

# Product Details and Certifications

**Cross Reference RA Part Number: U-00820919633263**

**Product: 20DD011A0EYNACASE**

Description: PowerFlex700S AC Drive, 480 VAC, 3 PH, 11 Amps, 7.5HP Normal Duty, 5HP 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), ControlNet (Coax) - DPI Module, Phase II control, Expanded cassette, Safe off, includes second encoder, Phase II, No DriveLogix, no embedded comm



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

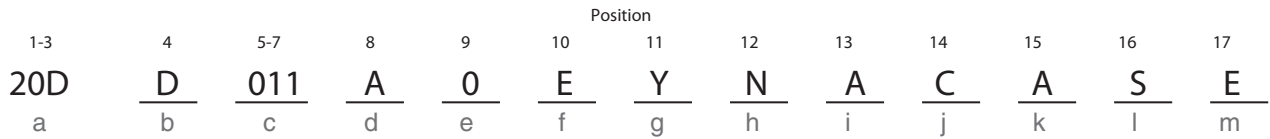
## **BASE DRIVE INFORMATION**

|                           |   |
|---------------------------|---|
| Input Voltage             | 480 VAC 60 Hz   |
| Phases                    | 3 Phases  |
| Output Current Rating     | 11 Amps   |
| Normal Duty HP            | 7.5 HP  |
| Heavy Duty HP             | 5 HP  |
| Enclosure                 | IP20 / Type 1, with conformal coating                       |
| Frame Size                | Frame Size 1  |
| 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, Expanded cassette                         |
| Feedback Options          | Safe off, includes second encode                            |
| Additional Configurations | Phase II, No DriveLogix, no embedded comm                   |
| Firmware                  | Standard  |

## **OPTIONS**

|                               |                                |
|-------------------------------|--------------------------------|
| Base Plus Options             | Factory Assembled              |
| Human Interface Module        | No HIM (Blank Plate)           |
| Internal Communication Module | ControlNet (Coax) - DPI 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                                     |
| <b>A *</b> | 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             |
| <b>0</b> | 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        |
| <b>E</b>      | English Manual   |
| N             | No Documentation |

**g**

| Brake    |                |
|----------|----------------|
| Code     | w/Brake IGBT ‡ |
| <b>Y</b> | Yes            |
| N        | No             |

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

**h**

| Brake Resistor |            |
|----------------|------------|
| Code           | w/Resistor |
| <b>N</b>       | No         |

\* Not available for Frame 3 drives or larger.

**i**

| Emission   |             |          |              |
|------------|-------------|----------|--------------|
| Code       | CE Filter * | CM Choke | du/dt Filter |
| <b>A †</b> | 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                                    |
| <b>C</b>  | 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 |
| <b>A</b>          | 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                          |
| <b>S †</b> | 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                              |
| <b>E</b>           | 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.