

# Product Details and Certifications

## Cross Reference RA Part Number: PN-179678

 **Product: 20F11NE027AA0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type, 27 Amps, 25HP ND, 20HP HD, 600 VAC, 3PH, Frame 4, Filtered, CM Jumper Removed, DB Transistor, 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                     | 600 VAC 60 Hz                             |
| Phases                            | 3 Phases                                  |
| Normal Duty Output Current Rating | 27 Amps                                   |
| Heavy Duty Output Current Rating  | 22 Amps                                   |
| Normal Duty HP                    | 25 HP                                     |
| Heavy Duty HP                     | 20 HP                                     |
| Enclosure Type                    | IP20/IP00, NEMA/UL Type Open              |
| Input Type                        | AC Input with DC Terminals                |
| Frame Size                        | Frame 4                                   |
| Filtering & CM Cap Config         | Filtered, CM Jumper Removed               |
| Dynamic Braking                   | DB Transistor                             |
| 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** **1** **N** **E** **027** **A** **A** **O** **N** **N** **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                 |
| D              | 480V AC/650V DC                 |
| <b>E</b>       | <b>600V AC/810V DC</b>          |
| F              | 690V AC/932V DC (not UL listed) |



| Input Type |   |               |
|------------|---|---------------|
| Code       | Description                                       | Frames        |
| <b>1</b>   | 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.



| 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.  
 ‡ Available as a drive with options (21G).  
 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   |                |   |   |   |            |   |  |  |
| 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 |                |   |   |   |            |   |  |  |

§ 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   | 4              | 4 | 4 |   |   |
| 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).