

# YASKAWA

# iQpump<sup>®</sup>1000 to iQpump<sup>®</sup>605 DRIVE

## PRODUCT TRANSITION GUIDE

### INTELLIGENT PUMP CONTROLLER

#### MODELS:

CIMR-PWxAxxxxxxx and WM65xxxxxxx

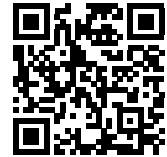
#### CAPACITIES:

200 V Class: 3/4 to 175 HP ND

400 V Class: 3/4 to 1000 HP ND

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# 1 Purpose of Document

This document is intended to help OEMs, Integrators, and End Users replace Yaskawa iQpump1000 series AC drives with Yaskawa iQpump605 series AC drives.

## 2 Unavailable iQpump1000 Parameters

**Table 2.1 iQpump1000 Parameters not Available in iQpump605**

| Parameter Number | Parameter Name                                                | Parameter Number | Parameter Name                                                    |
|------------------|---------------------------------------------------------------|------------------|-------------------------------------------------------------------|
| A1-08            | Custom Initialize Modes                                       | L8-40            | Carrier Frequency Reduction Off Delay Time                        |
| b1-07            | Run Command Retention when Source is Changed                  | L8-01            | Internal Dynamic Braking Resistor Protection Selection (ERF type) |
| F6-10            | CC-Link Node Address                                          | L8-55            | Internal Braking Transistor Protection                            |
| F6-11            | CC-Link Communication Speed                                   | o1-01            | Drive Mode UnitMonitor Selection                                  |
| F6-20            | Station Address                                               | o1-07            | Second Line Monitor Selection                                     |
| F6-21            | MECHATROLINK Frame Size                                       | o1-08            | Third Line Monitor Selection                                      |
| F6-22            | MECHATROLINK Link Speed                                       | o1-12            | Home Help Text                                                    |
| F6-23            | MECHATROLINK Monitor Selection (E)                            | o2-30            | Monitor Position Save                                             |
| F6-24            | MECHATROLINK Monitor Selection (F)                            | o4-17            | Set/Reset Real-Time Clock                                         |
| F6-25            | Operation Selection at MECHATROLINK Watchdog Timer Error (E5) | P4-04            | Pre-Charge Message Style                                          |
| F6-26            | MECHATROLINK bUS Errors Detected                              | P4-14            | Two Motor Alternation Selection                                   |
| F6-72            | PowerLink Node Address                                        | P4-15            | Two Motor Alternation Operation Selection                         |
| H5-07            | RTS Control Selection                                         | P4-16            | Two Motor Alternation Time                                        |
| H5-13            | Power-up CALL Alarm                                           | P6-25            | Flow Rate Limit Foldback Message Style                            |
| L1-15            | Motor 1 Thermistor Selection (NTC)                            | P9-60            | Geothermal Temperature Source                                     |
| L1-16            | Motor 1 Overheat Temperature                                  | P9-99            | Network Compatibility Selection                                   |
| L1-19            | Operation at Thermistor Disconnect (THo) (NTC)                | Q2-01 to Q2-12   | Geothermal Mode Setup Parameters                                  |
| L1-20            | Operation at Motor Overheat (oH5)                             | Q3-05            | Current Limit Regulator Feedback Filter                           |
| L8-32            | Main Contactor and Cooling Fan Power Supply Failure Selection | Q3-13            | Single Phase Foldback Message Style                               |

### 3 Parameters with Different Parameter Numbers

Table 3.1 iQpump1000 Parameters with a Different Number in iQpump605

| Parameter Number    |                | Parameter Name                                           | Parameter Number    |                              | Parameter Name                         |
|---------------------|----------------|----------------------------------------------------------|---------------------|------------------------------|----------------------------------------|
| iQpump1000          | iQpump605      |                                                          | iQpump1000          | iQpump605                    |                                        |
| b5-12               | b5-82          | Feedback Loss 4 to 20 mA Detection Selection             | P1-30               | MFDI Setting BB or IBB       | Low Water Digital Input Configuration  |
| b5-13               | b5-83          | Feedback Loss Goto Frequency                             | P1-31               | MFDI Setting BC or IBC       | High Water Digital Input Configuration |
| b5-14               | b5-84          | Feedback Loss of Prime Level                             | P2-xx               | Y2-xx                        | Pump Protection                        |
| b5-15               | b5-85          | Feedback Loss Go To Frequency Time Out                   | P3-xx               | Y3-xx                        | Contactors Multiplexing                |
| b5-16               | b5-86          | Feedback Loss Start Delay                                | P4-xx <sup>*1</sup> | Y4-xx                        | Pump Advanced                          |
| b5-32               | b5-53          | Integrator Ramp Limit                                    | P4-21               | MFDI Setting B8 or IB8       | Low City Input Select                  |
| E2-20               | L1-08          | Motor Service Factor Amps                                | P4-25               | MFDI Setting BD or IBD       | Remote Drive Disable Selection         |
| H1-31 to H1-38      | H1-61 to H1-68 | Terminal S1 On-Delay Time to Terminal S8 On-Delay Time   | P4-26               | H1-61 to H1-68 <sup>*2</sup> | Remote Drive Disable On-Delay          |
| H1-41 to H1-48      | H1-71 to H1-78 | Terminal S3 Off-Delay Time to Terminal S8 Off-Delay Time | P4-27               | H1-71 to H1-78 <sup>*2</sup> | Remote Drive Disable Off-Delay         |
| H2-33               | b4-07          | Terminal MD/ME/MF On-Delay Time                          | P5-xx               | Y5-xx                        | Pump HAND Mode                         |
| H2-43               | b4-08          | Terminal MD/ME/MF Off-Delay Time                         | P6-xx <sup>*1</sup> | Y6-xx                        | Flow Meter Setup                       |
| H3-13               | H3-45 to H3-47 | Analog Input Filter Time Constant                        | P7-xx               | Y7-xx                        | Anti-Jam                               |
| H5-14               | H5-34          | Communication Error (CE) Go-To-Frequency                 | P8-xx               | Y8-xx                        | De-Scale/De-Ragging                    |
| H5-15               | H5-35          | Communication Error (CE) Go-To-Timeout                   | P9-xx <sup>*1</sup> | Y9-xx                        | Network Options                        |
| H5-16               | H5-36          | Communication Error Fault Restart Selection              | Q1-xx               | YA-xx                        | Preset Setpoint                        |
| o1-07               | o1-25          | Second Line Monitor Selection                            | Q3-xx <sup>*1</sup> | YC-xx                        | Output Current Limit                   |
| o1-08               | o1-26          | Third Line Monitor Selection                             | Q4-xx               | YD-xx                        | Water Level Control                    |
| o4-20               | o4-22          | Time Display Format                                      | Q5-xx               | YE-xx                        | Suction Pressure Control               |
| P1-xx <sup>*1</sup> | Y1-xx          | Pump Basic                                               | Q6-xx               | YF-xx                        | PI Auxiliary Control                   |

\*1 Not all parameters from this group are available in iQpump605. Refer to [Unavailable iQpump1000 Parameters on page 4](#) for a list of iQpump1000 parameters that are not available in iQpump605.

\*2 Exact parameter will be dependent on which MFDI is programmed for BD or IBD.

### 4 Parameters with Different Default Values

Table 4.1 iQpump605 Parameters with Different Defaults than iQpump1000

| Parameter Number | Parameter Name                                     | Default          |                |
|------------------|----------------------------------------------------|------------------|----------------|
|                  |                                                    | iQpump1000       | iQpump605      |
| L8-19            | Frequency Reduction Rate during Overheat Pre-Alarm | 80%              | 90%            |
| o1-05            | LCD Contrast Control                               | 3                | 5              |
| P1-11/Y1-11      | High Feedback Level                                | P1-11: 155.0 PSI | Y1-11: 0.0 PSI |
| P4-13/Y4-13      | Thrust Bearing Deceleration Time                   | P4-13: 5.0 s     | Y4-13: 2.5 s   |

## 5 Comparison of Ratings by Model

Use these tables to compare the output current ratings of the iQpump1000 and iQpump605 models.

**Note:**

These iQpump605 products are omitted from this document because there is no equivalent iQpump1000 model:

- iQpump605 IP55/UL Type 12
- iQpump605 IP55/UL Type 12 with Switch

### ◆ IP20 UL Type 1 and Protected Chassis

**Table 5.1 240 V Current Ratings**

| Nominal HP <sup>*/</sup> | iQpump1000 Model       |                                | iQpump605 Model       |                                | NEC Motor Ratings |                      |                      |
|--------------------------|------------------------|--------------------------------|-----------------------|--------------------------------|-------------------|----------------------|----------------------|
|                          | Drive Model<br>CIMR-PW | Rated Output<br>Current (Amps) | Catalog Code<br>WM65W | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 208 VAC | NEC FLA<br>@ 240 VAC |
| 0.75                     | 2A0004FAA              | 3.5                            | 2011AFA               | 10.6                           | 0.75              | 3.5                  | 3.2                  |
| 1                        | 2A0006FAA              | 6                              | 2011AFA               | 10.6                           | 1                 | 4.6                  | 4.2                  |
| 1.5                      | 2A0008FAA              | 8                              | 2011AFA               | 10.6                           | 1.5               | 6.6                  | 6                    |
| 2                        | 2A0010FAA              | 9.6                            | 2011AFA               | 10.6                           | 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.

**Table 5.2 480 V Current Ratings**

| Nominal HP <sup>*/</sup> | iQpump1000 Model       |                                | iQpump605 Model       |                                | NEC Motor Ratings |                      |
|--------------------------|------------------------|--------------------------------|-----------------------|--------------------------------|-------------------|----------------------|
|                          | Drive Model<br>CIMR-PW | Rated Output<br>Current (Amps) | Catalog Code<br>WM65W | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 480 VAC |
| 1                        | 4A0002FAA              | 2.1                            | 4005AFA               | 4.8                            | 1                 | 2.1                  |
| 2                        | 4A0004FAA              | 4.1                            | 4005AFA               | 4.8                            | 2                 | 3.4                  |
| 3                        | 4A0005FAA              | 5.4                            | 4005AFA               | 4.8                            | 3                 | 4.8                  |
| 4                        | 4A0007FAA              | 6.9                            | 4008AFA               | 7.6                            | -                 | -                    |
| 5                        | 4A0009FAA              | 8.8                            | 4008AFA               | 7.6                            | 5                 | 7.6                  |
| 7.5                      | 4A0011FAA              | 11.1                           | 4011AFA               | 11                             | 7.5               | 11                   |
| 10                       | 4A0018FAA              | 17.5                           | 4014AFA               | 14                             | 10                | 14                   |
| 15                       | 4A0023FAA              | 23                             | 4021AFA               | 21                             | 15                | 21                   |

| Nominal HP <sup>*/</sup> | iQpump1000 Model    |                             |
|--------------------------|---------------------|-----------------------------|
|                          | Drive Model CIMR-PW | Rated Output Current (Amps) |
| 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                      | -                   | -                           |

| iQpump605 Model    |                             | NEC Motor Ratings |                   |
|--------------------|-----------------------------|-------------------|-------------------|
| Catalog Code WM65W | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 480 VAC |
| 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

Table 5.3 200-240 V Flange Current Ratings

| Nominal HP | iQpump1000 Model    |                             |
|------------|---------------------|-----------------------------|
|            | Drive Model CIMR-PW | 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                          |
| 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                         |

| iQpump605 Model       |                              |                             | NEC Motor Ratings |                   |                   |
|-----------------------|------------------------------|-----------------------------|-------------------|-------------------|-------------------|
| Catalog Code WM65W    | External Heatsink Kit Number | Rated Output Current (Amps) | NEC HP            | NEC FLA @ 208 VAC | NEC FLA @ 240 VAC |
| 2011AFA               | ZPSD-600-EH12-FR1            | 10.6                        | 0.75              | 3.5               | 3.2               |
| 2011AFA               | ZPSD-600-EH12-FR1            | 10.6                        | 1                 | 4.6               | 4.2               |
| 2011AFA               | ZPSD-600-EH12-FR1            | 10.6                        | 1.5               | 6.6               | 6                 |
| 2011AFA               | ZPSD-600-EH12-FR1            | 10.6                        | 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                |
| 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 <sup>*/</sup> | -                            | 211                         | 75                | 211               | 192               |

## 5 Comparison of Ratings by Model

| Nominal HP | iQpump1000 Model       |                                | iQpump605 Model       |                                 |                                | NEC Motor Ratings |                      |                      |
|------------|------------------------|--------------------------------|-----------------------|---------------------------------|--------------------------------|-------------------|----------------------|----------------------|
|            | Drive Model<br>CIMR-PW | Rated Output<br>Current (Amps) | Catalog Code<br>WM65W | External Heatsink<br>Kit Number | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 208 VAC | NEC FLA<br>@ 240 VAC |
| 100        | 2A0250UAA              | 250                            | 2273AWA <sup>*1</sup> | -                               | 273                            | 100               | 273                  | 248                  |
| 125        | 2A0312UAA              | 312                            | 2343AWA <sup>*1</sup> | -                               | 343                            | 125               | 343                  | 312                  |
| 150        | 2A0360UAA              | 360                            | 2396AWA <sup>*1</sup> | -                               | 396                            | 150               | 396                  | 360                  |

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

**Table 5.4 380-480 V Flange Current Ratings**

| Nominal HP | iQpump1000 Model       |                                | iQpump605 Model       |                                 |                                | NEC Motor Ratings |                      |
|------------|------------------------|--------------------------------|-----------------------|---------------------------------|--------------------------------|-------------------|----------------------|
|            | Drive Model<br>CIMR-PW | Rated Output<br>Current (Amps) | Catalog Code<br>WM65W | External Heatsink<br>Kit Number | Rated Output<br>Current (Amps) | NEC HP            | NEC FLA<br>@ 480 VAC |
| 1          | 4A0002UAA              | 2.1                            | 4005AFA               | ZPSD-600-EH12-FR1               | 4.8                            | 1                 | 2.1                  |
| 2          | 4A0004UAA              | 4.1                            | 4005AFA               | ZPSD-600-EH12-FR1               | 4.8                            | 2                 | 3.4                  |
| 3          | 4A0005UAA              | 5.4                            | 4005AFA               | ZPSD-600-EH12-FR1               | 4.8                            | 3                 | 4.8                  |
| 4          | 4A0007UAA              | 6.9                            | 4008AFA               | ZPSD-600-EH12-FR1               | 7.6                            | -                 | -                    |
| 5          | 4A0009UAA              | 8.8                            | 4008AFA               | ZPSD-600-EH12-FR1               | 7.6                            | 5                 | 7.6                  |
| 7.5        | 4A0011UAA              | 11.1                           | 4011AFA               | ZPSD-600-EH12-FR1               | 11                             | 7.5               | 11                   |
| 10         | 4A0018UAA              | 17.5                           | 4014AFA               | ZPSD-600-EH12-FR1               | 14                             | 10                | 14                   |
| 15         | 4A0023UAA              | 23                             | 4021AFA               | ZPSD-600-EH12-FR2               | 21                             | 15                | 21                   |
| 20         | 4A0031UAA              | 31                             | 4027AFA               | ZPSD-600-EH12-FR2               | 27                             | 20                | 27                   |
| 25         | 4A0038UAA              | 38                             | 4034AFA               | ZPSD-600-EH12-FR2               | 34                             | 25                | 34                   |
| 30         | 4A0044UAA              | 44                             | 4040AFA               | ZPSD-600-EH12-FR3               | 40                             | 30                | 40                   |
| 40         | 4A0058UAA              | 58                             | 4052AFA               | ZPSD-600-EH12-FR3               | 52                             | 40                | 52                   |
| 50         | 4A0072UAA              | 72                             | 4065AFA               | ZPSD-600-EH12-FR3               | 65                             | 50                | 65                   |
| 60         | 4A0088UAA              | 88                             | 4077AFA               | ZPSD-600-EH12-FR4               | 77                             | 60                | 77                   |
| 75         | 4A0103UAA              | 103                            | 4096AFA               | ZPSD-600-EH12-FR4               | 96                             | 75                | 96                   |
| 100        | 4A0139UAA              | 139                            | 4124AFA               | ZPSD-600-EH12-FR4               | 124                            | 100               | 124                  |
| 125        | 4A0165UAA              | 165                            | 4156AWA <sup>*1</sup> | ZPSD-600-EH12-FR6               | 156                            | 125               | 156                  |
| 150        | 4A0208UAA              | 208                            | 4180AWA <sup>*1</sup> | -                               | 180                            | 150               | 180                  |
| 200        | 4A0250UAA              | 250                            | 4240AWA <sup>*1</sup> | -                               | 240                            | 200               | 240                  |
| 250        | 4A0296UAA              | 296                            | 4302AWA <sup>*1</sup> | -                               | 302                            | 250               | 302                  |
| 300        | 4A0362UAA              | 362                            | 4361AWA <sup>*1</sup> | -                               | 361                            | 300               | 361                  |
| 350        | 4A0414UAA              | 414                            | 4414AWA <sup>*1</sup> | -                               | 414                            | 350               | 414                  |
| 400        | -                      | -                              | 4477AWA <sup>*1</sup> | -                               | 477                            | 400               | 477                  |
| 450        | 4A0515UAA              | 515                            | 4515AWA <sup>*1</sup> | -                               | 515                            | 450               | 515                  |
| 500        | 4A0675UAA              | 675                            | 4590AWA <sup>*1</sup> | -                               | 590                            | 500               | 590                  |
| 700-800    | 4A0930UAA              | 930                            | 4720AWA <sup>*1</sup> | -                               | 720                            | 600               | 720                  |
| 900-1000   | 4A1200UAA              | 1200                           | -                     | -                               | -                              | -                 | -                    |

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

## 6 Comparison of Dimensions by Model

Use these tables to compare the dimensions of the iQpump1000 and iQpump605 models.

### ◆ IP20 UL Type 1 and Protected Chassis

Table 6.1 240 V Dimensions

| Nominal<br>HP <sup>*1</sup> | iQpump1000             | Physical Dimensions<br>(in) |       |       | Weight<br>(lbs) <sup>*3</sup> | Standard<br>Enclosure          | iQpump605                | Physical Dimensions (in) |      |      | Weight<br>(lbs) <sup>*3</sup> | Standard<br>Enclosure          |
|-----------------------------|------------------------|-----------------------------|-------|-------|-------------------------------|--------------------------------|--------------------------|--------------------------|------|------|-------------------------------|--------------------------------|
|                             | Drive Model<br>CIMR-PW | H                           | W     | D     |                               |                                | Catalog<br>Code<br>WM65W | H                        | W    | D    |                               |                                |
| 0.75                        | 2A0004FAA              | 11.81                       | 5.51  | 5.79  | 7.3                           | UL Type 1                      | 2011AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 1                           | 2A0006FAA              | 11.81                       | 5.51  | 5.79  | 7.3                           | UL Type 1                      | 2011AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 1.5                         | 2A0008FAA              | 11.81                       | 5.51  | 5.79  | 7.5                           | UL Type 1                      | 2011AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 2                           | 2A0010FAA              | 11.81                       | 5.51  | 5.79  | 7.5                           | UL Type 1                      | 2011AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 3                           | 2A0012FAA              | 11.81                       | 5.51  | 5.79  | 7.5                           | UL Type 1                      | 2011AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 5                           | 2A0018FAA              | 11.81                       | 5.51  | 6.46  | 8.2                           | UL Type 1                      | 2017AFA                  | 14.1                     | 4.9  | 8.6  | 13.2                          | UL Type 1                      |
| 7.5                         | 2A0021FAA              | 11.81                       | 5.51  | 6.46  | 8.2                           | UL Type 1                      | 2024AFA                  | 17.6                     | 4.9  | 9.2  | 16.5                          | UL Type 1                      |
| 10                          | 2A0030FAA              | 11.81                       | 5.51  | 6.57  | 9.3                           | UL Type 1                      | 2031AFA                  | 17.6                     | 4.9  | 9.2  | 17.6                          | UL Type 1                      |
| 15                          | 2A0040FAA              | 11.81                       | 5.51  | 6.57  | 9.3                           | UL Type 1                      | 2046AFA                  | 20.1                     | 7.9  | 9.3  | 30.9                          | UL Type 1                      |
| 20                          | 2A0056FAA              | 13.39                       | 7.09  | 7.36  | 13                            | UL Type 1                      | 2059AFA                  | 20.1                     | 7.9  | 9.3  | 33.1                          | UL Type 1                      |
| 25                          | 2A0069FAA              | 15.75                       | 8.66  | 7.76  | 20.1                          | UL Type 1                      | 2075AFA                  | 21.3                     | 10.0 | 10.4 | 55.1                          | UL Type 1                      |
| 30                          | 2A0081FAA              | 15.75                       | 8.66  | 7.76  | 22                            | UL Type 1                      | 2088AFA                  | 21.3                     | 10.0 | 10.4 | 55.1                          | UL Type 1                      |
| 40                          | 2A0110FAA              | 21.02                       | 10    | 10.16 | 50.7                          | UL Type 1                      | 2114AFA                  | 21.3                     | 10.0 | 10.4 | 61.7                          | UL Type 1                      |
| 50                          | 2A0138FAA              | 24.17                       | 10.98 | 10.16 | 61.7                          | UL Type 1                      | 2143AFA                  | 30.5                     | 12.3 | 15.7 | 156.5                         | UL Type 1                      |
| 60                          | 2A0169FAA              | 28.74                       | 12.95 | 11.14 | 90.4                          | UL Type 1                      | 2169AFA                  | 30.5                     | 12.3 | 15.7 | 163.1                         | UL Type 1                      |
| 75                          | 2A0211FAA              | -                           | -     | -     | -                             | -                              | 2211ABA                  | 27.6                     | 12.3 | 16.5 | 138.9                         | Protected Chassis              |
|                             |                        | 28.74                       | 12.95 | 11.14 | 92.6                          | UL Type 1                      |                          | 36                       | 12.4 | 16.5 | -                             | w/ UL Type 1 kit <sup>*2</sup> |
| 100                         | 2A0250AAA              | 27.76                       | 17.72 | 12.99 | 167.6                         | Protected Chassis              | 2273ABA                  | 27.6                     | 12.3 | 16.5 | 145.5                         | Protected Chassis              |
|                             |                        | 37.8                        | 17.95 | 12.99 | 191.8                         | w/ UL Type 1 kit <sup>*2</sup> |                          | 36                       | 12.4 | 16.5 | -                             | w/ UL Type 1 kit <sup>*2</sup> |
| 125                         | 2A0312AAA              | 27.76                       | 17.72 | 12.99 | 176.4                         | Protected Chassis              | 2343ABA                  | 31.5                     | 17.3 | 18.6 | 240.3                         | Protected Chassis              |
|                             |                        | 37.8                        | 17.95 | 12.99 | 191.8                         | w/ UL Type 1 kit <sup>*2</sup> |                          | 41.1                     | 17.5 | 18.6 | -                             | w/ UL Type 1 kit <sup>*2</sup> |
| 150                         | 2A0360AAA              | 31.5                        | 19.69 | 13.78 | 216.1                         | Protected Chassis              | 2396ABA                  | 31.5                     | 17.3 | 18.6 | 249.1                         | Protected Chassis              |
|                             |                        | 45.98                       | 19.84 | 13.78 | 233.7                         | w/ UL Type 1 kit <sup>*2</sup> |                          | 41.1                     | 17.5 | 18.6 | -                             | 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> | -                        | -                        | -    | -    | -                             | -                              |

\*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.

## 6 Comparison of Dimensions by Model

**Table 6.2 480 V Dimensions**

| Nominal HP <sup>*1</sup> | iQpump1000          | Physical Dimensions (in) |       |       | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|--------------------------|---------------------|--------------------------|-------|-------|----------------------------|--------------------------------|
|                          | Drive Model CIMR-PW | 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                      |
| 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                      | -                   | -                        | -     | -     | -                          | -                              |
|                          |                     | -                        | -     | -     | -                          | -                              |

| iQpump605          | Physical Dimensions (in) |      |      | Weight (lbs) <sup>*3</sup> | Standard Enclosure             |
|--------------------|--------------------------|------|------|----------------------------|--------------------------------|
| Catalog Code WM65W | H                        | W    | D    |                            |                                |
| 4005AFA            | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| 4005AFA            | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| 4005AFA            | 14.1                     | 4.9  | 8.6  | 13.2                       | UL Type 1                      |
| 4008AFA            | 14.1                     | 4.9  | 8.6  | 15.4                       | 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

Table 6.3 200-240 V Flange Cut-out Dimensions

| iQpump1000 Model       |                  |                 | iQpump605 Model       |                 |                 |
|------------------------|------------------|-----------------|-----------------------|-----------------|-----------------|
| Drive Model<br>CIMR-PW | W<br>in<br>(mm)  | H<br>in<br>(mm) | Catalog Code<br>WM65W | W<br>in<br>(mm) | H<br>in<br>(mm) |
| 2A0004UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0006UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0008UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0010UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0012UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0018UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2017AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 2A0021UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2024AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 2A0030UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2031AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 2A0040UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 2046AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 2A0056UAA              | 7.09<br>(180)    | 11.3<br>(287)   | 2059AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 2A0069UAA              | 8.66<br>(220)    | 13.43<br>(341)  | 2075AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2A0081UAA              | 8.66<br>(220)    | 13.43<br>(341)  | 2088AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2A0110UAA              | 10.12<br>(257)   | 14.8<br>(376)   | 2114AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 2A0138UAA              | 11.06<br>(16.65) | 16.65<br>(423)  | 2143AFA               | 11.65<br>(296)  | 26.93<br>(508)  |
| 2A0169UAA              | 13.07<br>(332)   | 20.67<br>(525)  | 2169AFA               | 11.65<br>(296)  | 26.93<br>(508)  |
| 2A0211UAA              | 13.07<br>(332)   | 20.67<br>(525)  | 2211AWA               | 11.65<br>(296)  | 24.02<br>(508)  |
| 2A0250UAA              | 22.05<br>(560)   | 26.34<br>(669)  | 2273AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 2A0312UAA              | 22.05<br>(560)   | 26.34<br>(669)  | 2343AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 2A0360UAA              | 19.78<br>(502.5) | 28.98<br>(736)  | 2396AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 2A0415UAA              | 19.78<br>(502.5) | 28.98<br>(736)  | -                     | -               | -               |

Table 6.4 380-480 V Flange Cut-out Dimensions

| iQpump1000 Model       |                  |                 | iQpump605 Model       |                 |                 |
|------------------------|------------------|-----------------|-----------------------|-----------------|-----------------|
| Drive Model<br>CIMR-PW | W<br>in<br>(mm)  | H<br>in<br>(mm) | Catalog Code<br>WM65W | W<br>in<br>(mm) | H<br>in<br>(mm) |
| 4A0002UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4005AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0004UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4005AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0005UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4005AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0007UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4008AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0009UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4008AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0011UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4011AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0018UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4014AFA               | 4.65<br>(118)   | 12.76<br>(324)  |
| 4A0023UAA              | 5.51<br>(140)    | 10.35<br>(263)  | 4021AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4A0031UAA              | 7.09<br>(180)    | 11.3<br>(287)   | 4027AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4A0038UAA              | 7.09<br>(180)    | 11.3<br>(287)   | 4034AFA               | 4.65<br>(118)   | 16.3<br>(414)   |
| 4A0044UAA              | 8.66<br>(220)    | 13.43<br>(341)  | 4040AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4A0058UAA              | 10.12<br>(308)   | 14.8<br>(376)   | 4052AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4A0072UAA              | 11.06<br>(281)   | 16.65<br>(423)  | 4065AFA               | 7.64<br>(194)   | 18.62<br>(473)  |
| 4A0088UAA              | 12.87<br>(327)   | 19.72<br>(501)  | 4077AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4A0103UAA              | 12.87<br>(327)   | 19.72<br>(501)  | 4096AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4A0139UAA              | 13.07<br>(332)   | 20.67<br>(525)  | 4124AFA               | 9.41<br>(239)   | 20<br>(508)     |
| 4A0165UAA              | 13.07<br>(332)   | 20.67<br>(525)  | 4156AFA               | 11.65<br>(296)  | 26.93<br>(684)  |
| 4A0208UAA              | 18.5<br>(470)    | 26.34<br>(669)  | 4180AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4A0250UAA              | 19.78<br>(502.5) | 28.98<br>(736)  | 4240AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4A0296UAA              | 19.78<br>(502.5) | 28.98<br>(736)  | 4302AWA               | 11.65<br>(296)  | 24.02<br>(610)  |
| 4A0362UAA              | 19.78<br>(502.5) | 28.98<br>(736)  | 4361AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| 4A0414UAA              | 20.47<br>(520)   | 36.05<br>(916)  | 4414AWA               | 16.30<br>(414)  | 27.95<br>(710)  |
| -                      | -                | -               | 4477AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| 4A0515UAA              | 27.17<br>(690)   | 43.19<br>(1097) | 4515AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| 4A0675UAA              | 27.17<br>(690)   | 43.19<br>(1097) | 4590AWA               | 19.06<br>(484)  | 41.02<br>(1042) |

| iQpump1000 Model       |                 |                 |
|------------------------|-----------------|-----------------|
| Drive Model<br>CIMR-PW | 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) |

| iQpump605 Model       |                 |                 |
|-----------------------|-----------------|-----------------|
| Catalog Code<br>WM65W | W<br>in<br>(mm) | H<br>in<br>(mm) |
| 4720AWA               | 19.06<br>(484)  | 41.02<br>(1042) |
| -                     | -               | -               |

## 7 Wiring Terminal Differences

Use these tables to compare the wiring terminal differences between the iQpump1000 and iQpump605 models.

### ◆ Control Terminals

| Type                            | Terminal   |           | Name                               |
|---------------------------------|------------|-----------|------------------------------------|
|                                 | iQpump1000 | iQpump605 |                                    |
| Multi-Function Digital Inputs   | S1         | S1        | MFDI selection 1                   |
|                                 | S2         | S2        | MFDI selection 2                   |
|                                 | S3         | S3        | MFDI selection 3                   |
|                                 | S4         | S4        | MFDI selection 4                   |
|                                 | S5         | S5        | MFDI selection 5                   |
|                                 | S6         | S6        | MFDI selection 6                   |
|                                 | S7         | S7        | MFDI selection 7                   |
|                                 | S8         | S8        | MFDI selection 8                   |
|                                 | SN         | SN        | MFDI power supply 0 V              |
|                                 | SC         | SC        | MFDI selection common              |
|                                 | SP         | SP        | MFDI power supply +24 Vdc          |
| Safe Disable Input              | -          | H1        | Safe Disable input 1               |
|                                 | -          | H2        | Safe Disable input 2               |
|                                 | -          | HC        | Safe Disable function common       |
| Analog Inputs/Pulse Train Input | RP         | RP        | Multi-function pulse train input   |
|                                 | +V         | +V        | Power supply for frequency setting |
|                                 | A1         | A1        | MFAI 1                             |
|                                 | A2         | A2        | MFAI 2                             |
|                                 | A3         | A3        | MFAI 3                             |
|                                 | AC         | AC        | Frequency reference common         |
|                                 | E (G)      | FE        | Connecting shielded cable          |
| Fault Relay Output              | MA         | MA        | N.O. output                        |
|                                 | MB         | MB        | N.C. output                        |
|                                 | MC         | MC        | Digital output common              |

## 7 Wiring Terminal Differences

| Type                           | Terminal   |           | Name                              |
|--------------------------------|------------|-----------|-----------------------------------|
|                                | iQpump1000 | iQpump605 |                                   |
| Multi-Function Digital Outputs | M1         | M1        | MFDO                              |
|                                | M2         | M2        |                                   |
|                                | M3         | M3        | MFDO                              |
|                                | M4         | M4        |                                   |
|                                | MD         | MD        | N.O. output                       |
|                                | ME         | ME        | N.C. output                       |
|                                | MF         | MF        | Digital output common             |
| Monitor Output                 | FM         | FM        | MFAO 1                            |
|                                | AM         | AM        | MFAO 2                            |
|                                | AC         | AC        | Monitor common                    |
| External Power Supply Output   | +24 V      | +P        | External power supply             |
| External Power Supply Input    | -          | PS        | External 24 V power supply input  |
|                                | -          | AC        | External 24 V power supply ground |

### ◆ Main Circuit Terminals

| Terminal   |           | Name                            |
|------------|-----------|---------------------------------|
| iQpump1000 | iQpump605 |                                 |
| R/L1       | R/L1      | Main circuit power supply input |
| S/L2       | S/L2      |                                 |
| T/L3       | T/L3      |                                 |
| U/T1       | U/T1      | Drive output                    |
| V/T2       | V/T2      |                                 |
| W/T3       | W/T3      |                                 |
| B1         | -         | Braking resistor                |
| B2         | -         |                                 |
| ⊕2         | -         | DC Bus                          |
| ⊕1         | ⊕1        |                                 |
| ⊖          | ⊖         |                                 |
| ⊕3         | -         |                                 |

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# YASKAWA

## iQpump®1000 to iQpump®605 DRIVE PRODUCT TRANSITION GUIDE

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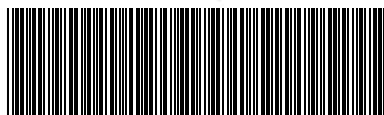
In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply.

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

Original instructions.

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