

Product Overview

PowerFlex® 70 drives are designed to worldwide standards providing out-of-the-box performance around the globe. Available ratings include these options:

- 0.5...25 Hp output at 240V AC input
- 0.5...50 Hp output at 480V AC input
- 0.5...50 Hp output at 600V AC input

The PowerFlex 70 drive can be used with a full featured LCD human interface module (HIM) that provides multilingual text for startup, metering, programming, and troubleshooting.

The PowerFlex 70 can be programmed for either volts per Hertz, sensorless vector, or vector control with FORCE Technology to cover a wide range of applications from fans to extruders.

Optional internal communication modules provide fast and efficient control and/or data exchange with host controllers over popular interfaces. These interfaces include: Connected Components Workbench™ software, DeviceNetManager™, EtherNet/IP®, ControlNet®, serial communications, and other open control and communication networks. Computer tools such as DriveExplorer™ and DriveTools™ SP assist with programming, monitoring, and troubleshooting the PowerFlex 70.



DriveTools SP Software has been upgraded to Connected Components Workbench software. DriveTools support can be found at the Product Compatibility and Download Center rok.auto/pcdc, but is no longer available for sale.

Flexible Packaging and Mounting

- **IP20, NEMA / UL Type 1** – For conventional mounting inside or outside a control cabinet. Conduit plate is vertically removable for easy installation and replacement without disturbing conduit.
- **IP66, NEMA / UL Type 4X/12** (indoor use) – For mounting directly in the production environment. Listed by UL to resist dust, dirt, other contaminants, and to survive high-pressure water spray. Also certified by NSF International to verify conformity with international food equipment standards.
- **Flange Type** – For mounting heatsink through back of an enclosure, thus removing a large portion of the heat inside a cabinet. The backside is rated IP66, NEMA / UL Type 4X/12 for both indoor and outdoor use.
- **Zero-Stacking™ Drive** - Drives can be mounted directly next to one another with no reduction of ambient temperature rating (50 °C [122 °F] for IP20, NEMA / UL Type 1, and Flange Mount; 40 °C [104 °F] for IP66, NEMA / UL Type 4X/12).
- **Conformal Coating** - The drive is coated in an insulator, or non-conducting substance, that helps protect it from moisture, fungus, dust, corrosion, abrasion, and other environmental stresses caused by highly polluted atmospheres. The coating improves product lifetime expectancy when exposure to corrosive environment is present. It helps maintain long-term surface insulation resistance, ensuring operational integrity of the assembly.

Space Saving Hardware Features

- Integral electromagnetic compatibility (EMC) filtering provides a compact, all-in-one package solution for meeting EMC requirements, including CE in Europe.
- Integral dynamic brake transistor delivers a cost-effective means of switching regenerative energy without costly external chopper circuits.
- Internal dynamic brake resistor requires no extra panel space, and supplies a large amount of braking torque for short periods.
- Internal Communications allow you to integrate the drive into the manufacturing process. Status indicators for all internal communication options are visible on the cover for easy setup and monitoring of drive communications. You can easily manage information from shop floor to top floor and seamlessly integrate their complete system as they control, configure, and collect data.

380...480V AC, Three-phase Drives

480V AC Input					400V AC Input						With Filter	Frame Size		
Output Amps			Normal-Duty Hp	Heavy-Duty Hp	Cat. No.	Output Amps			Normal-Duty kW	Heavy-Duty kW			Cat. No.	
Cont.	60 s	3 s				Cont.	60 s	3 s						
1.1	1.2	1.6	0.5	0.33	20AD1P1A0AYNNNCO	1.3	1.4	1.9	0.37	0.25	20AC1P3A0AYNNNCO	No	A	
					20AD1P1A0AYNANCO						20AC1P3A0AYNANCO	Yes	B	
2.1	2.4	3.2	1	0.75	20AD2P1A0AYNNNCO	2.1	2.4	3.2	0.75	0.55	20AC2P1A0AYNNNCO	No	A	
					20AD2P1A0AYNANCO						20AC2P1A0AYNANCO	Yes	B	
3.4	4.5	6	2	1.5	20AD3P4A0AYNNNCO	3.5	4.5	6	1.5	1.1	20AC3P5A0AYNNNCO	No	A	
					20AD3P4A0AYNANCO						20AC3P5A0AYNANCO	Yes	B	
5	5.5	7.5	3	2	20AD5P0A0AYNNNCO	5	5.5	7.5	2.2	1.5	20AC5P0A0AYNNNCO	No	B	
					20AD5P0A0AYNANCO						20AC5P0A0AYNANCO	Yes		
8	8.8	12	5	3	20AD8P0A0AYNNNCO	8.7	9.9	13.2	4	3	20AC8P7A0AYNNNCO	No	B	
					20AD8P0A0AYNANCO						20AC8P7A0AYNANCO	Yes		
11	12.1	16.5	7.5	5	20AD011A0AYNANCO	11.5	13	17.4	5.5	4	20AC011A0AYNANCO		Yes	C
14	16.5	22	10	7.5	20AD014A0AYNANCO	15	17.2	23.1	7.5	5.5	20AC015A0AYNANCO			C
22	24.2	33	15	10	20AD022A0AYNANCO	22	24.2	33	11	7.5	20AC022A0AYNANCO			D
27	33	44	20	15	20AD027A0AYNANCO	30	33	45	15	11	20AC030A0AYNANCO			D
34	40.5	54	25	20	20AD034A0AYNANCO	37	45	60	18.5	15	20AC037A0AYNANCO			D
40	51	68	30	25	20AD040A0AYNANCO	43	56	74	22	18.5	20AC043A0AYNANCO			D
52	60	80	40	30	20AD052A0AYNANCO	60	66	90	30	22	20AC060A0AYNANCO			E
65	78	104	50	40	20AD065A0AYNANCO	72	90	120	37	30	20AC072A0AYNANCO			E

500...600V AC, Three-phase Drives

600V AC Input							
Output Amps			Normal-Duty Hp	Heavy-Duty Hp	Cat. No.	With Filter	Frame Size
Cont.	60 s	3 s					
0.9	1	1.4	0.5	0.33	20AE0P9A0AYNNNCO	No	A
1.7	1.9	2.6	1	0.75	20AE1P7A0AYNNNCO		
2.7	3.6	4.8	2	1	20AE2P7A0AYNNNCO		
3.9	4.3	5.8	3	1.5	20AE3P9A0AYNNNCO		B
6.1	6.7	9.1	5	3	20AE6P1A0AYNNNCO		
9	9.9	13.5	7.5	5	20AE9P0A0AYNNNCO		C
11	13.5	18	10	7.5	20AE011A0AYNNNCO		
17	18.7	25.5	15	10	20AE017A0AYNNNCO		
22	25.5	34	20	15	20AE022A0AYNNNCO		D
27	33	44	25	20	20AE027A0AYNNNCO		
32	40.5	54	30	25	20AE032A0AYNNNCO		
41	48	64	40	30	20AE041A0AYNANCO		
52	61.5	82	50	40	20AE052A0AYNANCO		E