


Product Details and Certifications

Cross Reference RA Part Number: **PN-411341**

 **Product: 20F11ND034JA0NNNNN**

Description: PowerFlex 753 AC Drive, with Embedded I/O, Air Cooled, AC Input with DC Terminals, Open Type, 34 Amps, 25HP ND, 20HP HD, 480 VAC, 3 PH, Frame 3, Filtered, CM Jumper Installed, DB Transistor, Blank (No HIM)

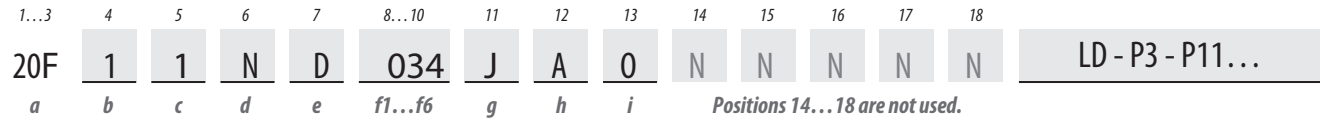


Representative Photo Only (actual product may vary based on configuration selections)

BASE DRIVE INFORMATION

| | |
|---------------------------|---|
| Bulletin Number | PowerFlex 753 AC Drive, with Embedded I/O |
| Input Voltage | 480VAC 60Hz |
| Phases | 3 Phases |
| Current Power Rating | 34 Amps, 25HP ND, 29HP HD |
| Enclosure Type | Open Type |
| Input Type | AC Input with Precharge, no DC Terminals |
| Frame Size | Frame 3 |
| Filtering & CM Cap Config | Filtered, CM Jumper Installed |
| Dynamic Braking | DB Transistor |
| HIM | Blank (No HIM) |

Catalog Number Explanation



a

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

b

| Future Use | | |
|------------|--|--|
|------------|--|--|

c

| Input Type | | |
|------------|--|----------------------|
| Code | Description | Frames |
| 1 | AC Input with Precharge, includes DC Terminals | 1...5 8...10 |
| 4 | DC Input with Precharge | 5...10 |
| A | AC Input with Precharge, no DC Terminals | 6...8 ⁽¹⁾ |

(1) The DC Bus Bar kit (20-750-DCBB1-Fx) is available for Frames 6...7 AC input drives that require DC bus terminals.

d

| Enclosure | | |
|------------------|---|--------|
| Code | Description | Frames |
| R | IP20, NEMA/UL Type Open, Frame 1 | 1 |
| F ⁽¹⁾ | Flange (NEMA/UL Type 4X/12 back) | 2...5 |
| G | IP54, NEMA/UL Type 12 | 2...7 |
| N ⁽²⁾ | IP20/IP00, NEMA/UL Type Open | 2...7 |
| B ⁽³⁾ | IP20, NEMA/UL Type 1, 600 mm (23.6 in.) Deep, Standard Cabinet Color (RAL 7032) | 8...10 |
| J ⁽³⁾ | IP54, UL Type 12, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032) | 8...10 |
| K ⁽³⁾ | IP54, NEMA 12, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032) | 8...10 |
| L ⁽³⁾ | IP20, NEMA/UL Type 1, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032) | 8...10 |
| P ⁽³⁾ | IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, Standard Cabinet Color (RAL 7032) | 8...10 |
| W ⁽³⁾ | IP20, NEMA/UL Type 1, 2500 MCC Style Cabinet and Options w/MCC Power Bus, 800 mm (31.5 in.) Deep, CenterLine 2100 Gray (ASA49) | 8...10 |
| Y ⁽³⁾ | IP54, NEMA 12, 2500 MCC Style Cabinet and 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 |

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Frames 2...5 are IP20, Frames 6...7 are IP00.
- (3) Available as a drive with options (21G).

e

| Voltage Rating | |
|----------------|--|
| Code | Voltage |
| B | 240V AC (208V AC) ⁽¹⁾ /325V DC (281V DC) ⁽¹⁾ |
| C | 400V AC/540V DC |
| D | 480V AC/650V DC |
| E | 600V AC/810V DC |
| F | 690V AC/932V DC (not UL Listed) |

(1) Drive must be programmed to obtain low (208V AC) voltage rating.

f1

| ND Rating | | | | | | | | |
|-----------------------------------|------|------|----------------|---|---|---|------------|---|
| 208V ⁽¹⁾ , 60 Hz Input | | | | | | | | |
| Code | Amps | kW | Frame | | | | | |
| | | | Enclosure Code | | | | | |
| | | | B, J, L, T | F | G | N | K, P, W, Y | R |
| 2P2 | 2.5 | 0.37 | | | | | | 1 |
| 4P2 | 4.8 | 0.75 | | | | | | |
| 6P8 | 7.8 | 1.5 | | | | | | |
| 9P6 | 11 | 2.2 | | | | | | |
| 015 | 15.3 | 4 | | | | | | |
| 2P2 | 2.5 | 0.37 | | | | | | |
| 4P2 | 4.8 | 0.75 | | | | | | |
| 6P8 | 7.8 | 1.5 | | | | | | |
| 9P6 | 11 | 2.2 | | | | | | |
| 015 | 15.3 | 4 | | | | | | |
| 022 | 22 | 5.5 | | | | | | |
| 028 | 32.2 | 7.5 | | | | | | |
| 042 | 43 | 11 | | | | | | |
| 054 | 60 | 15 | | | | | | |
| 070 | 78.2 | 18.2 | | | | | | |
| 080 | 92 | 22 | | | | | | |
| 104 | 120 | 30 | | | | | | |
| 130 | 150 | 37 | | | | | | |
| 154 | 177 | 45 | | | | | | |
| 192 | 221 | 55 | | | | | | |
| 260 | 260 | 66 | | | | | | |
| 312 | 359 | 90 | | | | | | |
| 360 | 414 | 110 | | | | | | |
| 477 | 477 | 132 | | | | | | |

- (1) Drive must be programmed to obtain low (208VAC) voltage rating.
- (2) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

f2

| ND Rating | | | | | | | | |
|-------------------|------|-----|----------------|---|---|---|------------|---|
| 240V, 60 Hz Input | | | | | | | | |
| Code | Amps | Hp | Frame | | | | | |
| | | | Enclosure Code | | | | | |
| | | | B, J, L, T | F | G | N | K, P, W, Y | R |
| 2P2 | 2.2 | 0.5 | | | | | | |
| 4P2 | 4.2 | 1 | | | | | | |
| 6P8 | 6.8 | 2 | | | | | | |
| 9P6 | 9.6 | 3 | | | | | | |
| 015 | 15.3 | 5 | | | | | | |
| 2P2 | 2.2 | 0.5 | | | | | | |
| 4P2 | 4.2 | 1 | | | | | | |
| 6P8 | 6.8 | 2 | | | | | | |
| 9P6 | 9.6 | 3 | | | | | | |
| 015 | 15.3 | 5 | | | | | | |
| 022 | 22 | 7.5 | | | | | | |
| 028 | 28 | 10 | | | | | | |
| 042 | 42 | 15 | | | | | | |
| 054 | 54 | 20 | | | | | | |
| 070 | 70 | 25 | | | | | | |
| 080 | 80 | 30 | | | | | | |
| 104 | 104 | 40 | | | | | | |
| 130 | 130 | 50 | | | | | | |
| 154 | 154 | 60 | | | | | | |
| 192 | 192 | 75 | | | | | | |
| 260 | 260 | 100 | | | | | | |
| 312 | 312 | 125 | | | | | | |
| 360 | 360 | 150 | | | | | | |
| 477 | 477 | 200 | | | | | | |

(1) For Frames 6 and 7, a user-installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.

1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18

20F 1 1 N D 034 J A O N N N N N LD - P3 - P11...

a b c d e f1...f6 g h i Positions 14...18 are not used.

| f3 | | | | | | | |
|-------------------|------|------|----------------|-----|---|---|------------------|
| ND Rating | | | | | | | |
| 400V, 50 Hz Input | | | | | | | |
| Code | Amps | kW | Frame | | | | R |
| | | | Enclosure Code | | | | |
| | | | B, J, L, T | F | G | N | |
| 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 | 8 | - | - | - | 8 ⁽²⁾ |
| 477 | 477 | 270 | - | (1) | - | 7 | - |
| 540 | 540 | 315 | | | | | |
| 567 | 567 | 315 | | | | | |
| 650 | 650 | 355 | 8 | | | | 8 ⁽²⁾ |
| 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 | | | | | |

| f4 | | | | | | | |
|-------------------|------|------|----------------|-----|---|---|------------------|
| ND Rating | | | | | | | |
| 480V, 60 Hz Input | | | | | | | |
| Code | Amps | Hp | Frame | | | | R |
| | | | Enclosure Code | | | | |
| | | | B, J, L, T | F | G | N | |
| 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 | 8 | - | - | - | 8 ⁽²⁾ |
| 477 | 477 | 400 | - | (1) | - | 7 | - |
| 485 | 485 | 400 | | | | | |
| 545 | 545 | 450 | | | | | |
| 617 | 617 | 500 | 8 | | | | 8 ⁽²⁾ |
| 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 | | | | | |

| f5 | | | | | | | |
|--------------------|------|------|----------------|---|---|---|---|
| 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 ⁽¹⁾ | 12 | 10 | | | | | |
| 017 | 17 | 15 | | | | | |
| 018 ⁽¹⁾ | 18 | 15 | | | | | |
| 022 | 22 | 20 | | | | | |
| 023 ⁽¹⁾ | 23 | 20 | | | | | |
| 024 ⁽¹⁾ | 24 | 20 | | | | | |
| 027 | 27 | 25 | | | | | |
| 028 ⁽¹⁾ | 28 | 25 | | | | | |
| 032 | 32 | 30 | | | | | |
| 033 ⁽¹⁾ | 33 | 30 | | | | | |
| 041 | 41 | 40 | | | | | |
| 042 ⁽¹⁾ | 42 | 40 | | | | | |
| 052 | 52 | 50 | | | | | |
| 053 ⁽¹⁾ | 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 | | | | | |

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

- (1) Required for uncontrolled common DC bus applications. Optional for all AC applications.
- (2) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (3) Available as a drive with options (21G).

1...3 4 5 6 7 8...10 11 12 13 14 15 16 17 18
20F 1 1 N D 034 J A 0 N N N N N LD - P3 - P11...
a b c d e f1...f6 g h i Positions 14...18 are not used.

| f6 | | | | | | |
|-----------------------------------|------|------|----------------|-----|---|------------------|
| ND Rating | | | | | | |
| 690V, 50 Hz Input (not UL Listed) | | | | | | |
| Code | Amps | kW | Frame | | | |
| | | | Enclosure Code | | | |
| | | | B, J, L, T | F | G | N, K, P, W, Y, R |
| 012 | 12 | 7.5 | | | | |
| 015 | 15 | 11 | | | | |
| 020 | 20 | 15 | | | | |
| 023 | 23 | 18.5 | | | | |
| 030 | 30 | 22 | | | | |
| 034 | 34 | 30 | | | | |
| 046 | 46 | 37 | | | 6 | 6 |
| 050 | 50 | 45 | | | | |
| 061 | 61 | 55 | | | | |
| 082 | 82 | 75 | | | | |
| 098 | 98 | 90 | | (1) | | |
| 119 | 119 | 110 | | | | |
| 142 | 142 | 132 | | | | |
| 171 | 171 | 160 | | | | |
| 212 | 212 | 200 | | | 7 | 7 |
| 263 | 263 | 250 | | | | |
| 265 | 265 | 250 | | | | |
| 330 | 330 | 315 | | | | |
| 370 | 370 | 355 | | | | |
| 415 | 415 | 400 | 8 | | | g(2) |
| 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 | 10 | | | 10(2) |

- (1) For Frames 6...7, a user installed flange kit (20-750-FLNG4-Fx) is available to convert a Code N drive that provides a NEMA/UL Type 4X/12 back.
- (2) Available as a drive with options (21G).

| 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 ⁽¹⁾ |
| ND | Normal Duty | | |
| HD | Heavy Duty | | |
| P3 | Input Thermal-magnetic Circuit Breaker | 8...10 | Power Disconnect ⁽¹⁾ |
| P5 | Input Non-Fused Molded Case Disconnect Switch | 8 Only | |
| P14 | Wiring Only Bay | 8...10 | Wiring Only Bay |

(1) Only one option of this type can be selected.

*PowerFlex 755 w/Options (21G)
Additional Selections*

| Code | Option | Frames | Type |
|------|--|-----------------------|---------------------------------------|
| P11 | Input Contactor | 8 Only | Contactors ⁽¹⁾⁽²⁾ |
| P12 | Output Contactor | | |
| L1 | 3% Input Reactor | 8...9 | Reactors ⁽¹⁾ |
| L2 | 3% Output Reactor | | |
| L3 | 5% Input Reactor | | |
| L4 | 5% Output Reactor | | |
| P20 | 1200 A Bus | 8...10 | MCC Power Bus Capacity ⁽¹⁾ |
| P22 | 2000 A Bus | | |
| P24 | 3000 A 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 ⁽³⁾ | Auxiliary Power |

- (1) Only one option of this type can be selected.
- (2) Contactor options are not available for systems with MCC power bus.
- (3) Standard on all other cabinet configurations.

g

| Filtering and CM Cap Configuration | | |
|------------------------------------|-----------|---------------------------|
| Code | Filtering | Default CM Cap Connection |
| A | Yes | Jumper Removed |
| J | Yes | Jumper Installed |

h

| Dynamic Braking ⁽¹⁾ | | |
|--------------------------------|----------------------------------|------------------------------------|
| Code | Internal Resistor ⁽²⁾ | Internal Transistor ⁽³⁾ |
| A | No | Yes |
| N | No | No |

- (1) Not available on Frames 8...10, specify Code 'N'.
- (2) Frames 1...2 only. Internal Resistor kits (20-750-DB1-Dx) sold separately.
- (3) Standard on Frames 1...5, optional on 6...7.