

Description		Frame(s)	Cat. No.
L Bus Bar Kit	Includes three L-brackets	8...10	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 power terminals.	6	20-750-ACTE1-F6
Power Terminal Guard	Provides additional ingress protection on power terminals.	6	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.	8...10	20-750-CART1-F8

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

PowerFlex 755 IP00, NEMA/UL Open Type Drive Options

Description	Required?	Frame 8		Frame 9		Frame 10	
		Cat. No.	Qty.	Cat. No.	Qty.	Cat. No.	Qty.
Field Termination, Converter, AC Input	Recommended	20-750-BUS2-F8	1	20-750-BUS2-F9	1	20-750-BUS2-F10	1
Field Termination, Inverter, AC Output	Recommended	20-750-BUS3-F8	1	20-750-BUS3-F9	1	20-750-BUS3-F10	1
Field Termination, Inverter, DC Bus	Recommended	20-750-BUS4-F8	1	20-750-BUS4-F9	1	20-750-BUS4-F10	1
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
Pod Bucket Assembly	Required	20-750-POD1-F8	1	20-750-POD1-F8	1	20-750-POD1-F8	1
Pod, Cable, 24 Volt Supply ⁽³⁾	Required	20-750-PH1-F8	⁽⁴⁾	20-750-PH2-F9	1	20-750-PH3-F10	1
Cable, Fiber Optic, 560 mm (22 in) ⁽³⁾	Required	20-750-FCBL1-F8	1	—	—	—	—
Cable, Fiber Optic, 2.8 m (110 in) ⁽³⁾	Required	—	—	20-750-FCBL1-F10	2	20-750-FCBL1-F10	3
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	Recommended	20-750-MNT3-F8	1	20-750-MNT3-F9	1	20-750-MNT3-F10	1
Duct, Top Outlet	Recommended	20-750-DUCT2-F8	1	20-750-DUCT2-F8	2	20-750-DUCT2-F8	3
Duct, Bottom Inlet	Recommended	20-750-DUCT4-F8	1	20-750-DUCT4-F8	2	20-750-DUCT4-F8	3
Roll-Out Cart	Recommended	20-750-CART1-F8	1	20-750-CART1-F8	1	20-750-CART1-F8	1
Control Power Circuit Breaker ⁽²⁾	Recommended	1489-A2D130	1	1489-A2D130	2	1489-A2D130	3
Control Power Circuit Breaker Lock ⁽²⁾	Recommended	1489-AAL0A	1	1489-AAL0A	2	1489-AAL0A	3
EMC Core, Converter Input, AC Input	Optional	20-750-EMCBUS1-F8	1	20-750-EMCBUS1-F9	1	20-750-EMCBUS1-F10	1
EMC Core, Inverter Output	Optional	20-750-EMCCM1-F8	1	20-750-EMCCM1-F8	2	20-750-EMCCM1-F8	3

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

(2) Common DC input drives only.

(3) 20-750-PH1-Fx and 20-750-FCBL1-Fx kits are used if the Control Pod is mounted in the drive. If the Control Pod is to be remote mounted (up to 23 m or 75 ft away), order a 20-750-RPD1-Fx kit instead.

(4) 24 volt supply cable is included with each Frame 8 drive unit.

Additional Resources

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

Title	Publication
PowerFlex 750-Series Drive Installation Instructions	750-IN001
PowerFlex 750-Series Programming Manual	750-PM001
Enhanced PowerFlex 7-Class Human Interface Module (HIM) User Manual	20HIM-UM001
PowerFlex 750-Series Safe Torque Off User Manual	750-UM002
Safe Speed Monitor Option Module for PowerFlex 750-Series AC Drives Reference Manual	750-RM001
PowerFlex 7-Class Network Communication Adapter User Manuals	750COM-UM
Dynamic Braking Resistor Calculator	PFLEX-AT001
Wiring and Grounding Guidelines for PWM AC Drives	DRIVES-IN001
Preventive Maintenance of Industrial Control and Drive System Equipment	DRIVES-TD001
Safety Guidelines for the Application, Installation and Maintenance of Solid State Control	SGL-1.1

You can view or download publications at <http://www.rockwellautomation.com/literature/>. To order paper copies of technical documentation, contact your local Allen-Bradley distributor or Rockwell Automation sales representative.

Product Overview

The PowerFlex 750-Series is a robust family of AC drives that provide ease of use, flexibility, and performance for a variety of industrial applications. The PowerFlex 753 provides general purpose control for applications ranging up to 350 Hp and 250 kW. The PowerFlex 755 provides maximum flexibility and performance ranging up to 2000 Hp and 1500 kW.

Maximize your productivity by taking advantage of the following key features offered in the PowerFlex 750-Series:

- **DeviceLogix™** – Embedded control technology that supports the manipulation of discrete outputs and drive control functions, while using discrete inputs and drive status information onboard the drive.
- **Predictive Diagnostics** – Allows the drive to keep track of information that affects the life of its cooling fans and relay outputs. The drive can also be programmed to monitor the run time hours for machine or motor bearings.
- **Option Cards** – Each drive has a slot-based architecture. Supported hardware control options are common for both products, to help reduce your inventory and spare parts requirements.
- **Safe Torque-Off and Safe Speed Monitor** – provides a choice for safety levels depending on your application requirements.
- **Communications** – The PowerFlex 755 comes with a built-in Ethernet port. Ethernet can easily be added to the PowerFlex 753 with a communication module.



- **I/O** – option cards are available for additional analog and discrete I/O. The PowerFlex 753 comes with built-in I/O that can also be easily expanded with option cards.
- **Packaging** – Factory and field installable enclosure options are available to meet most environmental requirements: Open Type and Flange Mount options to support Cabinet Mount requirements, Extra Protection Wall Mount for harsh environments, and supporting debris hoods and conduit plate kits.
- **Standard Power Structure** – a common power structure is shared to provide the same physical footprint and power range.

PowerFlex 750-Series Drive Family



Frame 1...7
IP00/IP20, NEMA/UL Type Open Drive

includes:

- DC link choke
- Internal brake transistor standard on Frames 1...5 and optional on Frames 6...7

Frames 8...10
IP20, NEMA/UL Type 1 Drive
(2500 MCC Style Cabinet)

includes:

- DC link choke
- Integrated AC line fuses
- Roll-out design

Frames 8...10
IP20, NEMA/UL Type 1 Drive with Options
(2500 MCC Style Cabinet)

includes:

- DC link choke
- Integrated AC line fuses
- Roll-out design
- Option bay for control/protection devices



Roll-out Cart

- Required for Frame 8 and larger drives
- Adjustable Curb Height: 0...182 mm (0...7.2 in.)
- Adjustment for Curb Offset/Reach: 0...114 mm (0...4.5 in.)