


Product Details and Certifications

Cross Reference RA Part Number: **PN-411273**

 **Product: 20F1AND186JN0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with Precharge, no DC Terminals, Open Type, 186 Amps, 150HP ND, 125HP HD, 480 VAC, 3 PH, Frame 6, Filtered, CM Jumper Installed, None, Blank (No HIM)

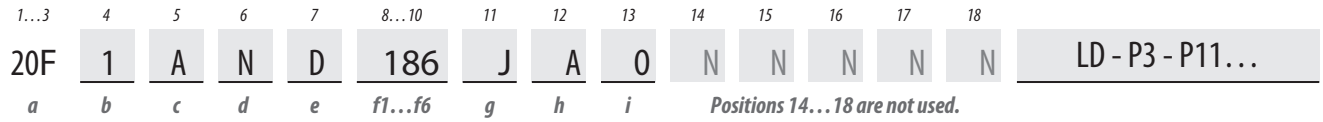


BASE DRIVE INFORMATION

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

Bulletin Number	PowerFlex 753 AC Drive, with Embedded I/O
Input Voltage	480VAC 60Hz
Phases	3 Phases
Current Power Rating	186 Amps, 150HP ND, 125HP HD
Enclosure Type	Open Type
Input Type	AC Input with Precharge, no DC Terminals
Frame Size	Frame 6
Filtering & CM Cap Config	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 ⁽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

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	15.3	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) 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).

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

20F **1** **A** **N** **D** **186** **J** **A** **O** **N** **N** **N** **N** **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							
Code	Amps	kW	Frame				R
			Enclosure Code				
			B, J, L, T	F	G	N	
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	9				9 ⁽²⁾
1K2	1175	710					
1K4	1465	800					
1K5	1480	850					
1K6	1590	900	10				10 ⁽²⁾
2K1	2150	1250					



f4							
ND Rating							
480V, 60 Hz Input							
Code	Amps	Hp	Frame				R
			Enclosure Code				
			B, J, L, T	F	G	N	
2P1	2.1	1					1
3P4	3.4	2					
5P0	5.0	3					
8P0	8.0	5	2	2	2		
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	(1)				
248	248	200					
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					

f5							
ND Rating							
600V, 60 Hz Input							
Code	Amps	Hp	Frame				R
			Enclosure Code				
			B, J, L, T	F	G	N	
1P7	1.7	1					
2P7	2.7	2					
3P9	3.9	3					
6P1	6.1	5	3	3	3		
9P0	9	7.5					
011	11	10					
012 ⁽¹⁾	12	10	-	6	6		
017	17	15	3	3	3		
018 ⁽¹⁾	18	15	-	6	6		
022	22	20	3	3	3		
023 ⁽¹⁾	23	20					
024 ⁽¹⁾	24	20	-	6	6		
027	27	25	4	4	4		
028 ⁽¹⁾	28	25	-	6	6		
032	32	30	4	4	4		
033 ⁽¹⁾	33	30	-	6	6		
041	41	40	5	5	5		
042 ⁽¹⁾	42	40	-	6	6		
052	52	50	5	-	5		
053 ⁽¹⁾	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 ⁽³⁾
460	460	500					
510	510	500					
595	595	600					
630	630	700					
760	760	800					
825	825	900	9				9 ⁽³⁾
900	900	950					
980	980	1000					
1K1	1110	1100					
1K4	1430	1400	10				10 ⁽³⁾

- (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 A N D 186 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.

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
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 ⁽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.