

Product Details and Certifications

Cross Reference RA Part Number: U-008209192%&- (

Product: 205 8 \$ (\$5 0AMN5 N7 0

Description: PowerFlex70 AC Drive, 480 VAC, 3 PH, 40 Amps, 30 HP Normal Duty, 25 HP Heavy Duty, Panel Mount - IP20 / NEMA 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), No Communication Module, Enhanced Control, No Feedback



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

BASE DRIVE INFORMATION

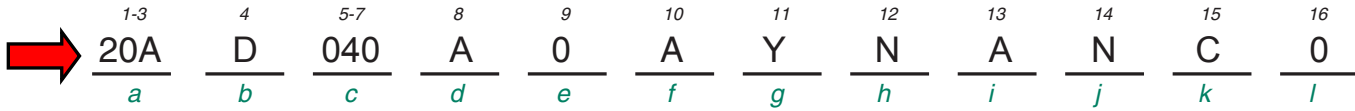
| | |
|----------------|---|
| Input Voltage | 480 VAC, 3 PH |
| Current Rating | 40 Amps |
| Enclosure | Panel Mount - IP20 / NEMA Type 1, with conformal coating |
| Frame Size | Frame Size D |
| Brake IGBT | Brake IGBT |
| Filter Options | Second Environment Filter per CE EMC directive (89/336/EEC) |

~~CDHCBG'IN: CFA5HCB~~

| | |
|-------------------------------|--------------------------|
| Base Plus Options | Base Plus Options Method |
| Human Interface Module | No HIM (Blank) |
| Internal Communication Module | No Communication Module |

Catalog Number Explanation

Position Number



a

| Drive | |
|-------|--------------|
| Code | Type |
| 20A | PowerFlex 70 |

b

| Voltage Rating | | |
|----------------|----------------|----------|
| Code | Voltage | Ph. |
| B | 240V AC | 3 |
| C | 400V AC | 3 |
| D | 480V AC | 3 |
| E | 600V AC | 3 |

c1

| ND Rating | | | |
|-------------------|------|------------|-------|
| 208V, 60 Hz Input | | | |
| Code | Amps | kW (Hp) | Frame |
| 2P2 | 2.5 | 0.37 (0.5) | A |
| 4P2 | 4.8 | 0.75 (1.0) | A |
| 6P8 | 7.8 | 1.5 (2.0) | B |
| 9P6 | 11 | 2.2 (3.0) | B |
| 015 | 17.5 | 4.0 (5.0) | C |
| 022 | 25.3 | 5.5 (7.5) | D |
| 028 | 32.2 | 7.5 (10) | D |
| 042 | 43 | 11 (15) | D |
| 054 | 62.1 | 15 (20) | E |
| 070 | 78.2 | 18.5 (25) | E |

c2

| ND Rating | | | |
|-------------------|------|------------|-------|
| 240V, 60 Hz Input | | | |
| Code | Amps | kW (Hp) | Frame |
| 2P2 | 2.2 | 0.37 (0.5) | A |
| 4P2 | 4.2 | 0.75 (1.0) | A |
| 6P8 | 6.8 | 1.5 (2.0) | B |
| 9P6 | 9.6 | 2.2 (3.0) | B |
| 015 | 15.3 | 4.0 (5.0) | C |
| 022 | 22 | 5.5 (7.5) | D |
| 028 | 28 | 7.5 (10) | D |
| 042 | 42 | 11 (15) | D |
| 054 | 54 | 15 (20) | E |
| 070 | 70 | 18.5 (25) | E |

c3

| ND Rating | | | |
|-------------------|------|------------|-------|
| 400V, 50 Hz Input | | | |
| Code | Amps | kW (Hp) | Frame |
| 1P3 | 1.3 | 0.37 (0.5) | A |
| 2P1 | 2.1 | 0.75 (1.0) | A |
| 3P5 | 3.5 | 1.5 (2.0) | A |
| 5P0 | 5.0 | 2.2 (3.0) | B |
| 8P7 | 8.7 | 4.0 (5.0) | B |
| 011 | 11.5 | 5.5 (7.5) | C |
| 015 | 15.4 | 7.5 (10) | C |
| 022 | 22 | 11 (15) | D |
| 030 | 30 | 15 (20) | D |
| 037 | 37 | 18.5 (25) | D |
| 043 | 43 | 22 (30) | D |
| 060 | 60 | 30 (40) | E |
| 072 | 72 | 37 (50) | E |

c4

| ND Rating | | | |
|-------------------|-----------|----------------|----------|
| 480V, 60 Hz Input | | | |
| Code | Amps | kW (Hp) | Frame |
| 1P1 | 1.1 | 0.37 (0.5) | A |
| 2P1 | 2.1 | 0.75 (1.0) | A |
| 3P4 | 3.4 | 1.5 (2.0) | A |
| 5P0 | 5.0 | 2.2 (3.0) | B |
| 8P0 | 8.0 | 3.7 (5.0) | B |
| 011 | 11 | 5.5 (7.5) | C |
| 014 | 14 | 7.5 (10) | C |
| 022 | 22 | 11 (15) | D |
| 027 | 27 | 15 (20) | D |
| 034 | 34 | 18.5 (25) | D |
| 040 | 40 | 22 (30) | D |
| 052 | 52 | 30 (40) | E |
| 065 | 65 | 37 (50) | E |

c5

| ND Rating | | | |
|---------------------|------|------------|-------|
| 600V, 60 Hz Input * | | | |
| Code | Amps | kW (Hp) | Frame |
| 0P9 | 0.9 | 0.37 (0.5) | A |
| 1P7 | 1.7 | 0.75 (1.0) | A |
| 2P7 | 2.7 | 1.5 (2.0) | A |
| 3P9 | 3.9 | 2.2 (3.0) | B |
| 6P1 | 6.1 | 4.0 (5.0) | B |
| 9P0 | 9.0 | 5.5 (7.5) | C |
| 011 | 11 | 7.5 (10) | C |
| 017 | 17 | 11 (15) | D |
| 022 | 22 | 15 (20) | D |
| 027 | 27 | 18.5 (25) | D |
| 032 | 32 | 22 (30) | D |
| 041 | 41 | 30 (40) | E |
| 052 | 52 | 37 (50) | E |

* CE certification testing has not been performed on 600V class drives.

d

| Enclosure | |
|-----------|---|
| Code | Enclosure |
| A | Panel Mount - IP 20, NEMA/UL Type 1 |
| C | Wall/Machine Mount = IP66, NEMA/UL Type 4X/12 for indoor use only |
| F | Flange Mount - Front Chassis = IP 20, NEMA/UL Type 1; Rear Heatsink = IP66, NEMA/UL Type 4X/12 for indoor/outdoor use |
| G | Wall/Machine Mount - IP54, NEMA/UL Type 12 * |

* Only available on Frame E.

e

| HIM | |
|----------|--------------------|
| Code | Interface Module |
| 0 | Blank Cover |
| 3 | Full Numeric LCD |
| 5 | Prog. Only LCD * |

* Only available with NEMA 4X, option C.

See [Catalog Number Explanation \(continued\)](#) on page 6 for more drive options.

➔ Catalog Number Explanation (continued)

Position Number

| | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1-3 | 4 | 5-7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 20A | D | 040 | A | 0 | A | Y | N | A | N | C | 0 |
| <i>a</i> | <i>b</i> | <i>c</i> | <i>d</i> | <i>e</i> | <i>f</i> | <i>g</i> | <i>h</i> | <i>i</i> | <i>j</i> | <i>k</i> | <i>l</i> |

f

| Documentation | |
|---------------|-----------|
| Code | Type |
| A | Manual |
| N | No Manual |

g

| Brake IGBT | |
|------------|--------------|
| Code | w/Brake IGBT |
| Y | Yes |

h

| Internal Brake Resistor | |
|-------------------------|------------|
| Code | w/Resistor |
| Y | Yes |
| N | No |

i

| Emission Class | |
|----------------|--|
| Code | Rating |
| A | Filtered* A* & B Frames (Optional) C, D, & E Frames (Standard) |
| N | Not Filtered* A & B Frames (Optional) C, D, & E Frames |

* 600V Frames A through D available only without filter (Cat. Code N). 600V Frame E available only with filter (Cat. Code A).
* Increases size to Frame B.

j

| Comm Slot | |
|-----------|-------------------|
| Code | Network Type |
| C | ControlNet (Coax) |
| D | DeviceNet |
| E | EtherNet/IP |
| N | None |

k

| Control & I/O | | |
|---------------|----------|----------|
| Code | Control | Safe-Off |
| N* | Standard | N/A |
| C | Enhanced | No |
| G* | Enhanced | Yes |

* No longer available for sale.
* Not available as factory installed option for 600V ratings.

l

| Feedback | |
|----------|-----------------------------------|
| Code | Feedback |
| 0 | No Feedback - Enhanced Control |
| 1 | 5V/12V Encoder w/Enhanced Control |

Panel Mount - IP20, NEMA/UL Type 1, No HIM (continued)

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

| 480V AC Input | | | | | | 400V AC Input | | | | | | with Filter | 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. | | | | | |
| 1.1 | 1.2 | 1.6 | 0.5 | 0.33 | 20AD1P1A0AYNNNCO | 1.3 | 1.4 | 1.9 | 0.37 | 0.25 | 20AC1P3A0AYNNNCO | N | A |
| 1.1 | 1.2 | 1.6 | 0.5 | 0.33 | 20AD1P1A0AYNNANCO | 1.3 | 1.4 | 1.9 | 0.37 | 0.25 | 20AC1P3A0AYNNANCO | Y | B |
| 2.1 | 2.4 | 3.2 | 1 | 0.75 | 20AD2P1A0AYNNNCO | 2.1 | 2.4 | 3.2 | 0.75 | 0.55 | 20AC2P1A0AYNNNCO | N | A |
| 2.1 | 2.4 | 3.2 | 1 | 0.75 | 20AD2P1A0AYNNANCO | 2.1 | 2.4 | 3.2 | 0.75 | 0.55 | 20AC2P1A0AYNNANCO | Y | B |
| 3.4 | 4.5 | 6 | 2 | 1.5 | 20AD3P4A0AYNNNCO | 3.5 | 4.5 | 6 | 1.5 | 1.1 | 20AC3P5A0AYNNNCO | N | A |
| 3.4 | 4.5 | 6 | 2 | 1.5 | 20AD3P4A0AYNNANCO | 3.5 | 4.5 | 6 | 1.5 | 1.1 | 20AC3P5A0AYNNANCO | Y | B |
| 5 | 5.5 | 7.5 | 3 | 2 | 20AD5P0A0AYNNNCO | 5 | 5.5 | 7.5 | 2.2 | 1.5 | 20AC5P0A0AYNNNCO | N | B |
| 5 | 5.5 | 7.5 | 3 | 2 | 20AD5P0A0AYNNANCO | 5 | 5.5 | 7.5 | 2.2 | 1.5 | 20AC5P0A0AYNNANCO | Y | B |
| 8 | 8.8 | 12 | 5 | 3 | 20AD8P0A0AYNNNCO | 8.7 | 9.9 | 13.2 | 4 | 3 | 20AC8P7A0AYNNNCO | N | B |
| 8 | 8.8 | 12 | 5 | 3 | 20AD8P0A0AYNNANCO | 8.7 | 9.9 | 13.2 | 4 | 3 | 20AC8P7A0AYNNANCO | Y | B |
| 11 | 12.1 | 16.5 | 7.5 | 5 | 20AD011A0AYNNANCO | 11.5 | 13 | 17.4 | 5.5 | 4 | 20AC011A0AYNNANCO | Y | C |
| 14 | 16.5 | 22 | 10 | 7.5 | 20AD014A0AYNNANCO | 15 | 17.2 | 23.1 | 7.5 | 5.5 | 20AC015A0AYNNANCO | Y | C |
| 22 | 24.2 | 33 | 15 | 10 | 20AD022A0AYNNANCO | 22 | 24.2 | 33 | 11 | 7.5 | 20AC022A0AYNNANCO | Y | D |
| 27 | 33 | 44 | 20 | 15 | 20AD034A0AYNNANCO | 30 | 33 | 45 | 15 | 11 | 20AC030A0AYNNANCO | Y | D |
| 34 | 40.5 | 54 | 25 | 20 | 20AD034A0AYNNANCO | 37 | 45 | 60 | 18.5 | 15 | 20AC037A0AYNNANCO | Y | D |
| 40 | 51 | 68 | 30 | 25 | 20AD040A0AYNNANCO | 43 | 56 | 74 | 22 | 18.5 | 20AC043A0AYNNANCO | Y | D |
| 52 | 60 | 80 | 40 | 30 | 20AD052A0AYNNANCO | 60 | 66 | 90 | 30 | 22 | 20AC060A0AYNNANCO | Y | E |
| 65 | 78 | 104 | 50 | 40 | 20AD065A0AYNNANCO | 72 | 90 | 120 | 37 | 30 | 20AC072A0AYNNANCO | Y | E |



500...600V AC, Three-Phase Drives

| 600V AC Input | | | | | | | |
|---------------|--------|--------|----------------|---------------|-------------------|-------------|------------|
| Output Amps | | | Normal Duty Hp | Heavy Duty Hp | Cat. No. | with Filter | Frame Size |
| Cont. | 1 Min. | 3 Sec. | | | | | |
| 0.9 | 1 | 1.4 | 0.5 | 0.33 | 20AE0P9A0AYNNNCO | N | A |
| 1.7 | 1.9 | 2.6 | 1 | 0.75 | 20AE1P7A0AYNNNCO | N | A |
| 2.7 | 3.6 | 4.8 | 2 | 1 | 20AE2P7A0AYNNNCO | N | A |
| 3.9 | 4.3 | 5.8 | 3 | 1.5 | 20AE3P9A0AYNNNCO | N | B |
| 6.1 | 6.7 | 9.1 | 5 | 3 | 20AE6P1A0AYNNNCO | N | B |
| 9 | 9.9 | 13.5 | 7.5 | 5 | 20AE9P0A0AYNNNCO | N | C |
| 11 | 13.5 | 18 | 10 | 7.5 | 20AE011A0AYNNNCO | N | C |
| 17 | 18.7 | 25.5 | 15 | 10 | 20AE017A0AYNNNCO | N | D |
| 22 | 25.5 | 34 | 20 | 15 | 20AE022A0AYNNNCO | N | D |
| 27 | 33 | 44 | 25 | 20 | 20AE027A0AYNNNCO | N | D |
| 32 | 40.5 | 54 | 30 | 25 | 20AE032A0AYNNNCO | N | D |
| 41 | 48 | 64 | 40 | 30 | 20AE041A0AYNNANCO | N | E |
| 52 | 61.5 | 82 | 50 | 40 | 20AE052A0AYNNANCO | N | E |