

PowerFlex 7-Class Options



Human Interface and Wireless Interface Modules

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
No HIM (Blank Plate), Handheld/Local (Drive Mount)	20-HIM-A0	✓	✓	✓	✓	✓	✓
LCD Display, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A3	✓	✓	✓	✓	✓	
LCD Display, Programmer Only, Handheld/Local (Drive Mount)	20-HIM-A5	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric, Handheld/Local (Drive Mount)	20-HIM-A6	✓	✓	✓	✓	✓	✓
Remote (Panel Mount) LCD Display, Full Numeric Keypad *⊛	20-HIM-C3S	✓	✓	✓	✓	✓	
Remote (Panel Mount) LCD Display, Programmer Only *⊛	20-HIM-C5S	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric *⊛	20-HIM-C6S	✓	✓	✓	✓	✓	✓
Wireless Interface Module, Handheld/Local (Drive Mount)	20-WIM-N1	✓	✓	✓	✓	✓	✓
Wireless Interface Module, Remote (Panel Mount) *⊛	20-WIM-N4S	✓	✓	✓	✓	✓	✓

* IP66, NEMA Type 4X/12 - For indoor use only.

⊛ Includes a 1202-C30 interface cable (3 meters) for connection to drive.

Human Interface Module Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Bezel Kit for LCD HIMs, NEMA Type 1 ⊛	20-HIM-B1	✓	✓	✓	✓	✓	✓
PowerFlex HIM Interface Cable, 1 m (39 in) §	20-HIM-H10	✓	✓	✓	✓	✓	✓
Comm Option Cable Kit (Male-Male)							
0.33 Meters (1.1 Feet)	1202-C03	✓	✓	✓	✓	✓	✓
1 Meter (3.3 Feet)	1202-C10	✓	✓	✓	✓	✓	✓
3 Meter (9.8 Feet)	1202-C30	✓	✓	✓	✓	✓	✓
9 Meter (29.5 Feet)	1202-C90	✓	✓	✓	✓	✓	✓
Cable Kit (Male-Female) ♣							
0.33 Meters (1.1 Feet)	1202-H03	✓	✓	✓	✓	✓	✓
1 Meter (3.3 Feet)	1202-H10	✓	✓	✓	✓	✓	✓
3 Meter (9.8 Feet)	1202-H30	✓	✓	✓	✓	✓	✓
9 Meter (29.5 Feet)	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	✓	✓	✓	✓	✓	✓

⊛ Includes a 1202-C30 interface cable (3 meters) for connection to drive.

§ Required only when HIM is used as handheld or remote.

♣ Required in addition to 20-HIM-H10 for distances up to a total maximum of 10 Meters (32.8 Feet).

Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
BACnet [®] MS/TP RS485 Communication Adapter	20-COMM-B	✓	✓	✓			
Coaxial ControlNet Option Module	20-750-CNETC						✓
ControlNet [™] Communication Adapter (Coax)	20-COMM-C	✓	✓	✓	✓	✓	✓ ‡
ControlNet [™] Communication Adapter (Coax) Conformal Coat	20-COMM-C-MX3	✓	✓	✓	✓	✓	✓ ‡
DeviceNet Option Module	20-750-DNET						✓
DeviceNet [™] Communication Adapter	20-COMM-D	✓	✓	✓	✓	✓	✓ ‡
DeviceNet [™] Communication Adapter Conformal Coat	20-COMM-D-MX3	✓	✓	✓	✓	✓	✓ ‡
EtherNet/IP [™] Communication Adapter	20-COMM-E	✓	✓	✓	✓	✓	✓ ‡
EtherNet/IP [™] Communication Adapter Conformal Coat	20-COMM-E-MX3	✓	✓	✓	✓	✓	✓ ‡
HVAC Communication Adapter	20-COMM-H	✓	✓	✓	✓ ⌘	✓	✓ ⌘ ‡
Interbus [™] Communication Adapter	20-COMM-I	✓	✓	✓	✓	✓	✓ ‡
CANopen [™] Communication Adapter	20-COMM-K	✓	✓	✓	✓	✓	✓ ‡
LonWorks [™] Communication Adapter	20-COMM-L	✓		✓			
Modbus/TCP Communication Adapter	20-COMM-M	✓	✓	✓	✓	✓	✓ ‡
PROFIBUS [™] DP Communication Adapter	20-COMM-P	✓		✓	✓	✓	✓ ‡
ControlNet [™] Communication Adapter (Fiber)	20-COMM-Q	✓	✓	✓	✓	✓	✓ ‡
Remote I/O Communication Adapter	20-COMM-R	✓	✓	✓	✓	✓	✓ ‡
Remote I/O Communication Adapter Conformal Coat	20-COMM-R-MX3	✓	✓	✓	✓	✓	✓ ‡
RS485 DF1 Communication Adapter	20-COMM-S	✓	✓	✓	✓	✓	✓ ‡
RS485 DF1 Communication Adapter Conformal Coat	20-COMM-S-MX3	✓	✓	✓	✓	✓	✓ ‡
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	✓	✓	✓	✓	✓
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	✓	✓	✓	✓	✓
External DPI I/O Option Board ➤	20-XCOMM-IO-OPT1	✓	✓	✓	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM1	✓	✓	✓	✓	✓	✓
DriveLogix ControlNet Communication Adapter (Coax) ⌘	1788-CNC				✓	✓ †	
DriveLogix Comm Option, ControlNet Redundant (Coax) ⌘	1788-CNCR				✓	✓ †	
DriveLogix Comm Option, ControlNet (Fiber) ⌘	1788-CNF				✓	✓ †	
DriveLogix Comm Option, ControlNet Redundant (Fiber) ⌘	1788-CNFR				✓	✓ †	
DriveLogix Comm Option, DeviceNet (Open Conn.) ⌘	1788-DNBO				✓	✓ †	
DriveLogix Comm Option, EtherNet/IP (Twisted Pair) ⌘	1788-ENBT				✓	✓ †	
DriveLogix5730 Comm Option, Embedded EtherNet/IP	20D-DL2-ENET0				✓	✓ †	

➤ For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

⌘ Only Modbus RTU can be used.

⌘ For use with DriveLogix option only. Requires Logix Expansion Board (20D-DL2-LEB0).

‡ Requires a Communication Carrier Card (20-750-20COMM). Refer to page 66 for compatibility details.

† When using a PowerFlex 700S control.

Communication Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
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 2 m USB, 20-HIM-H10 & 22-HIM-H10 Cables	1203-USB	✓	✓	✓	✓	✓	✓
ControlNet Ex Right-Angle T-Tap	1786-TPR				✓	✓	✓
Communication Carrier Card	20-750-20COMM						✓

PowerFlex 750-Series Legacy Communication Options

Most legacy communication adapters (20-COMM) can be used with the PowerFlex 755. However, the restrictions stated below do apply.

Adapter	Accesses Ports 1...6 for I/O	Accesses Port 7...14 Devices	Supports Drive Add On Profiles	Supports Asian-Languages >
20-COMM-B		Not Compatible		
20-COMM-C	✓⊛	✓ v3.001 §	✓ ♣	✓ v3.001 §
20-COMM-D		Not Compatible		
20-COMM-E		✓ v4.001 §	✓ ♣	✓ v4.001 §
20-COMM-H	✓‡	Not Compatible		
20-COMM-I	✓⊛	Not Compatible		
20-COMM-K		Not Compatible		
20-COMM-L	Not Compatible			
20-COMM-M	✓⊛	✓ v2.001 §	Not Compatible	✓ v2.001 §
20-COMM-P		Not Compatible		
20-COMM-Q		✓ v3.001 §	✓ ♣	✓ v3.001 §
20-COMM-R		Not Compatible		
20-COMM-S		Not Compatible		

⊛ Controller must be capable of reading/writing 32-bit floating point (REAL) values.

‡ Only works in the Modbus RTU mode.

§ Requires this adapter firmware version or higher.

♣ Requires firmware version v1.05 or higher of the drive Add On Profiles for RSLogix 5000 version v16 or higher.

> Chinese, Japanese, and Korean languages are supported at the time of publication.

Feedback Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
5V/12V Encoder ❖	20A-ENC-1	✓					
12V/5V Encoder	20B-ENC-1		✓ ♣				✓ ♣
12V/5V Encoder with Conformal Coat	20B-ENC-1-MX3		✓ ♣				
Multi-Device Interface >	20D-MDI-C2				✓	✓ †	
2nd Encoder, 5V/12V >	20D-P2-ENC0				✓	✓ †	
Resolver >	20D-RES-A1				✓	✓ †	
Stegmann High Resolution Hyperface Encoder >	20D-STEG-B1				✓	✓ †	
Heidenhain High Resolution EnDat Encoder	20D-HEID-D0				✓	✓ †	
Incremental Encoder	20-750-ENC-1						✓ ⊛
Dual Incremental Encoder	20-750-DENC-1						✓ ⊛
Universal Feedback (includes Stegmann, Heidenhain, SSI, Biss, Incremental)	20-750-UFB-1						✓ *

❖ Works only with PowerFlex 70 Enhanced Control.

> Requires Expanded Cassette

♣ When using a PowerFlex 700 with Vector Control.

* PowerFlex 755 only.

† When using a PowerFlex 700S control.

⊛ Homing and registration functions are not supported when using this device with Integrated Motion. To use these functions, the Universal Feedback Board (20-750-UFB-1) must be used.

I/O Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
24V DC Digital Inputs (6) w/Analog I/O (4), Slot A ☼	20C-DA1-A			✓			
115V AC Digital Inputs (6) w/Analog I/O (4), Slot A ☼	20C-DA1-B			✓			
115V AC Digital Outputs (3), Slot B ☼	20C-DO1			✓			
24V DC I/O with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262C-2R						✓
115V AC I/O with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262D-2R						✓
24V DC I/O with 2 Analog In, 2 Analog Out, 6 Digital In, 3 Digital Out, 1 Relay & 2 Transistor Outputs	20-750-2263C-1R2T						✓

☼ Only one card allowed per slot.

Safety Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
DriveGuard Safe Torque-Off	20A-DG01	✓					
DriveGuard Safe Torque-Off w/2nd Encoder	20D-P2-DG01				✓	✓ †	
DriveGuard Safe Torque-Off (ATEX capable) ☼	20C-DG1			✓			
Safe Torque-Off	20-750-S						✓
Safe Speed Monitor	20-750-S1						✓ ☼

☼ Only one card allowed per slot.

† When using PowerFlex 700S control.

☼ Requires the Dual Incremental Encoder option or Universal Feedback option.

PowerFlex 700 Control Option Kits

Control with I/O	Factory Installed Cat. Code ♣	Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
Vector Control - 24V DC with: †								
60 Hz Maximum	NNAD	20B-VECT-C0AD		✓				
82 Hz Maximum	NNAX	20B-VECTB-C0AX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-C0AE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECTB-C0BA		✓				
Vector Control - 24V DC, Conformal Coat †	-	20B-VECTB-C0-MX3		✓				
Vector Control - 115V AC †	D ❖	20B-VECTB-D0		✓				
Vector Control - 115V AC with: †								
60 Hz Maximum	NNAD	20B-VECT-D0AD		✓				
82 Hz Maximum	NNAX	20B-VECTB-D0AX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-D0AE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECT-D0BA		✓				
Vector Control - 115V AC, Conformal Coat †	-	20B-VECTB-D0-MX3		✓				

† Vector Control option utilizes DPI Only.

♣ This code is entered at the end of the drive catalog number (positions 17...20).

❖ This code is entered at position 15 of the drive catalog number.

PowerFlex 7-Class Options

PowerFlex 750-Series Option Kits

Description	Frame	Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
DC Bus Bar Option Kit	6	20-750-DCBB1-F6						✓
	7	20-750-DCBB1-F7						✓
	8	20-750-BUS1-F8						✓
EMC Option Kit	EMC Plate with Core	2	20-750-EMC1-F2					✓
		3	20-750-EMC1-F3					✓
	EMC Plate with Cores	4	20-750-EMC1-F4					✓
		5	20-750-EMC1-F5					✓
	EMC Core	2	20-750-EMC2-F2					✓
		3	20-750-EMC2-F3					✓
	EMC Cores	4...5	20-750-EMC2-F45					✓
		8	20-750-EMCCM1-F8					✓
Flange Adapter Kit	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 1 integrity backside ‡	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					✓
		8	20-750-FLNG4-F8					✓
NEMA/UL Type 1 Option Kit	NEMA/UL Type 1 Kit	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					✓
Remote Control POD Mounting Kit §	Mounting hardware with 25 m (75 ft) fiber optic and 24V control cables for mounting the control POD in a cabinet that is separate from the drive.	8	20-750-RPD1-F8					✓
Roll-out Cart §	Provides a means to move the power core and allow access to the power terminals	8	20-750-CART1-F8					✓

‡ This kit is for use with IP20, NEMA/UL Type 0 drives and **will not provide** an air-tight or water-tight seal. Where sealing is required (e.g. contaminated, dirty or wet environments), a drive with an "F" enclosure option must be used.

§ Required for Frame 8 drives without Option Bay to assist with power wiring.

Other Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
115V AC Interface	AK-M9-115VAC-1	✓					
Frame E Flange Gasket	AK-M9-GASKET1-E4	✓					
Service Connection Board *	SK-M9-SCB1	✓					
Removable I/O Terminal Block	SK-G9-TB1-S1		✓				
Removable Encoder Terminal Block	SK-G9-TB1-ENC1		✓				
Touch Cover - Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. No wiring space provided.	20-OPT-TC			✓			
Top Hat- Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. Allows for wiring space.	20-OPT-TH			✓			
Auxiliary Control Power Supply	20-24V-AUX1				✓		
24V Aux Power Supply	20-750-APS						✓
PowerFlex 700S Phase II Control with Expanded Cassette	20D-P2-CKE1				✓	✓ †	
PowerFlex 700S Phase II Control with Slim Cassette	20D-P2-CKS1				✓		
PowerFlex 700S DriveLogix5730 Phase II Control with Expanded Cassette	20D-DL2-CKE1				✓	✓ †	
PowerFlex 700S DriveLogix5730 Phase II Control with Slim Cassette	20D-DL2-CKS1				✓		

* Provides temporary DPI/HIM connection for NEMA/UL Type 1 and Flange drives with cover removed.

† When using PowerFlex 700S control and Expanded Cassette.

SynchLink Accessories

Description *	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
SynchLink Board	20D-P2-SLB0				✓	✓ +	
SynchLink Fiber Base Block	1751-SLBA				✓	✓ +	
SynchLink 4-port Fiber Splitter Block	1751-SL4SP				✓	✓ +	
SynchLink Fiber Bypass Switch Block	1751-SLBP				✓	✓ +	
2x1 Meter Fiber Link for Power Monitor/SynchLink	1403-CF001				✓	✓ +	
2x3 Meter Fiber Link for Power Monitor/SynchLink	1403-CF003				✓	✓ +	
2x5 Meter Fiber Link for Power Monitor/SynchLink	1403-CF005				✓	✓ +	
10 Meter Fiber Link for Power Monitor/SynchLink	1403-CF010				✓	✓ +	
20 Meter Fiber Link for Power Monitor/SynchLink	1403-CF020				✓	✓ +	
50 Meter Fiber Link for Power Monitor/SynchLink	1403-CF050				✓	✓ +	
100 Meter Fiber Link for Power Monitor/SynchLink	1403-CF100				✓	✓ +	
250 Meter Fiber Link for Power Monitor/SynchLink	1403-CF250				✓	✓ +	

* Refer to publication number [1769-SG001](#) for details on SynchLink.

+ When using PowerFlex 700S control.

DriveLogix Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Logix Expansion board for DriveLogix5730 ➤	20D-DL2-LEB0				✓	✓ +	
Industrial Compact Flash 64 MB Memory Card for DriveLogix5730	1784-CF64				✓	✓ +	

➤ Requires Expanded Cassette.

+ When using PowerFlex 700S control.

DriveLogix I/O Cables

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
DriveLogix5730 - Compact I/O cable, 3.28 ft. (1 meter), Left Bus Cap ➤ §	20D-DL2-CL3				✓	✓ +	
DriveLogix5730 - Compact I/O cable, 3.28 ft. (1 meter), Right Bus Cap ➤ §	20D-DL2-CR3				✓	✓ +	
Logix5000 RS-232 Programming Cable	1756-CP3				✓	✓ +	

➤ Requires Expanded Cassette.

§ Refer to Publication [1769-SG001](#) for details and selection of Compact I/O.

+ When using PowerFlex 700S control.