




AC Drives PowerFlex 525

- Power ratings of 0.4...22 kW / 0.5...30 Hp in global voltage classes from 100...600V to meet a wide range of applications
- Standard built-in single port for EtherNet/IP and Safe Torque-off
- AppView application parameter groups and CustomView configuration help speed machine commissioning

Allen-Bradley PowerFlex 525 AC drives are designed to support fast and easy installation and configuration and provide a variety of motor control and flexible mounting options. Available with standard built in EtherNet/IP communications and safe torque-off.



An embedded port for EtherNet/IP supports seamless integration into the Logix environment and EtherNet/IP networks

- 7 digital inputs (24V DC, 6 programmable)
- 2 analog inputs (1 bipolar voltage, 1 current)
- 2 digital outputs
- 1 analog output (1 unipolar voltage or current)
- 2 relays (1 form A relay & 1 form B relay; 24V DC, 120V AC, 240V AC)

Modular design features a removable control module that allows simultaneous wiring installation and software configuration to help increase productivity

*Volts per hertz, sensorless vector control, closed loop velocity vector control and permanent magnet motor control to meet a wide range of applications **

A built in DSI port supports multi-drive networking, connecting up to five PowerFlex AC drives on one node

Embedded Safe Torque-Off can help to protect personnel

* Permanent magnet motor control is scheduled for a future firmware release

Product Selection

Single-Phase

Drive Ratings, Normal & Heavy Duty		100...120V AC, 50/60 Hz			200...240V AC, 50/60 Hz			
kW	Hp	Output Current [A]	Frame Size	Cat. No.	Output Current [A]	Frame Size	Cat. No.	Cat. No. with EMC Filter
0.4	0.5	2.5	A	25B-V2P5N104	2.5	A	25B-A2P5N104	25B-A2P5N114
0.75	1	4.8	B	25B-V4P8N104	4.8	A	25B-A4P8N104	25B-A4P8N114
1.1	1.5	6	B	25B-V6P0N104	–	–	–	–
1.5	2	–	–	–	8	B	25B-A8P0N104	25B-A8P0N114
2.2	3	–	–	–	11	B	25B-A011N104	25B-A011N114

Three-Phase

Drive Ratings Normal Duty		Drive Ratings Heavy Duty		200...240V AC, 50/60 Hz				380...480V AC, 50/60 Hz				525...600V AC, 50/60 Hz			
kW	Hp	kW	Hp	Output Current [A]	Frame Size	Cat. No.	Output Current [A]	Frame Size	Cat. No.	Cat. No. with EMC Filter	Output Current [A]	Frame Size	Cat. No.		
0.4	0.5	0.4	0.5	2.5	A	25B-B2P5N104	1.4	A	25B-D1P4N104	25B-D1P4N114	0.9	A	25B-E0P9N104		
0.75	1	0.75	1	4.8	A	25B-B5P0N104	2.3	A	25B-D2P3N104	25B-D2P3N114	1.7	A	25B-E1P7N104		
1.5	2	1.5	2	8	A	25B-B8P0N104	4	A	25B-D4P0N104	25B-D4P0N114	3	A	25B-E3P0N104		
2.2	3	2.2	3	11	A	25B-B011N104	6	A	25B-D6P0N104	25B-D6P0N114	4.2	A	25B-E4P2N104		
4	5	4	5	17.5	B	25B-B017N104	10.5	B	25B-D010N104	25B-D010N114	6.6	B	25B-E6P6N104		
5.5	7.5	5.5	7.5	24	C	25B-B024N104	13	C	25B-D013N104	25B-D013N114	9.9	C	25B-E9P9N104		
7.5	10	7.5	10	32.3	D	25B-B032N104	17	C	25B-D017N104	25B-D017N114	12	C	25B-E012N104		
11	15	11	15	48.3	E	25B-B048N104	24	D	25B-D024N104	25B-D024N114	19	D	25B-E019N104		
15	20	11	15	62.1	E	25B-B062N104	30	D	25B-D030N104	25B-D030N114	22	D	25B-E022N104		
18.5	25	15	20	–	–	–	37	E	–	25B-D037N114	27	E	25B-E027N104		
22	30	18.5	25	–	–	–	43	E	–	25B-D043N114	32	E	25B-E032N104		

Specifications

Power Ratings	100...120V: 0.2...1.1 kW / 0.25...1.5 Hp 380...480V: 0.4...22 kW / 0.5...30 Hp	200...240V: 0.2...15 kW / 0.25...20 Hp 525...600V: 0.4...22 kW / 0.5...30 Hp	
Motor Control	Volts per hertz	Sensorless vector control	Sensorless vector control with Economizer
Application	Open loop speed regulation		
Control I/O	5 digital inputs (24V DC, 4 programmable)	1 relay (form c)	1 analog input (unipolar voltage or current)
Communications	Integral RS485 with Modbus RTU/DSI PROFIBUS® DP option card	DeviceNet option card	Dual port EtherNet/IP option card
Control Features	Flying start, Fiber application specific features, 8 datalinks (4 in and 4 out), V/F ratio, Common DC bus, Position control, Bus regulator, 1/2 DC bus operation, StepLogic Function (Relay & Timers), Process PID, Regulation with encoder feedback or analog input, 16 preset speeds, PTC input compatible, Multi-drive connectivity (requires communication option card)		