓				
—	550	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓				
375	—	Heavy	1321-3R500-B	1321-3RA500-B	1321-3R500-B	1321-3RA500-B	✓				
400	—						Light/Normal/Heavy	✓			
—	600	Normal/Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓				
450	—						Light/Normal	✓			
500	—	Light/Normal/Heavy	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓				
—	700						1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
530	—	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓				
560	—	Normal/Heavy	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓				
—	750						Heavy	✓			
—	800	Light/Normal/Heavy	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓				
630	—						1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
—	900						1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
710	—	Light/Normal	1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓				
—	950						1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓
750	—	Normal	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓				
800	—	Light/Normal/Heavy	1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓				
—	1000						Light/Normal	✓			
—	1100	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽²⁾				
850	—						1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓
900	—	Light/Normal	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽²⁾				
1000	—						Light	1321-3R600-B	1321-3RA600-B	✓ ⁽²⁾	
1100	—	Light/Normal	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽³⁾				
—	1200	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽³⁾				
1500	—	Light/Normal	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽³⁾				
—	1500	Light	1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓ ⁽³⁾				

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.
 (2) Requires two reactors wired in parallel.
 (3) Requires three reactors wired in parallel.

PowerFlex 753 and 755 Input and Output Reactors—810V DC Nominal Input, 5% Impedance

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
0.75	1	Normal	1321-3R2-C ⁽²⁾	1321-3RA2-C ⁽²⁾	1321-3R2-C ⁽²⁾	1321-3RA2-C ⁽²⁾	✓
		Heavy			1321-3R4-D ⁽²⁾	1321-3RA4-D ⁽²⁾	✓
1.1	1.5		1321-3R2-B ⁽²⁾	1321-3RA2-B ⁽²⁾			—
1.5	2	Normal/Heavy	1321-3R4-D ⁽²⁾	1321-3RA4-D ⁽²⁾			✓
2.2	3	Normal					✓
		Heavy	1321-3R8-D ⁽²⁾	1321-3RA8-D ⁽²⁾	✓		
4	5	Normal	1321-3R8-D ⁽²⁾	1321-3RA8-D ⁽²⁾			✓
		Heavy			1321-3R12-C ⁽²⁾	1321-3RA12-C ⁽²⁾	✓
5.5	7.5	Normal/Heavy	1321-3R12-C ⁽²⁾	1321-3RA12-C ⁽²⁾			✓
7.5	10	Normal					✓
		Heavy	1321-3R18-C ⁽²⁾	1321-3RA18-C ⁽²⁾	✓		
11	15	Normal	1321-3R18-C ⁽²⁾	1321-3RA18-C ⁽²⁾			✓
		Heavy			1321-3R25-C ⁽²⁾	1321-3RA25-C ⁽²⁾	✓
15	20	Normal	1321-3R25-C ⁽²⁾	1321-3RA25-C ⁽²⁾			✓
		Heavy			1321-3R35-C ⁽²⁾	1321-3RA35-C ⁽²⁾	✓
18.5	25	Normal/Heavy	1321-3R35-C ⁽²⁾	1321-3RA35-C ⁽²⁾			✓
22	30	Normal					✓
		Heavy	1321-3R45-C ⁽²⁾	1321-3RA45-C ⁽²⁾	✓		
30	40	Normal	1321-3R45-C ⁽²⁾	1321-3RA45-C ⁽²⁾			✓
		Heavy			1321-3R55-C ⁽²⁾	1321-3RA55-C ⁽²⁾	✓
37	50	Normal	1321-3R55-C	1321-3RA55-C	1321-3R55-C	1321-3RA55-C	✓
		Heavy			1321-3R80-C	1321-3RA80-C	✓
45	60	Normal/Heavy	1321-3R80-C	1321-3RA80-C	1321-3R80-C		✓
55	75		1321-3R80-C				✓
75	100		1321-3R100-C	1321-3RA100-C	1321-3R100-C	1321-3RA100-C	✓
90	125		1321-3R130-C	1321-3RA130-C	1321-3R130-C	1321-3RA130-C	✓
110	150	Normal	1321-3R160-C	1321-3RA160-C	1321-3R160-C	1321-3RA160-C	✓
—	300	Heavy	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C	✓
200	—		1321-3R250-C	1321-3RA250-C	1321-3R250-C	1321-3RA250-C	✓
—	350	Light/Normal/Heavy	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C	✓
250	—	Normal/Heavy	1321-3RB320-C	1321-3RAB320-C	1321-3RB320-C	1321-3RAB320-C	✓
—	400	Light/Normal/Heavy	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C	✓

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.

(2) Only rated for 810V DC and cannot be used on the same common DC bus as 810/932V DC applications.

(table continues on next page)

PowerFlex 753 and 755 Input and Output Reactors—810V DC Nominal Input, 5% Impedance (continued)

kW	Hp	Duty	Input Line Reactor ⁽¹⁾		Output Reactor ⁽¹⁾		753/755
			IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	
300	—	Heavy	1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C	✓
315	—	Light/Normal					✓
—	450	Light/Normal/Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C	✓
—	500	Light/Normal	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
355	—	Light/Normal/Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C	✓
—	550	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
375	—	Heavy	1321-3R500-C	1321-3RA500-C	1321-3R500-C	1321-3RA500-C	✓
400	—	Light/Normal/Heavy					✓
—	600	Normal/Heavy	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
450	—	Light/Normal/Heavy					✓
500	—	Heavy					✓
—	700	Light/Normal/Heavy					✓
530	—	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓
—	750	Heavy	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
560	—	Normal/Heavy					✓
—	800	Light/Normal/Heavy	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
630	—		1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
—	900		1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
—	950	Light/Normal	1321-3R1000-C	1321-3RA1000-C	1321-3R1000-C	1321-3RA1000-C	✓
710	—	Light/Normal/Heavy	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓
750	—						Normal
—	1000	Light/Normal	1321-3R1000-C	1321-3RA1000-C	1321-3R1000-C	1321-3RA1000-C	✓
800	—	Light/Normal/Heavy					✓
—	1100	Light	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽²⁾
850	—		1321-3R1000-C	1321-3RA1000-C	1321-3R1000-C	1321-3RA1000-C	✓
900	—	Light/Normal	1321-3R600-C	1321-3RA600-C	1321-3R600-C	1321-3RA600-C	✓ ⁽²⁾
1000	—	Light					✓ ⁽²⁾
1100	—	Light/Normal					✓ ⁽³⁾
—	1200	Light					✓ ⁽³⁾
1500	—	Light/Normal					✓ ⁽³⁾
—	1500	Light					✓ ⁽³⁾

(1) Input line reactors were sized based on the NEC fundamental motor amps. Output line reactors were sized based on the VFD rated output currents.
 (2) Requires two output reactors wired in parallel.
 (3) Requires three reactors wired in parallel.

Glossary

This glossary of terms provides detailed explanations of the phrases and technologies referenced in this selection guide.

Connected Components Workbench™ software	Connected Components Workbench software is a set of collaborative tools supporting the Guardmaster® Configurable Safety Relay, Micro800™ controllers, PowerFlex drives and PanelView™ component operator interface products. It is based on proven Rockwell Automation and Microsoft Visual Studio technology and offers controller programming, device configuration and integration with HIM editor. Program your controllers, configure your devices, and design your operator interface screens using this software and help minimize your initial machine development with this free software.
DeviceLogix Technology	This technology for the PowerFlex 753 and 755 drives lets you control outputs and manage status information locally within the drive, allowing you to operate the drive independently or complementary to supervisory control to help improve system performance and productivity. With DeviceLogix, you can speed reaction time by processing in the drive which reduces dependency on network throughput.
FORCE Technology	Field Oriented Control is a version of Flux Vector Control. It provides excellent low speed/zero speed performance and delivers accurate torque and speed regulation.
Safe Speed Monitor	Provides a solution for applications using PowerFlex 753, 755, and 755TM drives that can benefit from access to a safety zone while there is limited motion. In addition, Safe Speed Monitor has an integrated monitoring relay to save additional panel space and installation labor. This option carries a safety rating up to and including SIL3, PLe, and CAT 4. The Safe Speed Monitor option helps you safely monitor and control the speed of your application, which allows operators to perform process or maintenance work without stopping the machine.
Safe Torque Off	PowerFlex 753, 755, and 755TM drives are available with optional Safe Torque Off functionality offering Safe-off control. The drives offer hardwired Safe Torque Off as well as the option of Networked Safety, a controller-based safety function that is configured in the Studio 5000 Logix Designer environment and delivered via EtherNet/IP.
TotalFORCE Technology	PowerFlex 755TM drives are the first to offer TotalFORCE technology. This new drive technology is the evolution of the Allen-Bradley variable speed control platform. It delivers precise, responsive control of position, velocity and torque for electric motors and incorporates several patented features that are designed to help optimize your system and maintain productivity. Features of TotalFORCE Technology include: <ul style="list-style-type: none">• Concurrent and independent control of flux and torque• High bandwidth motor control• High performance torque smoothness and accuracy• Supports multiple motor types

Rockwell Automation Services & Support

Global Support. Local Address. Peace of Mind.

Providing the resources you need, when and where you need them, Rockwell Automation has an integrated, global network of ISO-certified repair centers, exchange hubs, field service professionals, IACET-recognized training centers, certified technical phone support centers and online tools.

www.rockwellautomation.com/go/services



Meet Your Everyday Technical Needs

Remote Support & Monitoring	Training Services	OnSite Services	Repair Services
<ul style="list-style-type: none"> Real-time product, system and application-level support Unlimited online resources and tools Live chat and support forums Secure equipment monitoring, alarming and diagnostics 	<ul style="list-style-type: none"> Instructor-led and computer or web-based courses Virtual classroom Training assessments Workstations and job aids 	<ul style="list-style-type: none"> Embedded engineering Preventive maintenance Migrations and conversions Start-up and commissioning 	<ul style="list-style-type: none"> Product remanufacturing Repair services on a full range of industrial automation brands and products Annual repair agreements
			

Maximize Your Automation Investment

MRO Demand Management	Lifecycle Extension & Migrations	Network & Security Services	Safety Services
<ul style="list-style-type: none"> Comprehensive asset management planning Reliability services Warranty tracking Quick access to global spare parts inventory 	<ul style="list-style-type: none"> Installed Base Evaluation™ services Pinpoint obsolescence risk Tools and lifecycle support service agreements to mitigate production risk 	<ul style="list-style-type: none"> Control system lifecycle services Manage network convergence Security technology, policies and procedures services 	<ul style="list-style-type: none"> Safety assessments and remediation Safety design, integration and validation services
			

Visit the Rockwell Automation Support Center at www.rockwellautomation.com/knowledgebase for technical information and assistance, plus:

- View technical/application notes
- Obtain software patches
- Subscribe for product/service email notifications
- Submit a Question, Live Chat, Support Forums and more

Visit Get Support Now at www.rockwellautomation.com/go/support to select your country and find your local support information.

      Connect with us.

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