

Product Selection Guide

PowerFlex 400 Standard Drives

200-240V AC, Three Phase Drives

Drive Ratings				Rating	Catalog Number	
kW	HP	Output Current ②	Frame Size		Panel Mount	Flange Mount
2.2	3.0	12A	C	IP20, NEMA/UL Open Type ①	22C-B012N103	22C-B012F103
3.7	5.0	17.5A	C	IP20, NEMA/UL Open Type ①	22C-B017N103	22C-B017F103
5.5	7.5	24A	C	IP20, NEMA/UL Open Type ①	22C-B024N103	22C-B024F103
7.5	10	33A	C	IP20, NEMA/UL Open Type ①	22C-B033N103	22C-B033F103
11	15	49A	D	IP30, NEMA/UL Type 1	22C-B049A103	–
15	20	65A	D	IP30, NEMA/UL Type 1	22C-B065A103	–
18.5	25	75A	D	IP30, NEMA/UL Type 1	22C-B075A103	–
22	30	90A	D	IP30, NEMA/UL Type 1	22C-B090A103	–
30	40	120A	E	IP30, NEMA/UL Type 1	22C-B120A103	–
37	50	145A	E	IP30, NEMA/UL Type 1	22C-B145A103	–

380-480V AC, Three Phase Drives

Drive Ratings				Rating	Catalog Number	
kW	HP	Output Current ②	Frame Size		Panel Mount	Flange Mount
2.2	3.0	6.0A	C	IP20, NEMA/UL Open Type ①	22C-D6P0N103	22C-D6P0F103
4.0	5.0	10.5A	C	IP20, NEMA/UL Open Type ①	22C-D010N103	22C-D010F103
5.5	7.5	12A	C	IP20, NEMA/UL Open Type ①	22C-D012N103	22C-D012F103
7.5	10	17A	C	IP20, NEMA/UL Open Type ①	22C-D017N103	22C-D017F103
11	15	22A	C	IP20, NEMA/UL Open Type ①	22C-D022N103	22C-D022F103 ③
15	20	30A	C	IP20, NEMA/UL Open Type ①	22C-D030N103	22C-D030F103 ③
18.5	25	38A	D	IP30, NEMA/UL Type 1	22C-D038A103	–
22	30	45.5A	D	IP30, NEMA/UL Type 1	22C-D045A103	–
30	40	60A	D	IP30, NEMA/UL Type 1	22C-D060A103	–
37	50	72A	E	IP30, NEMA/UL Type 1	22C-D072A103	–
45	60	88A	E	IP30, NEMA/UL Type 1	22C-D088A103	–
55	75	105A	E	IP30, NEMA/UL Type 1	22C-D105A103	–
75	100	142A	E	IP30, NEMA/UL Type 1	22C-D142A103	–
90	125	170A	F	IP30, NEMA/UL Type 1	22C-D170A103	–
110	150	208A	F	IP30, NEMA/UL Type 1	22C-D208A103	–
132	200	260A	G	IP30, NEMA/UL Type 1	22C-D260A103	–
160	250	310A	G	IP30, NEMA/UL Type 1	22C-D310A103	–
200	300	370A	H	IP30, NEMA/UL Type 1	22C-D370A103	–
250	350	460A	H	IP30, NEMA/UL Type 1	22C-D460A103	–

- ① IP30, NEMA/UL Type 1 can be achieved for panel mount drives with top cover and optional conduit box kit installed. Field installed conversion kit specified under User Installed Options.
- ② Drive terminals are sized according to UL. Depending on operating ambient and wire used, some local or national codes may require a larger wire size than what the power terminals can accept. Multiple conductors, 90°C wire, and/or lugs may be required. Refer to the PowerFlex 400 User Manual for details on terminal block wire ranges.
- ③ 11 and 15 kW (15 and 20 HP) Frame C flange mount drives require external DC series bus inductor.

Specifications

Drive Specifications

Drive Ratings											
Catalog Number	Output Ratings			Input Ratings			Branch Circuit Protection				Power Dissipation
	kW (HP)	Amps		Voltage Range	kVA	Amps	Fuses	140M Motor Protectors ① ②	Contactors	Min. Enclosure Volume③ (in. ³)	
		45°C	50°C								IP20 Open Watts
200 - 240V AC – 3-Phase Input, 0 - 230V 3-Phase Output											
22C-B012N103	2.2 (3.0)	12	12	180-265	6.5	15.5	20	140M-F8E-C16	100-C23	5098	146
22C-B017N103	3.7 (5.0)	17.5	17.5	180-265	8.8	21	30	140M-F8E-C25	100-C37	5098	207
22C-B024N103	5.5 (7.5)	24	24	180-265	10.9	26.1	35	140M-F8E-C32	100-C37	5098	266
22C-B033N103	7.5 (10)	33	33	180-265	14.4	34.6	45	140M-F8E-C45	100-C45	5098	359
22C-B049A103	11 (15)	49	49	180-265	21.3	51	70	—	100-C60	—	488
22C-B065A103	15 (20)	65	65	180-265	28.3	68	90	—	100-C85	—	650
22C-B075A103	18.5 (25)	75	75	180-265	32.5	78	100	—	100-D95	—	734
22C-B090A103	22 (30)	90	81	180-265	38.3	92	125	—	100-D110	—	778
22C-B120A103	30 (40)	120	120	180-265	51.6	124	175	—	100-D180	—	1055
22C-B145A103	37 (50)	145	130	180-265	62.4	150	200	—	100-D180	—	1200
380 - 480V AC – 3-Phase Input, 0 - 460V 3-Phase Output											
22C-D6P0N103	2.2 (3.0)	6	6	340-528	6.3	7.5	10	140M-D8E-C10	100-C09	5098	105
22C-D010N103	4.0 (5.0)	10.5	10.5	340-528	10.9	13	20	140M-D8E-C16	100-C16	5098	171
22C-D012N103	5.5 (7.5)	12	12	340-528	11.9	14.2	20	140M-D8E-C16	100-C23	5098	200
22C-D017N103	7.5 (10)	17	17	340-528	15.3	18.4	25	140M-D8E-C20	100-C23	5098	267
22C-D022N103	11 (15)	22	22	340-528	19.2	23	30	140M-F8E-C32	100-C30	5098	329
22C-D030N103	15 (20)	30	27	340-528	25.8	31	40	140M-F8E-C32	100-C37	5098	435
22C-D038A103	18.5 (25)	38	38	340-528	33.3	40	50	140M-F8E-C45	100-C60	9086	606
22C-D045A103	22 (30)	45.5	45.5	340-528	39.1	47	60	—	100-C60	—	738
22C-D060A103	30 (40)	60	54	340-528	53.3	64	80	—	100-C85	—	764
22C-D072A103	37 (50)	72	72	340-528	60.7	73	100	—	100-C85	—	1019
22C-D088A103	45 (60)	88	88	340-528	74.9	90	125	—	100-D110	—	1245
22C-D105A103	55 (75)	105	105	340-528	89	107	150	—	100-D140	—	1487
22C-D142A103	75 (100)	142	128	340-528	124.8	150	200	—	100-D180	—	2043
22C-D170A103	90 (125)	170	170	340-528	142	170	250	—	100-D250	—	2617
22C-D208A103	110 (150)	208	208	340-528	167	200	250	—	100-D250	—	3601
22C-D260A103	132 (200)	260	260	340-528	196	235	300	—	100-D300	—	3711
22C-D310A103	160 (250)	310	290	340-528	242	290	400	—	100-D420	—	4208
22C-D370A103	200 (300)	370	370	340-528	304	365	500	—	100-D420	—	4916
22C-D460A103	250 (350)	460	410	340-528	387	465	600	—	100-D630	—	6167

① The AIC ratings of the Bulletin 140M Motor Protector Circuit Breakers may vary. See [Bulletin 140M Motor Protection Circuit Breakers Application Ratings](#).

② Manual Self-Protected (Type E) Combination Motor Controller, UL listed for 208 Wye or Delta, 240 Wye or Delta, 480Y/277 or 600Y/347. Not UL listed for use on 480V or 600V Delta/Delta, corner ground, or high-resistance ground systems.

③ When using a Manual Self-Protected (Type E) Combination Motor Controller, the drive must be installed in a ventilated or non-ventilated enclosure with the minimum volume specified in this column. Application specific thermal considerations may require a larger enclosure.