

# Product Details and Certifications

## Cross Reference RA Part Number: PN-61477

 **Product: 20F1AND248AN0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with Precharge, no DC Terminals, Open Type, 248 Amps, 200HP ND, 150HP 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	248 Amps
Heavy Duty Output Current Rating	186 Amps
Normal Duty HP	200 HP
Heavy Duty HP	150 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 4 5 6 7 8...10 11 12 13 14 15 16 17 18  
**20F** **1** **A** **N** **D** **248** **A** **A** **O** **N** **N** **N** **N** **N** **N**  
*a b c d e f1...f4 g h i Cabinet Options (21G)*



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



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



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
<b>A</b>	<b>AC Input with Precharge, no DC Terminals</b>	<b>6...8*</b>

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



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
<b>N ‡</b>	<b>IP20/IP00, NEMA/UL Type Open</b>	<b>2...7</b>
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).

ND Rating											
400V, 50 Hz Input											
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									
011	11.5	5.5									
015	15.4	7.5									
022	22	11									
030	30	15									
037	37	18.5									
043	43	22									
060	60	30									
072	72	37									
085	85	45									
104	104	55									
140	140	75									
170	170	90									
205	205	110									
260	260	132									
302	302	160									
367	367	200									
456	456	250									
460	460	250									
540	540	315									
567	567	315									
650	650	355									
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									

§ 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).

ND Rating											
480V, 60 Hz Input											
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									
014	14	10									
022	22	15									
027	27	20									
034	34	25									
040	40	30									
052	52	40									
065	65	50									
077	77	60									
096	96	75									
125	125	100									
156	156	125									
186	186	150									
<b>248</b>	<b>248</b>	<b>200</b>									
302	302	250									
361	361	300									
415	415	350									
430	430	350									
485	485	400									
545	545	450									
617	617	500									
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									

§ 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							
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					
9P0	9	7.5					
011	11	10					
012	12	10					
017	17	15					
018	18	15					
022	22	20					
023	23	20					
024	24	20					
027	27	25					
028	28	25					
032	32	30					
033	33	30					
041	41	40					
042	42	40					
052	52	50					
053	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					

f4							
ND Rating							
690V, 50 Hz Input (not UL listed)							
Code	Amps	kW	Frame				R
			Enclosure Code				
			B, J, L, T	F	G	N	
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.

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