




## AC Drives PowerFlex 523

- Power ratings of 0.2...22 kW / 0.25...30 Hp in global voltage classes from 100...600V to meet a wide range of applications
- Modular design features a removable control module that allows simultaneous wiring installation and software configuration to help increase productivity
- AppView® application parameter groups and CustomView™ configuration help speed machine commissioning
- Volts per hertz and sensorless vector control provide flexible motor control options

Allen-Bradley PowerFlex 523 AC drives are designed to help reduce installation and configuration time while offering the control you need for your application. These drives offer convenient programming features and installation flexibility in a cost-effective solution.



*Supports a wide range of communication option cards, including dual port EtherNet/IP™ and DeviceNet*

*An integral RS485/DSI port supports low-cost multi-drive networking*

*A compact footprint requires a 50 mm (1.96 in.) mounting clearance for air flow at the top and bottom of the drive, helping save space inside a panel*

*An integral LCD human interface module (HIM) eases configuration with multi-language support and QuickView™ scrolling text to help explain parameters and codes*

*Drives operate in ambient temperatures from -20... +50 °C (-4... +122 °F). With current derating and a control module fan kit, up to 70 °C (158 °F)*

*5 digital inputs (24V DC, 4 programmable)  
1 analog input (unipolar voltage or current)  
1 relay (form C)*

Explore the PowerFlex 523 AC drive in our virtual brochure: [www.ab.com/go/powerflex520series](http://www.ab.com/go/powerflex520series)

## 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
0.2	0.25	1.6	A	25A-V1P6N104	1.6	A	25A-A1P6N104	25A-A1P6N114
0.4	0.5	2.5	A	25A-V2P5N104	2.5	A	25A-A2P5N104	25A-A2P5N114
0.75	1	4.8	B	25A-V4P8N104	4.8	A	25A-A4P8N104	25A-A4P8N114
1.1	1.5	6	B	25A-V6P0N104	–	–	–	–
1.5	2	–	–	–	8	B	25A-A8P0N104	25A-A8P0N114
2.2	3	–	–	–	11	B	25A-A011N104	25A-A011N114

### Three-Phase

Drive Ratings				200...240V AC, 50/60 Hz			380...480V AC, 50/60 Hz				525...600V AC, 50/60 Hz		
Normal Duty		Heavy Duty		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.
0.2	0.25	0.2	0.25	1.6	A	25A-B1P6N104	–	–	–	–	–	–	–
0.4	0.5	0.4	0.5	2.5	A	25A-B2P5N104	1.4	A	25A-D1P4N104	25A-D1P4N114	0.9	A	25A-E0P9N104
0.75	1	0.75	1	4.8	A	25A-B5P0N104	2.3	A	25A-D2P3N104	25A-D2P3N114	1.7	A	25A-E1P7N104
1.5	2	1.5	2	8	A	25A-B8P0N104	4	A	25A-D4P0N104	25A-D4P0N114	3	A	25A-E3P0N104
2.2	3	2.2	3	11	A	25A-B011N104	6	A	25A-D6P0N104	25A-D6P0N114	4.2	A	25A-E4P2N104
4	5	4	5	17.5	B	25A-B017N104	10.5	B	25A-D010N104	25A-D010N114	6.6	B	25A-E6P6N104
5.5	7.5	5.5	7.5	24	C	25A-B024N104	13	C	25A-D013N104	25A-D013N114	9.9	C	25A-E9P9N104
7.5	10	7.5	10	32.3	D	25A-B032N104	17	C	25A-D017N104	25A-D017N114	12	C	25A-E012N104
11	15	11	15	48.3	E	25A-B048N104	24	D	25A-D024N104	25A-D024N114	19	D	25A-E019N104
15	20	11	15	62.1	E	25A-B062N104	30	D	25A-D030N104	25A-D030N114	22	D	25A-E022N104
18.5	25	15	20	–	–	–	37	E	–	25A-D037N114	27	E	25A-E027N104
22	30	18.5	25	–	–	–	43	E	–	25A-D043N114	32	E	25A-E032N104

## Specifications

<b>Power Ratings</b>	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	
<b>Motor Control</b>	Volts per hertz	Sensorless vector control	Sensorless vector control with Economizer
<b>Application</b>	Open loop speed regulation	–	–
<b>Control I/O</b>	5 digital inputs (24V DC, 4 programmable)	1 relay (form c)	1 analog input (unipolar voltage or current)
<b>Communications</b>	Integral RS485 with Modbus RTU/DSI PROFIBUS® DP option card	DeviceNet option card	Dual port EtherNet/IP option card
<b>Control Features</b>	Flying start V/F ratio Bus regulator Process PID	Common DC bus Fiber application specific features PTC input compatible 1/2 DC bus operation	8 datalinks (4 in and 4 out, requires comm. option card) Multi-drive connectivity (requires comm. option card) 8 preset speeds