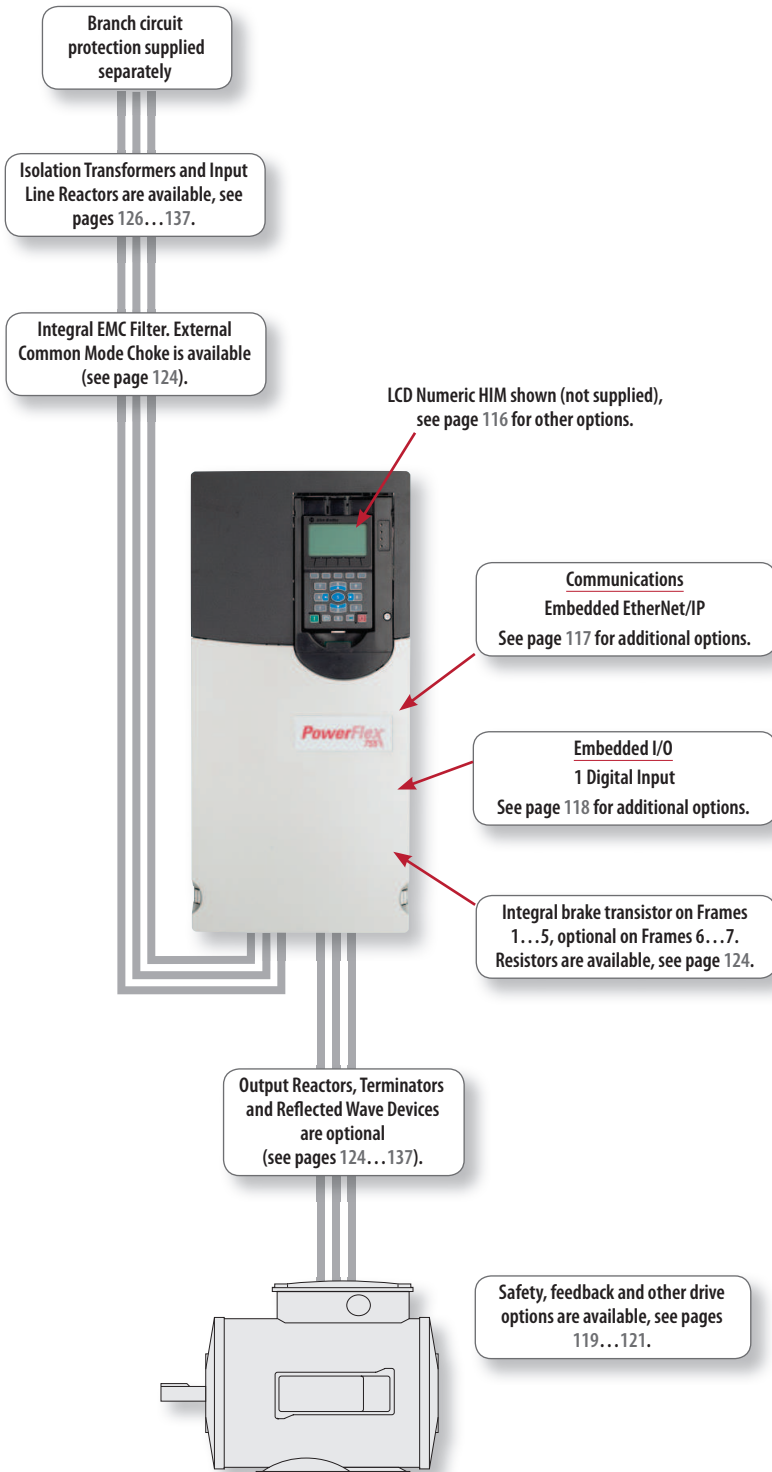


PowerFlex 755 AC Drive

Designed for ease of integration, application flexibility and performance the PowerFlex 755 AC drive provides improved functionality across many manufacturing systems. The PowerFlex 755 AC drive is designed to maximize user's investment and help improve productivity. Ideal for applications that require safety, high motor control performance, and application flexibility, the PowerFlex 755 is highly functional and cost effective solution.

The PowerFlex 755 AC drive can be configured with drive instructions embedded in Allen-Bradley Logix Programmable Automation Controllers (PAC).



PowerFlex 755 at a glance

Ratings

380...480V:	0.75...1400 kW / 1.0...2000 Hp / 2.1...2330 A
600V:	1.0...1500 Hp / 1.7...1530 A
690V:	7.5...1500 kW / 12...1485 A

Motor Control

- V/Hz Control
- Sensorless Vector Control
- Vector Control with FORCE Technology (with and without encoder)
- Surface Mount Permanent Magnet:
 - Frames 2...7 (with and without encoder)
 - Frames 8...10 (with encoder)
- Interior Permanent Magnet:
 - Frames 2...7 (with and without encoder)
 - Frames 8...10 (with encoder)

Enclosures

- IP00/IP20, NEMA/UL Type Open
- Flange Mount
- IP54/NEMA/UL Type 12
- IP20, NEMA/UL Type 1 (MCC Style Cabinet)
- IP54, NEMA Type 12 (MCC Style Cabinet)

Safety

- Safe Torque-Off PLe/SIL3 Cat. 3
- Safe Speed Monitor PLe/SIL3 Cat. 4

Additional Features

- Automatic Device Configuration
- Configure and control with embedded instruction sets in Studio 5000 Logix Designer
- Predictive Diagnostics
- Adjustable Voltage Control
- Five option slots for I/O, feedback, safety, auxiliary control power, communications
- Accurate positioning with PCAM, Indexer, Electronic Gearing, and speed/position profiling
- Incremental, Absolute and High Resolution feedback supported
- TorqProve for lifting applications
- Pump Jack and Pump Off for oil well applications
- Pjump and Traverse for Fibers application
- Conformal Coating
- DC Link Choke
- AC line fuses included with Frame 8...10 drives
- Roll-out design for Frame 8...10 drives

Certifications

- ABS
- ATEX Certified with appropriate options
- C-Tick
- c-UL-us
- CE
- EPRI/SEMI F47
- GOST-R
- Lloyd's Register
- RINA
- RoHS compliant materials
- FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option

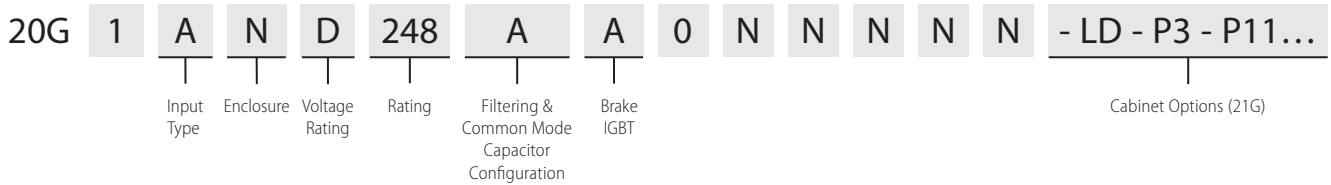
Options

See pages 116...137

Additional Information

PowerFlex 750-Series Brochure, publication 750-BR001
 PowerFlex 750-Series Technical Data, publication 750-TD001

Catalog Number Explanation



Product Selection

IP00/IP20, NEMA/UL Type Open *

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

480V AC Input						400V AC Input						Frame Size
Output Amps §			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps §			Normal Duty kW	Heavy Duty kW	Cat. No. ★	
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	2.3	3.2	1	0.5	20G11RD2P1AA0NNNNN	2.1	2.3	3.2	0.75	0.37	20G11RC2P1JA0NNNNN	1
3.4	3.7	5.1	2	1.5	20G11RD3P4AA0NNNNN	3.5	3.9	5.3	1.5	0.75	20G11RC3P5JA0NNNNN	1
5	5.5	7.5	3	2	20G11RD5P0AA0NNNNN	5	5.5	7.5	2.2	1.5	20G11RC5P0JA0NNNNN	1
8	8.8	12	5	3	20G11RD8P0AA0NNNNN	8.7	9.6	13.1	4	2.2	20G11RC8P7JA0NNNNN	1
11	12.1	16.5	7.5	5	20G11RD011AA0NNNNN	11.5	12.7	17.3	5.5	4	20G11RC011JA0NNNNN	1
14	15.4	21	10	7.5	20G11RD014AA0NNNNN	15.4	16.9	23.1	7.5	5.5	20G11RC015JA0NNNNN	1
2.1	3.1	3.7	1	1	20G11ND2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20G11NC2P1JA0NNNNN	2
3.4	5.1	6.1	2	2	20G11ND3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20G11NC3P5JA0NNNNN	2
5	7.5	9	3	3	20G11ND5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20G11NC5P0JA0NNNNN	2
8	12	14.4	5	5	20G11ND8P0AA0NNNNN	8.7	13	15.6	4	4	20G11NC8P7JA0NNNNN	2
11	16.5	19.8	7.5	7.5	20G11ND011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20G11NC011JA0NNNNN	2
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20G11ND014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20G11NC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20G11ND022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20G11NC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20G11ND027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20G11NC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20G11ND034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20G11NC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20G11ND040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20G11NC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20G11ND052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20G11NC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20G11ND065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20G11NC072JA0NNNNN	4
77 (65)	84.7 (97.5)	116 (117)	60	50	20G11ND077AA0NNNNN	85 (72)	93.5 (108)	128 (130)	45	37	20G11NC085JA0NNNNN	5
96 (77)	106 (116)	144 (144)	75	60	20G11ND096AA0NNNNN	104 (85)	114 (128)	156 (156)	55	45	20G11NC104JA0NNNNN	5
125 (96)	138 (144)	188 (188)	100	75	20G1AND125AN0NNNNN	140 (104)	154 (156)	210 (210)	75	55	20G1ANC140JNONNNNN	6 ♣
156 (125)	172 (188)	234 (234)	125	100	20G1AND156AN0NNNNN	170 (140)	187 (210)	255 (255)	90	75	20G1ANC170JNONNNNN	6 ♣
186 (156)	205 (234)	279 (281)	150	125	20G1AND186AN0NNNNN	205 (170)	226 (255)	308 (308)	110	90	20G1ANC205JNONNNNN	6 ♣
248 (186)	273 (279)	372 (372)	200	150	20G1AND248AN0NNNNN	260 (205)	286 (308)	390 (390)	132	110	20G1ANC260JNONNNNN	6 ♣
302 (248)	332 (372)	453 (453)	250	200	20G1AND302AN0NNNNN	302 (260)	332 (390)	453 (468)	160	132	20G1ANC302JNONNNNN	7 ♣
361 (302)	397 (453)	542 (544)	300	250	20G1AND361AN0NNNNN	367 (302)	404 (453)	551 (551)	200	160	20G1ANC367JNONNNNN	7 ♣
415 (361)	457 (542)	623 (650)	350	300	20G1AND415AN0NNNNN	456 (367)	502 (551)	684 (684)	250	200	20G1ANC456JNONNNNN	7 ♣

♣ Frames 1...5 are IP20, Frames 6...7 are IP00.

★ The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

♣ Also available with internal Brake IGBT (20G1xxxxxx A xxxxx).

§ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

IP00/IP20, NEMA/UL Type Open (continued)

Frames 3, 4 and 5 are 600V only drives. Frames 6 and 7 are dual voltage drives and can be operated at 600V or 690V AC.

Important: Frames 3, 4, and 5 must NOT be used in common DC input sharing applications with Frame 6 or larger drives. For details, contact your local Rockwell Automation sales office or Allen-Bradley Distributor.

DC Bus terminals are not supplied with AC input Frame 6 and 7 drives.

600V AC, Three-Phase Drives – IP20, NEMA/UL Type 1

Output Amps §			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Frame Size
Cont.	1 Min.	3 Sec.				
1.7 (0.9)	1.9 (1.4)	2.6 (2.6)	1	0.5	20G11NE1P7AA0NNNNN	3
2.7 (1.7)	3.0 (2.6)	4.1 (4.6)	2	1	20G11NE2P7AA0NNNNN	3
3.9 (2.7)	4.3 (4.1)	5.9 (7.3)	3	2	20G11NE3P9AA0NNNNN	3
6.1 (3.9)	6.7 (5.9)	9.2 (10.5)	5	3	20G11NE6P1AA0NNNNN	3
9 (6.1)	9.9 (9.2)	13.5 (16.5)	7.5	5	20G11NE9P0AA0NNNNN	3
11 (9)	12.1 (13.5)	16.5 (24.3)	10	7.5	20G11NE017AA0NNNNN	3
17 (11)	18.7 (16.5)	25.5 (29.7)	15	10	20G11NE017AA0NNNNN	3
22 (17)	24 (26)	33 (46)	20	15	20G11NE022AA0NNNNN	3
27 (22)	30 (33)	41 (59)	25	20	20G11NE027AA0NNNNN	4
32 (27)	35 (41)	48 (73)	30	25	20G11NE032AA0NNNNN	4
41 (32)	45 (48)	62 (86)	40	30	20G11NE041AA0NNNNN	5
52 (41)	57 (62)	78 (111)	50	40	20G11NE052AA0NNNNN	5

§ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

600...690V AC, Three-Phase Drives – IP00, NEMA/UL Type Open

600V AC Input					690V AC Input						Frame Size	
Output Amps §			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps §			Normal Duty kW	Heavy Duty kW		Cat. No. ★
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
12 (9.1)	13.2 (13.7)	18 (18)	10 ‡	7.5	20G1ANE012AN0NNNNN	12 (9)	13.2 (13.5)	18 (18)	7.5	5.5	20G1ANF012JN0NNNNN	6 ♣
18 (11.1)	19.8 (16.7)	27 (27)	15 ‡	10	20G1ANE018AN0NNNNN	15 (11.5)	16.5 (17.3)	22.5 (22.5)	11	7.5	20G1ANF015JN0NNNNN	6 ♣
23 (18)	25.3 (27)	34.5 (34.5)	20 ‡	15	20G1ANE023AN0NNNNN	20 (15)	22 (22.5)	30 (30)	15	11	20G1ANF020JN0NNNNN	6 ♣
24 (22)	26.4 (33)	36 (39.6)	20 ‡	20	20G1ANE024AN0NNNNN	23 (20)	25.3 (30)	34.5 (36)	18.5	15	20G1ANF023JN0NNNNN	6 ♣
28 (23)	30.8 (34.5)	42 (42)	25 ‡	20	20G1ANE028AN0NNNNN	30 (23)	33 (34.5)	45 (45)	22	18.5	20G1ANF030JN0NNNNN	6 ♣
33 (28)	36.3 (42)	49.5 (50.4)	30 ‡	25	20G1ANE033AN0NNNNN	34 (30)	37.4 (45)	51 (54)	30	22	20G1ANF034JN0NNNNN	6 ♣
42 (33)	46.2 (49.5)	63 (63)	40 ‡	30	20G1ANE042AN0NNNNN	46 (34)	50.6 (51)	69 (69)	37	30	20G1ANF046JN0NNNNN	6 ♣
53 (42)	58.3 (63)	79.5 (79.5)	50 ‡	40	20G1ANE053AN0NNNNN	50 (46)	55 (69)	75 (82.8)	45	37	20G1ANF050JN0NNNNN	6 ♣
63 (52)	69.3 (78)	94.5 (94.5)	60	50	20G1ANE063AN0NNNNN	61 (50)	67.1 (75)	91.5 (91.5)	55	45	20G1ANF061JN0NNNNN	6 ♣
77 (63)	84.7 (94.5)	116 (116)	75	60	20G1ANE077AN0NNNNN	82 (61)	90.2 (91.5)	123 (123)	75	55	20G1ANF082JN0NNNNN	6 ♣
99 (77)	109 (116)	149 (149)	100	75	20G1ANE099AN0NNNNN	98 (82)	108 (123)	147 (148)	90	75	20G1ANF098JN0NNNNN	6 ♣
125 (99)	138 (149)	188 (188)	125	100	20G1ANE125AN0NNNNN	119 (98)	131 (147)	179 (179)	110	90	20G1ANF119JN0NNNNN	6 ♣
144 (125)	158 (188)	216 (225)	150	125	20G1ANE144AN0NNNNN	142 (119)	156 (179)	213 (214)	132	110	20G1ANF142JN0NNNNN	6 ♣
192 (144)	211 (216)	288 (288)	200	150	20G1ANE192AN0NNNNN	171 (142)	188 (213)	257 (257)	160	132	20G1ANF171JN0NNNNN	7 ♣
242 (192)	266 (288)	363 (363)	250	200	20G1ANE242AN0NNNNN	212 (171)	233 (257)	318 (318)	200	160	20G1ANF212JN0NNNNN	7 ♣
289 (242)	318 (318)	434 (436)	300	250	20G1ANE289AN0NNNNN	263 (212)	289 (289)	395 (395)	250	200	20G1ANF263JN0NNNNN	7 ♣

★ The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

‡ Alternate 600V ratings when connected to drives 60 Hp and greater in common DC input applications with uncontrolled front ends.

§ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

♣ Also available with internal Brake IGBT (20G1xxxxxx A xxxxxx).

Flange Mount

Front = IP20, NEMA/UL Type Open, Back/Heatsink = IP66, NEMA/UL Type 4X

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

480V AC Input					400V AC Input					Frame Size		
Output Amps §			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Output Amps §			Normal Duty kW		Heavy Duty kW	Cat. No. ★
Cont.	1 Min.	3 Sec.				Cont.	1 Min.	3 Sec.				
2.1	3.1	3.7	1	1	20G11FD2P1AA0NNNNN	2.1	3.1	3.7	0.75	0.75	20G11FC2P1JA0NNNNN	2
3.4	5.1	6.1	2	2	20G11FD3P4AA0NNNNN	3.5	5.2	6.3	1.5	1.5	20G11FC3P5JA0NNNNN	2
5	7.5	9	3	3	20G11FD5P0AA0NNNNN	5	7.5	9.0	2.2	2.2	20G11FC5P0JA0NNNNN	2
8	12	14.4	5	5	20G11FD8P0AA0NNNNN	8.7	13	15.6	4	4	20G11FC8P7JA0NNNNN	2
11	16.5	19.8	7.5	7.5	20G11FD011AA0NNNNN	11.5	17.2	20.7	5.5	5.5	20G11FC011JA0NNNNN	2
14 (11)	15.4 (16.5)	21 (21)	10	7.5	20G11FD014AA0NNNNN	15.4 (11.5)	16.9 (17.3)	23.1 (23.1)	7.5	5.5	20G11FC015JA0NNNNN	2
22 (14)	24.2 (21)	33 (33)	15	10	20G11FD022AA0NNNNN	22 (15.4)	24.2 (23.1)	33 (33)	11	7.5	20G11FC022JA0NNNNN	2
27 (22)	29.7 (33)	40.5 (40.5)	20	15	20G11FD027AA0NNNNN	30 (22)	33 (33)	45 (45)	15	11	20G11FC030JA0NNNNN	3
34 (27)	37.4 (40.5)	51 (51)	25	20	20G11FD034AA0NNNNN	37 (30)	40.7 (45)	55.5 (55.5)	18.5	15	20G11FC037JA0NNNNN	3
40 (34)	44 (51)	60 (61.2)	30	25	20G11FD040AA0NNNNN	43 (37)	47.3 (55.5)	64.5 (66.6)	22	18.5	20G11FC043JA0NNNNN	3
52 (40)	57.2 (60)	78 (78)	40	30	20G11FD052AA0NNNNN	60 (43)	66 (66)	90 (90)	30	22	20G11FC060JA0NNNNN	4
65 (52)	71.5 (78)	97.5 (97.5)	50	40	20G11FD065AA0NNNNN	72 (60)	79.2 (90)	108 (108)	37	30	20G11FC072JA0NNNNN	4
77 (65)	84.7 (97.5)	116 (117)	60	50	20G11FD077AA0NNNNN	85 (72)	93.5 (108)	128 (130)	45	37	20G11FC085JA0NNNNN	5
96 (77)	106 (116)	144 (144)	75	60	20G11FD096AA0NNNNN	104 (85)	114 (128)	156 (156)	55	45	20G11FC104JA0NNNNN	5

Note: Frames 6...7 require an optional user installed flange kit with an IP00, NEMA/UL Type Open drive.

★ The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

§ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

600V AC, Three-Phase Drives

Output Amps §			Normal Duty Hp	Heavy Duty Hp	Cat. No.	Frame Size
Cont.	1 Min.	3 Sec.				
1.7 (0.9)	1.9 (1.4)	2.6 (2.6)	1	0.5	20G11FE1P7AA0NNNNN	3
2.7 (1.7)	3.0 (2.6)	4.1 (4.6)	2	1	20G11FE2P7AA0NNNNN	3
3.9 (2.7)	4.3 (4.1)	5.9 (7.3)	3	2	20G11FE3P9AA0NNNNN	3
6.1 (3.9)	6.7 (5.9)	9.2 (10.5)	5	3	20G11FE6P1AA0NNNNN	3
9 (6.1)	9.9 (9.2)	13.5 (16.5)	7.5	5	20G11FE9P0AA0NNNNN	3
11 (9)	12.1 (13.5)	16.5 (24.3)	10	7.5	20G11FE011AA0NNNNN	3
17 (11)	18.7 (16.5)	25.5 (29.7)	15	10	20G11FE017AA0NNNNN	3
22 (17)	24 (26)	33 (46)	20	15	20G11FE022AA0NNNNN	3
27 (22)	30 (33)	41 (59)	25	20	20G11FE027AA0NNNNN	4
32 (27)	35 (41)	48 (73)	30	25	20G11FE032AA0NNNNN	4
41 (32)	45 (48)	62 (86)	40	30	20G11FE041AA0NNNNN	5
52 (41)	57 (62)	78 (111)	50	40	20G11FE052AA0NNNNN	5

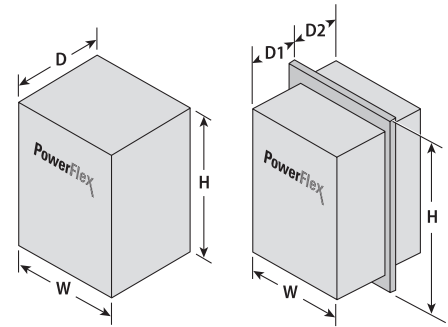
§ These drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

Approximate Dimensions and Weights

Dimensions are in mm (in.) - weights are in kg (lb)

IP00/IP20, NEMA/UL Type Open

Frame	H	W	D	Weight
1	400.5 (15.77)	110.0 (4.33)	211.0 (8.31)	6.00 (12.8)
2	424.2 (16.70)	134.5 (5.30)	212.0 (8.35)	7.80 (17.2)
3	454.0 (17.87)	190.0 (7.48)	212.0 (8.35)	11.80 (26.1)
4	474.0 (18.66)	222.0 (8.74)	212.0 (8.35)	13.60 (30.0)
5	550.0 (21.65)	270.0 (10.63)	212.0 (8.35)	20.40 (45.0)
6	665.5 (26.20)	308.0 (12.13)	346.4 (13.64)	38.60 (85.0)
7	881.5 (34.70)	430.0 (16.93)	349.6 (13.76)	72.60...108.90 (160.0...240.0)



IP20, NEMA/UL Type 1, MCC Style Cabinet

Frame	H	W	D	Weight ★
8	2453.0 (96.60)	600.0 (23.60)	600.0 (23.60) or 800.0 (31.50)	623.00 (1374.0)
8 with Drive and Option Cabinet	2453.0 (96.60)	1200.0 (47.20)	600.0 (23.60) or 800.0 (31.50)	1145.00 (2525.0)
9	2453.0 (96.60)	1200.0 (47.20)	600.0 (23.60) or 800.0 (31.50)	1246.00 (2748.0)
9 with Drive and Option Cabinet	2453.0 (96.60)	1800.0 (70.90)	800.0 (31.50)	2290.00 (5051.0)
10	2453.0 (96.60)	1800.0 (70.90)	600.0 (23.60) or 800.0 (31.50)	1869.00 (4122.0)
10 with Drive and Option Cabinet	2453.0 (96.60)	2400.0 (94.50)	800.0 (31.50)	3435.00 (7576.0)

★ Weights are approximate. Refer to the PowerFlex 750-Series Technical Data, publication 750-TD001 for detailed weight information.

Flange Mount

Frame	H	W	D1	D2	Weight ★
2	481.8 (18.97)	206.2 (8.12)	148.3 (5.84)	63.7 (2.51)	8.00 (17.0)
3	515.0 (20.28)	260.0 (10.24)	127.4 (5.02)	84.6 (3.33)	12.00 (26.0)
4	535.0 (21.06)	292.0 (11.50)	127.4 (5.02)	84.6 (3.33)	14.00 (30.0)
5	611.0 (24.06)	340.0 (13.39)	127.4 (5.02)	84.6 (3.33)	20.00 (45.0)
6	665.5 (26.20)	308.0 (12.13)	208.4 (8.20)	138.0 (5.43)	38.00 (84.0)
7	875.0 (34.45)	430.0 (16.93)	208.4 (8.20)	138.0 (5.43)	96.00 (212.0)

★ Weights are approximate. Refer to the PowerFlex 750-Series Technical Data, publication 750-TD001 for detailed weight information.

Approximate Dimensions and Weights (continued)

IP54, NEMA/UL Type 12

Frame	H	W	D	Weight ★
2	543.2 (21.39)	215.3 (8.48)	222.2 (8.75)	8.00 (17.0)
3	551.0 (21.69)	268.0 (10.55)	220.1 (8.67)	12.00 (26.0)
4	571.0 (22.48)	300.0 (11.81)	220.1 (8.67)	14.00 (30.0)
5	647.0 (25.47)	348.0 (13.70)	220.1 (8.67)	20.00 (45.0)
6	1298.3 (51.11)	609.4 (23.99)	464.7 (18.30)	91.00 (200.0)
7	1614.0 (63.54)	609.4 (23.99)	464.7 (18.30)	162.00 (357.0)

★ Weights are approximate. Refer to the PowerFlex 750-Series Technical Data, publication 750-TD001 for detailed weight information.

IP54, NEMA Type 12, MCC Style Cabinet

Frame	H	W	D	Weight ★
8	2477.0 (97.50)	600.0 (23.60)	800.0 (31.50) 898.0 (35.40) with Filter	644.00 (1419.0)
8 with Drive and Option Cabinets	2477.0 (97.50)	1200.0 (47.20)	800.0 (31.50) 898.0 (35.40) with Filter	1166.00 (2570.0)
9	2477.0 (97.50)	1200.0 (47.20)	800.0 (31.50) 898.0 (35.40) with Filter	1287.00 (2838.0)
9 with Drive and Option Cabinets	2477.0 (97.50)	1800.0 (70.90)	800.0 (31.50) 898.0 (35.40) with Filter	2332.00 (5141.0)
10	2477.0 (97.50)	1800.0 (70.90)	800.0 (31.50) 898.0 (35.40) with Filter	1931.00 (4257.0)
10 with Drive and Option Cabinets	2477.0 (97.50)	2400.0 (94.50)	800.0 (31.50) 898.0 (35.40) with Filter	3498.00 (7711.0)

★ Weights are approximate. Refer to the PowerFlex 750-Series Technical Data, publication 750-TD001 for detailed weight information.

IP00, NEMA/UL Open Type ★

Frame	H	W	D
8	2145.0 (84.45)	777.9 (30.63)	424.9 (16.73)
9	2145.0 (84.45)	1577.8 (62.12)	424.9 (16.73)
10	2145.0 (84.45)	2377.9 (93.62)	424.9 (16.73)

★ Refer to the PowerFlex 750-Series Technical Data, publication 750-TD001 for detailed information.

Maximum Component Weights - Frames 8...10

Component	AC Input	Common DC Input
Converter/DC Input with Precharge	64.00 (140.0)	64.00 (140.0)
Inverter	222.00 (490.0)	165.00 (363.0)
Drive Assembly (Open, IP00)	286.00 (630.0)	229.00 (504.0)

PowerFlex 7-Class Options

Human Interface Modules



Blank Plate



20-HIM-A3



20-HIM-A5



20-HIM-A6



20-HIM-C3S



20-HIM-C5S



20-HIM-C6S

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
No HIM (Blank Plate), Handheld/Local (Drive Mount)	20-HIM-A0	✓	✓	✓	✓	✓	✓
LCD Display, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A3	✓	✓	✓	✓	✓	
LCD Display, Programmer Only, Handheld/Local (Drive Mount)	20-HIM-A5	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric Keypad, Handheld/Local (Drive Mount)	20-HIM-A6	✓	✓	✓	✓	✓	✓
Remote (Panel Mount) LCD Display, Full Numeric Keypad★‡	20-HIM-C3S	✓	✓	✓	✓	✓	
Remote (Panel Mount) LCD Display, Programmer Only★‡	20-HIM-C5S	✓	✓	✓	✓	✓	
Enhanced, LCD, Full Numeric Keypad★‡	20-HIM-C6S	✓	✓	✓	✓	✓	✓

★ IP66, NEMA Type 4X/12—for indoor use only.

‡ Includes a 1202-C30 interface cable (3 m/9.8 ft) for connection to drive.

Human Interface Module (HIM) Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Bezel Kit for LCD HIMs, NEMA Type 1‡	20-HIM-B1	✓	✓	✓	✓	✓	✓
PowerFlex HIM Interface Cable, 1 m (3.3 ft) ♣	20-HIM-H10	✓	✓	✓	✓	✓	✓
Comm Option Cable Kit (Male-Male)							
0.33 m (1.1 ft)	1202-C03	✓	✓	✓	✓	✓	✓
1 m (3.3 ft)	1202-C10	✓	✓	✓	✓	✓	✓
3 m (9.8 ft)	1202-C30	✓	✓	✓	✓	✓	✓
9 m (29.5 ft)	1202-C90	✓	✓	✓	✓	✓	✓
Cable Kit (Male-Female) △							
0.33 m (1.1 ft)	1202-H03	✓	✓	✓	✓	✓	✓
1 m (3.3 ft)	1202-H10	✓	✓	✓	✓	✓	✓
3 m (9.8 ft)	1202-H30	✓	✓	✓	✓	✓	✓
9 m (29.5 ft)	1202-H90	✓	✓	✓	✓	✓	✓
DPI™ Cable Kit with Connectors, Tools and 100 m (328 ft) Cable	1202-CBL-KIT-100M	✓	✓	✓	✓	✓	✓
DPI Cable Connector Kit	1202-TB-KIT-SET	✓	✓	✓	✓	✓	✓
DPI/SCANport™ One to Two Port Splitter Cable	1203-S03	✓	✓	✓	✓	✓	✓

‡ Includes a 1202-C30 interface cable (3 m/9.8 ft) for connection to drive.

♣ Required only when HIM is used as handheld or remote.

△ Required in addition to 20-HIM-H10 for distances up to a total maximum of 10 m (32.8 ft).

Communication Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
BACnet/IP Option Module	20-750-BNETIP						✓
BACnet® MS/TP RS485 Communication Adapter	20-COMM-B	✓	✓	✓			
Coaxial ControlNet™ Option Module	20-750-CNETC						✓
ControlNet™ Communication Adapter (Coax)	20-COMM-C	✓	✓	✓	✓	✓	✓ §
DeviceNet™ Option Module	20-750-DNET						✓
DeviceNet™ Communication Adapter	20-COMM-D	✓	✓	✓	✓	✓	✓ §
Dual-port EtherNet/IP Option Module	20-750-ENETR						✓
EtherNet/IP™ Communication Adapter	20-COMM-E	✓	✓	✓	✓	✓	✓ §
Dual-port EtherNet/IP™ Communication Adapter	20-COMM-ER	✓	✓	✓	✓	✓	
HVAC Communication Adapter	20-COMM-H	✓	✓	✓	✓♣	✓	✓ §
CANopen® Communication Adapter	20-COMM-K	✓	✓	✓	✓	✓	✓ §
LonWorks® Communication Adapter	20-COMM-L	✓	✓	✓			✓ §
Modbus/TCP Communication Adapter	20-COMM-M	✓	✓	✓	✓	✓	✓ §
Profibus DPV1 Option Module	20-750-PBUS						✓
Single-port Profinet I/O Option Module	20-750-PNET						✓
Dual-port Profinet I/O Option Module	20-750-PNET2P						✓
PROFIBUS™ DP Communication Adapter	20-COMM-P	✓	✓	✓	✓	✓	✓ §
ControlNet™ Communication Adapter (Fiber)	20-COMM-Q	✓	✓	✓	✓	✓	✓ §
Remote I/O Communication Adapter Δ	20-COMM-R	✓	✓	✓	✓	✓	✓ §
RS485 DF1 Communication Adapter	20-COMM-S	✓	✓	✓	✓	✓	✓ §
External Communications Kit Power Supply	20-XCOMM-AC-PS1	✓	✓	✓	✓	✓	✓
DPI External Communications Kit	20-XCOMM-DC-BASE	✓	✓	✓	✓	✓	✓
External DPI I/O Option Board ♦	20-XCOMM-IO-OPT1	✓	✓	✓	✓	✓	✓
Compact I/O Module (3 Channel)	1769-SM1	✓	✓	✓	✓	✓	✓
DriveLogix ControlNet Communication Adapter (Coax) ‡	1788-CNC				✓	✓▽	
DriveLogix Comm Option, ControlNet Redundant (Coax) ‡	1788-CNCR				✓	✓▽	
DriveLogix Comm Option, ControlNet (Fiber) ‡	1788-CNF				✓	✓▽	
DriveLogix Comm Option, ControlNet Redundant (Fiber) ‡	1788-CNFR				✓	✓▽	
DriveLogix Comm Option, DeviceNet (Open Conn.) ‡	1788-DNBO				✓	✓▽	
DriveLogix Comm Option, EtherNet/IP (Twisted Pair) ‡	1788-ENBT				✓	✓▽	
DriveLogix5730 Comm Option, Embedded EtherNet/IP	20D-DL2-ENETO				✓	✓▽	

♦ For use only with DPI External Communications Kits 20-XCOMM-DC-BASE.

♣ Only Modbus RTU can be used.

‡ For use with DriveLogix option only. Requires Logix Expansion Board (20D-DL2-LEB0).

§ Requires a Communication Carrier Card (20-750-20COMM or 20-750-20COMM-F1). Refer to PowerFlex 750-Series Legacy Communication Compatibility for details.

▽ When using a PowerFlex 700S control.

Δ This item has Silver Series status.

PowerFlex 750-Series Legacy Communication Compatibility

Most legacy communication adapters (20-COMM) can be used with the PowerFlex 753/755. However, the restrictions stated below do apply.

Frame 1 - It is recommended that the 20-750-20COMM-F1 Communication Carrier Card only be installed in Port 4. Port 5 will not be accessible when this module is installed.

Frames 2 and larger - It is recommended that the 20-750-20COMM Communication Carrier Card be installed in Port 6. Using Port 4 or 5 will make the adjacent left port inaccessible to other option modules and may interfere with network cable connections.

PowerFlex 750-Series Legacy Communication Compatibility (continued)

Adapter		Accesses Ports 0...6 for I/O Connections (Implicit and Explicit Messaging)	Accesses Ports 7 and Higher (I/O, Explicit Messaging)	Supports Drive Add-on Profiles	Supports Asian- Languages ♦
Cat. No.	Type				
20-COMM-B	BACnet MS/TP	Not Compatible			
20-COMM-C	ControlNet (Coax)	✓ v3.001 ♣	✓ v3.001 ♣	✓ ♣	✓ v3.001 ♣
20-COMM-D	DeviceNet	✓ ‡	Not Compatible		
20-COMM-E	EtherNet/IP	✓ v4.001 ♣	✓ v4.001 ♣	✓ ♣	✓ v4.001 ♣
20-COMM-H	RS-485 HVAC	✓ v2.009 § ♣	Not Compatible		
20-COMM-K	CANopen	✓ v1.001 ♣			
20-COMM-L	LonWorks	✓ v1.007 ♣			
20-COMM-M	Modbus/TCP	✓ v2.001 ♣	✓ v2.001 ♣	Not Compatible	✓ v2.001 ♣
20-COMM-P	ControlNet (Fiber)	✓ v1.006 ♣	✓ v1.006 ♣		Not Compatible
20-COMM-Q	PROFIBUS DP	✓ v3.001 ♣	✓ v3.001 ♣	✓ ♣	✓ v3.001 ♣
20-COMM-R Δ	Remote I/O	✓ ‡	Not Compatible		
20-COMM-S	RS-485 DF1	✓ ‡			

- Δ This item has Silver Series status.
- ‡ Controller must be capable of reading/writing 32-bit floating point (REAL) values.
- § Supports all three modes of operation (RTU, P1, N2).
- ♣ Requires this adapter firmware version or higher.
- ♠ Requires firmware version v1.05 or higher of the drive Add-on Profiles for Studio 5000 Logix Designer software.
- ♦ Chinese, Japanese, and Korean languages are supported at the time of publication.

Communication Accessories

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Serial Null Modem Adapter	1203-SNM	✓	✓	✓	✓	✓	✓
Smart Self-powered Serial Converter (RS232) includes 1203-SFC and 1202-C10 Cables	1203-SSS	✓	✓	✓	✓	✓	✓
Universal Serial Bus™ (USB) Converter includes 2m USB, 20-HIM-H10 and 22-HIM-H10 Cables	1203-USB	✓	✓	✓	✓	✓	✓
ControlNet T-tap straight	1786-TPS						✓
ControlNet T-tap right angle	1786-TPR				✓	✓	
Communication Carrier Card for PowerFlex 750-Series Frame 1 drives	20-750-20COMM-F1						✓
Communication Carrier Card for PowerFlex 750-Series Frame 2 or higher drives	20-750-20COMM						✓

I/O Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
24V DC Digital Inputs (6) with Analog I/O (4), Slot A ♣	20C-DA1-A			✓			
115V AC Digital Inputs (6) with Analog I/O (4), Slot A ♣	20C-DA1-B			✓			
115V AC Digital Outputs (3), Slot B ♣	20C-DO1			✓			
ATEX Option Module with 1 Thermosensor Input Connection (requires 11-Series I/O Module below)	20-750-ATEX						✓ §
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132C-2R						✓ §
24V DC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In, 1 Relay and 2 Transistor Outputs	20-750-1133C-1R2T						✓ §
115V AC 11-Series I/O Module with 1 Analog In, 1 Analog Out, 3 Digital In and 2 Relay Outputs	20-750-1132D-2R						✓ §
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262C-2R						✓ §
115V AC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In and 2 Relay Outputs	20-750-2262D-2R						✓ §
24V DC 22-Series I/O Module with 2 Analog In, 2 Analog Out, 6 Digital In, 3 Digital Out, 1 Relay and 2 Transistor Outputs	20-750-2263C-1R2T						✓ §

- ♣ Only one card allowed per slot.
- § I/O option kits are not allowed in CIP motion mode.

Safety Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
DriveGuard Safe Torque-Off	20A-DG01	✓					
DriveGuard Safe Torque-Off with 2nd Encoder	20D-P2-DG01				✓	✓▽	
Safe Torque-Off (ATEX capable) ▲	20C-DG1			✓			
Safe Torque-Off	20-750-S						✓★
Safe Speed Monitor	20-750-S1						✓★‡

▲ Only one card allowed per slot.

▽ When using PowerFlex 700S control. This option kit cannot be used on Frame 2 drives, however it is available as a factory installed option.

‡ Requires the Dual Incremental Encoder or Universal Feedback Option. Also requires the 20-750-EMCSSM1-F8 EMC Option Kit with Frame 8...9 drives.

★ Drive can accommodate only one option.

Feedback Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
5V/12V Encoder &	20A-ENC-1	✓					
12V/5V Encoder	20B-ENC-1		✓ #			✓ #	
Multi-Device Interface ♦	20D-MDI-C2				✓	✓▽	
2nd Encoder, 5V/12V ♦	20D-P2-ENCO				✓	✓▽	
Resolver ♦	20D-RES-A1				✓	✓▽	
Stegmann High Resolution Hyperface Encoder ♦	20D-STEG-B1				✓	✓▽	
Heidenhain High Resolution EnDat Encoder	20D-HEID-DO				✓	✓▽	
Incremental Encoder	20-750-ENC-1						✓▲
Dual Incremental Encoder	20-750-DENC-1						✓▲
Universal Feedback (includes Stegmann, Heidenhain, SSI, Biss, 5V Incremental)	20-750-UFB-1						✓★

& Works only with PowerFlex 70 Enhanced Control.

♦ Requires Expanded Cassette

When using a PowerFlex 700 with Vector Control.

★ PowerFlex 755 only.

▽ When using a PowerFlex 700S control.

▲ Homing and registration functions are not supported when using this device with Studio 5000 Logix Designer embedded motion instructions. To use these functions, the Universal Feedback Board (20-750-UFB-1) must be used.

PowerFlex 700 Control Option Kits

Control with I/O	Factory Installed Cat. Code #	Cat. No.	Used with PowerFlex Drive					
			70	700	700H	700S	700L	753/755
Vector Control - 24V DC with: ▽								
60 Hz Maximum	NNAD	20B-VECT-COAD		✓				
82 Hz Maximum	NNAX	20B-VECTB-COAX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-COAE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECTB-COBA		✓				
Vector Control - 115V AC ▽								
Vector Control - 115V AC with: ▽								
60 Hz Maximum	NNAD	20B-VECT-DOAD		✓				
82 Hz Maximum	NNAX	20B-VECTB-DOAX		✓				
Cascading Fan/Pump Control	NNAE	20B-VECT-DOAE		✓				
Pump Off (for Pump Jack)	NNBA	20B-VECT-DOBA		✓				

▽ Vector Control option utilizes DPI Only.

This code is entered at the end of the drive catalog number (positions 17...20).

& This code is entered at position 15 of the drive catalog number.

PowerFlex 750-Series Option Kits

	Description	Frame	Cat. No.	Used with PowerFlex Drive					
				70	700	700H	700S	700L	753/755
Auxiliary Power Supply	24V Aux Power Supply	1...7 Δ	20-750-APS						✓
DC Bus Bar Option Kit	DC Bus Bars for 380...480V AC drives	6	20-750-DCBB1-F6						✓
		7	20-750-DCBB1-F7						✓
	DC Bus Bars for 600...690V AC drives	6	20-750-DCBB2-F6						✓
		7	20-750-DCBB2-F7						✓
DC Bus Connection Kit	Connects the drive DC bus terminals to the cabinet bus rails.	8...10	20-750-BUS1A-F8						✓
EMC Option Kit	EMC Plate with Core for 380...480V AC drives	1	20-750-EMC1-F1						✓
		2	20-750-EMC1-F2						✓
		3	20-750-EMC1-F3						✓
	EMC Plate with Core for 600V AC drives	3	20-750-EMC3-F3						✓
	EMC Plate with Cores for 380...480V AC drives	4	20-750-EMC1-F4						✓
		5	20-750-EMC1-F5						✓
	EMC Plate with Cores for 600V AC drives	4	20-750-EMC3-F4						✓
		5	20-750-EMC3-F5						✓
	EMC Core for 380...480V AC drives	1	20-750-EMC2-F1						✓
		2	20-750-EMC2-F2						✓
		3	20-750-EMC2-F3						✓
	EMC Core for 600V AC drives	3	20-750-EMC4-F3						✓
	EMC Cores for 380...480V AC drives	4...5	20-750-EMC2-F45						✓
		EMC Cores for 600V AC drives	4	20-750-EMC4-F4					
			5	20-750-EMC4-F5					
	EMC Plate with Cores for 600...690V AC drives	6	20-750-EMC3-F6						✓
		7	20-750-EMC3-F7						✓
	EMC Plate with Cores for 600...690V AC drives (IP54 Only)	6	20-750-EMC5-F6						✓
		7	20-750-EMC5-F7						✓
	EMC Core – Inverter-mounted output, for 380...690V AC input and DC input drives.	8...10	20-750-EMCCM1-F8						✓
EMC Core – Cabinet-mounted input, for 380...690V Common DC Input drives only.	8...10	20-750-CBPEMCCM1-F8						✓	
EMC Core – Cabinet-mounted input, for 380...690V AC input drives only.	8...10	20-750-EMCCM1-F9						✓	
EMC Cores – Required when using the Safe Speed Monitor option 20-750-S1 with 380...690V drives.	8...10	20-750-EMCSSM1-F8						✓	
Door Shielding Kit		10	20-750-EMCDK1-F10						✓
Exhaust Hood	Exhaust Hood – IP20, NEMA/UL Type 1 drives.	8	20-750-HOOD1-F8						✓
Flange Adapter Kit	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 1 integrity backside. This kit is for use with IP20, NEMA/UL Type 0 drives and will not provide an air-tight or water-tight seal. Where sealing is required (e.g. contaminated, dirty or wet environments), a drive with an "F" enclosure option must be used.	2	20-750-FLNG1-F2						✓
		3	20-750-FLNG1-F3						✓
		4	20-750-FLNG1-F4						✓
		5	20-750-FLNG1-F5						✓
	Converts Open Type drive to external heatsink (flange) with NEMA/UL Type 4X/12 integrity backside.	6	20-750-FLNG4-F6						✓
		7	20-750-FLNG4-F7						✓
L Bus Bar Kit	Includes three L-brackets	8...10	20-750-LBRKT1						✓
NEMA/UL Type 1 Option Kit	NEMA/UL Type 1 Kit	1	20-750-NEMA1-F1						✓
		2	20-750-NEMA1-F2						✓
		3	20-750-NEMA1-F3						✓
		4	20-750-NEMA1-F4						✓
		5	20-750-NEMA1-F5						✓
		6	20-750-NEMA1-F6						✓
		7	20-750-NEMA1-F7						✓
Power Terminal Extension	Allows connection of two parallel leads to the AC terminals.	6	20-750-ACTE1-F6						✓

continued

PowerFlex 750-Series Option Kits (continued)

Description	Frame	Cat. No.	Used with PowerFlex Drive						
			70	700	700H	700S	700L	753/755	
Power Terminal Guard	Provides additional protection against contact with the power terminals.	6	20-750-PTG1-F6						✓
		7	20-750-PTG1-F7						✓
Remote Control POD Mounting Kit	Hardware, fiber-optic, and power supply cables to remotely mount the control POD up to 23 m (75 ft) from the drive.	8...10	20-750-RPD1-F8						✓
Roll-Out Cart	A wheeled roll-out cart that facilitates drive installation and removal. Required for Frame 8 and larger drives.	8...10	20-750-CART1-F8						✓

△ Frame 8 and up drives can be powered from an external 24V DC source, a 20-750-APS is not required.

Other Options

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
115V AC Interface	AK-M9-115VAC-1	✓					
Frame E Flange Gasket	AK-M9-GASKET1-E4	✓					
Service Connection Board ★	SK-M9-SCB1	✓					
Removable I/O Terminal Block	SK-G9-TB1-S1		✓				
Removable Encoder Terminal Block	SK-G9-TB1-ENC1		✓				
Touch Cover - Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. No wiring space provided.	20-OPT-TC			✓			
Top Hat - Converts IP00/Open Type drive to IP20/NEMA/UL Type 1. Allows for wiring space.	20-OPT-TH			✓			
Auxiliary Control Power Supply	20-24V-AUX1				✓		
PowerFlex 700S Phase II Control with Expanded Cassette	20D-P2-CKE1				✓	✓ ▽	
PowerFlex 700S Phase II Control with Slim Cassette	20D-P2-CKS1				✓		
PowerFlex 700S DriveLogix5730 Phase II Control with Expanded Cassette	20D-DL2-CKE1				✓	✓ ▽	
PowerFlex 700S DriveLogix5730 Phase II Control with Slim Cassette	20D-DL2-CKS1				✓		

★ Provides temporary DPI/HIM connection for NEMA/UL Type 1 and Flange drives with cover removed.

▽ When using PowerFlex 700S control and Expanded Cassette.

SynchLink Accessories

Description ★	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
SynchLink Board	20D-P2-SLB0				✓	✓ ▽	
SynchLink Fiber Base Block	1751-SLBA				✓	✓ ▽	
SynchLink 4-port Fiber Splitter Block	1751-SL4SP				✓	✓ ▽	
SynchLink Fiber Bypass Switch Block	1751-SLBP				✓	✓ ▽	
2x3 Meter Fiber Link for Power Monitor/SynchLink	1403-CF003				✓	✓ ▽	
2x5 Meter Fiber Link for Power Monitor/SynchLink	1403-CF005				✓	✓ ▽	
10 Meter Fiber Link for Power Monitor/SynchLink	1403-CF010				✓	✓ ▽	

★ Refer to publication number 1769-SG001 for details on SynchLink.

▽ When using PowerFlex 700S control.

DriveLogix Option Kits

Description	Cat. No.	Used with PowerFlex Drive					
		70	700	700H	700S	700L	753/755
Logix Expansion board for DriveLogix5730 ♦	20D-DL2-LEB0				✓	✓ ▽	
Industrial Compact Flash 64 MB Memory Card for DriveLogix5730	1784-CF64				✓	✓ ▽	

♦ Requires Expanded Cassette.

▽ When using PowerFlex 700S control.