

YASKAWA

FP605 DRIVE

MULTIPLE RATINGS SUPPLEMENT

AC DRIVE FOR INDUSTRIAL FAN AND PUMP APPLICATIONS

AFFECTED DOCUMENTS:

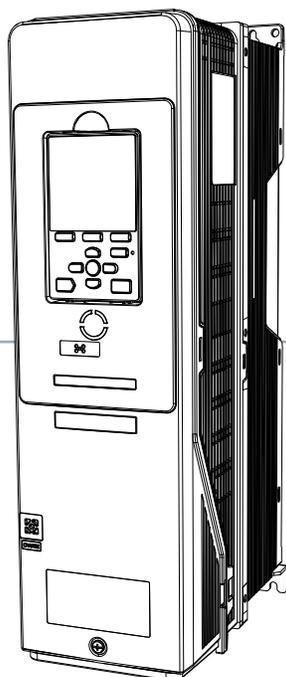
FP605 Technical Reference (SIEPC7106171F)

FP605 Installation & Primary Operation Manual (TOEPC7106171F)

FP605 Quick Setup Procedures (TOEPC7106171A to TOEPC7106171M)

PDF

[yaskawa.com/TOEPYAISUP31](https://www.yaskawa.com/TOEPYAISUP31)



Simplify Drive Installation
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DOCUMENT NUMBER: TOEPYAISUP31

1 Supplemental Information - Applicable Documents

The contents of this supplement apply to the product instructions in [Table 1.1](#).

Table 1.1 Affected Documents

| Drive Series | Document |
|--------------|---|
| FP605 | Technical Reference (SIEPC7106171F) |
| | Installation & Primary Operation Manual (TOEPC7106171F) |
| | Quick Setup Procedures (TOEPC7106171A to TOEPC7106171M) |

2 Multiple Ratings for FP605 Drives

This document details the various ratings available for FP605 drives and outlines the correct sizing of branch circuit protection along with input and output conductors for FP605 installations.

Per the National Electric Code (NEC), input conductors must be rated at 125% of the drive maximum input current, and output conductors must be rated at 125% of the motor Full Load Amps (FLA). In the tables below, the drive output current rating was used instead of the motor FLA.

This reduced rating sizing approach is ideal in certain applications, such as emergency drive replacements that use a larger drive, drive systems with multiple motors, or where the drive is significantly oversized for the connected motor. In these applications, power distribution components are often unnecessarily oversized to maintain NEC compliance. To mitigate this issue, UL permits multiple ratings for a single drive, providing a more efficient approach to conductor and branch circuit protection component sizing.

◆ Multiple Ratings

Calculate the total FLA for all motors connected to the drive by summing their individual FLA values. The value set for *E2-01* becomes the reference value for motor protection and the torque limit. Enter the motor rated current as written on the motor nameplate. Auto-Tuning automatically sets *E2-01* to the value input for “Motor Rated Current”.

Once you have the total FLA, refer to [Table 2.1](#) to [Table 2.22](#) depending on the desired drive rating, and use the calculated current value to determine the appropriate allowable input current rating for the drive. This ensures proper conductor sizing while optimizing system efficiency. The following tables and examples are provided for guidance only. You must comply with NEC and local codes when you select conductors and branch circuit protection for your application.

Fuse, MCCB, and MCP recommendations are provided in the tables below. You cannot reduce semiconductor fuses or MCP device sizes. Class CC, J, or T fuses (sized at 175% of drive output FLA rating) and MCCBs (Sized at 200% of drive output FLA rating for models 2011–2273 and 4005–4302, and at 250% of drive output FLA rating for models 2343, 2396, and 4361–4720) can use the reduced ratings, and you must follow NEC and local codes.

■ Three-Phase 240 V

Table 2.1 100% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 10.6 | 8.8 | 17.5 | 17.5 | FWH-40B | 25 | 25 | HLL36030 M71 | 14 | 14 | 14 | 14 |
| 2017 | 16.7 | 14.0 | 25 | 25 | FWH-45B | 40 | 40 | HLL36030 M71 | 12 | 12 | 10 | 10 |
| 2024 | 24.2 | 20.0 | 40 | 40 | FWH-80B | 60 | 60 | HLL36050 M72 | 10 | 10 | 8 | 8 |
| 2031 | 30.8 | 27.0 | 50 | 50 | FWH-125B | 75 | 75 | HLL36050 M72 | 8 | 8 | 8 | 8 |

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|-------------------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2046 | 46.2 | 40.0 | 80 | 80 | FWH-125B | 110 | 110 | HLL36100 M73 | 8 | 8 | 6 | 6 |
| 2059 | 59.4 | 54.0 | 100 | 100 | FWH-175B | 125 | 125 | HLL36100 M73 | 4 | 4 | 4 | 4 |
| 2075 | 74.8 | 66.0 | 125 | 125 | FWH-200B | 175 | 175 | HLL36150 M74 | 4 | 4 | 3 or 2 | 3 |
| 2088 | 88.0 | 78.0 | 150 | 150 | FWH-225A | 200 | 200 | HLL36150 M74 | 3 or 2 | 3 | 2 | 2 |
| 2114 | 114.0 | 106.0 | 200 | 200 | FWH-225A | 250 | 250 | HLL36150 M74 | 1/0 | 1/0 | 1/0 | 1/0 |
| 2143 | 143.0 | 130.0 | 250 | 250 | FWH-250A | 350 | 350 | JLL36250 M75 | 2/0 | 2/0 | 3/0 | 3/0 |
| 2169 | 169.0 | 157.0 | 250 | 250 | FWH-275A | 400 | 400 | JLL36250 M75 | 3/0 | 3/0 | 4/0 | 4/0 |
| 2211 | 211.0 | 200.0 | 350 | 350 | FWH-600A | 500 | 500 | LAL3640036 M or LLL36400 M37X | 1/0 × 2P | 1/0 × 2P | 1/0 × 2P | 1/0 × 2P |
| 2273 | 273.0 | 271.0 | 450 | 450 | FWH-800A | 600 | 600 | LAL3640036 M or LLL36400 M37X | 2/0 × 2P | 2/0 × 2P | 2/0 × 2P | 2/0 × 2P |
| 2343 | 343.0 | 324.0 | 600 | 600 | FWH-1000A or FWH-1000B | 700 | 700 | PLL34060 M68 | 4/0 × 2P | 4/0 × 2P | 4/0 × 2P | 4/0 × 2P |
| 2396 | 396.0 | 394.0 | 700 | 700 | FWH-1000A or FWH-1000B | 800 | 800 | PLL34060 M68 | 250 × 2P | 250 × 2P | 250 × 2P | 250 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.2 95% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 10.1 | 8.4 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 2017 | 15.9 | 13.7 | - | 25 | - | - | 35 | - | - | 12 | - | 10 |
| 2024 | 23.0 | 19.9 | - | 40 | - | - | 50 | - | - | 10 | - | 10 |
| 2031 | 29.3 | 26.7 | - | 50 | - | - | 60 | - | - | 8 | - | 8 |
| 2046 | 43.9 | 38.5 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 2059 | 56.4 | 51.8 | - | 90 | - | - | 125 | - | - | 4 | - | 4 |
| 2075 | 71.1 | 63.4 | - | 110 | - | - | 175 | - | - | 4 | - | 3 |
| 2088 | 83.6 | 75.0 | - | 125 | - | - | 200 | - | - | 3 | - | 2 |
| 2114 | 108.3 | 101.3 | - | 175 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 2143 | 135.9 | 124.2 | - | 225 | - | - | 300 | - | - | 2/0 | - | 3/0 |
| 2169 | 160.6 | 150.3 | - | 250 | - | - | 400 | - | - | 3/0 | - | 4/0 |
| 2211 | 200.5 | 193.5 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2273 | 259.4 | 262.0 | - | 450 | - | - | 600 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 2343 | 325.9 | 313.3 | - | 500 | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 2396 | 376.2 | 381.4 | - | 600 | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |

2 Multiple Ratings for FP605 Drives

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.3 90% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 9.5 | 8.0 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 2017 | 15.0 | 13.0 | - | 25 | - | - | 35 | - | - | 12 | - | 12 |
| 2024 | 21.8 | 18.9 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 2031 | 27.7 | 25.3 | - | 45 | - | - | 60 | - | - | 8 | - | 8 |
| 2046 | 41.6 | 36.5 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 2059 | 53.5 | 49.2 | - | 90 | - | - | 125 | - | - | 4 | - | 4 |
| 2075 | 67.3 | 60.2 | - | 110 | - | - | 150 | - | - | 4 | - | 4 |
| 2088 | 79.2 | 71.2 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 2114 | 102.6 | 96.1 | - | 175 | - | - | 250 | - | - | 1 | - | 1 |
| 2143 | 128.7 | 117.8 | - | 225 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 2169 | 152.1 | 142.6 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 2211 | 189.9 | 183.6 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2273 | 245.7 | 248.5 | - | 400 | - | - | 600 | - | - | 2/0 × 2P | - | 1/0 × 2P |
| 2343 | 308.7 | 297.1 | - | 500 | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 2396 | 356.4 | 361.7 | - | 600 | - | - | 700 | - | - | 250 × 2P | - | 4/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.4 85% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 9.0 | 7.6 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 2017 | 14.2 | 12.3 | - | 20 | - | - | 35 | - | - | 12 | - | 12 |
| 2024 | 20.6 | 17.9 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 2031 | 26.2 | 24.0 | - | 45 | - | - | 60 | - | - | 8 | - | 8 |
| 2046 | 39.3 | 34.6 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 2059 | 50.5 | 46.6 | - | 80 | - | - | 125 | - | - | 6 | - | 6 |
| 2075 | 63.6 | 57.0 | - | 110 | - | - | 150 | - | - | 4 | - | 4 |
| 2088 | 74.8 | 67.4 | - | 125 | - | - | 175 | - | - | 4 | - | 3 |
| 2114 | 96.9 | 90.9 | - | 150 | - | - | 225 | - | - | 1 | - | 1 |
| 2143 | 121.6 | 111.5 | - | 200 | - | - | 300 | - | - | 1/0 | - | 2/0 |
| 2169 | 143.7 | 134.9 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 2211 | 179.4 | 173.6 | - | 300 | - | - | 400 | - | - | 1/0 × 2P | - | 1 × 2P* |
| 2273 | 232.1 | 235.0 | - | 400 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2343 | 291.6 | 280.9 | - | 500 | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 2396 | 336.6 | 342.0 | - | 500 | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.5 80% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 8.5 | 7.2 | - | 12 | - | - | 20 | - | - | 14 | - | 14 |
| 2017 | 13.4 | 11.6 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 2024 | 19.4 | 16.9 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 2031 | 24.6 | 22.7 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 2046 | 37.0 | 32.6 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 2059 | 47.5 | 43.9 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 2075 | 59.8 | 53.8 | - | 100 | - | - | 125 | - | - | 4 | - | 4 |
| 2088 | 70.4 | 63.5 | - | 110 | - | - | 175 | - | - | 4 | - | 3 |
| 2114 | 91.2 | 85.8 | - | 150 | - | - | 225 | - | - | 2 | - | 1 |
| 2143 | 114.4 | 105.1 | - | 200 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 2169 | 135.2 | 127.1 | - | 225 | - | - | 300 | - | - | 2/0 | - | 3/0 |
| 2211 | 168.8 | 163.7 | - | 250 | - | - | 400 | - | - | 4/0 | - | 4/0 |
| 2273 | 218.4 | 221.5 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2343 | 274.4 | 264.7 | - | 450 | - | - | 500 | - | - | 2/0 × 2P | - | 3/0 × 2P |
| 2396 | 316.8 | 322.2 | - | 500 | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.6 75% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 8.0 | 6.8 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 2017 | 12.5 | 11.0 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 2024 | 18.2 | 15.9 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 2031 | 23.1 | 21.3 | - | 40 | - | - | 50 | - | - | 10 | - | 8 |
| 2046 | 34.7 | 30.7 | - | 60 | - | - | 80 | - | - | 8 | - | 8 |
| 2059 | 44.6 | 41.3 | - | 70 | - | - | 110 | - | - | 6 | - | 6 |
| 2075 | 56.1 | 50.5 | - | 90 | - | - | 125 | - | - | 4 | - | 4 |
| 2088 | 66.0 | 59.7 | - | 110 | - | - | 150 | - | - | 4 | - | 4 |
| 2114 | 85.5 | 80.6 | - | 125 | - | - | 200 | - | - | 2 | - | 2 |
| 2143 | 107.3 | 98.7 | - | 175 | - | - | 250 | - | - | 1 | - | 1/0 |
| 2169 | 126.8 | 119.4 | - | 200 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 2211 | 158.3 | 153.7 | - | 250 | - | - | 350 | - | - | 3/0 | - | 4/0 |
| 2273 | 204.8 | 208.0 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2343 | 257.3 | 248.5 | - | 450 | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 2396 | 297.0 | 302.5 | - | 500 | - | - | 500 | - | - | 4/0 × 2P | - | 3/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

2 Multiple Ratings for FP605 Drives

Table 2.7 70% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 7.4 | 6.4 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 2017 | 11.7 | 10.3 | - | 20 | - | - | 25 | - | - | 14 | - | 12 |
| 2024 | 16.9 | 14.9 | - | 25 | - | - | 40 | - | - | 12 | - | 10 |
| 2031 | 21.6 | 20.0 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 2046 | 32.3 | 28.7 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 2059 | 41.6 | 38.6 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 2075 | 52.4 | 47.3 | - | 90 | - | - | 125 | - | - | 6 | - | 4 |
| 2088 | 61.6 | 55.8 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 2114 | 79.8 | 75.4 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 2143 | 100.1 | 92.3 | - | 175 | - | - | 250 | - | - | 1 | - | 1 |
| 2169 | 118.3 | 111.6 | - | 200 | - | - | 250 | - | - | 1/0 | - | 2/0 |
| 2211 | 147.7 | 143.7 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 2273 | 191.1 | 194.4 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2343 | 240.1 | 232.3 | - | 400 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2396 | 277.2 | 282.7 | - | 450 | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.8 65% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 6.9 | 5.9 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 2017 | 10.9 | 9.6 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 2024 | 15.7 | 13.9 | - | 25 | - | - | 35 | - | - | 12 | - | 10 |
| 2031 | 20.0 | 18.6 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 2046 | 30.0 | 26.8 | - | 50 | - | - | 75 | - | - | 8 | - | 8 |
| 2059 | 38.6 | 36.0 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 2075 | 48.6 | 44.0 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 2088 | 57.2 | 52.0 | - | 100 | - | - | 125 | - | - | 4 | - | 4 |
| 2114 | 74.1 | 70.1 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 2143 | 93.0 | 85.9 | - | 150 | - | - | 225 | - | - | 2 | - | 1 |
| 2169 | 109.9 | 103.9 | - | 175 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 2211 | 137.2 | 133.7 | - | 225 | - | - | 300 | - | - | 2/0 | - | 3/0 |
| 2273 | 177.5 | 180.9 | - | 300 | - | - | 400 | - | - | 1/0 × 2P | - | 4/0 |
| 2343 | 223.0 | 216.1 | - | 350 | - | - | 400 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2396 | 257.4 | 262.9 | - | 450 | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.9 60% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 6.4 | 5.5 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 2017 | 10.0 | 8.9 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 2024 | 14.5 | 12.9 | - | 25 | - | - | 35 | - | - | 12 | - | 12 |
| 2031 | 18.5 | 17.3 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 2046 | 27.7 | 24.8 | - | 45 | - | - | 60 | - | - | 8 | - | 8 |
| 2059 | 35.6 | 33.3 | - | 60 | - | - | 80 | - | - | 8 | - | 8 |
| 2075 | 44.9 | 40.8 | - | 70 | - | - | 110 | - | - | 6 | - | 6 |
| 2088 | 52.8 | 48.1 | - | 90 | - | - | 125 | - | - | 6 | - | 4 |
| 2114 | 68.4 | 64.9 | - | 110 | - | - | 150 | - | - | 4 | - | 3 |
| 2143 | 85.8 | 79.5 | - | 150 | - | - | 200 | - | - | 2 | - | 2 |
| 2169 | 101.4 | 96.1 | - | 175 | - | - | 250 | - | - | 1 | - | 1 |
| 2211 | 126.6 | 123.7 | - | 200 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 2273 | 163.8 | 167.3 | - | 250 | - | - | 400 | - | - | 4/0 | - | 4/0 |
| 2343 | 205.8 | 199.8 | - | 350 | - | - | 400 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2396 | 237.6 | 243.1 | - | 400 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.10 55% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 5.8 | 5.1 | - | 10 | - | - | 10 | - | - | 14 | - | 14 |
| 2017 | 9.2 | 8.2 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 2024 | 13.3 | 11.9 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 2031 | 16.9 | 15.9 | - | 25 | - | - | 40 | - | - | 10 | - | 10 |
| 2046 | 25.4 | 22.8 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 2059 | 32.7 | 30.7 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 2075 | 41.1 | 37.5 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 2088 | 48.4 | 44.3 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 2114 | 62.7 | 59.7 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 2143 | 78.7 | 73.1 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 2169 | 93.0 | 88.4 | - | 150 | - | - | 225 | - | - | 1 | - | 1 |
| 2211 | 116.1 | 113.7 | - | 200 | - | - | 250 | - | - | 2/0 | - | 2/0 |
| 2273 | 150.2 | 153.7 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 2343 | 188.7 | 183.6 | - | 300 | - | - | 350 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 2396 | 217.8 | 223.3 | - | 350 | - | - | 400 | - | - | 1/0 × 2P | - | 1/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.11 50% Ratings for FP605 Drives (Three-Phase 240 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 2011 | 5.3 | 4.7 | - | 9 | - | - | 10 | - | - | 14 | - | 14 |
| 2017 | 8.4 | 7.5 | - | 12 | - | - | 20 | - | - | 14 | - | 14 |
| 2024 | 12.1 | 10.9 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 2031 | 15.4 | 14.5 | - | 25 | - | - | 35 | - | - | 12 | - | 10 |
| 2046 | 23.1 | 20.9 | - | 40 | - | - | 50 | - | - | 10 | - | 8 |
| 2059 | 29.7 | 28.0 | - | 50 | - | - | 60 | - | - | 8 | - | 8 |
| 2075 | 37.4 | 34.2 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 2088 | 44.0 | 40.4 | - | 70 | - | - | 110 | - | - | 6 | - | 6 |
| 2114 | 57.0 | 54.5 | - | 90 | - | - | 125 | - | - | 4 | - | 4 |
| 2143 | 71.5 | 66.7 | - | 125 | - | - | 175 | - | - | 4 | - | 3 |
| 2169 | 84.5 | 80.6 | - | 125 | - | - | 200 | - | - | 2 | - | 2 |
| 2211 | 105.5 | 103.6 | - | 175 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 2273 | 136.5 | 140.1 | - | 225 | - | - | 300 | - | - | 3/0 | - | 3/0 |
| 2343 | 171.5 | 167.3 | - | 300 | - | - | 300 | - | - | 4/0 | - | 4/0 |
| 2396 | 198.0 | 203.5 | - | 300 | - | - | 350 | - | - | 1/0 × 2P | - | 1/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

■ Three-Phase 480 V

Table 2.12 100% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 4.8 | 3.8 | 8 | 8 | FWH-25A14F | 15 | 15 | HLL36030 M71 | 14 | 14 | 14 | 14 |
| 4008 | 7.6 | 6.2 | 12 | 12 | FWH-30A14F | 15 | 15 | HLL36030 M71 | 14 | 14 | 14 | 14 |
| 4011 | 11.0 | 9.0 | 17.5 | 17.5 | FWH-40B | 25 | 25 | HLL36030 M71 | 14 | 14 | 14 | 14 |
| 4014 | 14.0 | 12.1 | 20 | 20 | FWH-45B | 35 | 35 | HLL36030 M71 | 14 | 14 | 12 | 12 |
| 4021 | 21.0 | 17.4 | 35 | 35 | FWH-60B | 50 | 50 | HLL36030 M71 | 10 | 10 | 10 | 10 |
| 4027 | 27.0 | 23.5 | 45 | 45 | FWH-80B | 60 | 60 | HLL36050 M72 | 10 | 10 | 8 | 8 |
| 4034 | 34.0 | 28.7 | 60 | 60 | FWH-100B | 80 | 80 | HLL36050 M72 | 8 | 8 | 8 | 8 |
| 4040 | 40.0 | 34.0 | 70 | 70 | FWH-125B | 100 | 100 | HLL36100 M73 | 8 | 8 | 8 | 8 |
| 4052 | 52.0 | 45.9 | 90 | 90 | FWH-150B | 125 | 125 | HLL36100 M73 | 6 | 6 | 6 | 6 |
| 4065 | 65.0 | 56.3 | 110 | 110 | FWH-200B | 150 | 150 | HLL36100 M73 | 4 | 4 | 4 | 4 |
| 4077 | 77.0 | 68.1 | 125 | 125 | FWH-225A | 175 | 175 | HLL36100 M73 | 4 | 4 | 3 or 2 | 3 |

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|-------------------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4096 | 96.0 | 82.8 | 150 | 150 | FWH-225A | 225 | 225 | HLL36150 M74 | 2 | 2 | 1 | 1 |
| 4124 | 124.0 | 112.0 | 200 | 200 | FWH-225A | 300 | 300 | JLL36250 M75 | 1/0 | 1/0 | 2/0 | 2/0 |
| 4156 | 156.0 | 134.0 | 250 | 250 | FWH-325A | 350 | 350 | JLL36250 M75 | 2/0 | 2/0 | 3/0 | 3/0 |
| 4180 | 180.0 | 171.0 | 300 | 300 | FWH-500A | 450 | 450 | JLL36250 M75 | 1/0×2P | 1/0 × 2P | 1/0×2P | 1/0 × 2P |
| 4240 | 240.0 | 232.0 | 400 | 400 | FWH-600A | 600 | 600 | LAL3640036 M or LLL36400 M37X | 1/0×2P | 1/0 × 2P | 1/0×2P | 1/0 × 2P |
| 4302 | 302.0 | 289.0 | 500 | 500 | FWH-700A | 700 | 700 | LAL3640036 M or LLL36400 M37X | 3/0×2P | 3/0 × 2P | 3/0×2P | 3/0 × 2P |
| 4361 | 361.0 | 346.0 | Not Allowed | Not Allowed | FWH-800A | 700 | 700 | PLL34060 M68 | 4/0×2P | 4/0 × 2P | 4/0×2P | 4/0 × 2P |
| 4414 | 414.0 | 403.0 | Not Allowed | Not Allowed | FWH-1000A or FWH-1000B | 800 | 800 | PLL34060 M68 | 250×2P | 250 × 2P | 300×2P | 300 × 2P |
| 4477 | 477.0 | 460.0 | Not Allowed | Not Allowed | FWH-1200A or FWH-1200B | 900 | 900 | PLL34080 M68 | 3/0 × 4P | 3/0 × 4P | 3/0 × 4P | 3/0 × 4P |
| 4515 | 515.0 | 515.0 | Not Allowed | Not Allowed | FWH-1200A or FWH-1200B | 1000 | 1000 | PLL34080 M68 | 4/0 × 4P | 4/0 × 4P | 4/0 × 4P | 4/0 × 4P |
| 4590 | 590.0 | 573.0 | Not Allowed | Not Allowed | FWH-1400A | 1200 | 1200 | PLL34080 M68 | 4/0 × 4P | 4/0 × 4P | 250 × 4P | 250 × 4P |
| 4720 | 720.0 | 686.0 | Not Allowed | Not Allowed | FWH-1400A | 1400 | 1400 | PLL34100 M69 | 300 × 4P | 300 × 4P | 300 × 4P | 300 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.13 95% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 4.6 | 3.6 | - | 7 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 7.2 | 5.9 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 4011 | 10.5 | 8.6 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 4014 | 13.3 | 11.6 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 4021 | 20.0 | 16.7 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 4027 | 25.7 | 22.5 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 4034 | 32.3 | 27.5 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 4040 | 38.0 | 32.5 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4052 | 49.4 | 43.9 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 4065 | 61.8 | 53.8 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 4077 | 73.2 | 65.1 | - | 125 | - | - | 175 | - | - | 4 | - | 3 |
| 4096 | 91.2 | 79.2 | - | 150 | - | - | 225 | - | - | 2 | - | 1 |
| 4124 | 117.8 | 107.2 | - | 200 | - | - | 250 | - | - | 1/0 | - | 2/0 |

2 Multiple Ratings for FP605 Drives

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4156 | 148.2 | 128.2 | - | 250 | - | - | 350 | - | - | 2/0 | - | 3/0 |
| 4180 | 171.0 | 165.3 | - | 250 | - | - | 400 | - | - | 4/0 | - | 4/0 |
| 4240 | 228.0 | 224.1 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4302 | 286.9 | 275.4 | - | 500 | - | - | 700 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 4361 | 343.0 | 328.7 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4414 | 393.3 | 385.1 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |
| 4477 | 453.2 | 443.4 | - | Not Allowed | - | - | 900 | - | - | 3/0 × 4P | - | 3/0 × 4P |
| 4515 | 489.3 | 494.4 | - | Not Allowed | - | - | 900 | - | - | 4/0 × 4P | - | 4/0 × 4P |
| 4590 | 560.5 | 552.6 | - | Not Allowed | - | - | 1100 | - | - | 4/0 × 4P | - | 250 × 4P |
| 4720 | 684.0 | 657.3 | - | Not Allowed | - | - | 1200 | - | - | 300 × 4P | - | 300 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.14 90% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 4.3 | 3.5 | - | 7 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 6.8 | 5.6 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 4011 | 9.9 | 8.2 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 4014 | 12.6 | 11.0 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 4021 | 18.9 | 15.8 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 4027 | 24.3 | 21.3 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 4034 | 30.6 | 26.1 | - | 50 | - | - | 75 | - | - | 8 | - | 8 |
| 4040 | 36.0 | 30.8 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4052 | 46.8 | 41.7 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 4065 | 58.5 | 51.1 | - | 100 | - | - | 125 | - | - | 4 | - | 4 |
| 4077 | 69.3 | 61.8 | - | 110 | - | - | 150 | - | - | 4 | - | 3 |
| 4096 | 86.4 | 75.1 | - | 150 | - | - | 200 | - | - | 3 | - | 2 |
| 4124 | 111.6 | 101.7 | - | 175 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 4156 | 140.4 | 121.6 | - | 225 | - | - | 350 | - | - | 2/0 | - | 3/0 |
| 4180 | 162.0 | 156.7 | - | 250 | - | - | 400 | - | - | 3/0 | - | 4/0 |
| 4240 | 216.0 | 212.5 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4302 | 271.8 | 261.1 | - | 450 | - | - | 600 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 4361 | 324.9 | 311.5 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4414 | 372.6 | 365.1 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |
| 4477 | 429.3 | 420.4 | - | Not Allowed | - | - | 800 | - | - | 300 × 2P | - | 300 × 2P |
| 4515 | 463.5 | 468.7 | - | Not Allowed | - | - | 900 | - | - | 3/0 × 4P | - | 3/0 × 4P |
| 4590 | 531.0 | 523.9 | - | Not Allowed | - | - | 1000 | - | - | 4/0 × 4P | - | 4/0 × 4P |
| 4720 | 648.0 | 623.1 | - | Not Allowed | - | - | 1200 | - | - | 300 × 4P | - | 300 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.15 85% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 4.1 | 3.3 | - | 7 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 6.5 | 5.3 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 4011 | 9.4 | 7.8 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 4014 | 11.9 | 10.4 | - | 20 | - | - | 25 | - | - | 14 | - | 12 |
| 4021 | 17.9 | 15.0 | - | 30 | - | - | 40 | - | - | 12 | - | 10 |
| 4027 | 23.0 | 20.2 | - | 40 | - | - | 50 | - | - | 10 | - | 10 |
| 4034 | 28.9 | 24.7 | - | 50 | - | - | 60 | - | - | 8 | - | 8 |
| 4040 | 34.0 | 29.2 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 4052 | 44.2 | 39.4 | - | 70 | - | - | 110 | - | - | 8 | - | 6 |
| 4065 | 55.3 | 48.3 | - | 90 | - | - | 125 | - | - | 6 | - | 4 |
| 4077 | 65.5 | 58.4 | - | 110 | - | - | 150 | - | - | 4 | - | 4 |
| 4096 | 81.6 | 71.1 | - | 125 | - | - | 200 | - | - | 3 | - | 2 |
| 4124 | 105.4 | 96.2 | - | 175 | - | - | 250 | - | - | 1 | - | 1/0 |
| 4156 | 132.6 | 115.0 | - | 225 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 4180 | 153.0 | 148.2 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 4240 | 204.0 | 200.9 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4302 | 256.7 | 246.9 | - | 400 | - | - | 600 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 4361 | 306.9 | 294.1 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4414 | 351.9 | 345.1 | - | Not Allowed | - | - | 700 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4477 | 405.5 | 397.4 | - | Not Allowed | - | - | 800 | - | - | 250 × 2P | - | 300 × 2P |
| 4515 | 437.8 | 443.0 | - | Not Allowed | - | - | 800 | - | - | 3/0 × 4P | - | 300 × 2P |
| 4590 | 501.5 | 495.2 | - | Not Allowed | - | - | 1000 | - | - | 4/0 × 4P | - | 4/0 × 4P |
| 4720 | 612.0 | 588.9 | - | Not Allowed | - | - | 1200 | - | - | 250 × 4P | - | 300 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.16 80% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 3.8 | 3.1 | - | 6 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 6.1 | 5.0 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 4011 | 8.8 | 7.3 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 4014 | 11.2 | 9.8 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 4021 | 16.8 | 14.1 | - | 25 | - | - | 40 | - | - | 12 | - | 10 |
| 4027 | 21.6 | 19.0 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4034 | 27.2 | 23.3 | - | 45 | - | - | 60 | - | - | 10 | - | 8 |
| 4040 | 32.0 | 27.5 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |

2 Multiple Ratings for FP605 Drives

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4052 | 41.6 | 37.2 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 4065 | 52.0 | 45.5 | - | 90 | - | - | 125 | - | - | 6 | - | 6 |
| 4077 | 61.6 | 55.1 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 4096 | 76.8 | 67.0 | - | 125 | - | - | 175 | - | - | 4 | - | 3 |
| 4124 | 99.2 | 90.7 | - | 150 | - | - | 225 | - | - | 1 | - | 1 |
| 4156 | 124.8 | 108.3 | - | 200 | - | - | 300 | - | - | 1/0 | - | 2/0 |
| 4180 | 144.0 | 139.6 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 4240 | 192.0 | 189.3 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4302 | 241.6 | 232.6 | - | 400 | - | - | 600 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4361 | 288.8 | 277.1 | - | Not Allowed | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 4414 | 331.2 | 325.1 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4477 | 381.6 | 374.3 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |
| 4515 | 412.0 | 417.3 | - | Not Allowed | - | - | 800 | - | - | 300 × 2P | - | 300 × 2P |
| 4590 | 472.0 | 466.4 | - | Not Allowed | - | - | 900 | - | - | 3/0 × 4P | - | 3/0 × 4P |
| 4720 | 576.0 | 554.7 | - | Not Allowed | - | - | 1100 | - | - | 4/0 × 4P | - | 250 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.17 75% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 3.6 | 2.9 | - | 6 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 5.7 | 4.7 | - | 9 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 8.3 | 6.9 | - | 12 | - | - | 20 | - | - | 14 | - | 14 |
| 4014 | 10.5 | 9.2 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 4021 | 15.8 | 13.3 | - | 25 | - | - | 35 | - | - | 12 | - | 10 |
| 4027 | 20.3 | 17.9 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4034 | 25.5 | 21.9 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 4040 | 30.0 | 25.9 | - | 50 | - | - | 75 | - | - | 8 | - | 8 |
| 4052 | 39.0 | 34.9 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4065 | 48.8 | 42.8 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 4077 | 57.8 | 51.7 | - | 100 | - | - | 125 | - | - | 4 | - | 4 |
| 4096 | 72.0 | 62.9 | - | 125 | - | - | 175 | - | - | 4 | - | 3 |
| 4124 | 93.0 | 85.1 | - | 150 | - | - | 225 | - | - | 2 | - | 1 |
| 4156 | 117.0 | 101.7 | - | 200 | - | - | 250 | - | - | 1/0 | - | 2/0 |
| 4180 | 135.0 | 131.1 | - | 225 | - | - | 300 | - | - | 2/0 | - | 3/0 |
| 4240 | 180.0 | 177.7 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4302 | 226.5 | 218.3 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4361 | 270.8 | 259.7 | - | Not Allowed | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4414 | 310.5 | 305.1 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4477 | 357.8 | 351.3 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 4/0 × 2P |
| 4515 | 386.3 | 391.6 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |
| 4590 | 442.5 | 437.7 | - | Not Allowed | - | - | 800 | - | - | 300 × 2P | - | 3/0 × 4P |
| 4720 | 540.0 | 520.5 | - | Not Allowed | - | - | 1000 | - | - | 4/0 × 4P | - | 4/0 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.18 70% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 3.4 | 2.8 | - | 5 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 5.3 | 4.5 | - | 9 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 7.7 | 6.5 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 4014 | 9.8 | 8.6 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 4021 | 14.7 | 12.4 | - | 25 | - | - | 35 | - | - | 12 | - | 12 |
| 4027 | 18.9 | 16.7 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 4034 | 23.8 | 20.5 | - | 40 | - | - | 50 | - | - | 10 | - | 8 |
| 4040 | 28.0 | 24.2 | - | 45 | - | - | 60 | - | - | 8 | - | 8 |
| 4052 | 36.4 | 32.7 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4065 | 45.5 | 40.0 | - | 70 | - | - | 110 | - | - | 6 | - | 6 |
| 4077 | 53.9 | 48.4 | - | 90 | - | - | 125 | - | - | 6 | - | 4 |
| 4096 | 67.2 | 58.8 | - | 110 | - | - | 150 | - | - | 4 | - | 4 |
| 4124 | 86.8 | 79.6 | - | 150 | - | - | 200 | - | - | 2 | - | 2 |
| 4156 | 109.2 | 95.1 | - | 175 | - | - | 250 | - | - | 1 | - | 1/0 |
| 4180 | 126.0 | 122.5 | - | 200 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 4240 | 168.0 | 166.0 | - | 250 | - | - | 400 | - | - | 4/0 | - | 4/0 |
| 4302 | 211.4 | 204.0 | - | 350 | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4361 | 252.7 | 242.4 | - | Not Allowed | - | - | 500 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4414 | 289.8 | 285.0 | - | Not Allowed | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 4477 | 333.9 | 328.2 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4515 | 360.5 | 365.9 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 4/0 × 2P |
| 4590 | 413.0 | 408.9 | - | Not Allowed | - | - | 800 | - | - | 300 × 2P | - | 300 × 2P |
| 4720 | 504.0 | 486.2 | - | Not Allowed | - | - | 1000 | - | - | 4/0 × 4P | - | 4/0 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.19 65% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 3.1 | 2.6 | - | 5 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 4.9 | 4.2 | - | 8 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 7.2 | 6.0 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 4014 | 9.1 | 8.1 | - | 15 | - | - | 20 | - | - | 14 | - | 14 |
| 4021 | 13.7 | 11.6 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 4027 | 17.6 | 15.6 | - | 30 | - | - | 40 | - | - | 10 | - | 10 |
| 4034 | 22.1 | 19.1 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4040 | 26.0 | 22.5 | - | 45 | - | - | 60 | - | - | 10 | - | 8 |
| 4052 | 33.8 | 30.4 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 4065 | 42.3 | 37.2 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 4077 | 50.1 | 45.0 | - | 80 | - | - | 125 | - | - | 6 | - | 6 |
| 4096 | 62.4 | 54.7 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 4124 | 80.6 | 74.0 | - | 125 | - | - | 200 | - | - | 3 | - | 2 |
| 4156 | 101.4 | 88.4 | - | 175 | - | - | 250 | - | - | 1 | - | 1 |
| 4180 | 117.0 | 113.9 | - | 200 | - | - | 250 | - | - | 2/0 | - | 2/0 |
| 4240 | 156.0 | 154.4 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 4302 | 196.3 | 189.7 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4361 | 234.7 | 225.1 | - | Not Allowed | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4414 | 269.1 | 265.0 | - | Not Allowed | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 4477 | 310.1 | 305.1 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4515 | 334.8 | 340.1 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4590 | 383.5 | 380.1 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |
| 4720 | 468.0 | 451.9 | - | Not Allowed | - | - | 900 | - | - | 3/0 × 4P | - | 3/0 × 4P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.20 60% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 2.9 | 2.4 | - | 5 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 4.6 | 3.9 | - | 7 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 6.6 | 5.6 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 4014 | 8.4 | 7.5 | - | 12 | - | - | 20 | - | - | 14 | - | 14 |
| 4021 | 12.6 | 10.7 | - | 20 | - | - | 30 | - | - | 14 | - | 12 |
| 4027 | 16.2 | 14.4 | - | 25 | - | - | 40 | - | - | 12 | - | 10 |
| 4034 | 20.4 | 17.7 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4040 | 24.0 | 20.9 | - | 40 | - | - | 60 | - | - | 10 | - | 8 |
| 4052 | 31.2 | 28.1 | - | 50 | - | - | 75 | - | - | 8 | - | 8 |

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4065 | 39.0 | 34.5 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4077 | 46.2 | 41.7 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 4096 | 57.6 | 50.6 | - | 100 | - | - | 125 | - | - | 4 | - | 4 |
| 4124 | 74.4 | 68.5 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 4156 | 93.6 | 81.8 | - | 150 | - | - | 225 | - | - | 2 | - | 1 |
| 4180 | 108.0 | 105.4 | - | 175 | - | - | 250 | - | - | 1/0 | - | 1/0 |
| 4240 | 144.0 | 142.7 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 4302 | 181.2 | 175.3 | - | 300 | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4361 | 216.6 | 207.9 | - | Not Allowed | - | - | 400 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4414 | 248.4 | 244.9 | - | Not Allowed | - | - | 450 | - | - | 2/0 × 2P | - | 1/0 × 2P |
| 4477 | 286.2 | 282.0 | - | Not Allowed | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 4515 | 309.0 | 314.3 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4590 | 354.0 | 351.3 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 4/0 × 2P |
| 4720 | 432.0 | 417.6 | - | Not Allowed | - | - | 800 | - | - | 300 × 2P | - | 300 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.21 55% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*/} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 2.6 | 2.2 | - | 4.5 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 4.2 | 3.6 | - | 7 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 6.1 | 5.1 | - | 10 | - | - | 15 | - | - | 14 | - | 14 |
| 4014 | 7.7 | 6.9 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 4021 | 11.6 | 9.9 | - | 20 | - | - | 25 | - | - | 14 | - | 12 |
| 4027 | 14.9 | 13.3 | - | 25 | - | - | 35 | - | - | 12 | - | 12 |
| 4034 | 18.7 | 16.2 | - | 30 | - | - | 45 | - | - | 10 | - | 10 |
| 4040 | 22.0 | 19.2 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4052 | 28.6 | 25.9 | - | 50 | - | - | 60 | - | - | 8 | - | 8 |
| 4065 | 35.8 | 31.7 | - | 60 | - | - | 80 | - | - | 8 | - | 8 |
| 4077 | 42.4 | 38.3 | - | 70 | - | - | 100 | - | - | 8 | - | 6 |
| 4096 | 52.8 | 46.5 | - | 90 | - | - | 125 | - | - | 6 | - | 4 |
| 4124 | 68.2 | 62.9 | - | 110 | - | - | 150 | - | - | 4 | - | 3 |
| 4156 | 85.8 | 75.1 | - | 150 | - | - | 200 | - | - | 3 | - | 2 |
| 4180 | 99.0 | 96.8 | - | 150 | - | - | 225 | - | - | 1 | - | 1 |
| 4240 | 132.0 | 131.1 | - | 225 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 4302 | 166.1 | 161.0 | - | 250 | - | - | 400 | - | - | 4/0 | - | 4/0 |
| 4361 | 198.6 | 190.8 | - | Not Allowed | - | - | 350 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4414 | 227.7 | 224.9 | - | Not Allowed | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |

2 Multiple Ratings for FP605 Drives

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4477 | 262.4 | 258.8 | - | Not Allowed | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 4515 | 283.3 | 288.5 | - | Not Allowed | - | - | 500 | - | - | 3/0 × 2P | - | 3/0 × 2P |
| 4590 | 324.5 | 322.4 | - | Not Allowed | - | - | 600 | - | - | 4/0 × 2P | - | 4/0 × 2P |
| 4720 | 396.0 | 383.3 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 250 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Table 2.22 50% Ratings for FP605 Drives (Three-Phase 480 V)

| Drive Model | | | Protection | | | | | | Cable Sizing ^{*1} | | | |
|-------------|-----------------------------------|----------------------------------|---------------------------------------|------------------------------------|-----------------------------------|---------------------|------------------|--------------------|----------------------------------|--|----------------------------------|--|
| Drive Model | Drive Rated Output Current [Arms] | Drive Rated Input Current [Arms] | Class CC, J, or T Fuse (FP605 Manual) | Class CC, J, or T Fuse (max allow) | Semiconductor Fuse (FP605 Manual) | MCCB (FP605 Manual) | MCCB (max allow) | MCP (FP605 Manual) | Input Cable (FP605 Manual) [AWG] | Input Cable @ 125% Rated Current [AWG] | Motor Cable (FP605 Manual) [AWG] | Motor Cable @ 125% Rated Current [AWG] |
| 4005 | 2.4 | 2.0 | - | 4 | - | - | 10 | - | - | 14 | - | 14 |
| 4008 | 3.8 | 3.3 | - | 6 | - | - | 10 | - | - | 14 | - | 14 |
| 4011 | 5.5 | 4.7 | - | 9 | - | - | 10 | - | - | 14 | - | 14 |
| 4014 | 7.0 | 6.3 | - | 12 | - | - | 15 | - | - | 14 | - | 14 |
| 4021 | 10.5 | 9.0 | - | 17.5 | - | - | 25 | - | - | 14 | - | 14 |
| 4027 | 13.5 | 12.1 | - | 20 | - | - | 30 | - | - | 12 | - | 12 |
| 4034 | 17.0 | 14.8 | - | 25 | - | - | 40 | - | - | 12 | - | 10 |
| 4040 | 20.0 | 17.5 | - | 35 | - | - | 50 | - | - | 10 | - | 10 |
| 4052 | 26.0 | 23.6 | - | 45 | - | - | 60 | - | - | 8 | - | 8 |
| 4065 | 32.5 | 28.9 | - | 50 | - | - | 80 | - | - | 8 | - | 8 |
| 4077 | 38.5 | 34.9 | - | 60 | - | - | 90 | - | - | 8 | - | 8 |
| 4096 | 48.0 | 42.4 | - | 80 | - | - | 110 | - | - | 6 | - | 6 |
| 4124 | 62.0 | 57.3 | - | 100 | - | - | 150 | - | - | 4 | - | 4 |
| 4156 | 78.0 | 68.5 | - | 125 | - | - | 175 | - | - | 3 | - | 3 |
| 4180 | 90.0 | 88.2 | - | 150 | - | - | 225 | - | - | 1 | - | 1 |
| 4240 | 120.0 | 119.4 | - | 200 | - | - | 300 | - | - | 2/0 | - | 2/0 |
| 4302 | 151.0 | 146.6 | - | 250 | - | - | 350 | - | - | 3/0 | - | 3/0 |
| 4361 | 180.5 | 173.8 | - | Not Allowed | - | - | 350 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4414 | 207.0 | 204.8 | - | Not Allowed | - | - | 400 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4477 | 238.5 | 235.7 | - | Not Allowed | - | - | 450 | - | - | 1/0 × 2P | - | 1/0 × 2P |
| 4515 | 257.5 | 262.7 | - | Not Allowed | - | - | 500 | - | - | 2/0 × 2P | - | 2/0 × 2P |
| 4590 | 295.0 | 293.5 | - | Not Allowed | - | - | 500 | - | - | 4/0 × 2P | - | 3/0 × 2P |
| 4720 | 360.0 | 348.9 | - | Not Allowed | - | - | 700 | - | - | 250 × 2P | - | 4/0 × 2P |

*1 UL508A does not allow parallel conductors smaller than 1/0 AWG.

Revision History

| Date of Publication | Revision Number | Revised Content |
|---------------------|-----------------|-----------------|
| February 2026 | - | First release |

YASKAWA

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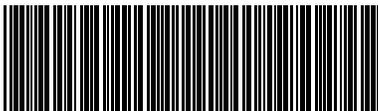
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Specifications are subject to change without notice for ongoing product modifications and improvements.

Original Instructions

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