PowerFlex Common Bus Configuration Selection Guide

Allen-Bradley




NOTE: This file is dated May 2017. It replaces the version from April 2017.

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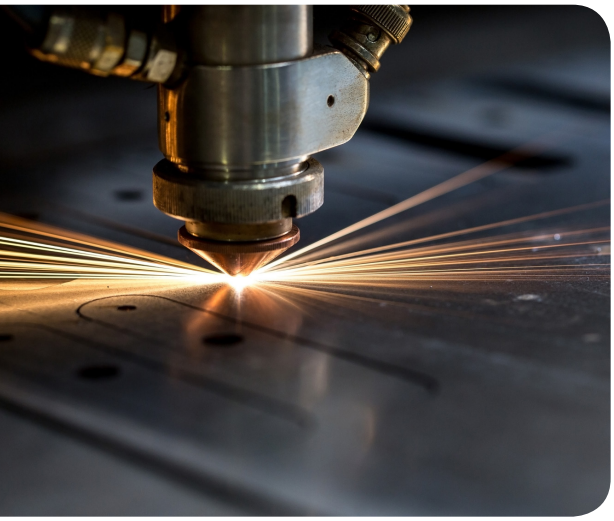
Rockwell Automation

PowerFlex Common Bus Configuration

Selection Guide



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.

Safety Solutions That Help Improve Productivity

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

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

Safe Torque Off is ideal for safety-related applications that benefit from removal of rotational power to the motor without removing power from the drive. This functionality offers the benefit of quick start-up after a demand on the safety system. It provides safety ratings up to and including SIL3, PLe, and CAT 3.

Safe Speed Monitor provides a solution for applications that can benefit from access to a safety zone while there is limited motion. It allows operators to perform some process or maintenance work without stopping the machine. This option carries a safety rating up to and including SIL3, PLe, and CAT 4.

Look to the portfolio of Allen-Bradley safety solutions to help achieve your safety needs.

	Safe Torque Off	Networked Safe Torque Off	Safe Speed Monitor
PowerFlex 753 Drive	Option: SIL3, PLe, CAT 3	N/A	Option: SIL3, PLe, CAT 4
PowerFlex 755 Drive	Option: SIL3, PLe, CAT 3	Option: SIL3, PLe, CAT 3	Option: SIL3, PLe, CAT 4
PowerFlex 755TM Drive	Option: SIL3, PLe, CAT 3	Option: SIL3, PLe, CAT 3	Option: SIL3, PLe, CAT 4

Simplified Drive Configuration and Programming

PowerFlex drives in a common bus configuration allow programming to be faster and less complicated by offering a choice of easy-to-use software packages and programming tools. Each tool offers a powerful and intuitive instrument, designed to help enhance the user experience. These enhancements can help reduce development time and allow the delivery of machines faster and more efficiently.

Human Interface Module

The Human Interface Module (HIM) provides convenient configuration.

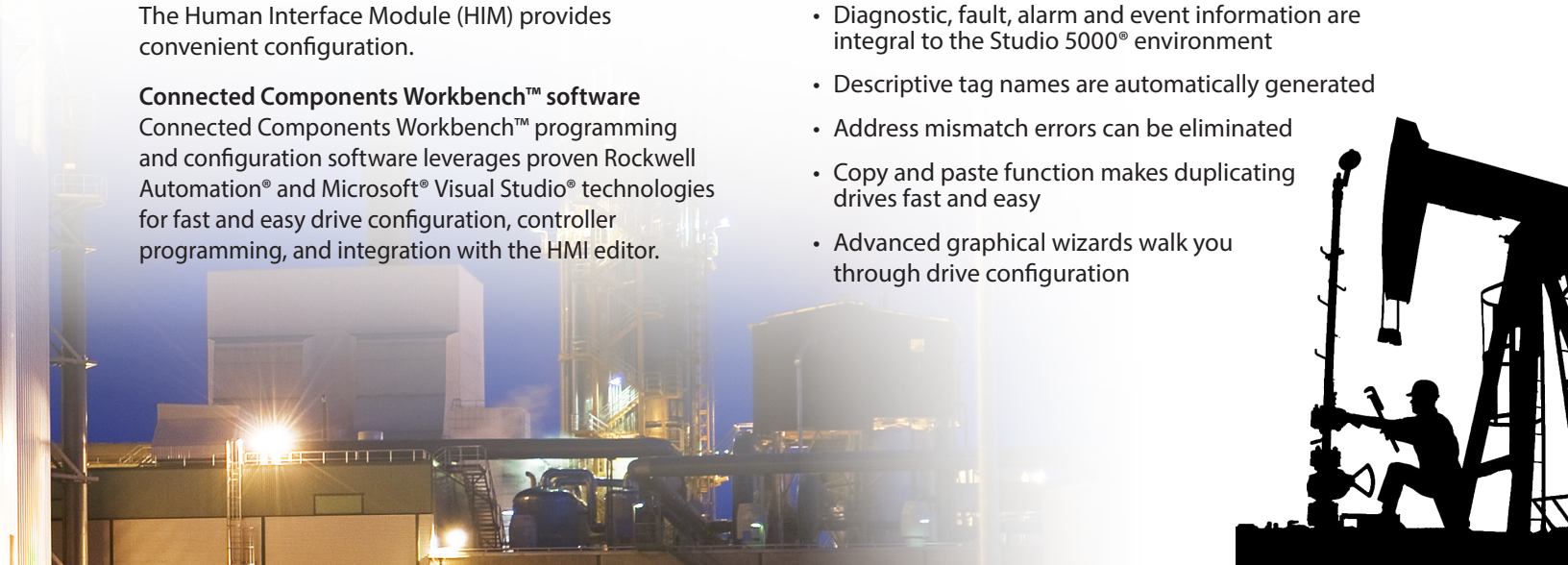
Connected Components Workbench™ software

Connected Components Workbench™ programming and configuration software leverages proven Rockwell Automation® and Microsoft® Visual Studio® technologies for fast and easy drive configuration, controller programming, and integration with the HMI editor.

Configuration and Programming with Studio 5000 Logix Designer®

PowerFlex drives are able to achieve an exceptional level of integration with Logix Programmable Automation Controllers (PACs) within the Studio 5000® environment.

- Single development environment to configure and program your entire control and device system
- Consolidating controller programming and device system configuration helps reduce complication and eliminates mismatch errors
- Diagnostic, fault, alarm and event information are integral to the Studio 5000® environment
- Descriptive tag names are automatically generated
- Address mismatch errors can be eliminated
- Copy and paste function makes duplicating drives fast and easy
- Advanced graphical wizards walk you through drive configuration



What's New

PowerFlex 755T Drive Solutions:

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 superior 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.

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 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 755TM Drive System Solutions

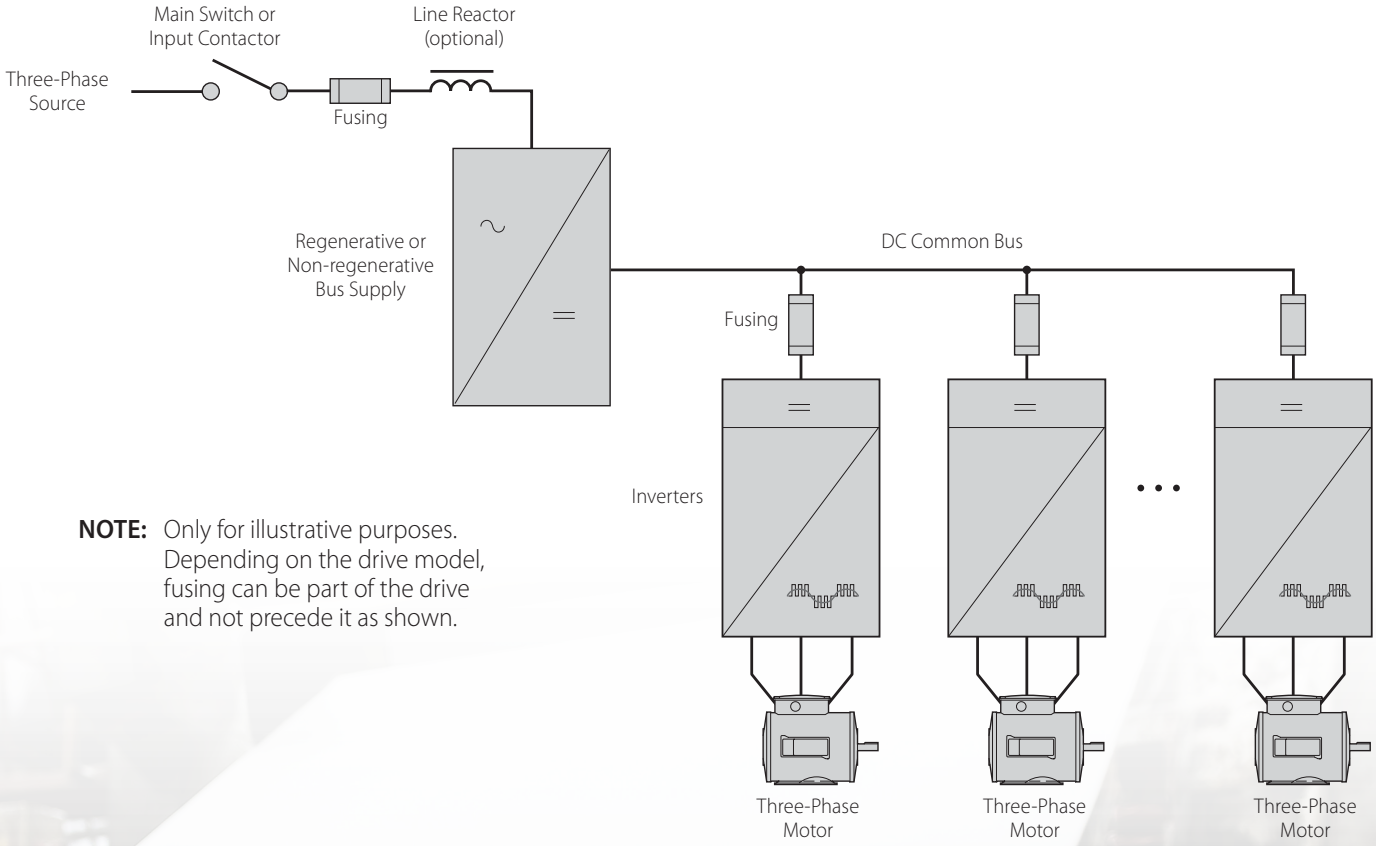
PowerFlex 755TM drive system delivers common bus solutions for regenerative and non-regenerative applications. The PowerFlex 755TM drive system can operate as a regenerative DC bus supply as well as provide DC power to a line-up of common DC bus drives or a single common bus drive. This common bus solution offers an immediate and measurable impact on energy use and operational productivity.

- TotalFORCE technology that delivers exceptional performance through precise and adaptive position, velocity and torque control
- Best-in-class, footprint-optimized packaging of components provide efficient use of floor space
- Reduced installation cost by eliminating the need for costly reactors, braking units and associated hardware
- Modular design features roll-in/out bus supplies and inverters for ease of maintenance during operation
- Built-in voltage boost capability to help protect critical processes from the unwanted disruptive effects of input voltage dips and sags
- Advanced predictive maintenance capabilities
- Embedded dual port EtherNet/IP
- Power factor correction capability

For more selection information on the PowerFlex 755TL and PowerFlex 755TR drives, please reference PFLEX-SG002.

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.



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

PowerFlex 753 Drive

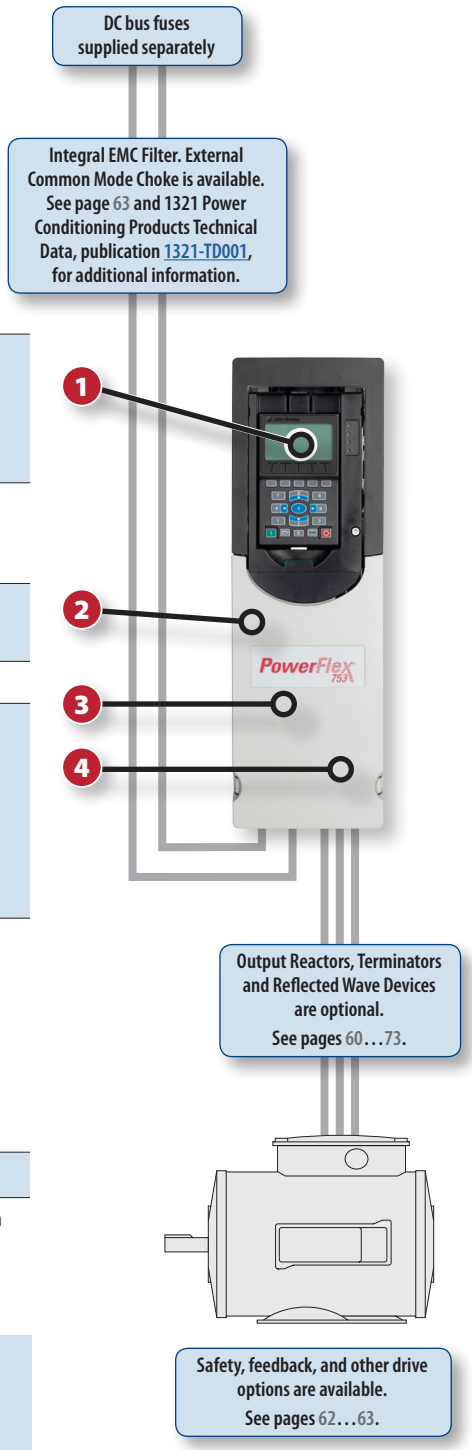
0.75…270 kW/1…400 Hp in input voltages from 540…932V DC

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 540V DC 650V DC 810V DC 932V DC	 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	• V/Hz Control • Sensorless Vector Control	• Vector Control with FORCE Technology (with and without encoder) • Interior Permanent Magnet
Enclosures	• IP00/IP20, NEMA/UL Type Open • Flange Mount	• IP54, NEMA/UL Type 12
Safety	• Safe Torque Off SIL3, PLe, CAT 3	• Safe Speed Monitor SIL3, PLe, CAT 4
Additional Features	• DeviceLogix™ technology • Predictive Diagnostics • Adjustable Voltage Control • Three option slots for I/O, feedback, safety, auxiliary control power, communications • Indexing	• 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	• ABS • AC156 Seismic Standards • ATEX(2) • cULus • CE • EAC • KCC	• Lloyd's Register • RCM • RINA • RoHS • SEMI F47 • TÜV FS(3)
Options	See pages 60…73	

(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 60 for other options.**
2. **Multiple communication options for industrial networks available. See page 61 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 62 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

20F	1	4	N	D	248	A	A	0	N	N	N	N	N
			Enclosure	Voltage Rating	Rating	Filtering & Common Mode Capacitor Configuration	Brake IGBT						

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					
Output Amps			kW	Output Amps			kW	Cat. No.[2]	Frame Size
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	
30	33	45	15	22	33	45	11	20F11NC030JA0NNNNN	3
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	20F14NC140JN0NNNNN[3]	6
170	187	255	90	140	210	255	75	20F14NC170JN0NNNNN[3]	
205	226	308	110	170	255	308	90	20F14NC205JN0NNNNN[3]	
260	286	390	132	205	308	390	110	20F14NC260JN0NNNNN[3]	
302	332	453	160	260	390	468	132	20F14NC302JN0NNNNN[3]	7
367	404	551	200	302	453	551	160	20F14NC367JN0NNNNN[3]	
456	502	684	250	367	551	684	200	20F14NC456JN0NNNNN[3]	
477	525	716	270	367	551	684	200	20F14NC477JN0NNNNN[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					
Output Amps			kW	Output Amps			kW	Cat. No.[1]	Frame Size
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	20F14GC104JN0NNNNN[2]	6
140	154	210	75	104	156	210	55	20F14GC140JN0NNNNN[2]	
170	187	255	90	140	210	255	75	20F14GC170JN0NNNNN[2]	
205	226	308	110	170	255	308	90	20F14GC205JN0NNNNN[2]	
260	286	390	132	205	308	390	110	20F14GC260JN0NNNNN[2]	7
302	332	453	160	260	390	468	132	20F14GC302JN0NNNNN[2]	
367	404	551	200	302	453	551	160	20F14GC367JN0NNNNN[2]	
456	502	684	250	367	551	684	200	20F14GC456JN0NNNNN[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)

Note: 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					
Output Amps				Output Amps					
Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.(1)	Frame Size
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					
Output Amps			Hp	Output Amps			Hp	Cat. No.[2]	Frame Size
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	
27	29.7	40.5	20	22	33	40.5	15	20F11ND027JA0NNNNN	3
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	20F14ND125JN0NNNNN[3]	6
156	172	234	125	125	188	234	100	20F14ND156JN0NNNNN[3]	
186	205	279	150	156	234	281	125	20F14ND186JN0NNNNN[3]	
248	273	372	200	186	279	372	150	20F14ND248JN0NNNNN[3]	
302	332	453	250	248	372	453	200	20F14ND302JN0NNNNN[3]	7
361	397	542	300	302	453	535	250	20F14ND361JN0NNNNN[3]	
415	457	623	350	361	542	650	300	20F14ND415JN0NNNNN[3]	
477	525	716	400	361	542	650	300	20F14ND477JN0NNNNN[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					
Output Amps			Hp	Output Amps			Hp	Cat. No.[1]	Frame Size
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	20F14GD096JN0NNNNN[2]	6
125	138	188	100	96	144	188	75	20F14GD125JN0NNNNN[2]	
156	172	234	125	125	188	234	100	20F14GD156JN0NNNNN[2]	
186	205	279	150	156	234	281	125	20F14GD186JN0NNNNN[2]	
248	273	372	200	186	279	372	150	20F14GD248JN0NNNNN[2]	7
302	332	453	250	248	372	453	200	20F14GD302JN0NNNNN[2]	
361	397	542	300	302	453	535	250	20F14GD361JN0NNNNN[2]	
415	457	623	350	361	542	650	300	20F14GD415JN0NNNNN[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)

Note: 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					
Output Amps				Output Amps					
Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[1]	Frame Size
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					
Output Amps				Output Amps					
Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[2]	Frame Size
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	20F14NE012JN0NNNNN[3]	6
18	19.8	27	15	12	18	27	10	20F14NE018JN0NNNNN[3]	
23	25.3	34.5	20	18	27	34.5	15	20F14NE023JN0NNNNN[3]	
24	26.4	36	20	22	33	39.6	20	20F14NE024JN0NNNNN[3]	
28	30.8	42	25	23	34.5	42	20	20F14NE028JN0NNNNN[3]	
33	36.3	49.5	30	28	42	50.4	25	20F14NE033JN0NNNNN[3]	
42	46.2	63	40	33	49.5	63	30	20F14NE042JN0NNNNN[3]	
53	58	80	50	42	63	80	40	20F14NE053JN0NNNNN[3]	
63	69	95	60	52	78	95	50	20F14NE063JN0NNNNN[3]	
77	85	116	75	63	95	116	50	20F14NE077JN0NNNNN[3]	
99	109	149	100	77	116	149	60	20F14NE099JN0NNNNN[3]	
125	138	188	125	99	149	188	75	20F14NE125JN0NNNNN[3]	
144	158	216	150	125	188	225	100	20F14NE144JN0NNNNN[3]	
192	211	288	200	144	216	288	125	20F14NE192JN0NNNNN[3]	7
242	266	363	250	192	288	363	150	20F14NE242JN0NNNNN[3]	
289	318	434	300	242	363	436	200	20F14NE289JN0NNNNN[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					
Output Amps				Output Amps					
Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[1]	Frame Size
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.

Note: 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					
Output Amps			Hp	Output Amps			Hp	Cat. No.[1]	Frame Size
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	
27	29.7	40.5	25	22	33	40.5	20	20F11FE027JA0NNNNN	4
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					
Output Amps			kW	Output Amps			kW	Cat. No.[2][3]	Frame Size
Cont.	1 min	3 s		Cont.	1 min	3 s			
12	13.2	18	7.5	9	13.5	18	5.5	20F14NF012JN0NNNNN	6
15	16.5	22.5	11	12	18	22.5	7.5	20F14NF015JN0NNNNN	
20	22	30	15	15	22.5	30	11	20F14NF020JN0NNNNN	
23	25.3	34.5	18.5	20	30	36	15	20F14NF023JN0NNNNN	
30	33	45	22	23	34.5	45	18.5	20F14NF030JN0NNNNN	
34	37.4	51	30	30	45	54	22	20F14NF034JN0NNNNN	
46	50.6	69	37	34	51	69	30	20F14NF046JN0NNNNN	
50	55	75	45	46	69	83	37	20F14NF050JN0NNNNN	
61	67	92	55	50	75	92	45	20F14NF061JN0NNNNN	
82	90	123	75	61	92	123	55	20F14NF082JN0NNNNN	
98	108	147	90	82	123	148	75	20F14NF098JN0NNNNN	
119	131	179	110	98	147	179	90	20F14NF119JN0NNNNN	
142	156	213	132	119	179	214	110	20F14NF142JN0NNNNN	
171	188	257	160	142	213	257	132	20F14NF171JN0NNNNN	7
212	233	318	200	171	257	318	160	20F14NF212JN0NNNNN	
263	289	395	250	212	318	395	200	20F14NF263JN0NNNNN	

(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					
Outputs Amp			kW	Output Amps			kW	Cat. No.[2][3]	Frame Size
Cont.	1 min	3 s		Cont.	1 min	3 s			
12	13.2	18	7.5	9	13.5	18	5.5	20F14GF012JN0NNNNN	6
15	16.5	22.5	11	12	18	22.5	7.5	20F14GF015JN0NNNNN	
20	22	30	15	15	22.5	30	11	20F14GF020JN0NNNNN	
23	25.3	34.5	18.5	20	30	36	15	20F14GF023JN0NNNNN	
30	33	45	22	23	34.5	45	18.5	20F14GF030JN0NNNNN	
34	37.4	51	30	30	45	54	22	20F14GF034JN0NNNNN	
46	50.6	69	37	34	51	69	30	20F14GF046JN0NNNNN	
50	55	75	45	46	69	83	37	20F14GF050JN0NNNNN	
61	67	92	55	50	75	92	45	20F14GF061JN0NNNNN	
82	90	123	75	61	92	123	55	20F14GF082JN0NNNNN	
98	108	147	90	82	123	148	75	20F14GF098JN0NNNNN	
119	131	179	110	98	147	179	90	20F14GF119JN0NNNNN	
142	156	213	132	119	179	214	110	20F14GF142JN0NNNNN	
171	188	257	160	142	213	257	132	20F14GF171JN0NNNNN	7
212	233	318	200	171	257	318	160	20F14GF212JN0NNNNN	
263	289	395	250	212	318	395	200	20F14GF263JN0NNNNN	

(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)

Note: 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.

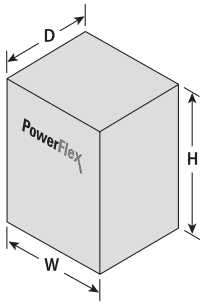
Approximate Dimensions and Weights (Frames 1…7)

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.

IP00/IP20, NEMA/UL Type Open

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

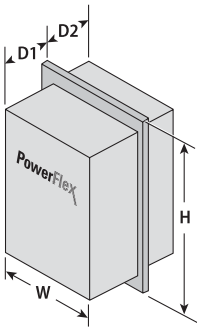


IP54, NEMA/UL Type 12

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

Flange Mount

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



PowerFlex 755 Drive

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

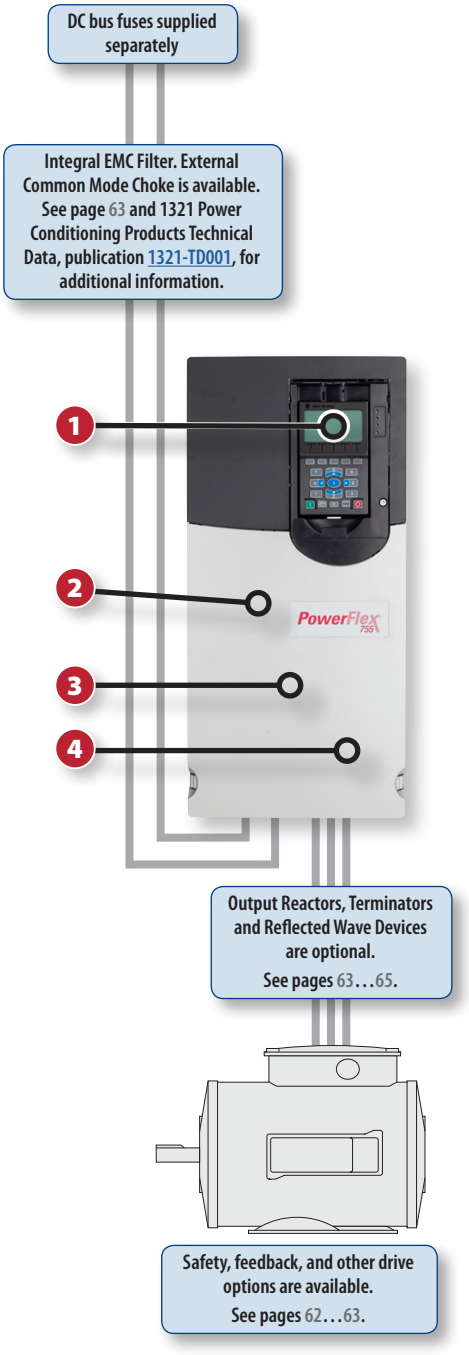
Designed for flexibility, connectivity and productivity, the PowerFlex 755 common bus DC drive provides ease of use and high performance for a wide variety of motor control applications. Ideal for machines that benefit from safety options, application flexibility, and packaging designed to meet a variety 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 650V DC 810V DC 932V DC	 0.75…1400 kW / 2.1…2330 A 1…2000 Hp / 2.1…2240 A 1…1500 Hp / 1.7…1530 A 7.5…1500 kW / 12…1485 A	
Motor Control	• V/Hz Control • Sensorless Vector Control • Vector Control with FORCE Technology (with and without encoder)	• Surface Mount Permanent Magnet: Frames 1…7 (with and without encoder) Frames 8…10 (with encoder) • Interior Permanent Magnet: Frames 1…7 (with and without encoder) Frames 8…10 (with encoder)
Enclosures	• IP00/IP20, NEMA/UL Type Open • Flange Mount • IP54/NEMA/UL Type 12	• IP20, NEMA/UL Type 1 (MCC Style Cabinet) • IP54, NEMA Type 12 (MCC Style Cabinet)
Safety	• Hardwired Safe Torque Off SIL3, PLe, CAT 3 • Hardwired Safe Speed Monitor SIL3, PLe, CAT 4	• Networked Safe Torque Off SIL3, PLe, CAT 3
Additional Features	• 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	• TorqProve for lifting applications • Pump Jack and Pump Off for oil well applications • Pump and Traverse for fiber applications • Conformal Coating • DC Link Choke • AC line fuses included with Frame 8…10 drives • Roll-out design for Frame 8…10 drives
Certifications	• ABS • AC156 Seismic Standards • ATEX(1) • cULus • CE • EAC • KCC	• Lloyd's Register • RCM • RINA • RoHS • SEMI F47 • TÜV FS(2)
Options	See pages 60…73	

(1) Certification requires 11-series I/O and ATEX daughter card options.
(2) Certification applies to 20-750-S, 20-750-S1, and 20-750-S3 safety options when installed in drive.



1. **LCD HIM with multi-language support in scrolling text available as optional accessory. See page 60 for other options.**
2. **Communications: Embedded EtherNet/IP. See page 61 for additional options.**
3. **Embedded I/O: 1 Digital Input. See page 62 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 in standard on Frames 1…5 and optional on Frames 6…7.

PowerFlex 755 Floor Mount Drives

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

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

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.
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 63 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

20G	1	4	N	D	248	J	A	0	N	N	N	N	N	- ND - P24 - P30…
			Enclosure	Voltage Rating	Rating	Filtering and Common Mode Capacitor Configuration	Brake IGBT	Door Mounted HIM (Frames 8…10 only)						Cabinet Options (21G)

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]

Light Duty[2]			Normal Duty				Heavy Duty					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	kW	Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.[3][4]	Frame Size
—	—	—	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	
			30	33	45	15	22	33	45	11	20G11NC030JA0NNNNN	3
			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	20G14NC140JN0NNNNN[5]	6
			170	187	255	90	140	210	255	75	20G14NC170JN0NNNNN[5]	
			205	226	308	110	170	255	308	90	20G14NC205JN0NNNNN[5]	
			260	286	390	132	205	308	390	110	20G14NC260JN0NNNNN[5]	
			302	332	453	160	260	390	468	132	20G14NC302JN0NNNNN[5]	7
			367	404	551	200	302	453	551	160	20G14NC367JN0NNNNN[5]	
			456	502	684	250	367	551	684	200	20G14NC456JN0NNNNN[5]	
			477	525	716	270	367	551	684	200	20G14NC477JN0NNNNN[5]	

(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 6th character (designated by an * in this table) determines Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).

(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 63.

(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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	kW	Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.[3][4]	Frame Size
540	594	315	460	506	690	250	385	578	693	200	20G14*C460JN0NNNNN	8[6]
585	644	315	540	594	810	315	456	684	821	250	20G14*C540JN0NNNNN	
612	673	355	567	624	851	315	472	708	850	250	20G14*C567JN0NNNNN	
750	825	400	650	715	975	355	540	810	972	315	20G14*C650JN0NNNNN	
796	876	450	750	825	1125	400	585	878	1053	315	20G14*C750JN0NNNNN	
832	915	450	770	847	1155	400	642	963	1156	355	20G14*C770JN0NNNNN	
1040	1144	560	910	1001	1365	500	750	1125	1350	400	20G14*C910JN0NNNNN	9[6]
1090	1199	630	1040	1144	1560	560	880	1320	1584	500	20G14*C1K0JN0NNNNN	
1175	1293	710	1090	1199	1635	630	910	1365	1638	500	20G14*C1K1JN0NNNNN	
1465	1612	800	1175	1293	1763	710	1040	1560	1872	560	20G14*C1K2JN0NNNNN	
1480	1628	850	1465	1612	2198	800	1090	1635	1962	630	20G14*C1K4JN0NNNNN	
1600	1760	900	1480	1628	2220	850	1175	1763	2115	710	20G14*C1K5JN0NNNNN	
1715	1887	1000	1590	1749	2385	900	1325	1988	2385	710	20G14*C1K6JN0NNNNN	10[6]
2330	2563	1400	2150	2365	3225	1250	1800	2700	3240	1000	20G14*C2K1JN0NNNNN	

(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 Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).

(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 63.

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

IP54, NEMA/UL Type 12

Light Duty[1]			Normal Duty				Heavy Duty					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	kW	Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.[2]	Frame Size
—	—	—	2.1	3.1	3.7	0.75	2.1	3.1	3.7	0.75	20G11GC2P1JA0NNNNN	2
			3.5	5.2	6.3	1.5	3.5	5.2	6.3	1.5	20G11GC3P5JA0NNNNN	
			5	7.5	9	2.2	5	7.5	9.0	2.2	20G11GC5P0JA0NNNNN	
			8.7	13	15.6	4	8.7	13	15.6	4	20G11GC8P7JA0NNNNN	
			11.5	17.2	20.7	5.5	11.5	17.2	20.7	5.5	20G11GC011JA0NNNNN	
			15.4	16.9	23.1	7.5	11.5	17.2	23.1	5.5	20G11GC015JA0NNNNN	
			22	24.2	33	11	15.4	24.2	33	7.5	20G11GC022JA0NNNNN	
			30	33	45	15	22	33	45	11	20G11GC030JA0NNNNN	3
			37	40.7	55.5	18.5	30	45	55.5	15	20G11GC037JA0NNNNN	
			43	47.3	64.5	22	37	55.5	66.6	18.5	20G11GC043JA0NNNNN	
			60	66	90	30	44	66	90	22	20G11GC060JA0NNNNN	4
			72	79.2	108	37	60	90	108	30	20G14GC072JA0NNNNN	5
			85	93.5	128	45	72	108	130	37	20G14GC085JA0NNNNN	
			104	114	156	55	85	128	156	45	20G14GC104JN0NNNNN[3]	6
			140	154	210	75	104	156	210	55	20G14GC140JN0NNNNN[3]	
			170	187	255	90	140	210	255	75	20G14GC170JN0NNNNN[3]	
			205	226	308	110	170	255	308	90	20G14GC205JN0NNNNN[3]	
			260	286	390	132	205	308	390	110	20G14GC260JN0NNNNN[3]	7
			302	332	453	160	260	390	468	132	20G14GC302JN0NNNNN[3]	
			367	404	551	200	302	453	551	160	20G14GC367JN0NNNNN[3]	
			456	502	684	250	367	551	684	200	20G14GC456JN0NNNNN[3]	
540	594	315	460	506	690	250	385	578	693	200	20G14JC460JN0NNNNN	8[4]
585	644	315	540	594	810	315	456	684	821	250	20G14JC540JN0NNNNN	
612	673	355	567	624	851	315	472	708	850	250	20G14JC567JN0NNNNN	
750	825	400	650	715	975	355	540	810	972	315	20G14JC650JN0NNNNN	
796	876	450	750	825	1125	400	585	878	1053	315	20G14JC750JN0NNNNN	
832	915	450	770	847	1155	400	642	963	1156	355	20G14JC770JN0NNNNN	
1040	1144	560	910	1001	1365	500	750	1125	1350	400	20G14JC910JN0NNNNN	9[4]
1090	1199	630	1040	1144	1560	560	880	1320	1584	500	20G14JC1K0JN0NNNNN	
1175	1293	710	1090	1199	1635	630	910	1365	1638	500	20G14JC1K1JN0NNNNN	
1465	1612	800	1175	1293	1763	710	1040	1560	1872	560	20G14JC1K2JN0NNNNN	
1480	1628	850	1465	1612	2198	800	1090	1635	1962	630	20G14JC1K4JN0NNNNN	
1600	1760	900	1480	1628	2220	850	1175	1763	2115	710	20G14JC1K5JN0NNNNN	
1715	1887	1000	1590	1749	2385	900	1325	1988	2385	710	20G14JC1K6JN0NNNNN	10[4]
2330	2563	1400	2150	2365	3225	1250	1800	2700	3240	1000	20G14JC2K1JN0NNNNN	

(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 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) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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

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

Note: 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					
Outputs Amp				Output Amps					
Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.(1)	Frame Size
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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[3][4]	Frame Size
—	—	—	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	
			27	29.7	40.5	20	22	33	40.5	15	20G11ND027JA0NNNNN	3
			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	20G14ND125JN0NNNNN[5]	6
			156	172	234	125	125	188	234	100	20G14ND156JN0NNNNN[5]	
			186	205	279	150	156	234	281	125	20G14ND186JN0NNNNN[5]	
			248	273	372	200	186	279	372	150	20G14ND248JN0NNNNN[5]	
			302	332	453	250	248	372	453	200	20G14ND302JN0NNNNN[5]	7
			361	397	542	300	302	453	535	250	20G14ND361JN0NNNNN[5]	
			415	457	623	350	361	542	650	300	20G14ND415JN0NNNNN[5]	
			477	525	716	400	361	542	650	300	20G14ND477JN0NNNNN[5]	

(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 Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).
(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 63.

(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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[3][4]	Frame Size
485	534	400	430	473	645	350	370	555	666	300	20G14*D430JN0NNNNN	8[6]
545	600	450	485	534	728	400	414	621	745	350	20G14*D485JN0NNNNN	
590	649	500	545	600	818	450	454	681	817	350	20G14*D545JN0NNNNN	
710	781	600	617	679	926	500	485	728	873	400	20G14*D617JN0NNNNN	
765	842	650	710	781	1065	600	545	818	981	450	20G14*D710JN0NNNNN	
800	880	700	740	814	1110	650	617	926	1111	500	20G14*D740JN0NNNNN	
960	1056	800	800	880	1200	700	710	1065	1278	600	20G14*D800JN0NNNNN	9[6]
1045	1150	900	960	1056	1440	800	795	1193	1431	700	20G14*D960JN0NNNNN	
1135	1249	1000	1045	1150	1568	900	800	1200	1440	750	20G14*D1K0JN0NNNNN	
1365	1502	1100	1135	1249	1703	1000	960	1440	1728	800	20G14*D1K2JN0NNNNN	
1420	1562	1250	1365	1502	2048	1100	1045	1568	1881	900	20G14*D1K3JN0NNNNN	
1540	1694	1350	1420	1562	2130	1250	1135	1703	2043	1000	20G14*D1K4JN0NNNNN	
1655	1821	1500	1525	1678	2288	1350	1270	1905	2286	1100	20G14*D1K5JN0NNNNN	10[6]
2240	2464	2000	2070	2277	3105	1750	1730	2595	3114	1650	20G14*D2K0JN0NNNNN	

(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 Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).
(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 63.

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

IP54, NEMA/UL Type 12

Light Duty[1]			Normal Duty				Heavy Duty					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[2]	Frame Size
—	—	—	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	
			96	106	144	75	77	116	144	60	20G14GD096JN0NNNNN[3]	6
			125	138	188	100	96	144	188	75	20G14GD125JN0NNNNN[3]	
			156	172	234	125	125	188	234	100	20G14GD156JN0NNNNN[3]	
			186	205	279	150	156	234	281	125	20G14GD186JN0NNNNN[3]	
			248	273	372	200	186	279	372	150	20G14GD248JN0NNNNN[3]	7
			302	332	453	250	248	372	453	200	20G14GD302JN0NNNNN[3]	
			361	397	542	300	302	453	535	250	20G14GD361JN0NNNNN[3]	
			415	457	623	350	361	542	650	300	20G14GD415JN0NNNNN[3]	
485	534	400	430	473	645	350	370	555	666	300	20G14JD430JN0NNNNN	8[4]
545	600	450	485	534	728	400	414	621	745	350	20G14JD485JN0NNNNN	
590	649	500	545	600	818	450	454	681	817	350	20G14JD545JN0NNNNN	
710	781	600	617	679	926	500	485	728	873	400	20G14JD617JN0NNNNN	
765	842	650	710	781	1065	600	545	818	981	450	20G14JD710JN0NNNNN	
800	880	700	740	814	1110	650	617	926	1111	500	20G14JD740JN0NNNNN	
960	1056	800	800	880	1200	700	710	1065	1278	600	20G14JD800JN0NNNNN	9[4]
1045	1150	900	960	1056	1440	800	795	1193	1431	700	20G14JD960JN0NNNNN	
1135	1249	1000	1045	1150	1568	900	800	1200	1440	750	20G14JD1K0JN0NNNNN	
1365	1502	1100	1135	1249	1703	1000	960	1440	1728	800	20G14JD1K2JN0NNNNN	
1420	1562	1250	1365	1502	2048	1100	1045	1568	1881	900	20G14JD1K3JN0NNNNN	
1540	1694	1350	1420	1562	2130	1250	1135	1703	2043	1000	20G14JD1K4JN0NNNNN	
1655	1821	1500	1525	1678	2288	1350	1270	1905	2286	1100	20G14JD1K5JN0NNNNN	10[4]
2240	2464	2000	2070	2277	3105	1750	1730	2595	3114	1650	20G14JD2K0JN0NNNNN	

(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) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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

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

Note: 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					
Output Amps				Output Amps					
Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.(1)	Frame Size
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					
Outputs Amp			Outputs Amp				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[3]	Frame Size
—	—	—	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	5
			52	57.2	78	50	41	61.5	78	40	20G14NE052JA0NNNNN	
			12	13.2	18	10	9.1	13.7	18	7.5	20G14NE012JN0NNNNN[4]	6
			18	19.8	27	15	12	18	27	10	20G14NE018JN0NNNNN[4]	
			23	25.3	34.5	20	18	27	34.5	15	20G14NE023JN0NNNNN[4]	
			24	26.4	36	20	22	33	39.6	20	20G14NE024JN0NNNNN[4]	
			28	30.8	42	25	23	34.5	42	20	20G14NE028JN0NNNNN[4]	
			33	36.3	49.5	30	28	42	50.4	25	20G14NE033JN0NNNNN[4]	
			42	46.2	63	40	33	49.5	63	30	20G14NE042JN0NNNNN[4]	
			53	58	80	50	42	63	80	40	20G14NE053JN0NNNNN[4]	
			63	69	95	60	52	78	95	50	20G14NE063JN0NNNNN[4]	
			77	85	116	75	63	95	116	50	20G14NE077JN0NNNNN[4]	
			99	109	149	100	77	116	149	60	20G14NE099JN0NNNNN[4]	
			125	138	188	125	99	149	188	75	20G14NE125JN0NNNNN[4]	
			144	158	216	150	1258	1888	225	100	20G14NE144JN0NNNNN[4]	
			192	211	288	200	144	216	288	125	20G14NE192JN0NNNNN[4]	7
			242	266	363	250	192	288	363	150	20G14NE242JN0NNNNN[4]	
			289	318	434	300	242	363	436	200	20G14NE289JN0NNNNN[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.
(5) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

(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					
Outputs Amp			Outputs Amp				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[3][4][5]	Frame Size
355	391	350	295	325	443	300	272	408	490	250	20G14*E295JN0NNNNN	8[6]
395	435	400	355	391	533	350	295	443	531	300	20G14*E355JN0NNNNN	
435	479	450	395	435	593	400	329	494	592	350	20G14*E395JN0NNNNN	
460	506	500	435	479	653	450	355	533	639	350	20G14*E435JN0NNNNN	
510	561	500	460	506	690	500	395	593	711	400	20G14*E460JN0NNNNN	
545	600	550	510	561	765	500	425	638	765	450	20G14*E510JN0NNNNN	
690	759	700	595	655	893	600	510	765	918	500	20G14*E595JN0NNNNN	9[6]
760	836	800	630	693	945	700	595	893	1071	600	20G14*E630JN0NNNNN	
835	919	900	760	836	1140	800	630	945	1134	700	20G14*E760JN0NNNNN	
900	990	950	825	908	1238	900	700	1050	1260	750	20G14*E825JN0NNNNN	
980	1078	1000	900	990	1350	950	760	1140	1368	800	20G14*E900JN0NNNNN	
1045	1150	1100	980	1078	1470	1000	815	1223	1467	900	20G14*E980JN0NNNNN	
1220	1342	1200	1110	1221	1665	1100	920	1380	1656	1000	20G14*E1K1JN0NNNNN	10[6]
1530	1683	1500	1430	1573	2145	1400	1190	1785	2142	1250	20G14*E1K4JN0NNNNN	

(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 Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).
(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 63.

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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[2]	Frame Size
—	—	—	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	20G14GE012JN0NNNNN[3]	6
			18	19.8	27	15	12	18	27	10	20G14GE018JN0NNNNN[3]	
			23	25.3	34.5	20	18	27	34.5	15	20G14GE023JN0NNNNN[3]	
			24	26.4	36	20	22	33	39.6	20	20G14GE024JN0NNNNN[3]	
			28	30.8	42	25	23	34.5	42	20	20G14GE028JN0NNNNN[3]	
			33	36.3	49.5	30	28	42	50.4	25	20G14GE033JN0NNNNN[3]	
			42	46.2	63	40	33	49.5	63	30	20G14GE042JN0NNNNN[3]	
			53	58	80	50	42	63	80	40	20G14GE053JN0NNNNN[3]	
			63	69	95	60	52	78	95	50	20G14GE063JN0NNNNN[3]	
			77	85	116	75	63	95	116	50	20G14GE077JN0NNNNN[3]	
			99	109	149	100	77	116	149	60	20G14GE099JN0NNNNN[3]	
			125	138	188	125	99	149	188	75	20G14GE125JN0NNNNN[3]	
			144	158	216	150	1258	1888	225	100	20G14GE144JN0NNNNN[3]	
			192	211	288	200	144	216	288	125	20G14GE192JN0NNNNN[3]	7
			242	266	363	250	192	288	363	150	20G14GE242JN0NNNNN[3]	
			289	318	434	300	242	363	436	200	20G14GE289JN0NNNNN[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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	Hp	Cont.	1 min	3 s	Hp	Cont.	1 min	3 s	Hp	Cat. No.[2][3]	Frame Size
355	391	350	295	325	443	300	272	408	490	250	20G14JE295JN0NNNNN	8[4]
395	435	400	355	391	533	350	295	443	531	300	20G14JE355JN0NNNNN	
435	479	450	395	435	593	400	329	494	592	350	20G14JE395JN0NNNNN	
460	506	500	435	479	653	450	355	533	639	350	20G14JE435JN0NNNNN	
510	561	500	460	506	690	500	395	593	711	400	20G14JE460JN0NNNNN	
545	600	550	510	561	765	500	425	638	765	450	20G14JE510JN0NNNNN	
690	759	700	595	655	893	600	510	765	918	500	20G14JE595JN0NNNNN	9[4]
760	836	800	630	693	945	700	595	893	1071	600	20G14JE630JN0NNNNN	
835	919	900	760	836	1140	800	630	945	1134	700	20G14JE760JN0NNNNN	
900	990	950	825	908	1238	900	700	1050	1260	750	20G14JE825JN0NNNNN	
980	1078	1000	900	990	1350	950	760	1140	1368	800	20G14JE900JN0NNNNN	
1045	1150	1100	980	1078	1470	1000	815	1223	1467	900	20G14JE980JN0NNNNN	
1220	1342	1200	1110	1221	1665	1100	920	1380	1656	1000	20G14JE1K1JN0NNNNN	10[4]
1530	1683	1500	1430	1573	2145	1400	1190	1785	2142	1250	20G14JE1K4JN0NNNNN	

(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) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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.

Note: 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					
Outputs Amp			Hp	Output Amps			Hp	Cat. No.[1]	Frame Size
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					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	kW	Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.[3]	Frame Size
—	—	—	12	13.2	18	7.5	9	13.5	18	5.5	20G14NF012JN0NNNNN[4]	6
			15	16.5	22.5	11	12	18	22.5	7.5	20G14NF015JN0NNNNN[4]	
			20	22	30	15	15	22.5	30	11	20G14NF020JN0NNNNN[4]	
			23	25.3	34.5	18.5	20	30	36	15	20G14NF023JN0NNNNN[4]	
			30	33	45	22	23	34.5	45	18.5	20G14NF030JN0NNNNN[4]	
			34	37.4	51	30	30	45	54	22	20G14NF034JN0NNNNN[4]	
			46	50.6	69	37	34	51	69	30	20G14NF046JN0NNNNN[4]	
			50	55	75	45	46	69	83	37	20G14NF050JN0NNNNN[4]	
			61	67	92	55	50	75	92	45	20G14NF061JN0NNNNN[4]	
			82	90	123	75	61	92	123	55	20G14NF082JN0NNNNN[4]	
			98	108	147	90	82	123	148	75	20G14NF098JN0NNNNN[4]	
			119	131	179	110	98	147	179	90	20G14NF119JN0NNNNN[4]	
			142	156	213	132	119	179	214	110	20G14NF142JN0NNNNN[4]	
			171	188	257	160	142	213	257	132	20G14NF171JN0NNNNN[4]	7
			212	233	318	200	171	257	318	160	20G14NF212JN0NNNNN[4]	
			263	289	395	250	212	318	395	200	20G14NF263JN0NNNNN[4]	
330	363	315	265	292	398	250	215	323	387	200	20G14*F265JN0NNNNN[5]	8[6]
370	407	355	330	363	495	315	265	398	477	250	20G14*F330JN0NNNNN[5]	
410	451	400	370	407	555	355	308	462	554	300	20G14*F370JN0NNNNN[5]	
460	506	450	415	457	623	400	370	555	666	355	20G14*F415JN0NNNNN[5]	
500	550	500	460	506	690	450	375	563	675	375	20G14*F460JN0NNNNN[5]	
530	583	530	500	550	750	500	413	620	743	400	20G14*F500JN0NNNNN[5]	
650	715	630	590	649	885	560	460	690	828	450	20G14*F590JN0NNNNN[5]	9[6]
710	781	710	650	715	975	630	500	750	900	500	20G14*F650JN0NNNNN[5]	
790	869	800	710	781	1065	710	590	885	1062	560	20G14*F710JN0NNNNN[5]	
860	946	850	765	842	1148	750	650	975	1170	630	20G14*F765JN0NNNNN[5]	
960	1056	900	795	875	1193	800	750	1125	1350	710	20G14*F795JN0NNNNN[5]	
1020	1122	1000	960	1056	1440	900	795	1193	1431	800	20G14*F960JN0NNNNN[5]	
1150	1265	1100	1040	1144	1560	1000	865	1298	1557	900	20G14*F1K0JN0NNNNN[5]	10[6]
1485	1634	1500	1400	1540	2100	1400	1160	1740	2088	1120	20G14*F1K4JN0NNNNN[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 Enclosure Type and Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep, and "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.).

(6) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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

IP54, NEMA/UL Type 12

Light Duty[1]			Normal Duty				Heavy Duty					
Output Amps			Output Amps				Output Amps					
Cont.	1 min	kW	Cont.	1 min	3 s	kW	Cont.	1 min	3 s	kW	Cat. No.[2]	Frame Size
—	—	—	12	13.2	18	7.5	9	13.5	18	5.5	20G14GF012JN0NNNNN[3]	6
			15	16.5	22.5	11	12	18	22.5	7.5	20G14GF015JN0NNNNN[3]	
			20	22	30	15	15	22.5	30	11	20G14GF020JN0NNNNN[3]	
			23	25.3	34.5	18.5	20	30	36	15	20G14GF023JN0NNNNN[3]	
			30	33	45	22	23	34.5	45	18.5	20G14GF030JN0NNNNN[3]	
			34	37.4	51	30	30	45	54	22	20G14GF034JN0NNNNN[3]	
			46	50.6	69	37	34	51	69	30	20G14GF046JN0NNNNN[3]	
			50	55	75	45	46	69	83	37	20G14GF050JN0NNNNN[3]	
			61	67	92	55	50	75	92	45	20G14GF061JN0NNNNN[3]	
			82	90	123	75	61	92	123	55	20G14GF082JN0NNNNN[3]	
			98	108	147	90	82	123	148	75	20G14GF098JN0NNNNN[3]	
			119	131	179	110	98	147	179	90	20G14GF119JN0NNNNN[3]	
			142	156	213	132	119	179	214	110	20G14GF142JN0NNNNN[3]	
			171	188	257	160	142	213	257	132	20G14GF171JN0NNNNN[3]	7
			212	233	318	200	171	257	318	160	20G14GF212JN0NNNNN[3]	
			263	289	395	250	212	318	395	200	20G14GF263JN0NNNNN[3]	
330	363	315	265	292	398	250	215	323	387	200	20G14JF265JN0NNNNN	8[4]
370	407	355	330	363	495	315	265	398	477	250	20G14JF330JN0NNNNN	
410	451	400	370	407	555	355	308	462	554	300	20G14JF370JN0NNNNN	
460	506	450	415	457	623	400	370	555	666	355	20G14JF415JN0NNNNN	
500	550	500	460	506	690	450	375	563	675	375	20G14JF460JN0NNNNN	
530	583	530	500	550	750	500	413	620	743	400	20G14JF500JN0NNNNN	
650	715	630	590	649	885	560	460	690	828	450	20G14JF590JN0NNNNN	9[4]
710	781	710	650	715	975	630	500	750	900	500	20G14JF650JN0NNNNN	
790	869	800	710	781	1065	710	590	885	1062	560	20G14JF710JN0NNNNN	
860	946	850	765	842	1148	750	650	975	1170	630	20G14JF765JN0NNNNN	
960	1056	900	795	875	1193	800	750	1125	1350	710	20G14JF795JN0NNNNN	
1020	1122	1000	960	1056	1440	900	795	1193	1431	800	20G14JF960JN0NNNNN	
1150	1265	1100	1040	1144	1560	1000	865	1298	1557	900	20G14JF1K0JN0NNNNN	10[4]
1485	1634	1500	1400	1540	2100	1400	1160	1740	2088	1120	20G14JF1K4JN0NNNNN	

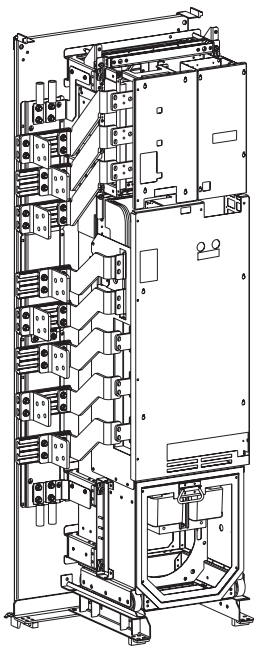
(1) Light Duty rating only available on Frame 8…10 drives. Light Duty allows 110% overload for 1 minute, and does not have a 3 second overload rating.
(2) The 11th character determines default Filtering and Common Mode Cap jumper configuration; "J" = Installed, and "A" = Removed.
(3) The 12th character determines whether an internal dynamic braking IGBT is included; "A" = Internal dynamic braking transistor installed, and "N" = No internal dynamic braking transistor.
(4) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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

Note: 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 either AC input or 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 63 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)				
Output Amps		Output Amps		Output Amps				
Cont.	kW	Cont.	kW	Cont.	kW	Base Drive Cat. No.(1)	Quantity Required	Equivalent Frame Size(2)
540	315	460	250	385	200	20G14TC460JN0NNNNN	1	8
585	315	540	315	456	250	20G14TC540JN0NNNNN		
612	355	567	315	472	250	20G14TC567JN0NNNNN		
750	400	650	355	540	315	20G14TC650JN0NNNNN		
796	450	750	400	585	315	20G14TC750JN0NNNNN		
832	450	770	400	642	355	20G14TC770JN0NNNNN		
1040	560	910	500	750	400	20G14TC460JN0NNNNN	2	9
1090	630	1040	560	880	500	20G14TC540JN0NNNNN		
1175	710	1090	630	910	500	20G14TC567JN0NNNNN		
1465	800	1175	710	1040	560	20G14TC650JN0NNNNN		
1480	850	1465	800	1090	630	20G14TC750JN0NNNNN		
1600	900	1480	850	1175	710	20G14TC770JN0NNNNN		
1715	1000	1590	900	1325	710	20G14TC567JN0NNNNN	3	10
2330	1400	2150	1250	1800	1000	20G14TC770JN0NNNNN		

(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 63.

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)				
Output Amps		Output Amps		Output Amps				
Cont.	Hp	Cont.	Hp	Cont.	Hp	Base Drive Cat. No.	Quantity Required	Equivalent Frame Size[1]
485	400	430	350	370	300	20G14TD430JN0NNNNN	1	8
545	450	485	400	414	350	20G14TD485JN0NNNNN		
590	500	545	450	454	350	20G14TD545JN0NNNNN		
710	600	617	500	485	400	20G14TD617JN0NNNNN		
765	650	710	600	545	450	20G14TD710JN0NNNNN		
800	700	740	650	617	500	20G14TD740JN0NNNNN		
960	800	800	700	710	600	20G14TD430JN0NNNNN	2	9
1045	900	960	800	795	700	20G14TD485JN0NNNNN		
1135	1000	1045	900	800	750	20G14TD545JN0NNNNN		
1365	1100	1135	1000	960	800	20G14TD617JN0NNNNN		
1420	1250	1365	1100	1045	900	20G14TD710JN0NNNNN		
1540	1350	1420	1250	1135	1000	20G14TD740JN0NNNNN		
1655	1500	1525	1350	1270	1100	20G14TD545JN0NNNNN	3	10
2240	2000	2070	1750	1730	1650	20G14TD740JN0NNNNN		

(1) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

Common Bus Drives–810V DC Nominal Input

Light Duty (-LD)		Normal Duty (-ND)		Heavy Duty (-HD)				
Output Amps		Output Amps		Output Amps				
Cont.	Hp	Cont.	Hp	Cont.	Hp	Base Drive Cat. No.	Quantity Required	Equivalent Frame Size[1]
355	350	295	300	272	250	20G14TE295JN0NNNNN	1	8
395	400	355	350	295	300	20G14TE355JN0NNNNN		
435	450	395	400	329	350	20G14TE395JN0NNNNN		
460	500	435	450	355	350	20G14TE435JN0NNNNN		
510	500	460	500	395	400	20G14TE460JN0NNNNN		
545	550	510	500	425	450	20G14TE510JN0NNNNN		
690	700	595	600	510	500	20G14TE295JN0NNNNN	2	9
760	800	630	700	595	600	20G14TE355JN0NNNNN		
835	900	760	800	630	700	20G14TE395JN0NNNNN		
900	950	825	900	700	750	20G14TE435JN0NNNNN		
980	1000	900	950	760	800	20G14TE460JN0NNNNN		
1045	1100	980	1000	815	900	20G14TE510JN0NNNNN		
1220	1200	1110	1100	920	1000	20G14TE395JN0NNNNN	3	10
1530	1500	1430	1400	1190	1250	20G14TE510JN0NNNNN		

(1) A roll-out cart is required with Frame 8…10 drives to assist with power wiring and cabinet mounting. Refer to page 63.

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)				
Output Amps		Output Amps		Output Amps				
Cont.	kW	Cont.	kW	Cont.	kW	Base Drive Cat. No.[2]	Quantity Required	Equivalent Frame Size[2]
330	315	265	250	215	200	20G14TF265JN0NNNNN	1	8
370	355	330	315	265	250	20G14TF330JN0NNNNN		
410	400	370	355	308	300	20G14TF370JN0NNNNN		
460	450	415	400	370	355	20G14TF415JN0NNNNN		
500	500	460	450	375	375	20G14TF460JN0NNNNN		
530	530	500	500	413	400	20G14TF500JN0NNNNN		
650	630	590	560	460	450	20G14TF265JN0NNNNN	2	9
710	710	650	630	500	500	20G14TF330JN0NNNNN		
790	800	710	710	590	560	20G14TF370JN0NNNNN		
860	850	765	750	650	630	20G14TF415JN0NNNNN		
960	900	795	800	750	710	20G14TF460JN0NNNNN		
1020	1000	960	900	795	800	20G14TF500JN0NNNNN		
1150	1100	1040	1000	865	900	20G14TF370JN0NNNNN	3	10
1485	1500	1400	1400	1160	1120	20G14TF500JN0NNNNN		

(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 63.

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-FBCL1-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.

NOTE: 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	
		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	

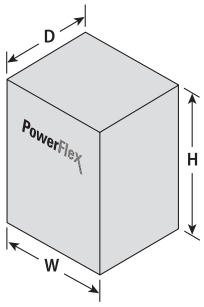
Approximate Dimensions and Weights (Frames 1…7)

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

Weights are approximate. Refer to 750-TD001, the PowerFlex 750-Series Technical Data, for detailed weight information.

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)

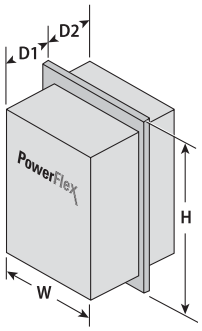


IP54, NEMA/UL Type 12

Frame	H	W	D	Weight
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)

Flange Mount

Frame	H	W	D1	D2	Weight
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8 (17.0)
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)



Approximate Dimensions and Weights (Frames 8…10)

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

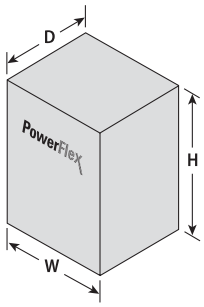
Weights are approximate. Refer to 750-TD001, the PowerFlex 750-Series Technical Data, for detailed weight information.

IP20, NEMA/UL Type 1, MCC Style Cabinet

Frame	H	W	D	Weight
8	2453 (96.6)	600 (23.6)	600 (23.6) or 800 (31.5)	623 (1374)
9		1200 (47.2)		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) 898 (35.4) with filter	644 (1419)
9		1200 (47.2)		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 755TM Drive System

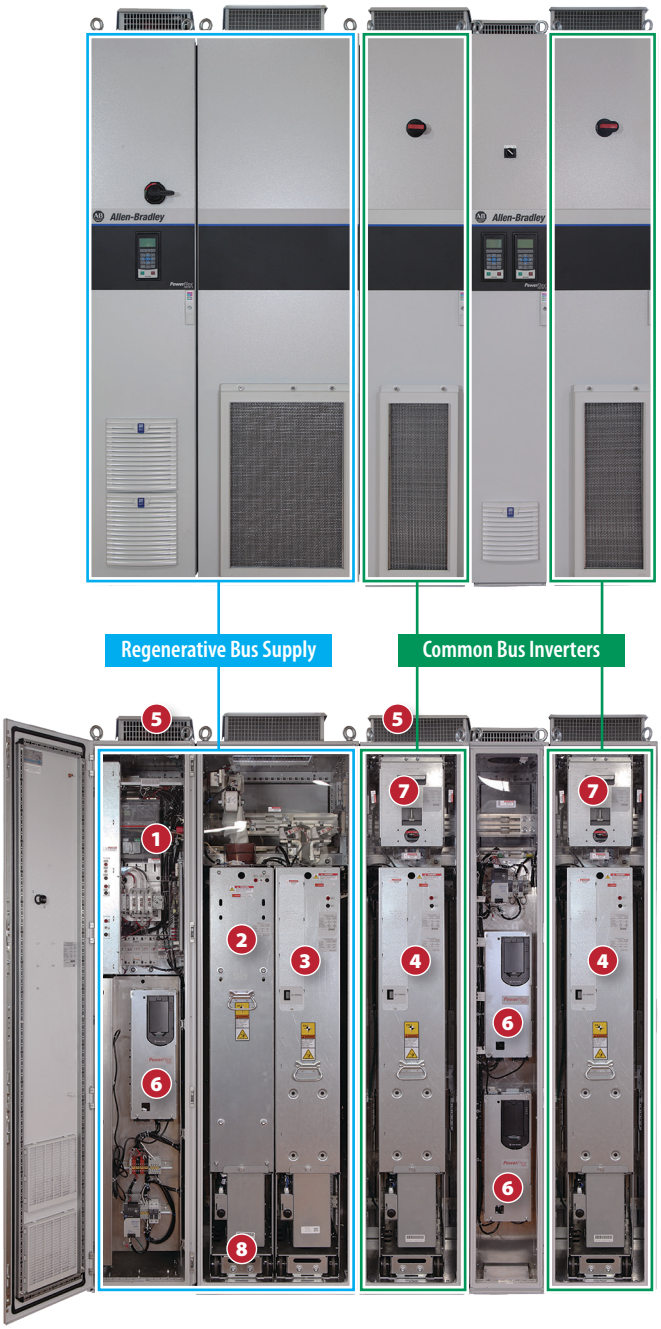
160…2300 kW/250…3000 Hp in voltages from 400…690V AC

The PowerFlex 755TM 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 755TM at a Glance

Input Ratings 400V AC 480V AC 600V AC 690V AC	 160…2000 kW / 250…3000 Hp 160…2000 kW / 250…3000 Hp 250…2500 Hp / 200…2300 kW 250…2500 Hp / 200…2300 kW
TotalFORCE Technology Motor Control	• Sensorless Vector Control • Field Oriented Control • Economizer • Flux Vector Control • V/Hz Control
Enclosures	• IP21, UL Type 1 • IP54, UL Type 12
Safety Options	• Hardwired Safe Torque Off SIL3, PLe, CAT 3 • Hardwired Safe Speed Monitor SIL3, PLe, CAT 4 • Networked Safe Torque Off SIL3, PLe, CAT 3
Additional Features	• Common bus drive system helps provide design flexibility, minimize floor space, and reduce installation costs • Provides harmonic mitigation, power factor correction, and regenerative capability • TotalFORCE technology with patented features helps optimize your system and maintain productivity • Built-in predictive diagnostics • Designed to enable coordination of multiple motors • High power density with compact footprint • Five option slots for I/O, feedback, safety, and communications
Certifications	• ABS • AC156 Seismic Standards • ATEX • CAN/CSA • CE Mark • DNV • EAC Mark • IEC60721-3-3 • ISA 71.04-1985 • KCC • Lloyd's Register • ODVA EtherNet/IP • RCM • SEMI F47 • UkrSepro Mark • UL61800-5-1 (cULus)
Options	See page 57



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

20	x	1	x	x	D	540	x	N	x	N	N	N	N	N	-Cx -Px
	A	Cooling Type	B	C	Voltage	Rating	D	Dynamic Braking	E	Various Options					Control and Power Options; see page 57

A

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

B

Input Type	
Code(1)	**Description**
D	Common bus with DC precharge
E	Common bus without DC precharge
F	Regenerative bus supply

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

C

Enclosure	
Code	**Description**
3	IP21, UL Type 1; floor mount
4	IP54, UL Type 12; floor mount

D

Filtering and CM Cap Configuration			
Code(1)	**EMC Filtering**	**CM Cap Default Configuration**	**Reflected Wave Filtering**
J	Yes	Jumper Installed	No
K	Yes	Jumper Installed	Yes
L	No	Jumper Installed	No
M	No	Jumper Installed	Yes

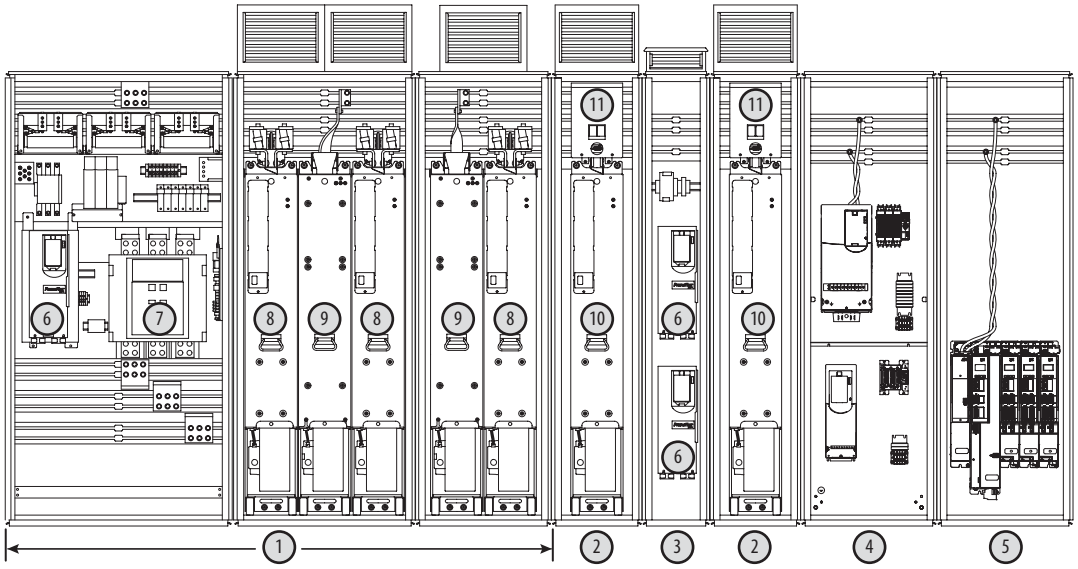
(1) Codes J and K are not configurable with 20G-type drives (input types D or E).
Codes K and M are not configurable with 20J-type drives (input type F).

E

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

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

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

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps DC	kW	Amps DC	kW	Amps DC	Base Cat. No.	Frame Size
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

Regenerative Common Bus Supply–480V AC Input

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps DC	kW	Amps DC	kW	Amps DC	Base Cat. No.	Frame Size
258	371	216	311	177	255	20J1xxD302xNxNNNNN-Cx-Px	8
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	
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	
687	987	573	823	529	761	20J1xxD800xNxNNNNN-Cx-Px	9
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	
1087	1563	977	1404	812	1167	20J1xxD1K3xNxNNNNN-Cx-Px	
1184	1702	1016	1460	977	1404	20J1xxD1K4xNxNNNNN-Cx-Px	10
1481	2129	1184	1702	1016	1460	20J1xxD1K6xNxNNNNN-Cx-Px	
1603	2304	1483	2131	1184	1702	20J1xxD2K0xNxNNNNN-Cx-Px	
2118	3044	1959	2816	1603	2304	20J1xxD2K6xNxNNNNN-Cx-Px	11
2632	3784	2436	3501	2132	3065	20J1xxD3K4xNxNNNNN-Cx-Px	12

Regenerative Common Bus Supply–600V AC Input

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps DC	kW	Amps DC	kW	Amps DC	Base Cat. No.	Frame Size
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	
617	710	518	596	487	560	20J1xxE595xNxNNNNN-Cx-Px	9
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	
1091	1255	935	1075	877	1008	20J1xxE1K1xNxNNNNN-Cx-Px	10
1279	1471	1091	1255	935	1075	20J1xxE1K2xNxNNNNN-Cx-Px	
1452	1670	1279	1471	1091	1255	20J1xxE1K5xNxNNNNN-Cx-Px	
1919	2207	1740	2001	1520	1748	20J1xxE2K0xNxNNNNN-Cx-Px	11
2386	2744	2164	2489	1851	2129	20J1xxE2K4xNxNNNNN-Cx-Px	12

Regenerative Common Bus Supply–690V AC Input

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps DC	kW	Amps DC	kW	Amps DC	Base Cat. No.	Frame Size
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	
580	580	580	580	518	518	20J1xxF565xNxNNNNN-Cx-Px	9
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	
1180	1180	1057	1057	944	944	20J1xxF1K0xNxNNNNN-Cx-Px	10
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

Common Bus Inverters–540V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps AC	kW	Amps AC	kW	Amps AC	Base Cat. No.	Frame Size
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	9
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

Common Bus Inverters–650V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
Hp	Amps AC	Hp	Amps AC	Hp	Amps AC	Base Cat. No.	Frame Size
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

Common Bus Inverters–810V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
Hp	Amps AC	Hp	Amps AC	Hp	Amps AC	Base Cat. No.	Frame Size
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

Common Bus Inverters–932V DC Nominal

IP21/IP54, UL Types 1/12

Light Duty		Normal Duty		Heavy Duty			
kW	Amps AC	kW	Amps AC	kW	Amps AC	Base Cat. No.	Frame Size
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	10
1250	1344	1100	1150	1000	1030	20G1xxF1K1xNxNNNNN-Cx-Px	
1500	1582	1400	1419	1100	1162	20G1xxF1K4xNxNNNNN-Cx-Px	
2000	2091	1800	1865	1500	1535	20G1xxF1K8xNxNNNNN-Cx-Px	11
2500	2599	2300	2318	2000	2020	20G1xxF2K3xNxNNNNN-Cx-Px	12

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	8...12	Option that enables increased torque performance capability and the ability to operate in a Field Oriented Control mode.
	C1(2)	Control transformer		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...12	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...12	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...10	Option that increases the allowable capacitance of the system DC bus to 4700 A.
	P50	DC Bus Conditioner	8...12	Eliminates peak voltage spikes on the system DC bus. Intended for systems that are not solidly grounded.

(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.

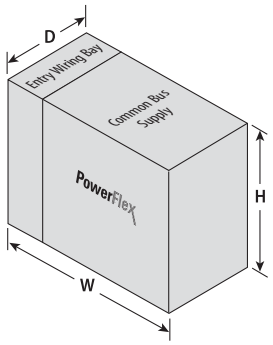
Approximate Dimensions and Weights (Frames 8…12)

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

PowerFlex 755TM Common Bus Supplies

Frame	Input Voltage (V AC)	Normal Duty Rating	Width		Depth		Height		Weight	
			Bus Supply	With Optional Entry Bay	IP21	IP54	IP21	IP54	With Filter	Without Filter
8	400	188…479 kW	1000 (39.4)	(1)	675 (26.6)	720 (28.3)	2132 (83.9)	2291 (90.2)	648.6 (1430)	589.7 (1300)
	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)	920.8 (2030)	861.8 (1900)
	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)	2295.2 (5060)	2177.2 (4800)
	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)	2567.3 (5660)	2449.4 (5400)
	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)	3216.0 (7090)	3039.1 (6700)
	480	1959…2436 kW								
	600	1740…2164 kW								
	690	1914…2379 kW								

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



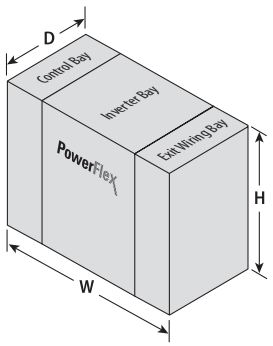
Approximate Dimensions and Weights (Frames 8…12), continued

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

PowerFlex 755TM Common Bus Inverters

Frame	Input Voltage (V AC)	Normal Duty Rating	Width			Depth		Height		Weight	
			Control Bay[1]	Inverter Bay	Exit Wiring Bay	IP21	IP54	IP21	IP54	DC Fuse	With DC Precharge
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)	250.0 (550)	286.0 (630)
	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)	499.0 (1100)	571.5 (1260)
	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)	748.4 (1650)	857.3 (1890)
	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)	997.9 (2200)	1143.1 (2520)
	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)	1247.4 (2750)	1428.8 (3150)
	480	2400…3000 Hp									
	600	2000…2500 Hp									
	690	1800…2300 kW									

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



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	✓	✓
Single-port Profinet I/O Option Module	20-750-PNET	✓	✓
Dual-port Profinet I/O Option Module	20-750-PNET2P	✓	✓
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 62 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.

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

Description	Cat. No.	Used with PowerFlex Common Bus Drive		
		753	755	755TM
Hardwired Safe Torque Off	20-750-S	✓	✓	✓
Hardwired Safe Speed Monitor	20-750-S1	✓[1]	✓[1]	✓[1]
Networked Safe Torque Off	20-750-S3	—	✓[2][3]	✓[2]

(1) Requires the Dual Incremental Encoder or Universal Feedback Option. Also requires the 20-750-EMCSSM1-F8 EMC Option Kit with Frame 8 . . . 9 drives.
(2) Requires Studio 5000 version 30 and higher.
(3) Requires PowerFlex 755 firmware version 13 and higher. This option is not allowed while controlling a PowerFlex drive in CIP Motion mode.

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	✓	✓
		7	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.

Description	Cat. No.
PowerFlex 750 Kit, Floor Bracket, 800 mm	20-750-MMNT1-F10M
PowerFlex 750 Kit, Floor Bracket, 600 mm	20-750-MMNT1-F9M
PowerFlex 750 Kit, Floor Bracket, 400 mm	20-750-MMNT1-F8M
PowerFlex 750 Kit, Anti-tip	20-750-MINV-ATIP
PowerFlex 750 Kit, Power Module Cart	20-750-MCART1
PowerFlex 750 Kit, DC Precharge Module Lift(1)	20-750-MCART2
PowerFlex 750 Kit, External Baying	20-750-MEXTBAY1
PowerFlex 750 Kit, Service Ramp	20-750-MRAMP1
PowerFlex 750 Kit, Empty Option Bay, 600 mm	20-750-MPBAY-600
PowerFlex 750 Kit, Empty Option Bay, 800 mm	20-750-MPBAY-800
PowerFlex 750 Kit, Torque Accuracy Module, 400/480V	20-750-MTAM1-CD
PowerFlex 750 Kit, Torque Accuracy Module, 600/690V	20-750-MTAM1-EF
PowerFlex 750 Kit, Ground Splice	20-750-GNDSPL
PowerFlex 750 Kit, Bus Hardware	20-750-HRDWR-BUS
PowerFlex 750 Kit, Right-to-left Power Flow, Backplate, Frame 8	20-750-MTEBKPL-F8M
PowerFlex 750 Kit, Left-to-right Wiring Bay Exit, Frame 8	20-750-MTESPL2-F8M
Powerflex 750 Kit, Frame 8 Input Bus, Insulator/Bracket, Customer Connection	20-750-CNCTAC-F8
Powerflex 750 Kit, Frame 9 Input Bus, Insulator/Bracket, Customer Connection	20-750-CNCTAC-F9
PowerFlex 750 Kit, Right-to-left Back Panel, Frame 8	20-750-MACR2-F8M
PowerFlex 750 Kit, Right-to-left Backplate, Frame 8	20-750-MADR2-F8M
PowerFlex 750 Kit, Ground Clamp, 185 A	SK-RM-GRNDCLMP-185
PowerFlex 750 Kit, Ground Clamp	SK-RM-GRNDCLMP-75
PowerFlex 750 Kit, Ground Clamp	SK-RM-GRNDCLMP-16
PowerFlex 750 Kit, Ground Clamp	SK-RM-GRNDCLMP-50
PowerFlex 750 Kit, DC Bus Conditioner (-P50 catalog option)	20-750-MDCBUS-COND

(1) Requires 20-750-MCART1.

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	✓
	187	250	1321-RWR320-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

			Input Line Reactor[1]		Output Reactor[1]		
kW	Hp	Duty	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	753/755
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			✓
		Heavy			1321-3R8-C	1321-3RA8-C	✓
2.2	3	Normal	1321-3R8-C	1321-3RA8-C			✓
		Heavy			1321-3R8-B	1321-3RA8-B	✓
4	5	Normal	1321-3R8-B	1321-3RA8-B			✓
		Heavy			1321-3R12-B	1321-3RA12-B	✓
5.5	7.5	Normal	1321-3R12-B	1321-3RA12-B			✓
		Heavy			1321-3R18-B	1321-3RA18-B	✓
7.5	10	Normal	1321-3R18-B	1321-3RA18-B			✓
		Heavy			1321-3R25-B	1321-3RA25-B	✓
11	15	Normal	1321-3R25-B	1321-3RA25-B			✓
		Heavy					✓
15	20	Normal	1321-3R35-B	1321-3RA35-B			✓
		Heavy			1321-3R35-B	1321-3RA35-B	✓
18.5	25	Normal					✓
		Heavy			1321-3R45-B	1321-3RA45-B	✓
22	30	Normal	1321-3R45-B	1321-3RA45-B			✓
		Heavy			1321-3R55-B	1321-3RA55-B	✓
30	40	Normal	1321-3R55-B	1321-3RA55-B			✓
		Heavy			1321-3R80-B	1321-3RA80-B	✓
37	50	Normal	1321-3R80-B	1321-3RA80-B			✓
		Heavy					✓
45	60	Normal/Heavy					✓
55	75		1321-3R100-B	1321-3RA100-B	1321-3R100-B	1321-3RA100-B	✓
75	100		1321-3R130-B	1321-3RA130-B	1321-3R130-B	1321-3RA130-B	✓
90	125		1321-3R160-B	1321-3RA160-B	1321-3R160-B	1321-3RA160-B	✓
110	150	Normal	1321-3R200-B	1321-3RA200-B	1321-3R200-C	1321-3RA200-C	✓
		Heavy					✓
—	200	Normal/Heavy	1321-3RB250-B	1321-3RAB250-B	1321-3RB250-B	1321-3RAB250-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)

			Input Line Reactor[1]		Output Reactor[1]		
kW	Hp	Duty[2]	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	753/755
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		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					✓
		Normal	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
—	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						✓
		Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓
—	700	Light/Normal/Heavy	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓
—	750	Heavy					✓
500	—	Normal/Heavy	1321-3R1000-B	1321-3RA1000-B	1321-3R1000-B	1321-3RA1000-B	✓
—	800	Light/Normal/Heavy					✓
560	—		1321-3R600-B	1321-3RA600-B	1321-3R600-B	1321-3RA600-B	✓[3]
630	900				1321-3R600-B	1321-3RA600-B	✓[3]
710	1000						✓[3]
800	1100	Light/Normal	1321-3R750-B	1321-3RA750-B	1321-3R750-B	1321-3RA750-B	✓[3]
850	—						✓[3]
900	—	Light	1321-3R850-B	1321-3RA850-B	1321-3R850-B	1321-3RA850-B	✓[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

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

(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						✓
—	300		1321-3RB400-C	1321-3RAB400-C	1321-3RB400-C	1321-3RAB400-C	✓
200	—						✓
—	350		1321-3R500-C	1321-3R500-C	1321-3R500-C	1321-3R500-C	✓
250	—			1321-3RA500-C	1321-3R500-C	1321-3RA500-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						✓
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					✓
		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					✓
—	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	—						✓[3]
—	900						✓[3]
710	—						✓[3]
—	1000						✓[3]
—	1100	Light/Normal	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓[3]
800	—						✓[3]
850	—						✓[3]
—	1250						✓[3]
900	—	Light	1321-3R850-C	1321-3RA850-C	1321-3R850-C	1321-3RA850-C	✓[3]
—	1350						✓[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 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)

			Input Line Reactor[1]		Output Reactor[1]		
kW	Hp	Duty	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	753/755
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				✓
—	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	—						✓
—	950	Light/Normal	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					✓[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 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)

			Input Line Reactor[1]		Output Reactor[1]		
kW	Hp	Duty	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	IP00 (Open Style)	IP11 (NEMA/UL Type 1)	753/755
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	1321-3R750-C	1321-3RA750-C	1321-3R750-C	1321-3RA750-C	✓
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: • Concurrent and independent control of flux and torque • High bandwidth motor control • High performance torque smoothness and accuracy • Supports multiple motor types

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