

PowerFlex 520-Series Options

Human Interface Modules and Accessories



Description	Cat. No.
Remote (Panel Mount) LCD Display, Digital Speed Control, CopyCat Capable. Includes 2.0 meter cable. IP66, NEMA Type 4X/12 - Indoor Use Only.	22-HIM-C2S ♣
Remote Handheld, LCD Display, Full Numeric Keypad, Digital Speed Control, CopyCat Capable. Includes 1.0 meter cable. IP30, NEMA Type 1. Panel mount with optional Bezel Kit.	22-HIM-A3
Bezel Kit. Panel Mount for LCD Display, Remote Handheld Unit. IP30, NEMA Type 1. Includes a 22-RJ45CBL-C20 cable.	22-HIM-B1
DSI HIM Cable (DSI HIM to RJ45 cable)	
1.0 Meter (3.3 Feet)	22-HIM-H10
2.9 Meter (9.51 Feet)	22-HIM-H30

♣ The 22-HIM-C2S is smaller than the 22-HIM-C2 and cannot be used as a direct replacement.

Communication Option Kits

Description	Cat. No.
DeviceNet™ Communication Adapter	25-COMM-D
EtherNet/IP™ Communication Adapter - Dual Port	25-COMM-E2P
PROFIBUS™ DP Communication Adapter	25-COMM-P
Serial Converter Module (RS485 to RS232). Provides serial communication via DF1 protocol for use with DriveExplorer and DriveExecutive™ software. Includes DSI to RS232 serial converter, 1203-SFC serial cable, 22-RJ45CBL-C20 cable, and DriveExplorer Lite CD.	22-SCM-232
Serial Cable. 2.0 meter with a locking low profile connector. Connects the serial converter to a 9-pin sub-miniature D female computer connector.	1203-SFC
Serial Null Modem Adapter. Use when connecting the serial converter to DriveExplorer on a handheld PC.	1203-SNM
Universal Serial Bus™ (USB) Converter includes 2m USB, 20-HIM-H10 & 22-HIM-H10 Cables.	1203-USB
DSI Cable. 2.0 meter RJ45 to RJ45 cable, male to male connectors.	22-RJ45CBL-C20
Splitter Cable. RJ45 one to two port splitter cable.	AK-U0-RJ45-SC1
Terminal Block. RJ45 two position terminal block (6 pieces) with two 120 Ohm terminating resistors (loose).	AK-U0-RJ45-TB2P
Terminating Resistors. 120 Ohm resistor embedded in an RJ45 connector (2 pieces).	AK-U0-RJ45-TR1
DSI External Communications Kit. External mounting kit for 22-COMM Communication Adapters.	22-XCOMM-DC-BASE
External Communications Kit Power Supply Optional 100...240V AC Power Supply for External DSI Communications Kit.	20-XCOMM-AC-PS1
Compact I/O Module (3 Channel)	1769-SM2

IP30, NEMA/UL Type 1 Conversion Kit

Description	Frame	Cat. No.
Converts IP20 drive to IP30, NEMA/UL Type 1 enclosure.	A	25-JBAA
	B	25-JBAB
	C	25-JBAC
	D	25-JBAD
	E	25-JBAE

Other Options

Description	Frame	Cat. No.
EMC Grounding Plate	A	25-EMC1-FA
	B	25-EMC1-FB
	C	25-EMC1-FC
	D	25-EMC1-FD
	E	25-EMC1-FE
Mounting Adapter Plate, Bulletin 160 AC Drive to PowerFlex 525	A	25-MAP-FA
	B	25-MAP-FB
Incremental Encoder for PowerFlex 525	All	25-ENC-1
Control Module Fan Kit for 70 °C operation and/or horizontal drive mounting.	A...D	25-FAN1-70C
	E	25-FAN2-70C

EMC Filters (Required to Meet CE Certification)

Drive Ratings				Cat. No.
Input Voltage	kW	Hp	Frame	
100...120V, Single-Phase, 50/60 Hz	0.2	0.25	A	25-RF011-AL
	0.4	0.5	A	
	0.75	1	B	25-RF023-BL
	1	1.5	B	
200...240V, Single-Phase, 50/60 Hz	0.2	0.25	A	25-RF011-AL
	0.4	0.5	A	
	0.75	1	B	
	1.5	2	B	25-RF023-BL
	2.2	3	B	
200...240V, Three-Phase, 50/60 Hz	0.2	0.25	A	25-RF014-AL
	0.4	0.5	A	
	0.75	1	A	
	1.5	2	A	
	2.2	3	A	
	3.7	5	B	
	5.5	7.5	C	25-RF027-CL
	7.5	10	D	25-RF035-DL
	11	15	E	25-RF056-EL
	15	20	E	
380...480V, Three-Phase, 50/60 Hz	0.4	0.5	A	25-RF7P5-AL
	0.75	1	A	
	1.5	2	A	
	2.2	3	A	
	3.7	5	B	
	5.5	7.5	C	25-RF018-CL
	7.5	10	C	
	11	15	D	25-RF033-DL
	15	20	D	
	18.5	25	E	25-RF039-EL
	22	30	E	
525...600V, Three-Phase, 50/60 Hz	0.4	0.5	A	25-RF8P0-BL
	0.75	1	A	
	1.5	2	A	
	2.2	3	A	
	3.7	5	B	
	5.5	7.5	C	
	7.5	10	C	
	11	15	D	25-RF027-DL
	15	20	D	
	18.5	25	E	25-RF029-EL
22	30	E		

Control Module

Description	Frame	Cat. No.
PowerFlex 523 Control Module (includes control module front cover)	All	25A-CTM1
PowerFlex 525 Control Module (includes control module front cover)	All	25B-CTM1

Power Modules §

Ratings					No Filter	with Integral EMC Filter
Input Voltage	Normal Duty		Heavy Duty		Cat No.	Cat No.
	kW	Hp	kW	Hp		
100...120V AC, Single-Phase, 50/60 Hz	0.2	0.25	0.2	0.25	25-PM1-V1P6	—
	0.4	0.5	0.4	0.5	25-PM1-V2P5	—
	0.75	1	0.75	1	25-PM1-V4P8	—
	1.5	2	1.5	2	25-PM1-V6P0	—
200...240V AC, Single-Phase, 50/60 Hz	0.2	0.25	0.2	0.25	25-PM1-A1P6	25-PM2-A1P6
	0.4	0.5	0.4	0.5	25-PM1-A2P5	25-PM2-A2P5
	0.75	1	0.75	1	25-PM1-A4P8	25-PM2-A4P8
	1.5	2	1.5	2	25-PM1-A8P0	25-PM2-A8P0
	2.2	3	2.2	3	25-PM1-A011	25-PM2-A011
200...240V AC, Three-Phase, 50/60 Hz	0.2	0.25	0.2	0.25	25-PM1-B1P6	—
	0.4	0.5	0.4	0.5	25-PM1-B2P5	—
	0.75	1	0.75	1	25-PM1-B5P0	—
	1.5	2	1.5	2	25-PM1-B8P0	—
	2.2	3	2.2	3	25-PM1-B011	—
	4	5	4	5	25-PM1-B017	—
	5.5	7.5	5.5	7.5	25-PM1-B024	—
	7.5	10	7.5	10	25-PM1-B032	—
	11	15	11	15	25-PM1-B048	—
	15	20	11	15	25-PM1-B062	—
380...480V AC, Three-Phase, 50/60 Hz	0.4	0.5	0.4	0.5	25-PM1-D1P4	25-PM2-D1P4
	0.75	1	0.75	1	25-PM1-D2P3	25-PM2-D2P3
	1.5	2	1.5	2	25-PM1-D4P0	25-PM2-D4P0
	2.2	3	2.2	3	25-PM1-D6P0	25-PM2-D6P0
	4	5	4	5	25-PM1-D010	25-PM2-D010
	5.5	7.5	5.5	7.5	25-PM1-D013	25-PM2-D013
	7.5	10	7.5	10	25-PM1-D017	25-PM2-D017
	11	15	11	15	25-PM1-D024	25-PM2-D024
	15	20	11	15	25-PM1-D030	25-PM2-D030
	18.5	25	15	20	—	25-PM2-D037
	22	30	18.5	25	—	25-PM2-D043
	525...600V AC, Three-Phase, 50/60 Hz	0.4	0.5	0.4	0.5	25-PM1-E0P9
0.75		1	0.75	1	25-PM1-E1P7	—
1.5		2	1.5	2	25-PM1-E3P0	—
2.2		3	2.2	3	25-PM1-E4P2	—
4		5	4	5	25-PM1-E6P6	—
5.5		7.5	5.5	7.5	25-PM1-E9P9	—
7.5		10	7.5	10	25-PM1-E012	—
11		15	11	15	25-PM1-E019	—
15		20	11	15	25-PM1-E022	—
18.5		25	15	20	25-PM1-E027	—
22		30	18.5	25	25-PM1-E032	—

§ Includes power module front cover (Frames B...E only).

Accessories

Description	Frame	Cat. No.
Power Module Front Cover	B	25-PMFC-FB
	C	25-PMFC-FC
	D	25-PMFC-FD
	E	25-PMFC-FE
PowerFlex 523 Control Module Front Cover	All	25A-CTMFC1
PowerFlex 525 Control Module Front Cover	All	25B-CTMFC1
Heatsink Fan Replacement Kit	A	25-FAN1-FA
	B	25-FAN1-FB
	C	25-FAN1-FC
	D	25-FAN1-FD
	E	25-FAN1-FE
Power Terminal Guard	A	25-PTG1-FA
	B	25-PTG1-FB
	C	25-PTG1-FC
	D	25-PTG1-FD
	E	25-PTG1-FE

Terminators

Description ★	Cat. No.
for use with 3.7 kW (5 Hp) & below drives	1204-TFA1
for use with 1.5 kW (2 Hp) & up drives	1204-TFB2

★ Refer to Appendix A of publication **Drives-IN001** for selection information.

Reflected Wave Reduction Modules

Voltage	kW	Hp	Cat. No.
380... 480V AC	2.2...4	3...5	1321-RWR8-DP
	4	5	1321-RWR12-DP
	5.5	7.5	1321-RWR18-DP
	7.5	10	1321-RWR25-DP
	11	15	1321-RWR25-DP
	15	20	1321-RWR35-DP
	18.5	25	1321-RWR45-DP
	22	30	1321-RWR55-DP
500... 600V AC	4	5	1321-RWR8-EP
	5.5	7.5	1321-RWR12-EP
	7.5	10	1321-RWR18-EP
	11	15	1321-RWR25-EP

Reflected Wave Reduction Modules w/Common Mode Choke

Description ★	Cat. No.
17A with Common Mode Choke	1204-RWC-17-A

★ Refer to Appendix A of publication **Drives-IN001** for selection information.

Dynamic Brake Resistors

Drive Rating			Minimum Resistance	Resistance	Cat. No. ‡ §
Voltage	kW	Hp	Ohms, ±10%	Ohms, ±5%	
100...120V, 50/60 Hz, Single-Phase	0.4	0.5	60	91	AK-R2-091P500
	0.75	1	60	91	AK-R2-091P500
	1.1	1.5	48	91	AK-R2-091P500
200...240V, 50/60 Hz, Single-Phase	0.4	0.5	60	91	AK-R2-091P500
	0.75	1	60	91	AK-R2-091P500
	1.5	2	48	91	AK-R2-091P500
	2.2	3	32	47	AK-R2-047P500
200...240V, 50/60 Hz, Three-Phase	0.4	0.5	60	91	AK-R2-091P500
	0.75	1	60	91	AK-R2-091P500
	1.5	2	60	91	AK-R2-091P500
	2.2	3	32	47	AK-R2-047P500
	3.7	5	19	47	AK-R2-047P500
	5.5	7.5	19	30	AK-R2-030P1K2
	7.5	10	15	30	AK-R2-030P1K2
	11	15	15	15	AK-R2-030P1K2 ♣
	15	20	11	15	AK-R2-030P1K2 ♣
380...480V, 50/60 Hz, Three-Phase	0.4	0.5	97	360	AK-R2-360P500
	0.75	1	97	360	AK-R2-360P500
	1.5	2	97	360	AK-R2-360P500
	2.2	3	97	120	AK-R2-120P1K2
	4.0	5	77	120	AK-R2-120P1K2
	5.5	7.5	55	120	AK-R2-120P1K2
	7.5	10	55	120	AK-R2-120P1K2
	11	15	50	60	AK-R2-120P1K2 ♣
	15	20	50	60	AK-R2-120P1K2 ♣
	18.5	25	30	40	AK-R2-120P1K2 Δ
	22	30	30	40	AK-R2-120P1K2 Δ
500...600V, 50/60 Hz, Three-Phase	0.4	0.5	120	360	AK-R2-360P500
	0.75	1	120	360	AK-R2-360P500
	1.5	2	120	360	AK-R2-360P500
	2.2	3	120	120	AK-R2-120P1K2
	3.7	5	82	120	AK-R2-120P1K2
	5.5	7.5	65	120	AK-R2-120P1K2
	7.5	10	65	120	AK-R2-120P1K2
	11	15	65	60	AK-R2-120P1K2 ♣
	15	20	65	60	AK-R2-120P1K2 ♣
	18.5	25	60	60	AK-R2-120P1K2 ♣
	22	30	38	40	AK-R2-120P1K2 Δ

‡ Resistors listed are rated 5% duty cycle.

§ Use of Rockwell Automation resistors is recommended. The resistors listed have been carefully selected for optimizing performance in a variety of applications. Alternative resistors may be used, however, care must be taken when making a selection. Refer to the PowerFlex Dynamic Braking Resistor Calculator, publication PFLEX-AT001.

♣ Requires two resistors wired in parallel.

Δ Requires three resistors wired in parallel.

Line Reactors - 3% Impedance

Drive Ratings				IP00 ★ (NEMA/UL Open Type)	IP11 ★ (NEMA/UL Type 1)
Voltage	kW	Hp	Amps	Cat. No.	Cat. No.
200...240V, 60 Hz, Three-Phase	0.4	0.5	4.0	1321-3R4-B	1321-3RA4-B
	0.75	1	8.0	1321-3R8-B	1321-3RA8-B
	1.5	2	8.0	1321-3R8-A	1321-3RA8-A
	2.2	3	12	1321-3R12-A	1321-3RA12-A
	3.7	5	17.5	1321-3R18-A	1321-3RA18-A
	5.5	7.5	24	1321-3R25-A	1321-3RA25-A
	7.5	10	33	1321-3R35-A	1321-3RA35-A
	11	15	49	1321-3R45-A	1321-3RA45-A
	15	20	65	1321-3R55-A	1321-3RA55-A
380...480V, 60 Hz, Three-Phase	0.4	0.5	2.0	1321-3R2-B	1321-3RA2-B
	0.75	1	4.0	1321-3R4-C	1321-3RA4-C
	1.5	2	4.0	1321-3R4-B	1321-3RA4-B
	2.2	3	6.0	1321-3R8-C	1321-3RA8-C
	4.0	5	10.5	1321-3R8-B	1321-3RA8-B
	5.5	7.5	12	1321-3R12-B	1321-3RA12-B
	7.5	10	17	1321-3R18-B	1321-3RA18-B
	11	15	22	1321-3R25-B	1321-3RA25-B
	15	20	30	1321-3R35-B	1321-3RA35-B
	18.5	25	38	1321-3R35-B	1321-3RA35-B
	22	30	45.5	1321-3R45-B	1321-3RA45-B
500...600V, 60 Hz, Three-Phase	0.75	1	2.0	1321-3R2-B	1321-3RA2-B
	1.5	2	4.0	1321-3R4-C	1321-3RA4-C
	2.2	3	4.0	1321-3R4-B	1321-3RA4-B
	4.0	5	8.0	1321-3R8-C	1321-3RA8-C
	5.5	7.5	12	1321-3R12-B	1321-3RA12-B
	7.5	10	12	1321-3R12-B	1321-3RA12-B
	11	15	18	1321-3R18-B	1321-3RA18-B
	15	20	25	1321-3R25-B	1321-3RA25-B
	18.5	25	35	1321-3R35-C	1321-3RA35-C
	22	30	35	1321-3R35-B	1321-3RA35-B

★ Catalog numbers listed are for 3% impedance. 5% impedance reactor types are also available. Refer to publication 1321-TD001.