

Product Details and Certifications

Cross Reference RA Part Number: U-00820919771514

Product: 20DD027A0EYNANBEE

Description: PowerFlex700S AC Drive, 480 VAC, 3 PH, 27 Amps, 20HP Normal Duty, 15HP Heavy Duty, IP20 / Type 1, with conformal coating, No HIM (Blank Plate), Brake IGBT Installed, Without Drive Mounted Brake Resistor, Second Environment Filter per CE EMC directive (89/336/EEC), No Communication Module, Phase II control with SynchLink, Expanded cassette, Second encoder, Phase II, No DriveLogix, no embedded comm



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

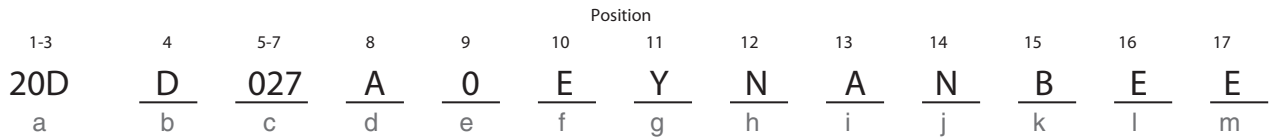
BASE DRIVE INFORMATION

Input Voltage	480 VAC 60 Hz
Phases	3 Phases
Output Current Rating	27 Amps
Normal Duty HP	20 HP
Heavy Duty HP	15 HP
Enclosure	IP20 / Type 1, with conformal coating
Frame Size	Frame Size 2
Brake IGBT	Brake IGBT Installed
Brake Resistor	Without Drive Mounted Brake Resistor
Filter Options	Second Environment Filter per CE EMC directive (89/336/EEC)
Phase II, Control Options	Phase II control with SynchLink, Expanded cassette
Feedback Options	Second encoder
Additional Configurations	Phase II, No DriveLogix, no embedded comm
Firmware	Standard

OPTIONS

Base Plus Options	Base Plus Options Method
Human Interface Module	No HIM (Blank Plate)
Internal Communication Module	No Communication Module

Catalog Number Explanation



a

Drive	
Code	Type
20D	PowerFlex 700S

b

Voltage Rating			
Code	Voltage	Ph.	Prechg.
B §	240V AC	3 (6 pulse)	–
C §	400V AC	3 (6 pulse)	–
D §	480V AC	3 (6 pulse)	–
E ¶ §	600V AC	3 (6 pulse)	–
F ¶	690V AC	3 (6 pulse)	–
H ¶	540V DC	–	N
J ¶	650V DC	–	N
K ¶	810V DC	–	N
M ¶	932V DC	–	N
N >	325V DC	–	Y
P >	540V DC	–	Y
R >	650V DC	–	Y
T >	810V DC	–	Y
W >	932V DC	–	Y

¶ Note: CE Certification testing has not been performed on 600V class drives, Frames 1...4.
 > Frames 5 & 6 Only.
 ¶ Frames 5 & up.
 § For DC input on Frames 1...4, use the corresponding AC input code B, C, D, or E.

c2

ND Rating			
400V, 50 Hz Input			
Code	Amps	kW	Frame
2P1	2.1	0.75	1
3P5	3.5	1.5	1
5P0	5.0	2.2	1
8P7	8.7	4.0	1
011	11.5	5.5	1
015	15.4	7.5	1
022	22	11	1
030	30	15	2
037	37	18.5	2
043	43	22	3
056	56	30	3
072	72	37	3
085	85	45	4
105	105	55	5
125	125	55	5
170	170	90	6
205	205	110	6
260	260	132	6
261	261	132	9
300	300	160	9
385	385	200	10
460	460	250	10
500	500	250	10
590	590	315	11
650	650	355	11
730	730	400	11
820	820	450	12
920	920	500	12
1K0	1030	560	12
1K1	1150	630	13
1K3	1300	710	13
1K4	1450	800	13

c3

ND Rating			
480V, 60 Hz Input			
Code	Amps	Hp	Frame
2P1	2.1	1.0	1
3P4	3.4	2.0	1
5P0	5	3.0	1
8P0	8	5.0	1
011	11	7.5	1
014	14	10	1
022	22	15	1
027	27	20	2
034	34	25	2
040	40	30	3
052	52	40	3
065	65	50	3
077	77	60	4
096	96	75	5
125	125	100	5
156	156	125	6
180	180	150	6
248	248	200	6
261	261	200	9
300	300	250	9
385	385	300	10
460	460	350	10
500	500	450	10
590	590	500	11
650	650	500	11
730	730	600	11
820	820	700	12
920	920	800	12
1K0	1030	900	12
1K1	1150	1000	13
1K3	1300	1200	13
1K4	1450	1250	13

c1

ND Rating				
208/240V, 60Hz Input				
Code	208V Amps	240V Amps	Hp	Frame
4P2	4.8	4.2	1.0	1
6P8	7.8	6.8	2.0	1
9P6	11	9.6	3.0	1
015	17.5	15.3	5.0	1
022	25.3	22	7.5	1
028	32.2	28	10	2
042	48.3	42	15	3
052	56	52	20	3
070	78.2	70	25	4
080	92	80	30	4
104	120	104	40	5
130	130	130	50	5
154	177	154	60	6
192	221	192	75	6
260	260	260	100	6

c4

ND Rating			
600V, 60 Hz Input *			
Code	Amps	Hp	Frame
1P7	1.7	0	1
2P7	2.7	2	1
3P9	3.9	3	1
6P1	6.1	5	1
9P0	9	7.5	1
011	11	10	1
017	17	15	1
022	22	20	2
027	27	25	2
032	32	30	3
041	41	40	3
052	52	50	3
062	62	60	4
077	77	75	5
099	99	100	5
125	125	125	6
144	144	150	6
170	170	150	9
208	208	200	9
261	261	250	10
325	325	350	10
385	385	400	10
416	416	450	10
460	460	450	11
502	502	500	11
590	590	600	11
650	650	700	12
750	750	800	12
820	820	900	12
920	920	1000	13
1K0	1030	1100	13
1K1	1180	1300	13
1K5	1500	1600	14

* Note: CE Certification testing has not been performed on 600V class drives Frames 1...4.

d

Enclosure	
Code	Description
A *	IP20/IP21, NEMA Type 1, with Conformal Coat
B §	IP20, NEMA Type 1, MCC, with Conformal Coat
H §	IP54, NEMA Type 12, Rittal, with Conformal Coat
N †	Open/IP00, with Conformal Coat

* IP20 for Frames 1...6, IP21 for Frames 9 & up.
 § Frames 10 & up only.
 † Frames 9 & up only.

e

HIM	
Code	Operator Interface
0	Blank Cover
3	Full Numeric LCD
C	Full Numeric LCD, Door Mount *

* Frames 10 & up only.

c5

ND Rating			
690V, 50 Hz Input *			
Code	Amps	kW	Frame
052	52	45	5
060	60	55	5
082	82	75	5
098	98	90	5
119	119	110	6
142	142	132	6
170	170	160	9
208	208	200	9
261	261	250	10
325	325	315	10
385	385	355	10
416	416	400	10
460	460	450	11
502	502	500	11
590	590	560	11
650	650	630	12
750	750	710	12
820	820	800	12
920	920	900	13
1K0	1030	1000	13
1K1	1180	1100	13
1K5	1500	1500	14

* Note: CE Certification testing has not been performed on 600V class drives Frames 1...4.

f

Documentation	
Code	Documents
E	English Manual
N	No Documentation

g

Brake	
Code	w/Brake IGBT ‡
Y	Yes
N	No

‡ Brake IGBT is standard on Frames 1...3 and optional on Frames 4...9 only.

h

Brake Resistor	
Code	w/Resistor
Y	Yes *
N	No

* Not available for Frame 3 drives or larger.

i

Emission			
Code	CE Filter *	CM Choke	du/dt Filter
A †	Yes	Yes	No
B ‡	Yes	No	No
E †	Yes	No	Yes
N §	No	No	No

† Frames 1...6 only.
 ‡ Frames 9 & up only.
 § For use on a high resistive ground, an ungrounded distribution system, or a B phase grounded distribution system (Frame 9 only).
 * Note: CE Certification testing has not been performed on 600V class drives Frames 1...4.
 † Frame 14 only.

j

Comm Slot	
Code	Version
N	None
C	DPI ControlNet (Coax)
D	DPI DeviceNet
E	DPI EtherNet/IP
1	DriveLogix ControlNet (Coax)
2	DriveLogix ControlNet Redundant (Coax)
3	DriveLogix ControlNet (Fiber)
4	DriveLogix ControlNet Redundant (Fiber)
5	DriveLogix DeviceNet (Open Conn.)
6	DriveLogix EtherNet/IP

k

Control Options *			
Code	Logix Expansion	Synchlink	Cassette
A	No	No	Expanded
B	No	Yes	Expanded
C	Yes	No	Expanded
D	Yes	Yes	Expanded
G †	N/A	No	Slim
H †	N/A	Yes	Slim

* Phase II Control available only.
 † Frames 1...9 only.

l

Feedback	
Code	Option
N ‡	Standard (Incremental Encoder)
A †	Resolver
B †	Stegmann Hi-Resolution Encoder
C †	Multi-Device Interface
E †	2nd Encoder
S †	Safe-Off (w/2nd Encoder)
T †	Stegmann Hi-Res Enc. (w/2nd Encoder)
U †	Stegmann Hi-Res Enc. (w/Safe-Off)

‡ One encoder interface included with base drive.
 † Expanded cassette required.

m

Additional Config.	
Code	Description
E	Phase II Control
K	Phase II DriveLogix5730
L †	Phase II DriveLogix5730 with EtherNet/IP

† This is an embedded EtherNet/IP option that is only available with DriveLogix5730.