



# PowerFlex 755 AC Drive

Designed for ease of integration, application flexibility and performance the PowerFlex 755 AC drive provides improved functionality across many manufacturing systems. The PowerFlex 755 AC drive is designed to maximize user's investment and help improve productivity. Ideal for applications that require safety, high motor control performance, and application flexibility, the PowerFlex 755 is highly functional and cost effective solution.

With the added capability of integrated motion, PowerFlex and Kinetix® drives can be on the same network – EtherNet/IP – and configured, programmed and controlled using the same motion instruction sets.

|                        |   |
|------------------------|---|
| Ratings                | 380...480V: 0.75...450 kW / 1...700 Hp / 2.1...832 A  |
| Motor Control          | <ul style="list-style-type: none"> <li>• V/Hz Control</li> <li>• Vector Control with FORCE Technology</li> <li>• Sensorless Vector Control</li> <li>• Permanent Magnet Motor Control</li> <li>• Kinematics and multi-axis support</li> </ul>  |
| Communications         | Embedded EtherNet/IP port standard, Common Industrial Protocol  |
| User Interface         | HIM (option)  |
| Enclosures             | IP00/IP20, Flange Mount, IP54/NEMA/UL Type 12, IP20 MCC Style Cabinet   |
| Safety                 | <ul style="list-style-type: none"> <li>• Safe Torque-Off PLe/SIL3 Cat. 3</li> <li>• Safe Speed Monitor PLe/SIL3 Cat. 4</li> </ul>   |
| Additional Features    | <ul style="list-style-type: none"> <li>• DeviceLogix</li> <li>• Configure and control with motion instruction sets in RSLogix 5000 (v19)</li> <li>• Preventative Diagnostics</li> <li>• Five option slots for I/O, feedback, safety, auxiliary control power, communications</li> <li>• Accurate positioning with PCAM, Indexer, Electronic Gearing, and speed/position profiling</li> <li>• Incremental and Absolute feedback supported</li> <li>• TorqProve for lifting applications</li> <li>• Pump Jack and Pump Off for oil well applications</li> <li>• Pjump and Traverse for Fibers application</li> <li>• Conformal Coating</li> <li>• Internal Brake IGBT standard on Frames 2...5 and optional on Frames 6...7</li> <li>• DC Link Choke</li> <li>• AC line fuses included with Frame 8 drives</li> <li>• Roll-out design for Frame 8 drives</li> </ul> |
| Certifications         | <ul style="list-style-type: none"> <li>• UL</li> <li>• cUL</li> <li>• CE</li> <li>• C-Tick</li> <li>• SEMI F47</li> <li>• GOST-R</li> <li>• TÜV FS ISO/EN13849-1 (EN954-1) with Safe Torque-Off option</li> <li>• Meets material restrictions specified in the RoHS directive</li> </ul>  |
| Options                | See pages 64... 86  |
| Additional Information | <a href="#">PowerFlex 750-Series Product Profile, publication 750-PP001</a><br><a href="#">PowerFlex 750-Series Technical Data, publication 750-TD001</a><br><a href="#">PowerFlex 755 with Integrated Motion, publication 755-PP001</a>  |

**IP00/IP20, NEMA/UL Type Open ❖**

**380...480V AC, Three-Phase Drives**

| 480V AC Input |               |               |                |               | 400V AC Input      |               |               |               |                | Frame Size |                    |            |
|---------------|---------------|---------------|----------------|---------------|--------------------|---------------|---------------|---------------|----------------|------------|--------------------|------------|
| Output Amps ‡ |               |               | Normal Duty Hp | Heavy Duty Hp | Cat. No.           | Output Amps ‡ |               |               | Normal Duty kW |            | Heavy Duty kW      | Cat. No. * |
| Cont.         | 1 Min.        | 3 Sec.        |                |               |                    | Cont.         | 1 Min.        | 3 Sec.        |                |            |                    |            |
| 2.1           | 3.1           | 3.7           | 1              | 1             | 20G11ND2P1AA0NNNNN | 2.1           | 3.1           | 3.7           | 0.75           | 0.75       | 20G11NC2P1JA0NNNNN | 2 §        |
| 3.4           | 5.1           | 6.1           | 2              | 2             | 20G11ND3P4AA0NNNNN | 3.5           | 5.2           | 6.3           | 1.5            | 1.5        | 20G11NC3P5JA0NNNNN | 2 §        |
| 5             | 7.5           | 9             | 3              | 3             | 20G11ND5P0AA0NNNNN | 5             | 7.5           | 9.0           | 2.2            | 2.2        | 20G11NC5P0JA0NNNNN | 2 §        |
| 8             | 12            | 14.4          | 5              | 5             | 20G11ND8P0AA0NNNNN | 8.7           | 13            | 15.6          | 4              | 4          | 20G11NC8P7JA0NNNNN | 2 §        |
| 11            | 16.5          | 19.8          | 7.5            | 7.5           | 20G11ND011AA0NNNNN | 11.5          | 17.2          | 20.7          | 5.5            | 5.5        | 20G11NC011JA0NNNNN | 2 §        |
| 14 (11)       | 15.4 (16.5)   | 21 (21)       | 10             | 7.5           | 20G11ND014AA0NNNNN | 15.4 (11.5)   | 16.9 (17.3)   | 23.1 (23.1)   | 7.5            | 5.5        | 20G11NC015JA0NNNNN | 2          |
| 22 (14)       | 24.2 (21)     | 33 (33)       | 15             | 10            | 20G11ND022AA0NNNNN | 22 (15.4)     | 24.2 (23.1)   | 33 (33)       | 11             | 7.5        | 20G11NC022JA0NNNNN | 2          |
| 27 (22)       | 29.7 (33)     | 40.5 (40.5)   | 20             | 15            | 20G11ND027AA0NNNNN | 30 (22)       | 33 (33)       | 45 (45)       | 15             | 11         | 20G11NC030JA0NNNNN | 3          |
| 34 (27)       | 37.4 (40.5)   | 51 (51)       | 25             | 20            | 20G11ND034AA0NNNNN | 37 (30)       | 40.7 (45)     | 55.5 (55.5)   | 18.5           | 15         | 20G11NC037JA0NNNNN | 3          |
| 40 (34)       | 44 (51)       | 60 (61.2)     | 30             | 25            | 20G11ND040AA0NNNNN | 43 (37)       | 47.3 (55.5)   | 64.5 (66.6)   | 22             | 18.5       | 20G11NC043JA0NNNNN | 3          |
| 52 (40)       | 57.2 (60)     | 78 (78)       | 40             | 30            | 20G11ND052AA0NNNNN | 60 (43)       | 66 (66)       | 90 (90)       | 30             | 22         | 20G11NC060JA0NNNNN | 4          |
| 65 (52)       | 71.5 (78)     | 97.5 (97.5)   | 50             | 40            | 20G11ND065AA0NNNNN | 72 (60)       | 79.2 (90)     | 108 (108)     | 37             | 30         | 20G11NC072JA0NNNNN | 4          |
| 77 (65)       | 84.7 (97.5)   | 115.5 (117)   | 60             | 50            | 20G11ND077AA0NNNNN | 85 (72)       | 93.5 (108)    | 127.5 (129.6) | 45             | 37         | 20G11NC085JA0NNNNN | 5          |
| 96 (77)       | 105.6 (115.5) | 144 (144)     | 75             | 60            | 20G11ND096AA0NNNNN | 104 (85)      | 114.4 (127.5) | 156 (156)     | 55             | 45         | 20G11NC104JA0NNNNN | 5          |
| 125 (96)      | 137.5 (144)   | 187.5 (187.5) | 100            | 75            | 20G1AND125AN0NNNNN | 140 (104)     | 154 (156)     | 210 (210)     | 75             | 55         | 20G1ANC140JN0NNNNN | 6 ¶        |
| 156 (125)     | 171.6 (187.5) | 234 (234)     | 125            | 100           | 20G1AND156AN0NNNNN | 170 (140)     | 187 (210)     | 255 (255)     | 90             | 75         | 20G1ANC170JN0NNNNN | 6 ¶        |
| 186 (156)     | 204.6 (234)   | 279 (280.8)   | 150            | 125           | 20G1AND186AN0NNNNN | 205 (170)     | 225.5 (255)   | 307.5 (307.5) | 110            | 90         | 20G1ANC205JN0NNNNN | 6 ¶        |
| 248 (186)     | 272.8 (279)   | 372 (372)     | 200            | 150           | 20G1AND248AN0NNNNN | 260 (205)     | 286 (307.5)   | 390 (390)     | 132            | 110        | 20G1ANC260JN0NNNNN | 6 ¶        |
| 302 (248)     | 332.2 (372)   | 453 (453)     | 250            | 200           | 20G1AND302AN0NNNNN | 302 (260)     | 332.2 (390)   | 453 (468)     | 160            | 132        | 20G1ANC302JN0NNNNN | 7 ¶        |
| 361 (302)     | 397.1 (453)   | 541.5 (543.6) | 300            | 250           | 20G1AND361AN0NNNNN | 367 (302)     | 403.7 (453)   | 550.5 (550.5) | 200            | 160        | 20G1ANC367JN0NNNNN | 7 ¶        |
| 415 (361)     | 456.5 (541.5) | 622.5 (649.8) | 350            | 300           | 20G1AND415AN0NNNNN | 456 (367)     | 501.6 (550.5) | 684 (684)     | 250            | 200        | 20G1ANC456JN0NNNNN | 7 ¶        |

❖ Frames 2...5 are IP20, Frames 6...7 are IP00.

\* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

¶ Also available with internal Brake IGBT (20G1xxxxxx A xxxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

**IP54, NEMA/UL Type 12**

**380...480V AC, Three-Phase Drives**

| 480V AC Input |               |               |                |               |                    | 400V AC Input |               |               |                |               |                    | Frame Size |
|---------------|---------------|---------------|----------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|--------------------|------------|
| Output Amps ‡ |               |               | Normal Duty Hp | Heavy Duty Hp | Cat. No.           | Output Amps ‡ |               |               | Normal Duty kW | Heavy Duty kW | Cat. No. *         |            |
| Cont.         | 1 Min.        | 3 Sec.        |                |               |                    | Cont.         | 1 Min.        | 3 Sec.        |                |               |                    |            |
| 2.1           | 3.1           | 3.7           | 1              | 1             | 20G11GD2P1AA0NNNNN | 2.1           | 3.1           | 3.7           | 0.75           | 0.75          | 20G11GC2P1JA0NNNNN | 2 §        |
| 3.4           | 5.1           | 6.1           | 2              | 2             | 20G11GD3P4AA0NNNNN | 3.5           | 5.2           | 6.3           | 1.5            | 1.5           | 20G11GC3P5JA0NNNNN | 2 §        |
| 5             | 7.5           | 9             | 3              | 3             | 20G11GD5P0AA0NNNNN | 5             | 7.5           | 9.0           | 2.2            | 2.2           | 20G11GC5P0JA0NNNNN | 2 §        |
| 8             | 12            | 14.4          | 5              | 5             | 20G11GD8P0AA0NNNNN | 8.7           | 13            | 15.6          | 4              | 4             | 20G11GC8P7JA0NNNNN | 2 §        |
| 11            | 16.5          | 19.8          | 7.5            | 7.5           | 20G11GD011AA0NNNNN | 11.5          | 17.2          | 20.7          | 5.5            | 5.5           | 20G11GC011JA0NNNNN | 2 §        |
| 14 (11)       | 15.4 (16.5)   | 21 (21)       | 10             | 7.5           | 20G11GD014AA0NNNNN | 15.4 (11.5)   | 16.9 (17.3)   | 23.1 (23.1)   | 7.5            | 5.5           | 20G11GC015JA0NNNNN | 2          |
| 22 (14)       | 24.2 (21)     | 33 (33)       | 15             | 10            | 20G11GD022AA0NNNNN | 22 (15.4)     | 24.2 (23.1)   | 33 (33)       | 11             | 7.5           | 20G11GC022JA0NNNNN | 2          |
| 27 (22)       | 29.7 (33)     | 40.5 (40.5)   | 20             | 15            | 20G11GD027AA0NNNNN | 30 (22)       | 33 (33)       | 45 (45)       | 15             | 11            | 20G11GC030JA0NNNNN | 3          |
| 34 (27)       | 37.4 (40.5)   | 51 (51)       | 25             | 20            | 20G11GD034AA0NNNNN | 37 (30)       | 40.7 (45)     | 55.5 (55.5)   | 18.5           | 15            | 20G11GC037JA0NNNNN | 3          |
| 40 (34)       | 44 (51)       | 60 (61.2)     | 30             | 25            | 20G11GD040AA0NNNNN | 43 (37)       | 47.3 (55.5)   | 64.5 (66.6)   | 22             | 18.5          | 20G11GC043JA0NNNNN | 3          |
| 52 (40)       | 57.2 (60)     | 78 (78)       | 40             | 30            | 20G11GD052AA0NNNNN | 60 (43)       | 66 (66)       | 90 (90)       | 30             | 22            | 20G11GC060JA0NNNNN | 4          |
| 65 (52)       | 71.5 (78)     | 97.5 (97.5)   | 50             | 40            | 20G11GD065AA0NNNNN | 72 (60)       | 79.2 (90)     | 108 (108)     | 37             | 30            | 20G11GC072JA0NNNNN | 5          |
| 77 (65)       | 84.7 (97.5)   | 115.5 (117)   | 60             | 50            | 20G11GD077AA0NNNNN | 85 (72)       | 93.5 (108)    | 127.5 (129.6) | 45             | 37            | 20G11GC085JA0NNNNN | 5          |
| 96 (77)       | 105.6 (115.5) | 144 (144)     | 75             | 60            | 20G1AGD096AN0NNNNN | 104 (85)      | 114.4 (127.5) | 156 (156)     | 55             | 45            | 20G1AGC104JN0NNNNN | 6 ¶        |
| 125 (96)      | 137.5 (144)   | 187.5 (187.5) | 100            | 75            | 20G1AGD125AN0NNNNN | 140 (104)     | 154 (156)     | 210 (210)     | 75             | 55            | 20G1AGC140JN0NNNNN | 6 ¶        |
| 156 (125)     | 171.6 (187.5) | 234 (234)     | 125            | 100           | 20G1AGD156AN0NNNNN | 170 (140)     | 187 (210)     | 255 (255)     | 90             | 75            | 20G1AGC170JN0NNNNN | 6 ¶        |
| 186 (156)     | 204.6 (234)   | 279 (280.8)   | 150            | 125           | 20G1AGD186AN0NNNNN | 205 (170)     | 225.5 (255)   | 307.5 (307.5) | 110            | 90            | 20G1AGC205JN0NNNNN | 6 ¶        |
| 248 (186)     | 272.8 (279)   | 372 (372)     | 200            | 150           | 20G1AGD248AN0NNNNN | 260 (205)     | 286 (307.5)   | 390 (390)     | 132            | 110           | 20G1AGC260JN0NNNNN | 7 ¶        |
| 302 (248)     | 332.2 (372)   | 453 (453)     | 250            | 200           | 20G1AGD302AN0NNNNN | 302 (260)     | 332.2 (390)   | 453 (468)     | 160            | 132           | 20G1AGC302JN0NNNNN | 7 ¶        |
| 361 (302)     | 397.1 (453)   | 541.5 (543.6) | 300            | 250           | 20G1AGD361AN0NNNNN | 367 (302)     | 403.7 (453)   | 550.5 (550.5) | 200            | 160           | 20G1AGC367JN0NNNNN | 7 ¶        |
| 415 (361)     | 456.5 (541.5) | 622.5 (649.8) | 350            | 300           | 20G1AGD415AN0NNNNN | 456 (367)     | 501.6 (550.5) | 684 (684)     | 250            | 200           | 20G1AGC456JN0NNNNN | 7 ¶        |

\* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

¶ Also available with internal Brake IGBT (20G1xxxxxx A xxxxxx).

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

**Flange Mount**  
**Front = IP20, NEMA/UL Type Open, Back/Heatsink = IP66, NEMA/UL Type 4X**

**380...480V AC, Three-Phase Drives**

| 480V AC Input |               |             |                |               | 400V AC Input      |               |               |               |                | Frame Size |                    |            |
|---------------|---------------|-------------|----------------|---------------|--------------------|---------------|---------------|---------------|----------------|------------|--------------------|------------|
| Output Amps ‡ |               |             | Normal Duty Hp | Heavy Duty Hp | Cat. No.           | Output Amps ‡ |               |               | Normal Duty kW |            | Heavy Duty kW      | Cat. No. * |
| Cont.         | 1 Min.        | 3 Sec.      |                |               |                    | Cont.         | 1 Min.        | 3 Sec.        |                |            |                    |            |
| 2.1           | 3.1           | 3.7         | 1              | 1             | 20G11FD2P1AA0NNNNN | 2.1           | 3.1           | 3.7           | 0.75           | 0.75       | 20G11FC2P1JA0NNNNN | 2 §        |
| 3.4           | 5.1           | 6.1         | 2              | 2             | 20G11FD3P4AA0NNNNN | 3.5           | 5.2           | 6.3           | 1.5            | 1.5        | 20G11FC3P5JA0NNNNN | 2 §        |
| 5             | 7.5           | 9           | 3              | 3             | 20G11FD5P0AA0NNNNN | 5             | 7.5           | 9.0           | 2.2            | 2.2        | 20G11FC5P0JA0NNNNN | 2 §        |
| 8             | 12            | 14.4        | 5              | 5             | 20G11FD8P0AA0NNNNN | 8.7           | 13            | 15.6          | 4              | 4          | 20G11FC8P0JA0NNNNN | 2 §        |
| 11            | 16.5          | 19.8        | 7.5            | 7.5           | 20G11FD011AA0NNNNN | 11.5          | 17.2          | 20.7          | 5.5            | 5.5        | 20G11FC011JA0NNNNN | 2 §        |
| 14 (11)       | 15.4 (16.5)   | 21 (21)     | 10             | 7.5           | 20G11FD014AA0NNNNN | 15.4 (11.5)   | 16.9 (17.3)   | 23.1 (23.1)   | 7.5            | 5.5        | 20G11FC015JA0NNNNN | 2          |
| 22 (14)       | 24.2 (21)     | 33 (33)     | 15             | 10            | 20G11FD022AA0NNNNN | 22 (15.4)     | 24.2 (23.1)   | 33 (33)       | 11             | 7.5        | 20G11FC022JA0NNNNN | 2          |
| 27 (22)       | 29.7 (33)     | 40.5 (40.5) | 20             | 15            | 20G11FD027AA0NNNNN | 30 (22)       | 33 (33)       | 45 (45)       | 15             | 11         | 20G11FC030JA0NNNNN | 3          |
| 34 (27)       | 37.4 (40.5)   | 51 (51)     | 25             | 20            | 20G11FD034AA0NNNNN | 37 (30)       | 40.7 (45)     | 55.5 (55.5)   | 18.5           | 15         | 20G11FC037JA0NNNNN | 3          |
| 40 (34)       | 44 (51)       | 60 (61.2)   | 30             | 25            | 20G11FD040AA0NNNNN | 43 (37)       | 47.3 (55.5)   | 64.5 (66.6)   | 22             | 18.5       | 20G11FC043JA0NNNNN | 3          |
| 52 (40)       | 57.2 (60)     | 78 (78)     | 40             | 30            | 20G11FD052AA0NNNNN | 60 (43)       | 66 (66)       | 90 (90)       | 30             | 22         | 20G11FC060JA0NNNNN | 4          |
| 65 (52)       | 71.5 (78)     | 97.5 (97.5) | 50             | 40            | 20G11FD065AA0NNNNN | 72 (60)       | 79.2 (90)     | 108 (108)     | 37             | 30         | 20G11FC072JA0NNNNN | 4          |
| 77 (65)       | 84.7 (97.5)   | 115.5 (117) | 60             | 50            | 20G11FD077AA0NNNNN | 85 (72)       | 93.5 (108)    | 127.5 (129.6) | 45             | 37         | 20G11FC085JA0NNNNN | 5          |
| 96 (77)       | 105.6 (115.5) | 144 (144)   | 75             | 60            | 20G11FD096AA0NNNNN | 104 (85)      | 114.4 (127.5) | 156 (156)     | 55             | 45         | 20G11FC104JA0NNNNN | 5          |

**Note:** Frames 6...7 require an optional user installed flange kit with an IP00, NEMA/UL Type Open drive.

\* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

‡ Some drives have dual current ratings; one for normal duty applications, and one for heavy duty applications (in parenthesis). The drive may be operated at either rating.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

**DC Input Drives**

DC Bus Bars for Frame 6 & 7 are not included in the standard catalog numbers provided, however user installed kits are available (see page 68).

### 315 kW / 400 Hp to 450 kW / 700 Hp



IP20, NEMA/UL Type 1 Drive (2500 MCC Style Cabinet)

**Important:** A Roll-out Cart (sold separately) is required for installation.

- includes:
- DC link choke
  - AC line fuses
  - Roll-out design



IP20, NEMA/UL Type 1 Drive and Cabinet Options (2500 MCC Style Cabinet)

**Important:** A Roll-out Cart (sold separately) is required for installation.

- includes:
- DC link choke
  - AC line fuses
  - Roll-out design
  - Option bay for control/protection devices



Roll-out Cart

- Required for Frame 8 drives
- Adjustable Curb Height: 0...182 mm (0...7.2 in.)
- Adjustment for Curb Offset/Reach: 0...114 mm (0...4.5 in.)

### Power Wiring Options

| Cable Option                          | Wire Entry/Exit Location  | IP20, NEMA/UL Type 1 Drive (2500 MCC Style Cabinet) |                                  | IP20, NEMA/UL Type 1 Drive and Cabinet Options (2500 MCC Style Cabinet) |   |
|---------------------------------------|---------------------------|---|----------------------------------|---|---|
|                                       |                           | 600 mm (23.6 in.) Deep Drive Bay                    | 800 mm (31.5 in.) Deep Drive Bay | 600 or 800 mm Deep Drive Bay w/600 mm Wide Wiring Only Bay              | 600 or 800 mm Deep Drive Bay w/600 mm Cabinet Options Bay |
| Armored Cable with Conduit Hubs       | Top Entry, Bottom Exit    |   | ✓                                | ✓   | ✓   |
|                                       | Bottom Entry, Bottom Exit |   | ✓                                | ✓   |   |
|                                       | Top Entry, Top Exit       |   | ✓                                | ✓   |   |
| Shielded Cable with Conduit Hubs      | Top Entry, Bottom Exit    | ✓   | ✓                                | ✓   | ✓   |
|                                       | Bottom Entry, Bottom Exit |   | ✓                                | ✓   |   |
|                                       | Top Entry, Top Exit       |   | ✓                                | ✓   | ✓ ♣   |
| Shielded Cable without Conduit Hubs ➤ | Bottom Entry, Bottom Exit | ✓   | ✓                                | ✓   |   |

♣ This wiring configuration is possible when there are no output options in the option bay and the motor connections are wired from the drive bay.

➤ Other configurations with shielded cable are possible, however the use of conduit hubs is recommended.

## IP20, NEMA/UL Type 1 (2500 MCC Style Cabinet)

### 380...400V AC, Three-Phase Drives †

| Light Duty  |        |        |     | Normal Duty |        |        |     | Heavy Duty  |        |        |     | Cat. No. *         | Frame Size |
|-------------|--------|--------|-----|-------------|--------|--------|-----|-------------|--------|--------|-----|--------------------|------------|
| Output Amps |        |        | kW  | Output Amps |        |        | kW  | Output Amps |        |        | kW  |                    |            |
| Cont.       | 1 Min. | 3 Sec. |     | Cont.       | 1 Min. | 3 Sec. |     | Cont.       | 1 Min. | 3 Sec. |     |                    |            |
| 540         | 594    | NA     | 315 | 460         | 506    | 693    | 250 | 385         | 578    | 693    | 200 | 20G1A®C460JN0NNNNN | 8          |
| 585         | 644    |        | 315 | 540         | 594    | 821    | 315 | 456         | 684    | 821    | 250 | 20G1A®C540JN0NNNNN | 8          |
| 612         | 673    |        | 355 | 567         | 624    | 851    | 315 | 472         | 708    | 851    | 250 | 20G1A®C567JN0NNNNN | 8          |
| 750         | 825    |        | 400 | 650         | 715    | 975    | 355 | 540         | 810    | 975    | 315 | 20G1A®C650JN0NNNNN | 8          |
| 796         | 876    |        | 450 | 750         | 825    | 1125   | 400 | 585         | 878    | 1125   | 315 | 20G1A®C750JN0NNNNN | 8          |
| 832         | 915    |        | 450 | 770         | 847    | 1155   | 400 | 642         | 963    | 1155   | 355 | 20G1A®C770JN0NNNNN | 8          |

※ The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

\* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

### 480V AC, Three-Phase Drives †

| Light Duty  |        |        |     | Normal Duty |        |        |     | Heavy Duty  |        |        |     | Cat. No.           | Frame Size |
|-------------|--------|--------|-----|-------------|--------|--------|-----|-------------|--------|--------|-----|--------------------|------------|
| Output Amps |        |        | Hp  | Output Amps |        |        | Hp  | Output Amps |        |        | Hp  |                    |            |
| Cont.       | 1 Min. | 3 Sec. |     | Cont.       | 1 Min. | 3 Sec. |     | Cont.       | 1 Min. | 3 Sec. |     |                    |            |
| 485         | 534    | NA     | 400 | 430         | 473    | 666    | 350 | 370         | 555    | 666    | 300 | 20G1A®D430AN0NNNNN | 8          |
| 545         | 600    |        | 450 | 485         | 534    | 745    | 400 | 414         | 621    | 745    | 350 | 20G1A®D485AN0NNNNN | 8          |
| 590         | 649    |        | 500 | 545         | 600    | 818    | 450 | 454         | 681    | 818    | 350 | 20G1A®D545AN0NNNNN | 8          |
| 710         | 781    |        | 600 | 617         | 679    | 926    | 500 | 485         | 728    | 926    | 400 | 20G1A®D617AN0NNNNN | 8          |
| 765         | 842    |        | 650 | 710         | 781    | 1065   | 600 | 545         | 818    | 1065   | 450 | 20G1A®D710AN0NNNNN | 8          |
| 800         | 880    |        | 700 | 740         | 814    | 1110   | 650 | 617         | 926    | 1110   | 500 | 20G1A®D740AN0NNNNN | 8          |

※ The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

### IP20, NEMA/UL Type 1 and Cabinet Options (2500 MCC Style Cabinet)

To configure a catalog number for a drive with cabinet options:

1. Select the base drive catalog number from the tables below.
2. Select the System Overload Duty Cycle and Power Disconnect options from the Required Options table on page 63. Add the desired option codes to the end of the base catalog number, separating each option code with a dash. For example: 21G1A\***C460JN0NNNNN-LD-P3**.
3. Select other options from the Additional Options table. Add the option code(s) to the end of the catalog number separating each code with a dash. For example: 21G1A\***C460JN0NNNNN-LD-P3-P11**.

#### 380...400V AC, Three-Phase Drives § †

| Light Duty (-LD) |        |        |     | Normal Duty (-ND) |        |        |     | Heavy Duty (-HD) |        |        |     | Base Drive Cat. No. *      | Frame Size |
|------------------|--------|--------|-----|-------------------|--------|--------|-----|------------------|--------|--------|-----|----------------------------|------------|
| Output Amps      |        |        | kW  | Output Amps       |        |        | kW  | Output Amps      |        |        | kW  |                            |            |
| Cont.            | 1 Min. | 3 Sec. |     | Cont.             | 1 Min. | 3 Sec. |     | Cont.            | 1 Min. | 3 Sec. |     |                            |            |
| 540              | 594    | NA     | 315 | 460               | 506    | 693    | 250 | 385              | 578    | 693    | 200 | 21G1A* <b>C460JN0NNNNN</b> | 8          |
| 585              | 644    |        | 315 | 540               | 594    | 821    | 315 | 456              | 684    | 821    | 250 | 21G1A* <b>C540JN0NNNNN</b> | 8          |
| 612              | 673    |        | 355 | 567               | 624    | 851    | 315 | 472              | 708    | 851    | 250 | 21G1A* <b>C567JN0NNNNN</b> | 8          |
| 750              | 825    |        | 400 | 650               | 715    | 975    | 355 | 540              | 810    | 975    | 315 | 21G1A* <b>C650JN0NNNNN</b> | 8          |
| 796              | 876    |        | 450 | 750               | 825    | 1125   | 400 | 585              | 878    | 1125   | 315 | 21G1A* <b>C750JN0NNNNN</b> | 8          |
| 832              | 915    |        | 450 | 770               | 847    | 1155   | 400 | 642              | 963    | 1155   | 355 | 21G1A* <b>C770JN0NNNNN</b> | 8          |

\* The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. "P" = Packaged Drive - IP20, NEMA/UL Type 1, MCC style w/MCC bus, 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

\* The 11th character determines default Filtering and Common Mode Cap jumper configuration. "J" = Installed, "A" = Removed.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

#### 480V AC, Three-Phase Drives § †

| Light Duty (-LD) |        |        |     | Normal Duty (-ND) |        |        |     | Heavy Duty (-HD) |        |        |     | Base Drive Cat. No.        | Frame Size |
|------------------|--------|--------|-----|-------------------|--------|--------|-----|------------------|--------|--------|-----|----------------------------|------------|
| Output Amps      |        |        | Hp  | Output Amps       |        |        | Hp  | Output Amps      |        |        | Hp  |                            |            |
| Cont.            | 1 Min. | 3 Sec. |     | Cont.             | 1 Min. | 3 Sec. |     | Cont.            | 1 Min. | 3 Sec. |     |                            |            |
| 485              | 534    | NA     | 400 | 430               | 473    | 666    | 350 | 370              | 555    | 666    | 300 | 21G1A* <b>D430AN0NNNNN</b> | 8          |
| 545              | 600    |        | 450 | 485               | 534    | 745    | 400 | 414              | 621    | 745    | 350 | 21G1A* <b>D485AN0NNNNN</b> | 8          |
| 590              | 649    |        | 500 | 545               | 600    | 818    | 450 | 454              | 681    | 818    | 350 | 21G1A* <b>D545AN0NNNNN</b> | 8          |
| 710              | 781    |        | 600 | 617               | 679    | 926    | 500 | 485              | 728    | 926    | 400 | 21G1A* <b>D617AN0NNNNN</b> | 8          |
| 765              | 842    |        | 650 | 710               | 781    | 1065   | 600 | 545              | 818    | 1065   | 450 | 21G1A* <b>D710AN0NNNNN</b> | 8          |
| 800              | 880    |        | 700 | 740               | 814    | 1110   | 650 | 617              | 926    | 1110   | 500 | 21G1A* <b>D740AN0NNNNN</b> | 8          |

\* The 6th character determines Enclosure Type & Depth. "B" = IP20, NEMA/UL Type 1, MCC style 600 mm (23.6 in.) deep. "L" = IP20, NEMA/UL Type 1, MCC style 800 mm (31.5 in.) deep. "P" = Packaged Drive - IP20, NEMA/UL Type 1, MCC style w/MCC bus, 800 mm (31.5 in.) deep. Refer to the Power Wiring Options table.

§ Contact your local Rockwell Automation sales office or Allen-Bradley distributor for availability.

† A Roll-out Cart is required with Frame 8 drives to assist with power wiring and cabinet mounting. Refer to page 68.

## Required Options

| Type                                  | Option |   | Description   |
|---------------------------------------|--------|---|---|
| System Overload Duty Cycle ♣ ➤        | LD     | Light Duty                                    | 100% continuous current, 110% current for 1 minute.   |
|                                       | ND     | Normal Duty                                   | 100% continuous current, 110% current for 1 minute, 150% for 3 seconds.   |
|                                       | HD     | Heavy Duty                                    | 100% continuous current, 150% current for 1 minute, 200% for 3 seconds.   |
| Power Disconnect or Wiring Only Bay ♣ | P3     | Input Thermal Magnetic Circuit Breaker        | This option is for disconnecting drive power. An Allen-Bradley 140U Molded Case Circuit Breaker is provided. The circuit breaker is rated at 100 kA interrupt rating for 400 and 480V AC systems. All switches include flange style handle operators that are door interlocking and padlockable.  |
|                                       | P5     | Input Non-Fused Molded Case Disconnect Switch | This option is for disconnecting drive power. An Allen-Bradley 140U Molded Case Switch is provided. The disconnect is rated at 65 kA interrupt rating. All switches include flange style handle operators that are door interlocking and padlockable.   |
|                                       | P14    | Wiring Only Bay                               | This option identifies that an extra bay will be provided for the purpose of wiring the drive. This option will extend the drive power bus from the drive bay into the option bay, making field connection options more flexible. No drive input protection is supplied with this option. Documentation to reflect input disconnection and protection is customer supplied. |

♣ Only one option of this type may be selected.

➤ See previous selection tables for specific rating information.

## Additional Options

| Type                     | Option |                   | Description  |
|--------------------------|--------|-------------------|--|
| Contactors ♣ ⚡           | P11    | Input Contactor   | A contactor is provided between the AC line and the drive. The contactor is controlled by customer supplied 120V AC remote contact closure logic. A terminal block for control is provided for customer use, and is wired to 1 N.O. and 1 N.C. auxiliary contact on the contactor. Important: The P11 option "Alternate Contact Circuit" is not intended to be used as a Start/Stop circuit. |
|                          | P12    | Output Contactor  | A contactor is provided between the drive output and the motor. The contactor is controlled by customer supplied 120V AC remote contact closure logic. A terminal block for control is provided for customer use and is wired to 1 N.O. and 1 N.C. auxiliary contact on the contactor.   |
| Reactors ♣               | L1     | 3% Input Reactor  | Provides an open core drive input line reactor that mounts inside the drive enclosure. Typical impedance is 3%.  |
|                          | L2     | 3% Output Reactor | Provides an open core drive output load reactor, which mounts inside the drive enclosure. Typical impedance is 3%.   |
|                          | L3     | 5% Input Reactor  | Provides an open core drive input line reactor that mounts inside the drive enclosure. Typical impedance is 5%.  |
|                          | L4     | 5% Output Reactor | Provides an open core drive output load reactor, which mounts inside the drive enclosure. Typical impedance is 5%.   |
| MCC Power Bus Capacity ♣ | P20    | 1250 Amp Bus      | Provides a 1250 Amp Bus.   |
|                          | P22    | 2000 Amp Bus      | Provides a 2000 Amp Bus.   |
|                          | P24    | 3200 Amp Bus      | Provides a 3200 Amp Bus.   |

♣ Only one option of this type may be selected.

⚡ Contactor options are not available for systems with MCC power bus.