

# YASKAWA

# FP605 DRIVE

## P1000 TO FP605 RATINGS AND DIMENSION COMPARISON

AC DRIVE FOR INDUSTRIAL FAN AND PUMP APPLICATIONS

### Catalog Code:

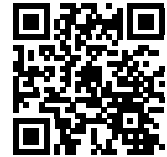
FP65Uxxxxxxx

208 V class: 2.2 to 110 kW (3 to 150 HP)

480 V class: 2.2 to 450 kW (3 to 600 HP)

PDF

[yaskawa.com/DT.FP605.04](http://yaskawa.com/DT.FP605.04)



P1000



FP605

## ◆ Introduction

Use this information to help select a new FP605 drive to replace an existing P1000 drive.

The FP605 is the preferred replacement for the P1000. Use the tables in this document to compare overall ratings and dimensions model-by-model. This document applies to the following FP605 drive models:

- FP605 IP20/UL Type 1 (2011 - 2169; 4005 - 4156)
- FP605 IP20/Protected chassis (2211 - 2396; 4180 - 4720)
- FP605 IP55/UL Type 12 Heatsink External Mounting

## ◆ Comparison of Ratings by Model

Use these tables to compare the output current ratings of the P1000 and FP605 models.

### Note:

These FP605 products are omitted from this document because there is no equivalent P1000 model:

- FP605 IP55/UL Type 12
- FP605 IP55/UL Type 12 with Switch

## ■ IP20 UL Type 1 and Protected Chassis

### 240 V Current Ratings

| Nominal HP <sup>*1</sup> | P1000 Model            |                                | FP605 Model           |                                | NEC Motor Ratings |                      |                      |
|--------------------------|------------------------|--------------------------------|-----------------------|--------------------------------|-------------------|----------------------|----------------------|
|                          | Drive Model<br>CIMR-PU | Rated Output<br>Current (Amps) | Catalog Code<br>FP65U | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 208 VAC | NEC FLA<br>@ 240 VAC |
| 0.75                     | 2A0004FAA              | 3.5                            | -                     | -                              | 0.75              | 3.5                  | 3.2                  |
| 1                        | 2A0006FAA              | 6                              | -                     | -                              | 1                 | 4.6                  | 4.2                  |
| 1.5                      | 2A0008FAA              | 8                              | -                     | -                              | 1.5               | 6.6                  | 6                    |
| 2                        | 2A0010FAA              | 9.6                            | -                     | -                              | 2                 | 7.5                  | 6.8                  |
| 3                        | 2A0012FAA              | 12                             | 2011AFA               | 10.6                           | 3                 | 10.6                 | 9.6                  |
| 5                        | 2A0018FAA              | 17.5                           | 2017AFA               | 16.7                           | 5                 | 16.7                 | 15.2                 |
| 7.5                      | 2A0021FAA              | 21                             | 2024AFA               | 24.2                           | 7.5               | 24.2                 | 22                   |
| 10                       | 2A0030FAA              | 30                             | 2031AFA               | 30.8                           | 10                | 30.8                 | 28                   |
| 15                       | 2A0040FAA              | 40                             | 2046AFA               | 46.2                           | 15                | 46.2                 | 42                   |
| 20                       | 2A0056FAA              | 56                             | 2059AFA               | 59.4                           | 20                | 59.4                 | 54                   |
| 25                       | 2A0069FAA              | 69                             | 2075AFA               | 74.8                           | 25                | 74.8                 | 68                   |
| 30                       | 2A0081FAA              | 81                             | 2088AFA               | 88                             | 30                | 88                   | 80                   |
| 40                       | 2A0110FAA              | 110                            | 2114AFA               | 114                            | 40                | 114                  | 104                  |
| 50                       | 2A0138FAA              | 138                            | 2143AFA               | 143                            | 50                | 143                  | 130                  |
| 60                       | 2A0169FAA              | 169                            | 2169AFA               | 169                            | 60                | 169                  | 154                  |
| 75                       | 2A0211FAA              | 211                            | 2211ABA               | 211                            | 75                | 211                  | 192                  |
| 100                      | 2A0250AAA              | 250                            | 2273ABA               | 273                            | 100               | 273                  | 248                  |
| 125                      | 2A0312AAA              | 312                            | 2343ABA               | 343                            | 125               | 343                  | 312                  |
| 150                      | 2A0360AAA              | 360                            | 2396ABA               | 396                            | 150               | 396                  | 360                  |

\*1 The horsepower rating is based on a standard NEMA B, 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors at 240 or 480 volts.

## 480 V Current Ratings

| Nominal HP <sup>*/</sup> | P1000 Model         |                             |
|--------------------------|---------------------|-----------------------------|
|                          | Drive Model CIMR-PU | Rated Output Current (Amps) |
| 1                        | 4A0002FAA           | 2.1                         |
| 2                        | 4A0004FAA           | 4.1                         |
| 3                        | 4A0005FAA           | 5.4                         |
| 4                        | 4A0007FAA           | 6.9                         |
| 5                        | 4A0009FAA           | 8.8                         |
| 7.5                      | 4A0011FAA           | 11.1                        |
| 10                       | 4A0018FAA           | 17.5                        |
| 15                       | 4A0023FAA           | 23                          |
| 20                       | 4A0031FAA           | 31                          |
| 25                       | 4A0038FAA           | 38                          |
| 30                       | 4A0044FAA           | 44                          |
| 40                       | 4A0058FAA           | 58                          |
| 50                       | 4A0072FAA           | 72                          |
| 60                       | 4A0088FAA           | 88                          |
| 75                       | 4A0103FAA           | 103                         |
| 100                      | 4A0139FAA           | 139                         |
| 125                      | 4A0165FAA           | 165                         |
| 150                      | 4A0208AAA           | 208                         |
| 200                      | 4A0250AAA           | 250                         |
| 250                      | 4A0296AAA           | 296                         |
| 300                      | 4A0362AAA           | 362                         |
| 350                      | 4A0414AAA           | 414                         |
| 400                      | -                   | -                           |
| 450                      | 4A0515AAA           | 515                         |
| 500                      | 4A0675AAA           | 675                         |
| 600                      | -                   | -                           |

| FP605 Model        |                             | NEC Motor Ratings |                   |
|--------------------|-----------------------------|-------------------|-------------------|
| Catalog Code FP65U | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 480 VAC |
| -                  | -                           | 1                 | 2.1               |
| -                  | -                           | 2                 | 3.4               |
| 4005AFA            | 4.8                         | 3                 | 4.8               |
| -                  | -                           | -                 | -                 |
| 4008AFA            | 7.6                         | 5                 | 7.6               |
| 4011AFA            | 11                          | 7.5               | 11                |
| 4014AFA            | 14                          | 10                | 14                |
| 4021AFA            | 21                          | 15                | 21                |
| 4027AFA            | 27                          | 20                | 27                |
| 4034AFA            | 34                          | 25                | 34                |
| 4040AFA            | 40                          | 30                | 40                |
| 4052AFA            | 52                          | 40                | 52                |
| 4065AFA            | 65                          | 50                | 65                |
| 4077AFA            | 77                          | 60                | 77                |
| 4096AFA            | 96                          | 75                | 96                |
| 4124AFA            | 124                         | 100               | 124               |
| 4156AFA            | 156                         | 125               | 156               |
| 4180ABA            | 180                         | 150               | 180               |
| 4240ABA            | 240                         | 200               | 240               |
| 4302ABA            | 302                         | 250               | 302               |
| 4361ABA            | 361                         | 300               | 361               |
| 4414ABA            | 414                         | 350               | 414               |
| 4477ABA            | 477                         | 400               | 477               |
| 4515ABA            | 515                         | 450               | 515               |
| 4590ABA            | 590                         | 500               | 590               |
| 4720ABA            | 720                         | 600               | 720               |

\*1 The horsepower rating is based on a standard NEMA B, 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors at 240 or 480 volts.

## ■ IP55/UL Type 12 Heatsink External Mounting

### 200-240 V Flange Current Ratings

| Nominal HP | P1000 Model         |                             |
|------------|---------------------|-----------------------------|
|            | Drive Model CIMR-PU | Rated Output Current (Amps) |
| 0.75       | 2A0004UAA           | 3.5                         |
| 1          | 2A0006UAA           | 6                           |
| 2          | 2A0008UAA           | 8                           |
| 3          | 2A0010UAA           | 9.6                         |
| 3          | 2A0012UAA           | 12                          |
| 5          | 2A0018UAA           | 17.5                        |
| 7.5        | 2A0021UAA           | 21                          |

| FP605 Model        |                              |                             | NEC Motor Ratings |                   |                   |
|--------------------|------------------------------|-----------------------------|-------------------|-------------------|-------------------|
| Catalog Code FP65U | External Heatsink Kit Number | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 208 VAC | NEC FLA @ 240 VAC |
| -                  | -                            | -                           | 0.75              | 3.5               | 3.2               |
| -                  | -                            | -                           | 1                 | 4.6               | 4.2               |
| -                  | -                            | -                           | 1.5               | 6.6               | 6                 |
| -                  | -                            | -                           | 2                 | 7.5               | 6.8               |
| 2011AFA            | ZPSD-600-EH12-FR1            | 10.6                        | 3                 | 10.6              | 9.6               |
| 2017AFA            | ZPSD-600-EH12-FR1            | 16.7                        | 5                 | 16.7              | 15.2              |
| 2024AFA            | ZPSD-600-EH12-FR2            | 24.2                        | 7.5               | 24.2              | 22                |

| Nominal HP | P1000 Model         |                             |
|------------|---------------------|-----------------------------|
|            | Drive Model CIMR-PU | Rated Output Current (Amps) |
| 10         | 2A0030UAA           | 30                          |
| 15         | 2A0040UAA           | 40                          |
| 20         | 2A0056UAA           | 56                          |
| 25         | 2A0069UAA           | 69                          |
| 30         | 2A0081UAA           | 81                          |
| 40         | 2A0110UAA           | 110                         |
| 50         | 2A0138UAA           | 138                         |
| 60         | 2A0169UAA           | 169                         |
| 75         | 2A0211UAA           | 211                         |
| 100        | 2A0250UAA           | 250                         |
| 125        | 2A0312UAA           | 312                         |
| 150        | 2A0360UAA           | 360                         |

| FP605 Model        |                              |                             | NEC Motor Ratings |                   |                   |
|--------------------|------------------------------|-----------------------------|-------------------|-------------------|-------------------|
| Catalog Code FP65U | External Heatsink Kit Number | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 208 VAC | NEC FLA @ 240 VAC |
| 2031AFA            | ZPSD-600-EH12-FR2            | 30.8                        | 10                | 30.8              | 28                |
| 2046AFA            | ZPSD-600-EH12-FR3            | 46.2                        | 15                | 46.2              | 42                |
| 2059AFA            | ZPSD-600-EH12-FR3            | 59.4                        | 20                | 59.4              | 54                |
| 2075AFA            | ZPSD-600-EH12-FR4            | 74.8                        | 25                | 74.8              | 68                |
| 2088AFA            | ZPSD-600-EH12-FR4            | 88                          | 30                | 88                | 80                |
| 2114AFA            | ZPSD-600-EH12-FR4            | 114                         | 40                | 114               | 104               |
| 2143AFA            | ZPSD-600-EH12-FR6            | 143                         | 50                | 143               | 130               |
| 2169AFA            | ZPSD-600-EH12-FR6            | 169                         | 60                | 169               | 154               |
| 2211AWA */         | -                            | 211                         | 75                | 211               | 192               |
| 2273AWA */         | -                            | 273                         | 100               | 273               | 248               |
| 2343AWA */         | -                            | 343                         | 125               | 343               | 312               |
| 2396AWA */         | -                            | 396                         | 150               | 396               | 360               |

\*1 Flange drives with the suffix AWA in the catalog code do not require a heatsink kit.

### 380-480 V Flange Current Ratings

| Nominal HP | P1000 Model         |                             |
|------------|---------------------|-----------------------------|
|            | Drive Model CIMR-PU | Rated Output Current (Amps) |
| 1          | 4A0002UAA           | 2.1                         |
| 2          | 4A0004UAA           | 4.1                         |
| 3          | 4A0005UAA           | 5.4                         |
| 4          | 4A0007UAA           | 6.9                         |
| 5          | 4A0009UAA           | 8.8                         |
| 7.5        | 4A0011UAA           | 11.1                        |
| 10         | 4A0018UAA           | 17.5                        |
| 15         | 4A0023UAA           | 23                          |
| 20         | 4A0031UAA           | 31                          |
| 25         | 4A0038UAA           | 38                          |
| 30         | 4A0044UAA           | 44                          |
| 40         | 4A0058UAA           | 58                          |
| 50         | 4A0072UAA           | 72                          |
| 60         | 4A0088UAA           | 88                          |
| 75         | 4A0103UAA           | 103                         |
| 100        | 4A0139UAA           | 139                         |
| 125        | 4A0165UAA           | 165                         |
| 150        | 4A0208UAA           | 208                         |
| 200        | 4A0250UAA           | 250                         |
| 250        | 4A0296UAA           | 296                         |
| 300        | 4A0362UAA           | 362                         |
| 350        | 4A0414UAA           | 414                         |
| 400        | -                   | -                           |
| 450        | 4A0515UAA           | 515                         |

| FP605 Model        |                              |                             | NEC Motor Ratings |                   |
|--------------------|------------------------------|-----------------------------|-------------------|-------------------|
| Catalog Code FP65U | External Heatsink Kit Number | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 480 VAC |
| -                  | -                            | -                           | 1                 | 2.1               |
| -                  | -                            | -                           | 2                 | 3.4               |
| 4005AFA            | ZPSD-600-EH12-FR1            | 4.8                         | 3                 | 4.8               |
| -                  | -                            | -                           | -                 | -                 |
| 4008AFA            | ZPSD-600-EH12-FR1            | 7.6                         | 5                 | 7.6               |
| 4011AFA            | ZPSD-600-EH12-FR1            | 11                          | 7.5               | 11                |
| 4014AFA            | ZPSD-600-EH12-FR1            | 14                          | 10                | 14                |
| 4021AFA            | ZPSD-600-EH12-FR2            | 21                          | 15                | 21                |
| 4027AFA            | ZPSD-600-EH12-FR2            | 27                          | 20                | 27                |
| 4034AFA            | ZPSD-600-EH12-FR2            | 34                          | 25                | 34                |
| 4040AFA            | ZPSD-600-EH12-FR3            | 40                          | 30                | 40                |
| 4052AFA            | ZPSD-600-EH12-FR3            | 52                          | 40                | 52                |
| 4065AFA            | ZPSD-600-EH12-FR3            | 65                          | 50                | 65                |
| 4077AFA            | ZPSD-600-EH12-FR4            | 77                          | 60                | 77                |
| 4096AFA            | ZPSD-600-EH12-FR4            | 96                          | 75                | 96                |
| 4124AFA            | ZPSD-600-EH12-FR4            | 124                         | 100               | 124               |
| 4156AWA */         | ZPSD-600-EH12-FR6            | 156                         | 125               | 156               |
| 4180AWA */         | -                            | 180                         | 150               | 180               |
| 4240AWA */         | -                            | 240                         | 200               | 240               |
| 4302AWA */         | -                            | 302                         | 250               | 302               |
| 4361AWA */         | -                            | 361                         | 300               | 361               |
| 4414AWA */         | -                            | 414                         | 350               | 414               |
| 4477AWA */         | -                            | 477                         | 400               | 477               |
| 4515AWA */         | -                            | 515                         | 450               | 515               |

| Nominal HP | P1000 Model            |                                |
|------------|------------------------|--------------------------------|
|            | Drive Model<br>CIMR-PU | Rated Output<br>Current (Amps) |
| 500        | 4A0675UAA              | 675                            |
| 700-800    | 4A0930UAA              | 930                            |
| 900-1000   | 4A1200UAA              | 1200                           |

| FP605 Model           |                                 |                                | NEC Motor Ratings |                      |
|-----------------------|---------------------------------|--------------------------------|-------------------|----------------------|
| Catalog Code<br>FP65U | External Heatsink<br>Kit Number | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 480 VAC |
| 4590AWA <sup>*1</sup> | -                               | 590                            | 500               | 590                  |
| 4720AWA <sup>*1</sup> | -                               | 720                            | 600               | 720                  |
| -                     | -                               | -                              | -                 | -                    |

\*1 Flange drives with the suffix AWA in the catalog code do not require a heatsink kit.

## ◆ Comparison of Dimensions by Model

Use these tables to compare the dimensions of the P1000 and FP605 models.

### ■ IP20 UL Type 1 and Protected Chassis

#### 240 V Dimensions

| Nominal HP <sup>*1</sup> | P1000               | Physical Dimensions (in) |       |       | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|--------------------------|---------------------|--------------------------|-------|-------|----------------------------|--------------------------------|
|                          | Drive Model CIMR-PU | H                        | W     | D     |                            |                                |
| 0.75                     | 2A0004FAA           | 11.81                    | 5.51  | 5.79  | 7.3                        | UL Type 1                      |
| 1                        | 2A0006FAA           | 11.81                    | 5.51  | 5.79  | 7.3                        | UL Type 1                      |
| 1.5                      | 2A0008FAA           | 11.81                    | 5.51  | 5.79  | 7.5                        | UL Type 1                      |
| 2                        | 2A0010FAA           | 11.81                    | 5.51  | 5.79  | 7.5                        | UL Type 1                      |
| 3                        | 2A0012FAA           | 11.81                    | 5.51  | 5.79  | 7.5                        | UL Type 1                      |
| 5                        | 2A0018FAA           | 11.81                    | 5.51  | 6.46  | 8.2                        | UL Type 1                      |
| 7.5                      | 2A0021FAA           | 11.81                    | 5.51  | 6.46  | 8.2                        | UL Type 1                      |
| 10                       | 2A0030FAA           | 11.81                    | 5.51  | 6.57  | 9.3                        | UL Type 1                      |
| 15                       | 2A0040FAA           | 11.81                    | 5.51  | 6.57  | 9.3                        | UL Type 1                      |
| 20                       | 2A0056FAA           | 13.39                    | 7.09  | 7.36  | 13                         | UL Type 1                      |
| 25                       | 2A0069FAA           | 15.75                    | 8.66  | 7.76  | 20.1                       | UL Type 1                      |
| 30                       | 2A0081FAA           | 15.75                    | 8.66  | 7.76  | 22                         | UL Type 1                      |
| 40                       | 2A0110FAA           | 21.02                    | 10    | 10.16 | 50.7                       | UL Type 1                      |
| 50                       | 2A0138FAA           | 24.17                    | 10.98 | 10.16 | 61.7                       | UL Type 1                      |
| 60                       | 2A0169FAA           | 28.74                    | 12.95 | 11.14 | 90.4                       | UL Type 1                      |
| 75                       | 2A0211FAA           | -                        | -     | -     | -                          | -                              |
|                          |                     | 28.74                    | 12.95 | 11.14 | 92.6                       | UL Type 1                      |
| 100                      | 2A0250AAA           | 27.76                    | 17.72 | 12.99 | 167.6                      | Protected Chassis              |
|                          |                     | 37.8                     | 17.95 | 12.99 | 191.8                      | w/ UL Type 1 kit <sup>*2</sup> |
| 125                      | 2A0312AAA           | 27.76                    | 17.72 | 12.99 | 176.4                      | Protected Chassis              |
|                          |                     | 37.8                     | 17.95 | 12.99 | 191.8                      | w/ UL Type 1 kit <sup>*2</sup> |
| 150                      | 2A0360AAA           | 31.5                     | 19.69 | 13.78 | 216.1                      | Protected Chassis              |
|                          |                     | 45.98                    | 19.84 | 13.78 | 233.7                      | w/ UL Type 1 kit <sup>*2</sup> |
| 175                      | 2A0415AAA           | 31.5                     | 19.69 | 13.78 | 218.3                      | Protected Chassis              |
|                          |                     | 45.98                    | 19.84 | 13.78 | 233.7                      | w/ UL Type 1 kit <sup>*2</sup> |

| FP605   | Physical Dimensions (in) |      |      | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|---------|--------------------------|------|------|----------------------------|--------------------------------|
|         | Catalog Code FP65U       | H    | W    |                            |                                |
| -       | -                        | -    | -    | -                          | -                              |
| -       | -                        | -    | -    | -                          | -                              |
| -       | -                        | -    | -    | -                          | -                              |
| -       | -                        | -    | -    | -                          | -                              |
| 2011AFA | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| 2017AFA | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| 2024AFA | 17.6                     | 4.9  | 9.2  | 16.5                       | UL Type 1                      |
| 2031AFA | 17.6                     | 4.9  | 9.2  | 17.6                       | UL Type 1                      |
| 2046AFA | 20.1                     | 7.9  | 9.3  | 30.9                       | UL Type 1                      |
| 2059AFA | 20.1                     | 7.9  | 9.3  | 33.1                       | UL Type 1                      |
| 2075AFA | 21.3                     | 10.0 | 10.4 | 55.1                       | UL Type 1                      |
| 2088AFA | 21.3                     | 10.0 | 10.4 | 55.1                       | UL Type 1                      |
| 2114AFA | 21.3                     | 10.0 | 10.4 | 61.7                       | UL Type 1                      |
| 2143AFA | 30.5                     | 12.3 | 15.7 | 156.5                      | UL Type 1                      |
| 2169AFA | 30.5                     | 12.3 | 15.7 | 163.1                      | UL Type 1                      |
| 2211ABA | 27.6                     | 12.3 | 16.5 | 138.9                      | Protected Chassis              |
|         | 36                       | 12.4 | 16.5 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 2273ABA | 27.6                     | 12.3 | 16.5 | 145.5                      | Protected Chassis              |
|         | 36                       | 12.4 | 16.5 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 2343ABA | 31.5                     | 17.3 | 18.6 | 240.3                      | Protected Chassis              |
|         | 41.1                     | 17.5 | 18.6 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 2396ABA | 31.5                     | 17.3 | 18.6 | 249.1                      | Protected Chassis              |
|         | 41.1                     | 17.5 | 18.6 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| -       | -                        | -    | -    | -                          | -                              |
| -       | -                        | -    | -    | -                          | -                              |

\*1 The horsepower rating is based on a standard NEMA B, 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors at 240 or 480 volts.

\*2 Protected chassis models can be converted to Type 1 by adding top and bottom covers. An add-on kit is required. Consult the factory for add-on kit information.

\*3 This data represents the drive weight only, not shipping weight.

#### 480 V Dimensions

| Nominal HP <sup>*1</sup> | P1000               | Physical Dimensions (in) |      |      | Weight (lbs) <sup>*3</sup> | Standard Enclosure |
|--------------------------|---------------------|--------------------------|------|------|----------------------------|--------------------|
|                          | Drive Model CIMR-PU | H                        | W    | D    |                            |                    |
| 1                        | 4A0002FAA           | 11.81                    | 5.51 | 5.79 | 7.5                        | UL Type 1          |
| 2                        | 4A0004FAA           | 11.81                    | 5.51 | 5.79 | 7.5                        | UL Type 1          |

| FP605 | Physical Dimensions (in) |   |   | Weight (lbs) <sup>*3</sup> | Standard Enclosure |
|-------|--------------------------|---|---|----------------------------|--------------------|
|       | Catalog Code FP65U       | H | W |                            |                    |
| -     | -                        | - | - | -                          | UL Type 1          |
| -     | -                        | - | - | -                          | UL Type 1          |

| Nominal HP <sup>*1</sup> | P1000               | Physical Dimensions (in) |       |       | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|--------------------------|---------------------|--------------------------|-------|-------|----------------------------|--------------------------------|
|                          | Drive Model CIMR-PU | H                        | W     | D     |                            |                                |
| 3                        | 4A0005FAA           | 11.81                    | 5.51  | 5.79  | 7.5                        | UL Type 1                      |
| 4                        | 4A0007FAA           | 11.81                    | 5.51  | 6.46  | 7.9                        | UL Type 1                      |
| 5                        | 4A0009FAA           | 11.81                    | 5.51  | 6.46  | 8.2                        | UL Type 1                      |
| 7.5                      | 4A0011FAA           | 11.81                    | 5.51  | 6.46  | 8.2                        | UL Type 1                      |
| 10                       | 4A0018FAA           | 11.81                    | 5.51  | 6.57  | 9                          | UL Type 1                      |
| 15                       | 4A0023FAA           | 11.81                    | 5.51  | 6.57  | 9                          | UL Type 1                      |
| 20                       | 4A0031FAA           | 13.39                    | 7.09  | 6.57  | 12.6                       | UL Type 1                      |
| 25                       | 4A0038FAA           | 13.39                    | 7.09  | 7.36  | 13.2                       | UL Type 1                      |
| 30                       | 4A0044FAA           | 15.75                    | 8.66  | 7.76  | 19.2                       | UL Type 1                      |
| 40                       | 4A0058FAA           | 18.31                    | 10    | 10.16 | 50.7                       | UL Type 1                      |
| 50                       | 4A0072FAA           | 20.28                    | 10.98 | 10.16 | 59.5                       | UL Type 1                      |
| 60                       | 4A0088FAA           | 24.8                     | 12.95 | 10.16 | 86                         | UL Type 1                      |
| 75                       | 4A0103FAA           | 24.8                     | 12.95 | 10.16 | 86                         | UL Type 1                      |
| 100                      | 4A0139FAA           | 28.74                    | 12.95 | 11.14 | 99.2                       | UL Type 1                      |
| 125                      | 4A0165FAA           | 28.74                    | 12.95 | 11.14 | 101.4                      | UL Type 1                      |
| 150                      | 4A0208AAA           | 27.76                    | 17.72 | 12.99 | 174.2                      | Protected Chassis              |
|                          |                     | 37.8                     | 17.95 | 12.99 | 191.8                      | w/ UL Type 1 kit <sup>*2</sup> |
| 200                      | 4A0250AAA           | 31.5                     | 19.69 | 13.78 | 211.6                      | Protected Chassis              |
|                          |                     | 45.98                    | 19.84 | 13.78 | 233.7                      | w/ UL Type 1 kit <sup>*2</sup> |
| 250                      | 4A0296AAA           | 31.5                     | 19.69 | 13.78 | 224.9                      | Protected Chassis              |
|                          |                     | 45.98                    | 19.84 | 13.78 | 246.9                      | w/ UL Type 1 kit <sup>*2</sup> |
| 300                      | 4A0362AAA           | 31.5                     | 19.69 | 13.78 | 235.9                      | Protected Chassis              |
|                          |                     | 45.98                    | 19.84 | 13.78 | 257.9                      | w/ UL Type 1 kit <sup>*2</sup> |
| 350                      | 4A0414AAA           | 37.4                     | 19.69 | 14.57 | 275.6                      | Protected Chassis              |
|                          |                     | 48.3                     | 19.69 | 14.57 | 292                        | w/ UL Type 1 kit <sup>*2</sup> |
| 400                      | -                   | -                        | -     | -     | -                          | -                              |
|                          |                     | -                        | -     | -     | -                          | -                              |
| 450                      | 4A0515AAA           | 44.88                    | 26.38 | 14.57 | 476.2                      | Protected Chassis              |
|                          |                     | 61.3                     | 26.38 | 14.57 | 504                        | w/ UL Type 1 kit <sup>*2</sup> |
| 500                      | 4A0675AAA           | 44.88                    | 26.38 | 14.57 | 487.2                      | Protected Chassis              |
|                          |                     | 61.3                     | 26.38 | 14.57 | 515                        | w/ UL Type 1 kit <sup>*2</sup> |
| 600                      | -                   | -                        | -     | -     | -                          | -                              |
|                          |                     | -                        | -     | -     | -                          | -                              |

| FP605              | Physical Dimensions (in) |      |      | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|--------------------|--------------------------|------|------|----------------------------|--------------------------------|
| Catalog Code FP65U | H                        | W    | D    |                            |                                |
| 4005AFA            | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| -                  | -                        | -    | -    | -                          | UL Type 1                      |
| 4008AFA            | 14.1                     | 4.9  | 8.6  | 15.4                       | UL Type 1                      |
| 4011AFA            | 14.1                     | 4.9  | 8.6  | 14.3                       | UL Type 1                      |
| 4014AFA            | 14.1                     | 4.9  | 8.6  | 14.3                       | UL Type 1                      |
| 4021AFA            | 17.6                     | 4.9  | 9.2  | 17.6                       | UL Type 1                      |
| 4027AFA            | 17.6                     | 4.9  | 9.2  | 19.8                       | UL Type 1                      |
| 4034AFA            | 17.6                     | 4.9  | 9.2  | 22                         | UL Type 1                      |
| 4040AFA            | 20.1                     | 7.9  | 9.3  | 33.1                       | UL Type 1                      |
| 4052AFA            | 20.1                     | 7.9  | 9.3  | 37.5                       | UL Type 1                      |
| 4065AFA            | 20.1                     | 7.9  | 9.3  | 41.9                       | UL Type 1                      |
| 4077AFA            | 21.3                     | 10   | 10.4 | 61.7                       | UL Type 1                      |
| 4096AFA            | 21.3                     | 10   | 10.4 | 66.1                       | UL Type 1                      |
| 4124AFA            | 21.3                     | 10   | 10.4 | 70.5                       | UL Type 1                      |
| 4156AFA            | 30.5                     | 12.3 | 15.7 | 167.6                      | UL Type 1                      |
| 4180ABA            | 27.6                     | 12.3 | 16.5 | 143.3                      | Protected Chassis              |
|                    | 36                       | 12.4 | 16.5 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 4240ABA            | 27.6                     | 12.3 | 16.5 | 147.7                      | Protected Chassis              |
|                    | 36                       | 12.4 | 16.5 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 4302ABA            | 27.6                     | 12.3 | 16.5 | 154.3                      | Protected Chassis              |
|                    | 36                       | 12.4 | 16.5 | -                          | w/ UL Type 1 kit <sup>*2</sup> |
| 4361ABA            | 31.5                     | 17.3 | 18.6 | 253.5                      | Protected Chassis              |
|                    | 41.1                     | 17.5 | 18.6 | 286.6                      | w/ UL Type 1 kit <sup>*2</sup> |
| 4414ABA            | 31.5                     | 17.3 | 18.6 | 266.8                      | Protected Chassis              |
|                    | 41.1                     | 17.5 | 18.6 | 286.6                      | w/ UL Type 1 kit <sup>*2</sup> |
| 4477ABA            | 44.9                     | 20.1 | 18.9 | 418.9                      | Protected Chassis              |
|                    | 70.4                     | 20.1 | 18.9 | 455                        | w/ UL Type 1 kit <sup>*2</sup> |
| 4515ABA            | 44.9                     | 20.1 | 18.9 | 418.9                      | Protected Chassis              |
|                    | 70.4                     | 20.1 | 18.9 | 455                        | w/ UL Type 1 kit <sup>*2</sup> |
| 4590ABA            | 44.9                     | 20.1 | 18.9 | 443.1                      | Protected Chassis              |
|                    | 70.4                     | 20.1 | 18.9 | 455                        | w/ UL Type 1 kit <sup>*2</sup> |
| 4720ABA            | 44.9                     | 20.1 | 18.9 | 438.8                      | Protected Chassis              |
|                    | 70.4                     | 20.1 | 18.9 | 455                        | w/ UL Type 1 kit <sup>*2</sup> |

\*1 The horsepower rating is based on a standard NEMA B, 4-pole motor design as represented in NEC table 430.150 Full-Load Current, Three-Phase Alternating Current Motors at 240 or 480 volts.

\*2 Protected chassis models can be converted to Type 1 by adding top and bottom covers. A special drive model number and add-on kit is required. Consult the factory for special drive model number and add-on kit.

\*3 This data represents the drive weight only, not shipping weight.

## ■ IP55/UL Type 12 Heatsink External Mounting

### 200-240 V Flange Cut-out Dimensions

| P1000 Model            |                  |                 |
|------------------------|------------------|-----------------|
| Drive Model<br>CIMR-PU | W<br>in<br>(mm)  | H<br>in<br>(mm) |
| 2A0004UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0006UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0008UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0010UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0012UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0018UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0021UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0030UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0040UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 2A0056UAA              | 7.09<br>(180)    | 11.3<br>(287)   |
| 2A0069UAA              | 8.66<br>(220)    | 13.43<br>(341)  |
| 2A0081UAA              | 8.66<br>(220)    | 13.43<br>(341)  |
| 2A0110UAA              | 10.12<br>(257)   | 14.8<br>(376)   |
| 2A0138UAA              | 11.06<br>(16.65) | 16.65<br>(423)  |
| 2A0169UAA              | 13.07<br>(332)   | 20.67<br>(525)  |
| 2A0211UAA              | 13.07<br>(332)   | 20.67<br>(525)  |
| 2A0250UAA              | 22.05<br>(560)   | 26.34<br>(669)  |
| 2A0312UAA              | 22.05<br>(560)   | 26.34<br>(669)  |
| 2A0360UAA              | 19.78<br>(502.5) | 28.98<br>(736)  |
| 2A0415UAA              | 19.78<br>(502.5) | 28.98<br>(736)  |

| FP605 Model           |                 |                 |
|-----------------------|-----------------|-----------------|
| Catalog Code<br>FP65U | W<br>in<br>(mm) | H<br>in<br>(mm) |
| -                     | -               | -               |
| -                     | -               | -               |
| -                     | -               | -               |
| -                     | -               | -               |
| 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2017AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2024AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 2031AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 2046AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 2059AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 2075AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2088AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2114AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2143AFA               | 11.65<br>(296)  | 26.93<br>(508)  |
| 2169AFA               | 11.65<br>(296)  | 26.93<br>(508)  |
| 2211AWA               | 11.65<br>(296)  | 24.02<br>(508)  |
| 2273AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 2343AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 2396AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| -                     | -               | -               |



### 380-480 V Flange Cut-out Dimensions

| P1000 Model            |                  |                 |
|------------------------|------------------|-----------------|
| Drive Model<br>CIMR-PU | W<br>in<br>(mm)  | H<br>in<br>(mm) |
| 4A0002UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0004UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0005UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0007UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0009UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0011UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0018UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0023UAA              | 5.51<br>(140)    | 10.35<br>(263)  |
| 4A0031UAA              | 7.09<br>(180)    | 11.3<br>(287)   |
| 4A0038UAA              | 7.09<br>(180)    | 11.3<br>(287)   |
| 4A0044UAA              | 8.66<br>(220)    | 13.43<br>(341)  |
| 4A0058UAA              | 10.12<br>(308)   | 14.8<br>(376)   |
| 4A0072UAA              | 11.06<br>(281)   | 16.65<br>(423)  |
| 4A0088UAA              | 12.87<br>(327)   | 19.72<br>(501)  |
| 4A0103UAA              | 12.87<br>(327)   | 19.72<br>(501)  |
| 4A0139UAA              | 13.07<br>(332)   | 20.67<br>(525)  |
| 4A0165UAA              | 13.07<br>(332)   | 20.67<br>(525)  |
| 4A0208UAA              | 18.5<br>(470)    | 26.34<br>(669)  |
| 4A0250UAA              | 19.78<br>(502.5) | 28.98<br>(736)  |
| 4A0296UAA              | 19.78<br>(502.5) | 28.98<br>(736)  |
| 4A0362UAA              | 19.78<br>(502.5) | 28.98<br>(736)  |
| 4A0414UAA              | 20.47<br>(520)   | 36.05<br>(916)  |
| -                      | -                | -               |
| 4A0515UAA              | 27.17<br>(690)   | 43.19<br>(1097) |
| 4A0675UAA              | 27.17<br>(690)   | 43.19<br>(1097) |

| FP605 Model           |                 |                 |
|-----------------------|-----------------|-----------------|
| Catalog Code<br>FP65U | W<br>in<br>(mm) | H<br>in<br>(mm) |
| -                     | -               | -               |
| -                     | -               | -               |
| 4005AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| -                     | -               | -               |
| 4008AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4014AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4021AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4027AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4034AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4040AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4052AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4065AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4077AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4096AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4124AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4156AFA               | 11.65<br>(296)  | 26.93<br>(684)  |
| 4180AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4240AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4302AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4361AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 4414AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 4477AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| 4515AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| 4590AWA               | 19.06<br>(484)  | 41.02<br>(1042) |

| P1000 Model            |                 |                 |
|------------------------|-----------------|-----------------|
| Drive Model<br>CIMR-PU | W<br>in<br>(mm) | H<br>in<br>(mm) |
| 4A0930UAA              | 48.58<br>(1234) | 51.46<br>(1307) |
| 4A1200UAA              | 48.58<br>(1234) | 51.46<br>(1307) |

| FP605 Model           |                 |                 |
|-----------------------|-----------------|-----------------|
| Catalog Code<br>FP65U | W<br>in<br>(mm) | H<br>in<br>(mm) |
| 4720AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| -                     | -               | -               |

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## Revision History

| Date of Publication | Revision Number | Revised Content   |
|---------------------|-----------------|---|
| October 2022        | B               | Added FP605 UL Type 12 Heatsink External Mounting models and IP20 UL Type 1 Protected Chassis models. |
| June 2022           | -               | First release.  |

# YASKAWA

## FP605 DRIVE P1000 TO FP605 RATINGS AND DIMENSION COMPARISON

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