

Product Details and Certifications

Cross Reference RA Part Number: PN-61473

 **Product: 20F11ND077AA0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type, 77 Amps, 60HP ND, 50HP HD, 480 VAC, 3 PH, Frame 5, Filtered, CM Jumper Removed, DB Transistor, 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 60 Hz |
| Phases | 3 Phases |
| Normal Duty Output Current Rating | 77 Amps |
| Heavy Duty Output Current Rating | 65 Amps |
| Normal Duty HP | 60 HP |
| Heavy Duty HP | 50 HP |
| Enclosure Type | IP20/IP00, NEMA/UL Type Open |
| Input Type | AC Input with DC Terminals |
| Frame Size | Frame 5 |
| 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** **D** **077** **A** **A** **O** **N** **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 |
| 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) |



| 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.



| 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).



| 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 | | | | | | | | | | | | | | | |
| 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 | | | | | |
| 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).