

Product Details and Certifications

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Product: 20F1AN9\$* ' A5 0NNNNN

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with Precharge, no DC Terminals, Open Type, 100 A H Amps, 100 HP ND, 100 HP HD, 480 VAC, 3 PH, Frame 1 Filtered, CM Jumper Removed, 0.5% THD, Blank (No HIM)



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

BASE DRIVE INFORMATION

Bulletin Number	PowerFlex 753 AC Drive, with Embedded I/O
Input Voltage	480 VAC 480V
Phases	3 Phases
Current Rating	100 A H Amps 100 HP ND 100 HP HD
Enclosure Type	Open Type
Input Type	AC Input with Precharge, no DC Terminals
Frame Size	Frame 1
Filtering & CM Cap Config	Filtered, CM Jumper Removed
Dynamic Braking	0.5% THD
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** **E** **063** **A** **A** **0** **N** **N** **N** **N** **N** **N** **N**
a b c d e f1...f4 g h i Cabinet Options (21G)



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

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)

Future Use		
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ND Rating		
400V, 50 Hz Input		

ND Rating		
480V, 60 Hz Input		

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.

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					
072	72	37					4				
085	85	45					5				
104	104	55						5			
140	140	75							6		
170	170	90								6	
205	205	110									6
260	260	132									
302	302	160									
367	367	200									
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									

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									
248	248	200									
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									

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).

§ 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).

§ 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			
			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				

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

f4

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

Δ 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.