


# Product Details and Certifications

Cross Reference RA Part Number: **PN-411318**

 **Product: 20F11RD014JA0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type, 14 Amps, 10HP ND, 7.5HP HD, 480 VAC, 3 PH, Frame 2, Filtered, CM Jumper Installed, DB Transistor, Blank (No HIM)



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

## **BASE DRIVE INFORMATION**

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### BULLETIN NUMBER

PowerFlex 753 AC Drive, with Embedded I/O

### VOLTAGE CLASS

480 VAC, 3 PH

### OUTPUT CURRENT

14 Amps, 10HP ND, 7.5HP HD

### ENCLOSURE TYPE

Open Type/Frame 1

### INPUT TYPE

AC Input with DC Terminals

### FRAME SIZE

Frame 1

### EMC FILTERING OPTIONS

Filtered, CM Jumper Installed

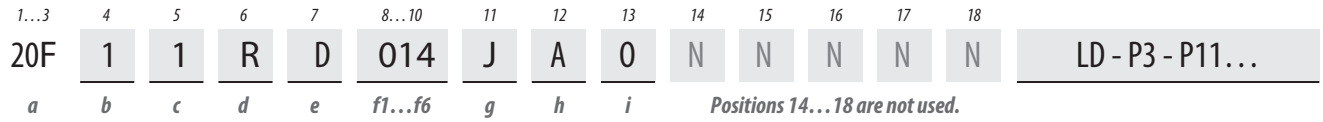
### DYNAMIC BRAKING

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		

**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 <sup>(1)</sup>

(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 <sup>(1)</sup>	Flange (NEMA/UL Type 4X/12 back)	2...5
G	IP54, NEMA/UL Type 12	2...7
N <sup>(2)</sup>	IP20/IP00, NEMA/UL Type Open	2...7
B <sup>(3)</sup>	IP20, NEMA/UL Type 1, 600 mm (23.6 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
J <sup>(3)</sup>	IP54, UL Type 12, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
K <sup>(3)</sup>	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 <sup>(3)</sup>	IP20, NEMA/UL Type 1, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
P <sup>(3)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup>	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) <sup>(1)</sup> /325V DC (281V DC) <sup>(1)</sup>
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 <sup>(1)</sup> , 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    N    D    014    J    A    O    N    N    N    N    N    LD - P3 - P11...

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

*f3*

ND Rating		400V, 50 Hz Input		Frame					
Code	Amps	kW	Enclosure Code						
			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 <sup>(2)</sup>	-	
477	477	270	-	(1)	-	7	-		
540	540	315							
567	567	315							
650	650	355	8				8 <sup>(2)</sup>		
750	750	400							
770	770	400							
910	910	500							
1K0	1040	560		-	-	-			
1K1	1090	630							
1K2	1175	710	9				9 <sup>(2)</sup>		
1K4	1465	800							
1K5	1480	850							
1K6	1590	900	10				10 <sup>(2)</sup>		
2K1	2150	1250							

*f4*

ND Rating		480V, 60 Hz Input		Frame					
Code	Amps	Hp	Enclosure Code						
			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		2	2	2		1	
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 <sup>(2)</sup>	-	
477	477	400	-	(1)	-	7	-		
485	485	400							
545	545	450							
617	617	500	8				8 <sup>(2)</sup>		
710	710	600							
740	740	650							
800	800	700							
960	960	800		-	-	-			
1K0	1045	900	9				9 <sup>(2)</sup>		
1K2	1135	1000							
1K3	1365	1100							
1K4	1420	1250							
1K5	1525	1350	10				10 <sup>(2)</sup>		
2K0	2070	1750							

*f5*

ND Rating		600V, 60 Hz Input		Frame					
Code	Amps	Hp	Enclosure Code						
			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 <sup>(1)</sup>	12	10		-	6	6			
017	17	15		3	3	3			
018 <sup>(1)</sup>	18	15		-	6	6			
022	22	20		3	3	3			
023 <sup>(1)</sup>	23	20		-	6	6			
024 <sup>(1)</sup>	24	20							
027	27	25		4	4	4			
028 <sup>(1)</sup>	28	25		-	6	6			
032	32	30	-	4	4	4	-		
033 <sup>(1)</sup>	33	30		-	6	6			
041	41	40		5	5	5			
042 <sup>(1)</sup>	42	40		-	6	6			
052	52	50		5	-	5			
053 <sup>(1)</sup>	53	50							
063	63	60							
077	77	75							
099	99	100							
125	125	125		(2)	6	6			
144	144	150							
192	192	200							
242	242	250			7	7			
289	289	300							
295	295	300							
355	355	350							
395	395	400							
435	435	450	8				8 <sup>(3)</sup>		
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	10				10 <sup>(3)</sup>		

- (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).

- (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).

- (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).

1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18  
**20F 1 1 N D 014 J 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.*

f6						
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			6	6
050	50	45				
061	61	55				
082	82	75				
098	98	90		(1)		
119	119	110				
142	142	132				
171	171	160				
212	212	200			7	7
263	263	250				
265	265	250				
330	330	315				
370	370	355				
415	415	400	8			g(2)
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	10			10(2)

- (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 <sup>(1)</sup>
ND	Normal Duty		
HD	Heavy Duty		
P3	Input Thermal-magnetic Circuit Breaker	8...10	Power Disconnect <sup>(1)</sup>
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 <sup>(1)(2)</sup>
P12	Output Contactor		
L1	3% Input Reactor	8...9	Reactors <sup>(1)</sup>
L2	3% Output Reactor		
L3	5% Input Reactor	8 Only	
L4	5% Output Reactor		
P20	1200 A Bus	8...10	MCC Power Bus Capacity <sup>(1)</sup>
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 <sup>(3)</sup>	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 <sup>(1)</sup>		
Code	Internal Resistor <sup>(2)</sup>	Internal Transistor <sup>(3)</sup>
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.