

## Product Transition Guide

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### J7 to J1000

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| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

## Table of Contents

|  |           |
|--|-----------|
| <b>1.0 APPLICABLE DRIVES .....</b>                       | <b>3</b>  |
| <b>2.0 DRIVE REPLACEMENT CHECKLIST .....</b>             | <b>4</b>  |
| <b>3.0 RATINGS SUMMARY .....</b>                         | <b>5</b>  |
| <b>4.0 TERMINALS .....</b>                               | <b>6</b>  |
| 4.1 Main Circuit Terminals .....                         | 6         |
| 4.2 Control Terminals, Signal Levels .....               | 6         |
| 4.3 DIP Switches .....                                   | 7         |
| 4.4 Main Terminal Size / Electric Wire Differences ..... | 7         |
| 4.5 Control Terminal and Wire Sizes .....                | 9         |
| <b>5.0 DIMENSIONS.....</b>                               | <b>10</b> |
| <b>6.0 OPTION REPLACEMENTS .....</b>                     | <b>11</b> |
| <b>7.0 PARAMETER SETTINGS .....</b>                      | <b>12</b> |
| 7.1 Parameter Correspondence for Drive Replacement ..... | 12        |
| 7.2 Parameter Differences .....                          | 18        |
| 7.3 Special Software Replacement .....                   | 18        |
| <b>8.0 REVISION HISTORY .....</b>                        | <b>19</b> |
| <b>9.0 REFERENCES .....</b>                              | <b>19</b> |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

## ■ 1.0 Applicable Drives

This document describes the substitution of the following drives:

Original Drive: CIMR-J7xMxxxx, CIMR-J7xUxxx, or JDxxxx

Spec: xxx0 (IP20)

Software Version: Standard: 001x, 002x

Replacement: CIMR-JUxAxxxxBxx

Spec: CIMR-JUxAxxxxBxx (A-Standard model)

Software Version: PRG: 10xx

This replacement J1000 drive must be selected using the J1000 Heavy Duty rating.

The description is not valid for drives with other specifications or firmware installed.

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

## ■ 2.0 Drive Replacement Checklist

|                 | Item                       | Checkpoints   | Checked? |
|-----------------|----------------------------|---|----------|
| Hardware        | Basic                      | <b>Digital Operator Panel</b><br>Does the digital operator panel need to be mounted in the same location as before?<br>- If necessary, attempt to mount the operator panel at the same location as before.<br>Was a remote operator connected to the old unit?<br>- If so, do not attempt to connect the old remote operator panel to the J1000.<br>Refer to part 6 of this document for option replacements. |          |
|                 |                            | <b>Special Specifications</b><br>Check the installed drive's specifications to make sure that it is compliant with the standard specifications (no special firmware, etc.).   |          |
|                 | Main and Control Terminals | <b>Wire Length</b><br>In the J7 drive, the main terminals are located at the top of the drive. The J1000 drive has all main terminals located at the bottom of the drive. Check to assure that all cables are long enough to be connected without tension to the new drive.   |          |
|                 |                            | <b>Main Circuit Wires and Terminal Specifications</b><br>Compare the occupied terminals of the old drive to the new drive's terminals (shape, size, etc.). Check that all wires fit in the new drive's terminals, refer to part 4 of this document.   |          |
| Software        | Software Version           | <b>Check Software Version or for Special Software</b><br>Check the software number in the old drive to be sure that it can be replaced by the J1000 drive. Refer to part 7.3 of this document.<br>- Ask your Yaskawa representative for help in identifying the software installed on the drive that must be replaced and for additional replacement information.   |          |
|                 | Parameter                  | <b>Check the Parameter Settings</b><br>Check the parameter settings of the J7 drive and perform a parameter transition to the new parameters following part 7 of this document. Contact your Yaskawa representative if there is special software installed or if a parameter is not mentioned in this document.   |          |
| Options, Others | Communication Option       | <b>Is an Option Card Installed?</b><br>Check if any communication card options are installed.<br>- J7 options are NOT compatible with the J1000 drive and must be replaced.<br>- Communication cable connectors from J7 options are compatible to the J1000 options without rewiring.   |          |
|                 | Reactors, Chokes           | <b>Is an AC Reactor or DC Link Choke Installed?</b><br>AC Reactors or DC Link Chokes installed on a J7 drive are compatible with the J1000 drive.   |          |
|                 | Filters                    | <b>Is an EMC Filter Installed?</b><br>Some EMC Filters installed on a J7 drive are compatible with the J1000 drive. For details on filter replacements contact your Yaskawa representative.   |          |
|                 | Cables                     | <b>Extension Cables</b><br>The extension cables for remote operation used on a J7 drive are compatible with the J1000 drive. However, the remote operator and the remote operator interface are not compatible with the J1000 drive and must be replaced.   |          |

- For questions on installation, parameter settings or detailed parameter/ function descriptions see the instruction manual. Other technical questions should be referred to your Yaskawa representative.

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

## ■ 3.0 Ratings Summary

<1>, <3>



| Voltage Class      | Maximum Motor Power (kW) | J7               |                    |         |                    |                         | J1000          |                    |         |                    |                         |
|--------------------|--------------------------|------------------|--------------------|---------|--------------------|-------------------------|----------------|--------------------|---------|--------------------|-------------------------|
|                    |                          | Model No. J7xM□x | Output Power (kVA) | HP      | Output Current (A) | Carrier Frequency (kHz) | Model No. JU□x | Output Power (kVA) | HP      | Output Current (A) | Carrier Frequency (kHz) |
| Single Phase 200 V | 0.1                      | B0P1             | 0.3                | 1/8     | 0.8                | 10                      | BA0001         | 0.3                | 1/8     | 0.8                | 10                      |
|                    | 0.2                      | B0P2             | 0.6                | 1/4     | 1.6                |                         | BA0002         | 0.6                | 1/4     | 1.6                |                         |
|                    | 0.4                      | B0P4             | 1.1                | 1/2     | 3.0                |                         | BA0003         | 1.1                | 1/2     | 3.0                |                         |
|                    | 0.75                     | B0P7             | 1.9                | 3/4 & 1 | 5.0                |                         | BA0006         | 1.9                | 3/4 & 1 | 5.0                |                         |
|                    | 1.5                      | B1P5             | 3.0                | 2       | 8.0                | 7.5                     | BA0010         | 3.0                | 2       | 8.0                | 8                       |
| Three-Phase 200 V  | 0.1                      | 20P1             | 0.3                | 1/8     | 0.8                | 10                      | 2A0001         | 0.3                | 1/8     | 0.8                | 10                      |
|                    | 0.2                      | 20P2             | 0.6                | 1/4     | 1.6                |                         | 2A0002         | 0.6                | 1/4     | 1.6                |                         |
|                    | 0.4                      | 20P4             | 1.1                | 1/2     | 3.0                |                         | 2A0004         | 1.1                | 1/2     | 3.0                |                         |
|                    | 0.75                     | 20P7             | 1.9                | 3/4 & 1 | 5.0                |                         | 2A0006         | 1.9                | 3/4 & 1 | 5.0                |                         |
|                    | 1.5                      | 21P5             | 3.0                | 2       | 8.0                | 7.5                     | 2A0010         | 3.0                | 2       | 8.0                | 8                       |
|                    | 2.2                      | 22P2             | 4.2                | 3       | 11.0               |                         | 2A0012         | 4.2                | 3       | 11.0               |                         |
| 3.7                | 23P7                     | 6.7              | 5                  | 17.5    | 2A0020             |                         | 6.7            | 5                  | 17.5    |                    |                         |
| Three-Phase 400 V  | 0.2                      | 40P2             | 0.9                | 1/2     | 1.2                | 7.5                     | 4A0001         | 0.9                | 1/2     | 1.2                | 8                       |
|                    | 0.4                      | 40P4             | 1.4                | 3/4     | 1.8                |                         | 4A0002         | 1.4                | 3/4     | 1.8                |                         |
|                    | 0.75                     | 40P7             | 2.6                | 1 & 2   | 3.4                |                         | 4A0004         | 2.6                | 1 & 2   | 3.4                |                         |
|                    | 1.5                      | 41P5             | 3.7                | 3       | 4.8                |                         | 4A0005         | 3.7                | 3       | 4.8                |                         |
|                    | 2.2                      | 42P2             | 4.2                | 3       | 5.5                |                         | 4A0007         | 4.2                | 3       | 5.5                |                         |
|                    | 2.2                      | 42P2             | 4.2                | 3       | 5.5                |                         | 4A0009         | 5.5                | 4       | 7.2                |                         |
|                    | 3.7                      | 43P7             | 6.6                | 5       | 8.6                |                         | 4A0011         | 7.0                | 5       | 9.2                |                         |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

## ■ 4.0 Terminals

### ■ 4.1 Main Circuit Terminals

**Note:** The J7 and J1000 drives may have different terminal sizes (depending on capacity); therefore, the terminals must be carefully checked before replacement. The main terminal functionality has not been changed.

| J7 Main Terminals   | J1000 Main Terminals  | Note  |
|---|---|---|
| R / L 1   | R / L 1   | Power supply connection.<br>Note:<br>In the J7 drive the power supply terminals are located at the top of the drive. In the J1000 the power supply terminals are located at the bottom of the drive. Cables must fit without tension (replace or extend if needed). |
| S / L2  | S / L2  |   |
| T / L 3   | T / L 3   |   |
| U / T1  | U / T1  | Drive Output  |
| V / T2  | V / T2  |   |
| W / T3  | W / T3  |   |
| -   | B1  | Braking resistor or external braking chopper connection.  |
| -   | B2  | Braking resistor connection.  |
| +1  | +1  | DC Link Choke connection, DC Power Supply input.  |
| +2  | +2  |   |
| +1  | +1  | DC Power Supply input, external braking transistor module connection.   |
| —   | —   |   |
|  |  | Grounding Terminal: For 200 V class: 100 Ω or less<br>For 400 V class: 10 Ω or less   |

### ■ 4.2 Control Terminals, Signal Levels

| Terminal |       | Function  | Signal Level  |   |
|----------|-------|---|---|---|
| J7       | J1000 |   | J7  | J1000   |
| S1       |       | Multi-function input 1<br>(1: Run forward, 0: Stop)             | Photo coupler isolation<br>+24 Vdc, 8 mA                    | Photo coupler isolation<br>+24 Vdc, 8 mA                    |
| S2       |       | Multi-function input 2<br>(1: Run reverse, 0: Stop)             |   |   |
| S3       |       | Multi-function input 3<br>(J7: Fault Reset / J1000: Ext. Fault) |   |   |
| S4       |       | Multi-function input 4<br>(J7: Ext. Fault / J1000: Fault Reset) |   |   |
| S5       |       | Multi-function input 5 (Multi speed 1)                          |   |   |
| SC       |       | Multi-function input common.                                    | —   | —   |
| FS       | +V    | Analog input power supply.                                      | +12 Vdc, max. 20 mA   | +10.5 Vdc, max. 20 mA                                       |
| FR       | A1    | Analog input 1<br>(Frequency Reference)                         | 0 ~ +10 Vdc (20 kΩ)<br>0 or 4-20 mA (250 Ω)                 | 0 ~ +10 Vdc (20 kΩ)<br>0 or 4-20 mA (250 Ω)                 |
| FC       | AC    | Analog input common.  | 0 V   |   |
| MA       |       | Change over contact output (NO).<br>(Fault)                     | Maximum Load<br>250 Vac , 10 mA ~ 1A<br>30 Vdc, 10 mA ~ 1 A | Maximum Load<br>250 Vac , 10 mA ~ 1A<br>30 Vdc, 10 mA ~ 1 A |
| MB       |       | Change over contact output (NC).<br>(Fault)                     |   |   |
| MC       |       | Change over contact output common.                              |   |   |
| AM       |       | Analog output.  | 0 ~ +10 Vdc,<br>Maximum 2 mA                                | 0 ~ +10 Vdc,<br>maximum 2 mA                                |
| AC       |       | Analog output GND   | Resolution 8 Bit  | Resolution 8 Bit  |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

### ■ 4.3 DIP Switches









**Note:** When replacing a J7 drive with a J1000 drive, verify that DIP Switches (S1 and S3) are set properly.

| Function                       | J7     |         | J1000  |            |
|--------------------------------|--------|---------|--------|------------|
|                                | Switch | Default | Switch | Default    |
| NPN / PNP Selection            | SW7    | NPN     | S3     | SINK (NPN) |
| Analog input 1 level selection | SW8    | Voltage | S1     | Voltage    |

### ■ 4.4 Main Terminal Size / Electric Wire Differences

**Note:** The J7 drive has main terminals at the top and bottom, while the J1000 drive has all main terminals at the bottom. Ensure that all wires fit without tension.

 = Ground Terminal

| Voltage Class       | Drive  | CIMR-JU□   | Terminal Symbol   | Screw Size | Tightening Torque N.m (lb - in.)   | Wire Size mm <sup>2</sup> (AWG) | Recommended Wire Size mm <sup>2</sup> (AWG) |
|---------------------|--------|--|---|------------|--|---------------------------------|---|
| Three – Phase 200 V | J7     | 20P1<br>20P2<br>20P4<br>20P7   | R / L1, S / L2, T / L3,<br>—, +1, +2,   | M3.5       | 0.8 ~ 1.0<br>(7.1 to 8.9)  | 0.75 ~ 2.0<br>(18 to 14)        | 2<br>(14)                                   |
|                     |        |  | U / T1, V / T2, W / T3  |            | 1.24<br>(11.0)   |                                 |   |
|                     | J1000  | 2A0001<br>2A0002<br>2A0004<br>2A0006   | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, B1, B2,<br> (2 terminals) |            | 0.8 ~ 1.0<br>(7.1 to 8.9)  |                                 |   |
|                     |        |  | J7  | 21P5       | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2<br><br>                       | 0.8 ~ 1.0<br>(7.1 to 8.9)       | 2.0 ~ 5.5<br>(14 to 10)                     |
|                     | J1000  | 2A0010   |   |            | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, B1, B2<br><br> (2 terminals) | M4                              | 1.2 ~ 1.5<br>(10.6 to 13.3)                 |
|                     |        |  | J7  | 22P2       | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2,                              | M3.5                            | 0.8 ~ 1.0<br>(7.1 to 8.9)                   |
|                     | J1000  | 2A0012   |   |            | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, B1, B2,<br> (2 terminals)    | M4                              | 1.2 ~ 1.5<br>(10.6 to 13.3)                 |
|                     |        |  | J7  | 23P7       | R / L1, S / L2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2,                              | M4                              | 1.2 ~ 1.5<br>(10.6 to 13.3)                 |
| J1000               | 2A0020 | R / L1, S / L2, T / L3, U / T1, V / T2, W / T3, —, +1, +2, B1, B2,  (2 terminals) |   |            |  |                                 |   |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

| Voltage Class           | Drive | CIMR-JU□                     | Terminal Symbol  | Screw Size | Tightening Torque<br>N.m<br>(lb - in.)                   | Wire Size<br>mm <sup>2</sup><br>(AWG) | Recommended Wire Size<br>mm <sup>2</sup><br>(AWG) |
|-------------------------|-------|------------------------------|--|------------|--|---------------------------------------|---|
| Single – Phase<br>200 V | J7    | B0P1<br>B0P2<br>B0P4         | R / L1, S / L 2,<br>—, +1, +2, ⊕   | M3.5       | 0.8 ~ 1.0<br>(7.1 to 8.9)                                | 0.75 ~ 2.0<br>(18 to 14)              | 2<br>(14)   |
|                         |       |                              | U / T1, V / T2, W / T3   |            | 1.24 (11.0)  |                                       |   |
|                         | J1000 | BA0001<br>BA0002<br>BA0003   | R / L1, S / L 2,<br>U / T1, V / T2, W /<br>T3,—, +1, +2, B1, B2,<br>⊕ (2 terminals)  |            | 0.8 ~ 1.0<br>(7.1 to 8.9)                                |                                       |   |
|                         |       |                              | J7   | B0P7       | R / L1, S / L 2,<br>U / T1, V / T2, W / T3,<br>—, +1, +2 | M3.5                                  | 0.8 ~ 1.0<br>(7.1 to 8.9)                         |
|                         | ⊕     | 2<br>(14)                    |  |            |  |                                       |   |
|                         | J1000 | BA0006                       | R / L1, S / L 2,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, B1, B2,<br>⊕ (2 terminals) | M4         | 1.2 ~ 1.5<br>(10.6 to 13.3)                              | 2.0 ~ 5.5<br>(14 to 10)               | 2<br>(14)   |
|                         | J7    | B1P5                         | R / L1, S / L 2,<br>U / T1, V / T2, W / T3,<br>—, +1, +2                             | M3.5       | 0.8 ~ 1.0<br>(7.1 to 8.9)                                |                                       | 5.5<br>(10)                                       |
|                         |       |                              | ⊕  |            |  | 2 (14)                                |   |
|                         | J1000 | BA0010                       | R / L1, S / L 2,<br>U / T1, V / T2, W / T3,<br>⊕ (2 terminals)                       | M4         | 1.2 ~ 1.5<br>(10.6 to 13.3)                              | 2.0 ~ 5.5<br>(14 to 10)               | 3.5<br>(12)                                       |
|                         |       |                              | —, +1, +2, B1, B2,<br>⊕ (2 terminals)  |            |  |                                       | 5.5 (10)  |
| Three – Phase<br>400 V  | J7    | 40P2<br>40P4<br>40P7<br>41P5 | R / L1, S / L 2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, ⊕                  | M3.5       | 0.8 ~ 1.0<br>(7.1 to 8.9)                                | 2.0 ~ 5.5<br>(14 to 10)               | 2<br>(14)   |
|                         |       |                              | J1000  |            |  |                                       |   |
|                         | J7    | 42P2                         | R / L1, S / L 2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, ⊕                  | M4         | 1.2 ~ 1.5<br>(10.6 to 13.3)                              | 2.0 ~ 5.5<br>(14 to 10)               | 2<br>(14)   |
|                         |       |                              | J1000  |            |  |                                       |   |
|                         | J7    | 43P0<br>43P7                 | R / L1, S / L 2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2                     | M4         | 1.2 ~ 1.5<br>(10.6 to 13.3)                              | 2.0 ~ 5.5<br>(14 to 10)               | 2<br>(14)   |
|                         |       |                              | ⊕  |            |  |                                       | 3.5 (12)  |
|                         | J1000 | 4A0009<br>4A0011             | R / L1, S / L 2, T / L3,<br>U / T1, V / T2, W / T3,<br>—, +1, +2, B1, B2             | M4         | 1.2 ~ 1.5<br>(10.6 to 13.3)                              | 2.0 ~ 5.5<br>(14 to 10)               | 2<br>(14)   |
|                         |       |                              | ⊕ (2 terminals)  |            |  |                                       | 3.5<br>(12)                                       |



|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

■ 4.5 Control Terminal and Wire Sizes

| Voltage Class | Drive | Terminal Symbol                    | Screw Size | Tightening Torque<br>N.m<br>(lb - in.) | Wire Size<br>mm <sup>2</sup><br>(AWG) | Recommended<br>Wire Size<br>mm <sup>2</sup><br>(AWG) |
|---------------|-------|------------------------------------|------------|--|---------------------------------------|--|
| All           | J7    | S1 - S5, SC, FS, FR,<br>FC, AM, AC | M2         | 0.22 ~ 0.25<br>(1.9 to 2.2)            | Flexible: 0.5 ~ 0.75<br>(20 to 18)    | 0.75<br>(18)   |
|               | J1000 | S1 - S5, SC, V+, A1,<br>AC, AM, AC |            |  | Solid: 0.5 ~ 1.25<br>(20 to 18)       |  |
|               | J7    | MA, MB, MC                         | M3         | 0.5 ~ 0.6<br>(4.4 to 5.3)              | Flexible: 0.5 ~ 0.75<br>(20 to 18)    | 0.75<br>(18)   |
|               | J1000 |                                    |            |  | Solid: 0.5 ~ 1.25<br>(20 to 18)       |  |
|               |       |                                    |            |  | Flexible: 0.25 ~ 1.0<br>(24 to 18)    |  |
|               |       |                                    |            |  | Solid: 0.25 ~ 1.5<br>(24 to 16)       |  |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

## ■ 5.0 Dimensions

**Note:** The tables below show dimension differences between the J7 and the J1000 (in mm and in) and the required parts for the drive replacement (J7 dimensions are without potentiometer knob).

| Voltage Class            | J7<br>CIMR-<br>J7xM□ | J7        |           |           | J1000<br>CIMR-<br>JU□ | J1000     |           |           |
|--------------------------|----------------------|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|
|                          |                      | W<br>(mm) | H<br>(mm) | D<br>(mm) |                       | W<br>(mm) | H<br>(mm) | D<br>(mm) |
| Single<br>Phase<br>200 V | B0P10                | 68        | 128       | 70        | BA0001B               | 68        | 128       | 76        |
|                          | B0P20                |           |           | BA0002B   | 118                   |           |           |           |
|                          | B0P40                |           |           | B10003B   | 137.5                 |           |           |           |
|                          | B0P70                | BA0006B   |           | 154       |                       |           |           |           |
|                          | B1P50                | BA0010B   |           | 108       | 154                   |           |           |           |
| Three Phase<br>200 V     | 20P10                | 68        | 128       | 70        | 2A0001B               | 68        | 128       | 76        |
|                          | 20P20                |           |           | 2A0002B   | 108                   |           |           |           |
|                          | 20P40                |           |           | 2A0004B   | 128                   |           |           |           |
|                          | 20P70                | 2A0006B   |           | 129       |                       |           |           |           |
|                          | 21P50                | 2A0010B   |           | 108       | 129                   |           |           |           |
|                          | 21P20                | 2A0012B   |           | 108       | 137.5                 |           |           |           |
|                          | 23P70                | 2A0020B   |           | 140       | 143                   |           |           |           |
| Three Phase<br>400 V     | 40P20                | 108       | 128       | 81        | 4A0001B               | 108       | 128       | 81        |
|                          | 40P40                |           |           | 4A0002B   | 99                    |           |           |           |
|                          | 40P70                |           |           | 4A0004B   | 137.5                 |           |           |           |
|                          | 41P50                | 4A0005B   |           | 154       |                       |           |           |           |
|                          | 42P20                | 4A0007B   |           | 154       |                       |           |           |           |
|                          | 43P70                | 4A0011B   |           | 140       | 143                   |           |           |           |

| Voltage Class            | J7<br>CIMR-<br>J7xM□ | J7        |           |           | J1000<br>CIMR-<br>JU□ | J1000     |           |           |
|--------------------------|----------------------|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|
|                          |                      | W<br>(in) | H<br>(in) | D<br>(in) |                       | W<br>(in) | H<br>(in) | D<br>(in) |
| Single<br>Phase<br>200 V | B0P10                | 2.68      | 5.04      | 2.76      | BA0001B               | 2.68      | 5.04      | 2.99      |
|                          | B0P20                |           |           | BA0002B   | 4.65                  |           |           |           |
|                          | B0P40                |           |           | B10003B   | 5.41                  |           |           |           |
|                          | B0P70                | BA0006B   |           | 6.06      |                       |           |           |           |
|                          | B1P50                | BA0010B   |           | 4.25      | 6.06                  |           |           |           |
| Three Phase<br>200 V     | 20P10                | 2.68      | 5.04      | 2.76      | 2A0001B               | 2.68      | 5.04      | 2.99      |
|                          | 20P20                |           |           | 2A0002B   | 4.25                  |           |           |           |
|                          | 20P40                |           |           | 2A0004B   | 5.04                  |           |           |           |
|                          | 20P70                | 2A0006B   |           | 5.08      |                       |           |           |           |
|                          | 21P50                | 2A0010B   |           | 4.25      | 5.08                  |           |           |           |
|                          | 21P20                | 2A0012B   |           | 4.25      | 5.41                  |           |           |           |
|                          | 23P70                | 2A0020B   |           | 5.51      | 5.63                  |           |           |           |
| Three Phase<br>400 V     | 40P20                | 4.25      | 5.04      | 3.19      | 4A0001B               | 4.25      | 5.04      | 3.19      |
|                          | 40P40                |           |           | 4A0002B   | 3.90                  |           |           |           |
|                          | 40P70                |           |           | 4A0004B   | 5.41                  |           |           |           |
|                          | 41P50                | 4A0005B   |           | 6.06      |                       |           |           |           |
|                          | 42P20                | 4A0007B   |           | 6.06      |                       |           |           |           |
|                          | 43P70                | 4A0011B   |           | 5.51      | 5.63                  |           |           |           |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

## ■ 6.0 Option Replacements

The table below indicates potential option replacements.

**Note: J7 options are not compatible with the J1000 drive.**

| Type                         | Description  | J7   | J1000  |
|------------------------------|--|--|--|
| <b>Serial Communications</b> | Interface for Remote Operator  | SI-232 / J7  | SI-232 / J   |
|                              | Interface for RS-232 PC communication (MEMOBUS / Modbus)                                   | SI-232 / J7C   | SI-232 / JC  |
|                              | Interface for RS-422 / 485 communication (MEMOBUS / Modbus)                                | SI-485 / J7  | SI-485 / J   |
| <b>Operator Panel</b>        | Remote operator without potentiometer  | JVOP-146   | JVOP-182   |
|                              | Remote operator with potentiometer   | JVOP-144   | Not Available  |
|                              | Extension Cable 1 meter  | UWR0051  | UWR0051  |
|                              | Extension Cable 3 meter  | UWR0052  | UWR0052  |
| <b>Potentiometer Option</b>  | To use a potentiometer on the drive for settings up the frequency reference.               | Built-in   | AI-V3 / J  |
| <b>DIN Rail Mounting</b>     | Used to mount the drive on a DIN Rail.   | EZZ08122x  | EZZ08122x  |
| <b>AC Reactor</b>            | 3% or 5% AC Line Reactor   | 05P00620-xxxx  | 05P00620-xxxx  |
| <b>DC Link Choke</b>         | 3% DC Link Choke   | 05P00620-xxxx  | 05P00620-xxxx  |
| <b>Copy Unit</b>             | Copy unit or keypads used to upload / download drive parameters from one drive to another. | JVOP-140 or<br>JVOP-142<br>and<br>• SI-232 / J7 or / J7C<br>and<br>• UWR0051 (1 m )<br>or<br>• UWR0052 (3 m) | JVOP-182<br>(LED operator)<br>or JVOP-181<br>(USB Copy Unit)<br>and<br>• SI-232 / J or / J7C<br>and<br>• Same cables as J7 |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

## 7.0 Parameter Settings

### 7.1 Parameter Correspondence for Drive Replacement

Note:

1. Before setting up other parameters, verify that C6-01 is set to “0” (HD). Refer to the Technical Manual for details on the Normal and Heavy Duty selection.
2. Voltage values are valid for a 200 V drive. Voltage values double for the 400 V drive.

| Function / Parameter                 | J7  |  | J1000         |               | Comments                          |                                       |                        |
|--------------------------------------|---|--|---------------|---------------|-----------------------------------|---------------------------------------|------------------------|
|                                      | Parameter No.   | Initial Value                            | Parameter No. | Initial Value |                                   |                                       |                        |
| Parameter Access Level               | n01   | 1  | A1-01         | 2             | <b>J7</b>                         | <b>J1000</b>                          |                        |
| Initialization                       |   |  | A1-03         | 0             | n01 → 0                           | A1-01 → 0                             |                        |
| RUN command in Programming Mode      |   |  | b1-08         | 0             | n01 → 1                           | A1-01 → 2                             |                        |
| Fault History U2 Initialization      |   |  | o4-11         | 0             |                                   | n01 → 5                               | A1-01 → 2<br>b1-08 → 1 |
|                                      |   |  |               |               |                                   | n01 → 6                               | o4-11 → 1              |
|                                      |   |  |               | n01 → 10      | A1-03 → 2220                      |                                       |                        |
|                                      |   |  |               | n01 → 11      | A1-03 → 3330                      |                                       |                        |
| RUN Command Source Selection         | n02   | 1  | b1-02         | 1             | <b>J7</b>                         | <b>J1000</b>                          |                        |
|                                      |   |  |               |               | n02 → 0                           | b1-02 → 0                             |                        |
|                                      |   |  |               |               | n02 → 1                           | b1-02 → 1                             |                        |
|                                      |   |  |               |               | n02 → 2                           | b1-02 → 2                             |                        |
| Frequency Reference Source Selection | n03   | 2  | b1-01         | 1             | <b>J7</b>                         | <b>J1000</b>                          |                        |
|                                      |   |  |               |               | n03 → 0                           | b1-01 → 0 (A1-V3 / J option required) |                        |
|                                      |   |  |               |               | n03 → 1                           | b1-01 → 0                             |                        |
|                                      |   |  |               |               | n03 → 2                           | b1-01 → 1 & H3-01 → 0                 |                        |
|                                      |   |  |               |               | n03 → 3                           | b1-01 → 1 & H3-01 → 2                 |                        |
|                                      |   |  |               |               | n03 → 4                           | b1-01 → 1 & H3-01 → 3                 |                        |
|                                      | n03 → 6   | b1-01 → 2 (SI – 485 / J option required) |               |               |                                   |                                       |                        |
|                                      | When using A1 as frequency reference input, make sure to set DIP switch S1 properly (voltage or current input). |  |               |               |                                   |                                       |                        |
| Stop Method Selection                | n04   | 0  | b1-03         | 0             | <b>J7</b>                         | <b>J1000</b>                          |                        |
|                                      |   |  |               |               | n04 → 0                           | b1-03 → 0                             |                        |
|                                      |   |  |               |               | n04 → 1                           | b1-03 → 1                             |                        |
| Reverse Run Prohibit Selection       | n05   | 0  | b1-04         | 0             | <b>J7</b>                         | <b>J1000</b>                          |                        |
|                                      |   |  |               |               | n05 → 0                           | b1-04 → 0                             |                        |
|                                      |   |  |               |               | n05 → 1                           | b1-04 → 1                             |                        |
| Digital Operator STOP Key Function   | n06   | 0  | o2-02         | 1             | <b>J7</b>                         | <b>J1000</b>                          |                        |
|                                      |   |  |               |               | n06 → 0                           | o2-02 → 1                             |                        |
|                                      |   |  |               |               | n06 → 1                           | o2-02 → 0                             |                        |
| Frequency Reference in Local Mode    | n07   | 0  | —             | —             | (No operator panel potentiometer) |                                       |                        |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

| Function / Parameter                                  | J7            |               | J1000         |               | Comments   |              |
|---|---------------|---------------|---------------|---------------|--|--------------|
|   | Parameter No. | Initial Value | Parameter No. | Initial Value |  |              |
| Frequency Reference from Operator ENTER Key Selection | n08           | 0             | o2-05         | 0             | <b>J7</b>  | <b>J1000</b> |
|   |               |               |               |               | n08 → 0  | o2-05 → 0    |
|   |               |               |               |               | n08 → 1  | o2-05 → 1    |
| Maximum Output Frequency                              | n09           | 60.0 Hz       | E1-04         | 60.0 Hz       | —  |              |
| Maximum Output Voltage                                | n10           | 200.0V*       | E1-05         | 200 V*        | * Values for a 400 V class drive are double.   |              |
| Base Frequency  | n11           | 60.0 Hz       | E1-06         | 60.0 Hz       | —  |              |
| Middle Output Frequency                               | n12           | 1.5 Hz        | E1-07         | 3.0 Hz        | —  |              |
| Middle Output Voltage                                 | n13           | 12.0 V*       | E1-08         | 16.0 V*       | * Values for a 400 V class drive are double.   |              |
| Minimum Output Frequency                              | n14           | 1.5 Hz        | E1-09         | 1.5 Hz        | —  |              |
| Minimum Output Voltage                                | n15           | 12.0 V*       | E1-10         | 12.0 V*       | * Values for a 400 V class drive are double.   |              |
| Acceleration Time 1                                   | n16           | 10.0 s        | C1-01         | 10.0 s        | —  |              |
| Deceleration Time 1                                   | n17           | 10.0 s        | C1-02         | 10.0 s        | —  |              |
| Acceleration Time 2                                   | n18           | 10.0 s        | C1-03         | 10.0 s        | —  |              |
| Deceleration Time 2                                   | n19           | 10.0 s        | C1-04         | 10.0 s        | —  |              |
| S –Curve at Acceleration Start                        | n20           | 0 (0 s)       | C2-01         | 0.2 s         | J7:<br>Selection parameter (setting 0, 1, 2 and 3). Same setting for all conditions.<br><br>J1000:<br>Numerical parameter (time must be set in seconds). The S-Curve is set separately for each accel / decel profile selection. |              |
| S-Curve at Acceleration End                           |               |               | C2-02         |               |  |              |
| S-Curve at Deceleration Start                         |               |               | C2-03         |               |  |              |
| S-Curve at Deceleration End                           |               |               | C2-04         | 0.0 s         |  |              |
| Multiple Speed Ref. 1                                 | n21           | 6.00 Hz       | d1-01         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 2                                 | n22           | 0.00 Hz       | d1-02         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 3                                 | n23           | 0.00 Hz       | d1-03         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 4                                 | n24           | 0.00 Hz       | d1-04         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 5                                 | n25           | 0.00 Hz       | d1-05         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 6                                 | n26           | 0.00 Hz       | d1-06         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 7                                 | n27           | 0.00 Hz       | d1-07         | 0.00 Hz       | —  |              |
| Multiple Speed Ref. 8                                 | n28           | 0.00 Hz       | d1-08         | 0.00 Hz       | —  |              |
| Jog Frequency   | n29           | 6.00 Hz       | d1-17         | 6.00 Hz       | —  |              |
| Frequency Reference Upper Limit                       | n30           | 100%          | d2-01         | 100%          | —  |              |
| Frequency Reference Lower Limit                       | n31           | 0%            | d2-02         | 0.0%          | —  |              |
| Motor Rated Current                                   | n32           | —             | E2-01         | —             | Depends on the drive capacity.   |              |
| Motor Overheat Protection                             | n33           | 0             | L1-01         | 1             | <b>J7</b>  | <b>J1000</b> |
|   |               |               |               |               | n33 → 0  | L1-01 → 1    |
|   |               |               |               |               | n33 → 1  | L1-01 → 2    |
|   |               |               |               |               | n33 → 2  | L1-01 → 0    |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

| Function / Parameter                  | J7   |               | J1000         |               | Comments   |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
|---------------------------------------|--|---------------|---------------|---------------|--|--------------------------|--|--------------------------|-----------------|--------------------------|--|--------------------------|-----------------|--------------------------|---|--------------------------|-----------------|--------------------------|--|--------------------------|-----------------|---------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|-----------------|
|                                       | Parameter No.  | Initial Value | Parameter No. | Initial Value |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Motor Protection Time Constant        | n34  | 8 min         | L1-02         | 1 min         | Set L1-02 = n34 / 8.   |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Drive Cooling Fan Operation Selection | n35  | 0             | L8-10         | 0             | <table border="1"> <thead> <tr> <th>J7</th> <th>J1000</th> </tr> </thead> <tbody> <tr> <td>n35 → 0</td> <td>L8-10 → 0</td> </tr> <tr> <td>n35 → 1</td> <td>L8-10 → 1</td> </tr> </tbody> </table>  | J7                       | J1000                                      | n35 → 0                  | L8-10 → 0       | n35 → 1                  | L8-10 → 1  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| J7                                    | J1000  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n35 → 0                               | L8-10 → 0  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n35 → 1                               | L8-10 → 1  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Terminal S1 Function Selection        | —  | —             | H1-01         | 40            | The function of S1 is fixed to Fwd Run in the J7. The equivalent setting in the J1000 is H1-01 = 40 (default).   |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Terminal S2 Function Selection        | n36  | 2             | H1-02         | 41            | <table border="1"> <thead> <tr> <th>J7</th> <th>J1000</th> </tr> </thead> <tbody> <tr> <td>n36 ~ 39 → 2</td> <td>H1-02 ~ 05 → 41</td> </tr> </tbody> </table>  | J7                       | J1000                                      | n36 ~ 39 → 2             | H1-02 ~ 05 → 41 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| J7                                    | J1000  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 2                          | H1-02 ~ 05 → 41  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Terminal S3 Function Selection        | n37  | 5             | H1-03         | 24            | <table border="1"> <tbody> <tr><td>n36 ~ 39 → 3</td><td>H1-02 ~ 05 → 24</td></tr> <tr><td>n36 ~ 39 → 4</td><td>H1-02 ~ 05 → 25</td></tr> <tr><td>n36 ~ 39 → 5</td><td>H1-02 ~ 05 → 14</td></tr> <tr><td>n36 ~ 39 → 6</td><td>H1-02 ~ 05 → 3</td></tr> <tr><td>n36 ~ 39 → 7</td><td>H1-02 ~ 05 → 4</td></tr> <tr><td>n36 ~ 39 → 8</td><td>H1-02 ~ 05 → 5</td></tr> <tr><td>n36 ~ 39 → 10</td><td>H1-02 ~ 05 → 6</td></tr> <tr><td>n36 ~ 39 → 11</td><td>H1-02 ~ 05 → 7</td></tr> <tr><td>n36 ~ 39 → 12</td><td>H1-02 ~ 05 → 8</td></tr> <tr><td>n36 ~ 39 → 13</td><td>H1-02 ~ 05 → 9</td></tr> <tr><td>n36 ~ 39 → 14</td><td>H1-02 ~ 05 → 61</td></tr> <tr><td>n36 ~ 39 → 15</td><td>H1-02 ~ 05 → 62</td></tr> <tr><td>n36 ~ 39 → 16</td><td>H1-02 ~ 05 → A</td></tr> <tr><td>n36 ~ 39 → 17</td><td>H1-02 ~ 05 → 1</td></tr> <tr><td>n36 ~ 39 → 18</td><td>H1-02 ~ 05 → 2</td></tr> <tr><td>n36 ~ 39 → 19</td><td>H1-02 ~ 05 → 28</td></tr> </tbody> </table> | n36 ~ 39 → 3             | H1-02 ~ 05 → 24                            | n36 ~ 39 → 4             | H1-02 ~ 05 → 25 | n36 ~ 39 → 5             | H1-02 ~ 05 → 14  | n36 ~ 39 → 6             | H1-02 ~ 05 → 3  | n36 ~ 39 → 7             | H1-02 ~ 05 → 4                                | n36 ~ 39 → 8             | H1-02 ~ 05 → 5  | n36 ~ 39 → 10            | H1-02 ~ 05 → 6   | n36 ~ 39 → 11            | H1-02 ~ 05 → 7  | n36 ~ 39 → 12 | H1-02 ~ 05 → 8 | n36 ~ 39 → 13 | H1-02 ~ 05 → 9 | n36 ~ 39 → 14 | H1-02 ~ 05 → 61 | n36 ~ 39 → 15 | H1-02 ~ 05 → 62 | n36 ~ 39 → 16 | H1-02 ~ 05 → A | n36 ~ 39 → 17 | H1-02 ~ 05 → 1 | n36 ~ 39 → 18 | H1-02 ~ 05 → 2 | n36 ~ 39 → 19 | H1-02 ~ 05 → 28 |
| n36 ~ 39 → 3                          | H1-02 ~ 05 → 24  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 4                          | H1-02 ~ 05 → 25  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 5                          | H1-02 ~ 05 → 14  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 6                          | H1-02 ~ 05 → 3   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 7                          | H1-02 ~ 05 → 4   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 8                          | H1-02 ~ 05 → 5   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 10                         | H1-02 ~ 05 → 6   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 11                         | H1-02 ~ 05 → 7   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 12                         | H1-02 ~ 05 → 8   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 13                         | H1-02 ~ 05 → 9   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 14                         | H1-02 ~ 05 → 61  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 15                         | H1-02 ~ 05 → 62  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 16                         | H1-02 ~ 05 → A   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 17                         | H1-02 ~ 05 → 1   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 18                         | H1-02 ~ 05 → 2   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 19                         | H1-02 ~ 05 → 28  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| Terminal S4 Function Selection        | n38  | 3             | H1-04         | 14            | <table border="1"> <tbody> <tr> <td>n36 ~ 39 → 19<br/>n04 → 0</td> <td>H1-02 ~ 05 → 28<br/>Set the stop time C1-09</td> </tr> <tr> <td>n36 ~ 39 → 19<br/>n04 → 1</td> <td>H1-02 ~ 05 → 24</td> </tr> <tr> <td>n36 ~ 39 → 20<br/>n04 → 0</td> <td>H1-02 ~ 05 → 15<br/>Set stop time C1-09,<br/>no alarm message.</td> </tr> <tr> <td>n36 ~ 39 → 20<br/>n04 → 1</td> <td>Can not be set.</td> </tr> <tr> <td>n36 ~ 39 → 21<br/>n04 → 0</td> <td>H1-02 ~ 05 → 29<br/>Set the stop time<br/>C1-09</td> </tr> <tr> <td>n36 ~ 39 → 21<br/>n04 → 1</td> <td>H1-02 ~ 05 → 25</td> </tr> <tr> <td>n36 ~ 39 → 22<br/>n04 → 0</td> <td>H1-02 ~ 05 → 17<br/>Set stop time C1-09,<br/>no alarm message.</td> </tr> <tr> <td>n36 ~ 39 → 22<br/>n04 → 1</td> <td>Can not be set.</td> </tr> </tbody> </table>   | n36 ~ 39 → 19<br>n04 → 0 | H1-02 ~ 05 → 28<br>Set the stop time C1-09 | n36 ~ 39 → 19<br>n04 → 1 | H1-02 ~ 05 → 24 | n36 ~ 39 → 20<br>n04 → 0 | H1-02 ~ 05 → 15<br>Set stop time C1-09,<br>no alarm message. | n36 ~ 39 → 20<br>n04 → 1 | Can not be set. | n36 ~ 39 → 21<br>n04 → 0 | H1-02 ~ 05 → 29<br>Set the stop time<br>C1-09 | n36 ~ 39 → 21<br>n04 → 1 | H1-02 ~ 05 → 25 | n36 ~ 39 → 22<br>n04 → 0 | H1-02 ~ 05 → 17<br>Set stop time C1-09,<br>no alarm message. | n36 ~ 39 → 22<br>n04 → 1 | Can not be set. |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 19<br>n04 → 0              | H1-02 ~ 05 → 28<br>Set the stop time C1-09                   |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 19<br>n04 → 1              | H1-02 ~ 05 → 24  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 20<br>n04 → 0              | H1-02 ~ 05 → 15<br>Set stop time C1-09,<br>no alarm message. |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 20<br>n04 → 1              | Can not be set.  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 21<br>n04 → 0              | H1-02 ~ 05 → 29<br>Set the stop time<br>C1-09                |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 21<br>n04 → 1              | H1-02 ~ 05 → 25  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 22<br>n04 → 0              | H1-02 ~ 05 → 17<br>Set stop time C1-09,<br>no alarm message. |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |
| n36 ~ 39 → 22<br>n04 → 1              | Can not be set.  |               |               |               |  |                          |  |                          |                 |                          |  |                          |                 |                          |   |                          |                 |                          |  |                          |                 |               |                |               |                |               |                 |               |                 |               |                |               |                |               |                |               |                 |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

| Function / Parameter                   | J7            |               | J1000         |               | Comments             |  |
|--|---------------|---------------|---------------|---------------|----------------------|--|
|  | Parameter No. | Initial Value | Parameter No. | Initial Value | J7                   | J1000  |
| Terminal S5 Function Selection         | n39           | 6             | H1-05         | 3             | n37 → 0              | H1-03 → 0  |
|  |               |               |               |               | n39 → 34             | H1-04 → 10<br>H1-05 → 11<br>(b1-01 must be set to 0 or 1 and b1-02 must be set to 1) |
|  |               |               |               |               | n39 → 35             | H1-05 → 67   |
| Terminal MA, MB, MC Function Selection | n40           | 1             | H2-01         | E             | n40 → 0              | H2-01 → E  |
|  |               |               |               |               | n40 → 1              | H2-01 → 0  |
|  |               |               |               |               | n40 → 2              | H2-01 → 2  |
|  |               |               |               |               | n40 → 3              | H2-01 → 1  |
|  |               |               |               |               | n40 → 4              | H2-01 → 5  |
|  |               |               |               |               | n40 → 5              | H2-01 → 4  |
|  |               |               |               |               | n40 → 6              | H2-01 → B  |
|  |               |               |               |               | n40 → 7              | H2-01 → 17   |
|  |               |               |               |               | n40 → 10             | H2-01 → 10   |
|  |               |               |               |               | n40 → 11             | H2-01 → 8  |
|  |               |               |               |               | n40 → 12             | H2-01 → 3C   |
|  |               |               |               |               | n40 → 13             | H2-01 → 6  |
|  |               |               |               |               | n40 → 14             | H2-01 → 1E   |
|  |               |               |               |               | n40 → 15             | H2-01 → 7  |
|  |               |               |               |               | n40 → 16             | H2-01 → 1A   |
|  |               |               |               |               | n40 → 17             | H2-01 → 3D   |
|  |               |               |               |               | n40 → 18             | F (Through Mode)   |
| Analog Input FR (A1) Gain              | n41           | 100%          | H3-03         | 100%          | —                    |  |
| Analog Input FR (A2) Bias              | n42           | 0%            | H3-04         | 0%            | —                    |  |
| Analog Input Filter Time Constant      | n43           | 0.10 s        | H3-13         | 0.03 s        | —                    |  |
| Analog Output AM Function Selection    | n44           | 0             | H4-01         | 102           | n44 → 0              | H4-01 → 102  |
|  |               |               |               |               | n44 → 1              | H4-01 → 103  |
| Analog Output AM Gain                  | n45           | 1.00          | H4-02         | 100.0%        | Set H4-02 = n45* 100 |  |

Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

| Function / Parameter                     | J7                                       |                                 | J1000             |               | Comments  |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
|--|--|---------------------------------|-------------------|---------------|---|----|-------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|--|---------|--|---------|--|
|  | Parameter No.                            | Initial Value                   | Parameter No.     | Initial Value |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Carrier Frequency Selection              | n46                                      | 4<br>Depends on drive capacity. | C6-02             | 02-04 dep.    | <table border="1"> <thead> <tr> <th>J7</th> <th>J1000</th> </tr> </thead> <tbody> <tr> <td>n46 → 1</td> <td>C6-02 → 1 (2 kHz)</td> </tr> <tr> <td>n46 → 2</td> <td>C6-02 → 2 (5 kHz)</td> </tr> <tr> <td>n46 → 3</td> <td>C6-02 → 3 (8 kHz)</td> </tr> <tr> <td>n46 → 4</td> <td>C6-02 → 4(10 kHz)</td> </tr> <tr> <td>n46 → 7</td> <td>C6-03 = 2.5<br/>C6-04 = 1.0<br/>C6-05 = 12</td> </tr> <tr> <td>n46 → 8</td> <td>C6-03 = 2.5<br/>C6-04 = 1.0<br/>C6-05 = 24</td> </tr> <tr> <td>n46 → 9</td> <td>C6-03 = 2.5<br/>C6-04 = 1.0<br/>C6-05 = 36</td> </tr> </tbody> </table> | J7 | J1000 | n46 → 1 | C6-02 → 1 (2 kHz) | n46 → 2 | C6-02 → 2 (5 kHz) | n46 → 3 | C6-02 → 3 (8 kHz) | n46 → 4 | C6-02 → 4(10 kHz) | n46 → 7 | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 12 | n46 → 8 | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 24 | n46 → 9 | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 36 |
| J7                                       |  |                                 | J1000             |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 1                                  |  |                                 | C6-02 → 1 (2 kHz) |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 2                                  |  |                                 | C6-02 → 2 (5 kHz) |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 3                                  |  |                                 | C6-02 → 3 (8 kHz) |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 4                                  | C6-02 → 4(10 kHz)                        |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 7                                  | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 12 |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 8                                  | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 24 |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n46 → 9                                  | C6-03 = 2.5<br>C6-04 = 1.0<br>C6-05 = 36 |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Carrier Frequency Upper Limit            | C6-03                                    | C6-02 dep.                      |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Carrier Frequency Lower Limit            | C6-04                                    | C6-02 dep.                      |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Carrier Frequency Proportional Gain      | C6-05                                    | 0                               |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Momentary Power Loss Detection Selection | n47                                      | 0                               | L2-01             | 0             | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Automatic Fault Reset Attempts           | n48                                      | 0                               | L5-01             | 0             | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Jump Frequency 1                         | n49                                      | 0.0 Hz                          | d3-01             | 0.0 Hz        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Jump Frequency 2                         | n50                                      | 0.0 Hz                          | d3-02             | 0.0 Hz        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Jump Frequency Bandwidth                 | n51                                      | 0.0 Hz                          | d3-04             | 1.0 Hz        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| DC Injection Braking Current             | n52                                      | 50%                             | b2-02             | 50%           | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| DC Injection Time at Stop                | n53                                      | 0.0 s                           | b2-04             | 0.50 s        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| DC Injection Time at Start               | n54                                      | 0.0 s                           | b2-03             | 0.00 s        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Stall Prevention During Deceleration     | n55                                      | 0                               | L3-04             | 1             | <table border="1"> <thead> <tr> <th>J7</th> <th>J1000</th> </tr> </thead> <tbody> <tr> <td>n55 → 0</td> <td>L3-04 → 1</td> </tr> <tr> <td>n55 → 1</td> <td>L3-04 → 0</td> </tr> </tbody> </table>   | J7 | J1000 | n55 → 0 | L3-04 → 1         | n55 → 1 | L3-04 → 0         |         |                   |         |                   |         |  |         |  |         |  |
| J7                                       | J1000                                    |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n55 → 0                                  | L3-04 → 1                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n55 → 1                                  | L3-04 → 0                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Stall Prevention During Acceleration     | n56                                      | 170%                            | L3-02             | —             | Initial value of J1000 depends on Duty Mode Selection (C6-01).  |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Stall Prevention Level During Run        | n57                                      | 160%                            | L3-06             | —             | Initial value of J1000 depends on Duty Mode Selection (C6-01).  |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Output Frequency Detection Level (DO)    | n58                                      | 0.00 Hz                         | L4-01             | 0.0 Hz        | —   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| Over Torque Detection                    | n59                                      | 0                               | L6-01             | 0             | <table border="1"> <thead> <tr> <th>J7</th> <th>J1000</th> </tr> </thead> <tbody> <tr> <td>n59 → 0</td> <td>L6-01 → 0</td> </tr> <tr> <td>n59 → 1</td> <td>L6-01 → 1</td> </tr> <tr> <td>n59 → 2</td> <td>L6-01 → 2</td> </tr> <tr> <td>n59 → 3</td> <td>L6-01 → 3</td> </tr> <tr> <td>n59 → 4</td> <td>L6-01 → 4</td> </tr> </tbody> </table>  | J7 | J1000 | n59 → 0 | L6-01 → 0         | n59 → 1 | L6-01 → 1         | n59 → 2 | L6-01 → 2         | n59 → 3 | L6-01 → 3         | n59 → 4 | L6-01 → 4                                |         |  |         |  |
| J7                                       | J1000                                    |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n59 → 0                                  | L6-01 → 0                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n59 → 1                                  | L6-01 → 1                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n59 → 2                                  | L6-01 → 2                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n59 → 3                                  | L6-01 → 3                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |
| n59 → 4                                  | L6-01 → 4                                |                                 |                   |               |   |    |       |         |                   |         |                   |         |                   |         |                   |         |  |         |  |         |  |



Subject: Transition Guide

Product: J1000

Document: PL.J1000.01

Title: Product Transition Guide – J7 to J1000

| Function / Parameter                                    | J7            |               | J1000          |               | Comments   |                         |       |
|---|---------------|---------------|----------------|---------------|--|-------------------------|-------|
|   | Parameter No. | Initial Value | Parameter No.  | Initial Value |  |                         |       |
| Over Torque Detection Level                             | n60           | 160%          | L6-02          | 150%          | —  |                         |       |
| Over Torque Detection Time                              | n61           | 0.1 s         | L6-03          | 0.1 s         | —  |                         |       |
| Frequency Reference Hole Selection (Up / Down Function) | n62           | 0             | d4-01          | 0             | <b>J7</b>  | <b>J1000</b>            |       |
|   |               |               |                |               | n62 → 0  | d4-01 → 0               |       |
|   |               |               |                |               | n62 → 1  | d4-01 → 1               |       |
| Torque Compensation Gain                                | n63           | 1.0           | C4-01          | 1.00          | —  |                         |       |
| Motor Rated Slip  | n64           | —             | E2-02          | —             | Default value depends on the drive capacity.                             |                         |       |
| Motor No-Load Current                                   | n65           | —             | E2-03          | —             | Default value depends on the drive capacity. Set E2-03 = n32* n65 / 100% |                         |       |
| Slip Compensation Gain                                  | n66           | 0.0           | C3-01          | 0.0           | —  |                         |       |
| Slip Compensation Time Constant                         | n67           | 2.0 s         | C3-02          | 2000 ms       | J7: Setting unit is 1.0 s<br>J1000: Setting unit is 1 ms                 |                         |       |
| MEMOBUS / Modbus Communication Error Behavior Selection | n68           | 0             | H5-04<br>H5-05 | 3             | —  |                         |       |
| MEMOBUS / Modbus Communication Error Detection          | —             | —             | H5-05          | 1             | <b>J7</b>  | <b>J1000</b>            |       |
|   |               |               |                |               |  | H5-04                   | H5-05 |
|   |               |               |                |               | n68 → 0  | 1                       | 1     |
|   |               |               |                |               | n68 → 1  | 0 (C1-02)               |       |
|   |               |               |                |               | n68 → 2  | 2 (C1-09)               |       |
|   |               |               |                |               | n68 → 3  | 3                       |       |
| n68 → 4   | No effect     | 0             |                |               |  |                         |       |
| MEMOBUS / Modbus Frequency Reference and Monitor Units  | n69           | 0             | H5-13          | 0             | <b>J7</b>  | <b>J1000</b>            |       |
|   |               |               |                |               | n69 → 0  | H5-13 → 0               |       |
|   |               |               |                |               | n69 → 1  | H5-13 → 1 and o1-03 → 0 |       |
|   |               |               |                |               | n69 → 2  | H5-13 → 2               |       |
|   |               |               |                |               | n69 → 3  | H5-13 → 3               |       |
| MEMOBUS / Modbus Slave Address                          | n70           | 0             | H5-01          | 1F            | J7: Set as decimal value.<br>J1000: Set as hexadecimal value.            |                         |       |
| MEMOBUS / Modbus Communication Speed Selection          | n71           | 2             | H5-02          | 3             | <b>J7</b>  | <b>J1000</b>            |       |
|   |               |               |                |               | n71 → 0  | H5-02 → 1               |       |
|   |               |               |                |               | n71 → 1  | H5-02 → 2               |       |
|   |               |               |                |               | n71 → 2  | H5-02 → 3               |       |
| n71 → 3   | H5-02 → 4     |               |                |               |  |                         |       |
| MEMOBUS / Modbus Parity Selection                       | n72           | 0             | H5-03          | 0             | <b>J7</b>  | <b>J1000</b>            |       |
|   |               |               |                |               | n72 → 0  | H5-03 → 1               |       |
|   |               |               |                |               | n72 → 1  | H5-03 → 2               |       |
| n72 → 2   | H5-03 → 0     |               |                |               |  |                         |       |
| Transmission Wait Time                                  | n73           | 10 ms         | H5-06          | 10 ms         | —  |                         |       |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

| Function / Parameter                  | J7            |               | J1000         |                           | Comments  |              |
|---------------------------------------|---------------|---------------|---------------|---------------------------|---|--------------|
|                                       | Parameter No. | Initial Value | Parameter No. | Initial Value             |   |              |
| RTS Flow Control On / Off             | n74           | 0             | H5-07         | 1                         | <b>J7</b>   | <b>J1000</b> |
|                                       |               |               |               |                           | n74 → 0   | H5-07 → 1    |
|                                       |               |               |               |                           | n74 → 1   | H5-07 → 0    |
| Low Speed Carrier Frequency Reduction | n75           | 0             | L8-38         | Depends on drive capacity | <b>J7</b>   | <b>J1000</b> |
|                                       |               |               |               |                           | n75 → 0   | L8-38 → 0    |
|                                       |               |               |               |                           | n75 → 1   | L8-38 → 1    |
| COPY Function Selection               | n76           | Ready         | o3-01         | 0                         | Possible with copy unit or remote operator.   |              |
| READ Prohibit Selection               | n77           | 0             | o3-02         | 0                         |   |              |
| Fault History                         | n78           | —             | U2-01 / 02    | —                         | In the J1000, the last current fault and the last fault can be seen in parameter U2-01 and U2-02. |              |
| Software Version                      | n79           | —             | U1-25 / 26    | —                         | —   |              |

## 7.2 Parameter Differences

- Maximum Carrier Frequency -
  - J7: n46, maximum 10 kHz.
  - J1000: C6-02, maximum 15 kHz.
- S-Curve Setting -
  - J7: Fixed settings.
  - J1000: Set in seconds.
- Stall Prevention Level -
 

The stall prevention level during acceleration and constant speed run depends on the duty mode setting.

  - J7: The maximum setting of n56 / 57 is 200%.
  - J1000: Heavy Duty, The maximum setting of L3-02 and L3-06 is 150%.  
Normal Duty, The maximum setting of L3-02 and L3-06 is 120%.

## 7.3 Special Software Replacement

The table below indicates replacement information for J7 drives with standard or special software.

**Note:** Software ID numbers are printed on the nameplate.

| J7              |                            | J1000                                       |
|-----------------|----------------------------|---|
| Software Number | Description                |   |
| 001x, 002x      | J7 Standard Drive Software | Covered by standard software functionality. |
| Others          | —                          | Contact your Yaskawa sales representative.  |

|   |                |                       |
|---|----------------|-----------------------|
| Subject: Transition Guide                     | Product: J1000 | Document: PL.J1000.01 |
| Title: Product Transition Guide – J7 to J1000 |                |                       |

## ■ 8.0 Revision History

| Version | Comment / Modification                                | Date       | Accepted By |
|---------|---|------------|-------------|
| —       | Original  | 12/21/2007 | —           |
| <1>     | Parameter list corrections (n01, n36 ~ n39, n40, n53) | 01/09/2008 | —           |
| <2>     | Modified version of VAN-V07007E                       | 01/11/2008 | —           |
| <3>     | Modified version of VAN-V07007E                       | 07/18/2008 | T. Ammerman |

## ■ 9.0 References

| Document No.  | Document Title                              | Author |
|---------------|---|--------|
| TOEPC71060626 | J1000 Quick Start Guide for Yaskawa America | YEC    |
| TOBPC73060032 | J1000 RS-232C Technical Manual              | YEC    |
| TOBPC73060033 | J1000 RS-485 MEMOBUS / Modbus Interface     | YEC    |
| TOBPC73060034 | J1000 Potentiometer Option                  | YEC    |