

Specifications

Drive Specifications

Drive Ratings											
Catalog Number	Output Ratings			Input Ratings			Branch Circuit Protection				Power Dissipation IP20 Open Watts
	kW (HP)	Amps		Voltage Range	kVA	Amps	Fuses	140M Motor Protectors ① ②	Contactors	Min. Enclosure Volume③ (in.³)	
45°C		50°C									
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.

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.