

Product Details and Certifications

Cross Reference RA Part Number: PN-421137

Product: **20F11RD2P1AA0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type/Frame 1, 2.1 Amps, (Fr1 1HP ND, 0.5HP HD/Fr2 1HP ND, 1HP HD), 480 VAC, 3 PH, Frame 1, Filtered, CM Jumper Removed, DB Transistor, Blank (No HIM)

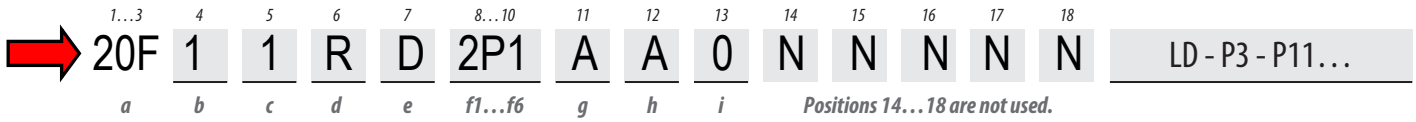


Representative Photo Only (actual product may vary based on configuration sections)

BASE DRIVE INFORMATION

Bulletin Number	PowerFlex 753 AC Drive, with Embedded I/O
Input Voltage	480 VAC 60Hz
Phases	3 Phases
Output Current	2.1 Amps
Normal Duty HP	Fr1 1HP ND / Fr2 1HP ND
Heavy Duty HP	Fr1 0.5HP HD/ Fr2 1HP HD
Enclosure	Open Type/Frame 1
Input Type	AC Input with DC Terminals
Frame Size	Frame 1
Filtering & CM Cap Config	Filtered, CM Jumper Removed
Dynamic Braking	DB Transistor
HIM	Blank (No HIM)

Catalog Number Explanation



a

Drive		
Code	Type	Frames
20F	PowerFlex® 753	1...7
20G	PowerFlex 755	1...10
21G	PowerFlex 755 Drive with Options	8...10

b

Future Use		
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c

Input Type		
Code	Description	Frames
1	AC Input with Precharge, includes DC Terminals	1...5 8...10
4	DC Input with Precharge	5...10
A	AC Input with Precharge, no DC Terminals	6...8 ⁽¹⁾

(1) The DC Bus Bar kit (20-750-DCBB1-Fx) is available for Frames 6...7 AC input drives that require DC bus terminals.

d

Enclosure		
Code	Description	Frames
R	IP20, NEMA/UL Type Open, Frame 1	1
F ⁽¹⁾	Flange (NEMA/UL Type 4X/12 back)	2...5
G	IP54, NEMA/UL Type 12	2...7
N ⁽²⁾	IP20/IP00, NEMA/UL Type Open	2...7
B ⁽³⁾	IP20, NEMA/UL Type 1, 600 mm (23.6 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
J ⁽³⁾	IP54, UL Type 12, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
K ⁽³⁾	IP54, NEMA 12, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
L ⁽³⁾	IP20, NEMA/UL Type 1, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
P ⁽³⁾	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
W ⁽³⁾	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CenterLine 2100 Gray (ASA49)	8...10
Y ⁽³⁾	IP54, NEMA 12, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CenterLine 2100 Gray (ASA49)	8...10
T	IP00, UL Open Type without Control POD	8...10

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Frames 2...5 are IP20, Frames 6...7 are IP00.
- (3) Available as a drive with options (21G).

e

Voltage Rating	
Code	Voltage
B	240V AC (208V AC) ⁽¹⁾ /325V DC (281V DC) ⁽¹⁾
C	400V AC/540V DC
D	480V AC/650V DC
E	600V AC/810V DC
F	690V AC/932V DC (not UL Listed)

(1) Drive must be programmed to obtain low (208V AC) voltage rating.

f1

ND Rating									
208V ⁽¹⁾ , 60 Hz Input									
Code	Amps	kW	Frame						
			B, J, L, T	F	G	N	K, P, W, Y	R	
2P2	2.5	0.37							
4P2	4.8	0.75							
6P8	7.8	1.5							
9P6	11	2.2							
015	15.3	4							
2P2	2.5	0.37							
4P2	4.8	0.75							
6P8	7.8	1.5							
9P6	11	2.2							
015	17.5	4							
022	22	5.5							
028	32.2	7.5							
042	43	11							
054	60	15							
070	78.2	18.2							
080	92	22							
104	120	30							
130	150	37							
154	177	45							
192	221	55							
260	260	66							
312	359	90							
360	414	110							
477	477	132							

- (1) Drive must be programmed to obtain low (208VAC) voltage rating.
- (2) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

f2

ND Rating								
240V, 60 Hz Input								
Code	Amps	Hp	Frame					
			B, J, L, T	F	G	N	K, P, W, Y	R
2P2	2.2	0.5						
4P2	4.2	1						
6P8	6.8	2						
9P6	9.6	3						
015	15.3	5						
2P2	2.2	0.5						
4P2	4.2	1						
6P8	6.8	2						
9P6	9.6	3						
015	15.3	5						
022	22	7.5						
028	28	10						
042	42	15						
054	54	20						
070	70	25						
080	80	30						
104	104	40						
130	130	50						
154	154	60						
192	192	75						
260	260	100						
312	312	125						
360	360	150						
477	477	200						

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.



1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18
20F 1 1 R D 2P1 A A 0 N N N N N LD - P3 - P11...
a b c d e f1...f6 g h i Positions 14...18 are not used.

ND Rating			Frame					
400V, 50 Hz Input			Enclosure Code					
Code	Amps	kW	B, J, L, T	F	G	N	K, P, W, Y	R
2P1	2.1	0.75						1
3P5	3.5	1.5						
5P0	5.0	2.2						
8P7	8.7	4		2	2	2		
011	11.5	5.5						
015	15.4	7.5						
022	22	11						
030	30	15						
037	37	18.5		3	3	3		
043	43	22						
060	60	30		4	4	4		
072	72	37			5			
085	85	45		5		5		
104	104	55						
140	140	75			6			
170	170	90				6		
205	205	110						
260	260	132		(1)				
302	302	160			7	7		
367	367	200						
456	456	250						
460	460	250	8	-	-	-	8 ⁽²⁾	
477	477	270	-	(1)	-	7	-	
540	540	315						
567	567	315						
650	650	355	8				8 ⁽²⁾	
750	750	400						
770	770	400						
910	910	500						
1K0	1040	560						
1K1	1090	630						
1K2	1175	710	9				9 ⁽²⁾	
1K4	1465	800						
1K5	1480	850						
1K6	1590	900	10				10 ⁽²⁾	
2K1	2150	1250						


- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

ND Rating			Frame					
480V, 60 Hz Input			Enclosure Code					
Code	Amps	Hp	B, J, L, T	F	G	N	K, P, W, Y	R
2P1	2.1	1						
3P4	3.4	2						
5P0	5.0	3						
8P0	8.0	5						
011	11	7.5						
014	14	10						
022	22	15						
027	27	20						
034	34	25		3	3	3		
040	40	30						
052	52	40		4	4	4		
065	65	50			5			
077	77	60		5		5		
096	96	75						
125	125	100			6			
156	156	125				6		
186	186	150						
248	248	200		(1)				
302	302	250			7	7		
361	361	300						
415	415	350						
430	430	350	8	-	-	-	8 ⁽²⁾	
477	477	400	-	(1)	-	7	-	
485	485	400						
545	545	450						
617	617	500	8				8 ⁽²⁾	
710	710	600						
740	740	650						
800	800	700						
960	960	800						
1K0	1045	900	9				9 ⁽²⁾	
1K2	1135	1000						
1K3	1365	1100						
1K4	1420	1250						
1K5	1525	1350	10				10 ⁽²⁾	
2K0	2070	1750						

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

ND Rating			Frame					
600V, 60 Hz Input			Enclosure Code					
Code	Amps	Hp	B, J, L, T	F	G	N	K, P, W, Y	R
1P7	1.7	1						
2P7	2.7	2						
3P9	3.9	3						
6P1	6.1	5						
9P0	9	7.5						
011	11	10						
012 ⁽¹⁾	12	10						
017	17	15						
018 ⁽¹⁾	18	15						
022	22	20						
023 ⁽¹⁾	23	20						
024 ⁽¹⁾	24	20						
027	27	25						
028 ⁽¹⁾	28	25						
032	32	30						
033 ⁽¹⁾	33	30						
041	41	40						
042 ⁽¹⁾	42	40						
052	52	50						
053 ⁽¹⁾	53	50						
063	63	60						
077	77	75						
099	99	100						
125	125	125						
144	144	150						
192	192	200						
242	242	250						
289	289	300						
295	295	300						
355	355	350						
395	395	400						
435	435	450						
460	460	500						
510	510	500						
595	595	600						
630	630	700						
760	760	800						
825	825	900						
900	900	950						
980	980	1000						
1K1	1110	1100						
1K4	1430	1400						

- (1) Required for uncontrolled common DC bus applications. Optional for all AC applications.
- (2) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (3) Available as a drive with options (21G).


20F 1 1 R D 2P1 A A 0 N N N N N
LD - P3 - P11...

1...3
4
5
6
7
8...10
11
12
13
14
15
16
17
18

a
b
c
d
e
f1...f6
g
h
i
Positions 14...18 are not used.

ND Rating				690V, 50 Hz Input (not UL Listed)														
Code	Amps	kW	Frame															
			Enclosure Code															
			B, J, L, T	F	G	N	K, P, W, Y	R										
012	12	7.5																
015	15	11																
020	20	15																
023	23	18.5																
030	30	22																
034	34	30																
046	46	37																
050	50	45																
061	61	55																
082	82	75																
098	98	90																
119	119	110																
142	142	132																
171	171	160																
212	212	200																
263	263	250																
265	265	250																
330	330	315																
370	370	355																
415	415	400																
460	460	450																
500	500	500																
590	590	560																
650	650	630																
710	710	710																
765	765	750																
795	795	800																
960	960	900																
1K0	1040	1000																
1K4	1400	1400																

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

Door Mounted HIM (Frames 8...10)	
Code	Operator Interface
0	No Door Mounted HIM
2	Enhanced LCD, Full Numeric, IP20
4	Enhanced LCD, Full Numeric, IP66 NEMA Type 4X/12

PowerFlex 755 w/Options (21G)
Required Selections

Code	Option	Frames	Type
LD	Light Duty	8...10	System Overload Duty Cycle ⁽¹⁾
ND	Normal Duty		
HD	Heavy Duty		
P3	Input Thermal-magnetic Circuit Breaker	8...10	Power Disconnect ⁽¹⁾
P5	Input Non-Fused Molded Case Disconnect Switch	8 Only	
P14	Wiring Only Bay	8...10	Wiring Only Bay

(1) Only one option of this type can be selected.

PowerFlex 755 w/Options (21G)
Additional Selections

Code	Option	Frames	Type
P11	Input Contactor	8 Only	Contactors ⁽¹⁾⁽²⁾
P12	Output Contactor		
L1	3% Input Reactor	8...9	Reactors ⁽¹⁾
L2	3% Output Reactor		
L3	5% Input Reactor		
L4	5% Output Reactor		
P20	1200 A Bus	8...10	MCC Power Bus Capacity ⁽¹⁾
P22	2000 A Bus		
P24	3000 A Bus		
P30	UPS Control Bus, DC Input w/Precharge only	8...10	UPS Control Bus
X1	Auxiliary Transformer (500VA available), IP20 Cabinet Only	8 Only ⁽³⁾	Auxiliary Power

- (1) Only one option of this type can be selected.
- (2) Contactor options are not available for systems with MCC power bus.
- (3) Standard on all other cabinet configurations.

g

Filtering and CM Cap Configuration		
Code	Filtering	Default CM Cap Connection
A	Yes	Jumper Removed
J	Yes	Jumper Installed

h

Dynamic Braking ⁽¹⁾		
Code	Internal Resistor ⁽²⁾	Internal Transistor ⁽³⁾
A	No	Yes
N	No	No

- (1) Not available on Frames 8...10, specify Code 'N'.
- (2) Frames 1...2 only. Internal Resistor kits (20-750-DB1-Dx) sold separately.
- (3) Standard on Frames 1...5, optional on 6...7.