

# Product Details and Certifications

## Cross Reference RA Part Number: PN-61861

 **Product: 20F1AND186AN0NNNNN**

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 Removed, None, 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
Input Voltage	480 VAC 60 Hz
Phases	3 Phases
Normal Duty Output Current Rating	186 Amps
Heavy Duty Output Current Rating	156 Amps
Normal Duty HP	150 HP
Heavy Duty HP	125 HP
Enclosure Type	IP20/IP00, NEMA/UL Type Open
Input Type	AC Input with Precharge, no DC Terminals
Frame Size	Frame 6
Filtering & CM Cap Config	Filtered, CM Jumper Removed
Dynamic Braking	None
HIM	Blank (No HIM)

### Catalog Number Explanation

1...3 **20F**    4 **1**    5 **A**    6 **N**    7 **D**    8...10 **186**    11 **A**    12 **A**    13 **O**    14 **N**    15 **N**    16 **N**    17 **N**    18 **N**    Cabinet Options (21G)

*a*    *b*    *c*    *d*    *e*    *f1...f4*    *g*    *h*    *i*

**a**

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

**e**

Voltage Rating	
Code	Voltage
C	400V AC/540V DC
D	480V AC/650V DC
E	600V AC/810V DC
F	690V AC/932V DC (not UL listed)

**b**

Future Use		
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**e**

Voltage Rating		
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**c**

Input Type		
Code	Description	Frames
1	AC Input with Precharge, includes DC Terminals	1...4, 8...10
	AC Input without Precharge, includes DC Terminals	5
4	DC Input with Precharge	5...10
A	AC Input with Precharge, no DC Terminals	6...8*

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

**f1**

ND Rating								
400V, 50 Hz Input								
Code	Amps	kW	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R

**f2**

ND Rating								
480V, 60 Hz Input								
Code	Amps	Hp	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R

**d**

Enclosure		
Code	Description	Frames
R	IP20, NEMA/UL Type Open, Frame 1	1
F §	Flange (NEMA/UL Type 4X/12 back)	2...5
G	IP54, NEMA/UL Type 12	2...7
N ‡	IP20/IP00, NEMA/UL Type Open	2...7
B Δ	IP20, NEMA/UL Type 1, 600 mm (23.6 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
J Δ	IP54, UL Type 12, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
K Δ	IP54, NEMA 12, 2500 MCC Style Cabinet & Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
L Δ	IP20, NEMA/UL Type 1, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
P Δ	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet & Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032)	8...10
W Δ	IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet & Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CenterLine 2100 Gray (ASA49)	8...10
Y Δ	IP54, NEMA 12, 2500 MCC Style Cabinet & 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

§ For Frames 6...7 a User Installed Flange Kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.  
 ‡ Frames 2...5 are IP20, Frames 6...7 are IP00.  
 Δ Available as a drive with options (21G).

**f1**

Code	Amps	kW	Frame					
			Enclosure Code					
			B, J, L, T	F	G	N	K, P, W, Y	R
2P1	2.1	0.75						
3P5	3.5	1.5						
5P0	5.0	2.2						
8P7	8.7	4		2	2	2		1
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						
085	85	45						
104	104	55		5		5		
140	140	75						
170	170	90			6			
205	205	110				6		
260	260	132		§				
302	302	160						
367	367	200			7			
456	456	250						
460	460	250						
540	540	315						
567	567	315						
650	650	355		8				8 Δ
750	750	400						
770	770	400						
910	910	500						
1K0	1040	560						
1K1	1090	630						
1K2	1175	710						
1K4	1465	800						
1K5	1480	850						
1K6	1590	900						
2K1	2150	1250		10				10 Δ

§ For Frames 6...7 a User Installed Flange Kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.  
 Δ Available as a drive with options (21G).

**f2**

Code	Amps	Hp	Frame					
			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						
077	77	60		5		5		
096	96	75						
125	125	100						
156	156	125				6		
186	186	150						
248	248	200		§				
302	302	250						
361	361	300			7			
415	415	350						
430	430	350						
485	485	400						
545	545	450						
617	617	500		8				8 Δ
710	710	600						
740	740	650						
800	800	700						
960	960	800						
1K0	1045	900						
1K2	1135	1000						
1K3	1365	1100						
1K4	1420	1250						
1K5	1525	1350						
2K0	2070	1750		10				10 Δ

§ For Frames 6...7 a User Installed Flange Kit is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.  
 Δ Available as a drive with options (21G).

*f3*

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		3	3	3			
9P0	9	7.5							
011	11	10							
012	12	10		-	6	6			
017	17	15		3	3	3			
018	18	15		-	6	6			
022	22	20		3	3	3			
023	23	20							
024	24	20		-	6	6			
027	27	25		4	4	4			
028	28	25		-	6	6			
032	32	30		4	4	4			
033	33	30		-	6	6			
041	41	40		5	5	5			
042	42	40		-	6	6			
052	52	50		5	-	5			
053	53	50							
063	63	60							
077	77	75							
099	99	100			6	6			
125	125	125							
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							
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							

△ Available as a drive with options (21G).

*f4*

ND Rating			Frame						
690V, 50 Hz Input (not UL listed)			Enclosure Code						
Code	Amps	kW	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							

△ Available as a drive with options (21G).

*g*

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

♦ 480V drives must select code "A." Jumpers are included for field reconfiguration as desired.

*h*

Dynamic Braking &		
Code	Internal Resistor ▲	Internal Transistor ▽
A	No	Yes
N	No	No

▲ Frames 1...2 only.  
 ▽ Standard on Frames 1...5, optional on 6...7.  
 & Not available on Frames 8...10, specify Code "N."

*i*

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 *
ND	Normal Duty		
HD	Heavy Duty		
P3	Input Thermal Magnetic Circuit Breaker	8...10	Power Disconnect *
P5	Input Non-Fused Molded Case Disconnect Switch	8 Only	
P14	Wiring Only Bay	8...10	Wiring Only Bay

\* Only one option of this type may be selected.

PowerFlex 755 w/Options (21G) - Additional Selections

Code	Option	Frames	Type
P11	Input Contactor	8 Only	Contactors * §
P12	Output Contactor		
L1	3% Input Reactor	8...9	Reactors *
L2	3% Output Reactor		
L3	5% Input Reactor		
L4	5% Output Reactor		
P20	1200 Amp Bus	8...10	MCC Power Bus Capacity *
P22	2000 Amp Bus		
P24	3000 Amp 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	Auxiliary Power

\* Only one option of this type may be selected.  
 § Contactor options are not available for systems with MCC power bus.