

PowerFlex[™] 700 – Optimized Flexibility



- ☞ The PowerFlex 700® offers outstanding performance in an easy-to-use drive that users have come to expect from Rockwell Automation. This world-class performance comes in a small and competitively priced package. The PowerFlex 700® is designed to control three phase induction motors in applications with requirements ranging from the simplest speed control to the most demanding torque control.
- ☞ 0.75 kW to 132 kW, 400V 3-Phase (PF700)
- ☞ 160 kW to 400 kW, 400V 3-Phase (PF700H)
- ☞ 200-240V, 480V, 600V and 690V 3-Phase units available on request
- ☞ V/Hz-, Sensorless Vector and Vector Control (not in PF700H) in one Drive
- ☞ Speed and Torque Control with and without encoder feedback
- ☞ Speed or Torque reference in Vector Control
- ☞ Parameter linking functionality
- ☞ “Zero stacking” feature (no spacing required between drives)
- ☞ PowerFlex 700H Frame 10 standard floor standing cabinet
- ☞ Integrated Brake chopper
- ☞ Integrated AC or DC choke
- ☞ PTC Resistor input and encoder feedback interface option card

PowerFlex 700 Selection Table, 400V, IP20, EMC

Typical Motor Rating		Catalog Number	Drive Amps Output			Dimensions HxWxD (mm)	Weight kg	Frame
kW	Amps		Cont.	1 Min	3 sec			
0.75	1.9	20BC2P1A0AYNANC0	2.1	2.4	3.2	336x110x200	5.2	0
1.5	3.5	20BC3P5A0AYNANC0	3.5	4.5	6	336x110x200	5.2	0
2.2	5.0	20BC5P0A0AYNANC0	5	5.5	7.5	336x110x200	5.2	0
4	8.4	20BC8P7A0AYNANC0	8.7	9.9	13.2	336x110x200	5.2	0
5.5	11.0	20BC011A0AYNANC0	11.5	13	17.4	336x110x200	5.2	0
7.5	15.0	20BC015A0AYNANC0	15.4	17.2	23.1	336x135x200	7.1	1
11	22.0	20BC022A0AYNANC0	22	24.2	33	336x135x200	7.1	1
15	29.0	20BC030A0AYNANC0	30	33	45	343x220x200	12.5	2
18.5	34.0	20BC037A0AYNANC0	37	45	60	343x220x200	12.5	2
22	40.0	20BC043A0AYNANC0	43	55.5	74	518x220x200	18.6	3
30	53.0	20BC056A0AYNANC0	56	64.5	86	518x220x200	18.6	3
37	65.0	20BC072A0AYNANC0	72	84	112	518x220x200	18.6	3
45	78.0	① 20BC085A0AYNANC0	85 (72)	94 (108)	128 (144)	759x220x200	24.5	4
55	98.0	① 20BC105A0AYNANC0	105 (85)	116 (128)	158(170)	645x309x276	38	5
75	132.0	① 20BC140A0AYNANC0	140 (105)	154 (157)	190 (190)	850x404x276	72	5
90	158.0	① 20BC170A0AYNANC0	170 (140)	187 (210)	255 (280)	850x404x276	72	6
110	194.0	① 20BC205A0AYNANC0	205 (170)	220 (255)	300 (340)	850x404x276	72	6
132	235.0	① 20BC260A0AYNANC0	260 (205)	286 (308)	390 (410)	850x404x276	72	6

① Also available without Brake chopper (Catalog No. 20BCxxAxxNxxxxx)

() Values in brackets are Heavy Duty application Amps. The drive may be operated at either rating.

NEW
PowerFlex
700H

PowerFlex 700H Selection Table, 400V, IP20, EMC

Typical Motor Rating		Catalog Number	Drive Amps Output			Dimensions	Weight	Frame
kW	Amps		Cont.	1 Min	3 sec	HxWxD (mm)	kg	
160	276	20CC300A0ANNBNA0	300	330	500	1150x480x362	143	9
200	345	20CC385A0ANNBNA0	385	424	600	② 2275x600x600	447	10
250	440	20CC460A0ANNBNA0	460	506	770	② 2275x600x600	447	10
280	493	20CC500A0ANNBNA0	500	550	750	② 2275x600x600	447	10
315	550	20CC590A0ANNBNA0	590	649	885	② 2275x800x600	480	11
355	620	20CC650A0ANNBNA0	650	715	975	② 2275x800x600	480	11
400	700	20CC730A0ANNBNA0	730	803	1095	② 2275x800x600	480	11

② Rittal Cabinet

PowerFlex 700 Options

Catalogue No.	Description
Internal Brake Resistors - 5% Duty Cycle	
20BD-DB1-0	Brake Resistor Kit, PowerFlex 700 Frame 0, 380-600V, 115 Ohm
20BD-DB1-1	Brake Resistor Kit, PowerFlex 700 Frame 1, 380-600V, 115 Ohm
20BD-DB1-2	Brake Resistor Kit, PowerFlex 700 Frame 2, 380-480V, 68 Ohm
Human Interface Modules	
20-HIM-A2	Human Interface Module, Digital LCD
20-HIM-A3	Human Interface Module, Full Numeric LCD
20-HIM-A4	Human Interface Module, Analog LCD
20-HIM-A5	Human Interface Module, Programming Only LCD
20-HIM-B1	Human Interface Module, Door Mount Bezel Kit, IP20
20-HIM-C3S	Human Interface Module, Full Numeric LCD, IP66
20-HIM-C5S	Human Interface Module, Programming Only LCD, IP66
20-HIM-H10	Cable to allow remote use of HIM Module 1 meter
Feedback Option	
20B-ENC-2	PowerFlex 700 Encoder Feedback interface 12/5V
Upgrade Kit Vector Control to upgrade PowerFlex 700 Standard Control	
20B-VECT-C0	Vector Control, 24V I/O, PowerFlex 700
20B-VECT-D0	Vector Control, 115V I/O, PowerFlex 700