

AC Servomotors / Linear Motors / Servo Drives

# G5 Series

Extreme mechatronics meets X-Stream Automation



» Sub micron precision and ms settling time

» Motion network and safety built-in

» Double registration and full closed loop



# Extreme mechatronics...

## At the heart of every great machine

Great machines are born from a perfect match between control and mechanics. G5 gives you the extra edge to build more accurate, faster, smaller and safer machines. You will benefit from an almost 25% reduction in motor weight, and gain 50% cabinet space.

You will achieve sub micron precision and ms settling time. Some might call it perfection, we just call it tireless innovation to help you build great machines.

### Panel operator functions

- Display shows user selected data
- Keys for setting/ monitoring parameters
- 2 configurable analog outputs for monitoring

### Rugged and smart design

- IP67 motor and connectors
- No flying leads
- 5G vibration resistance

### 40% reduction in motor cogging

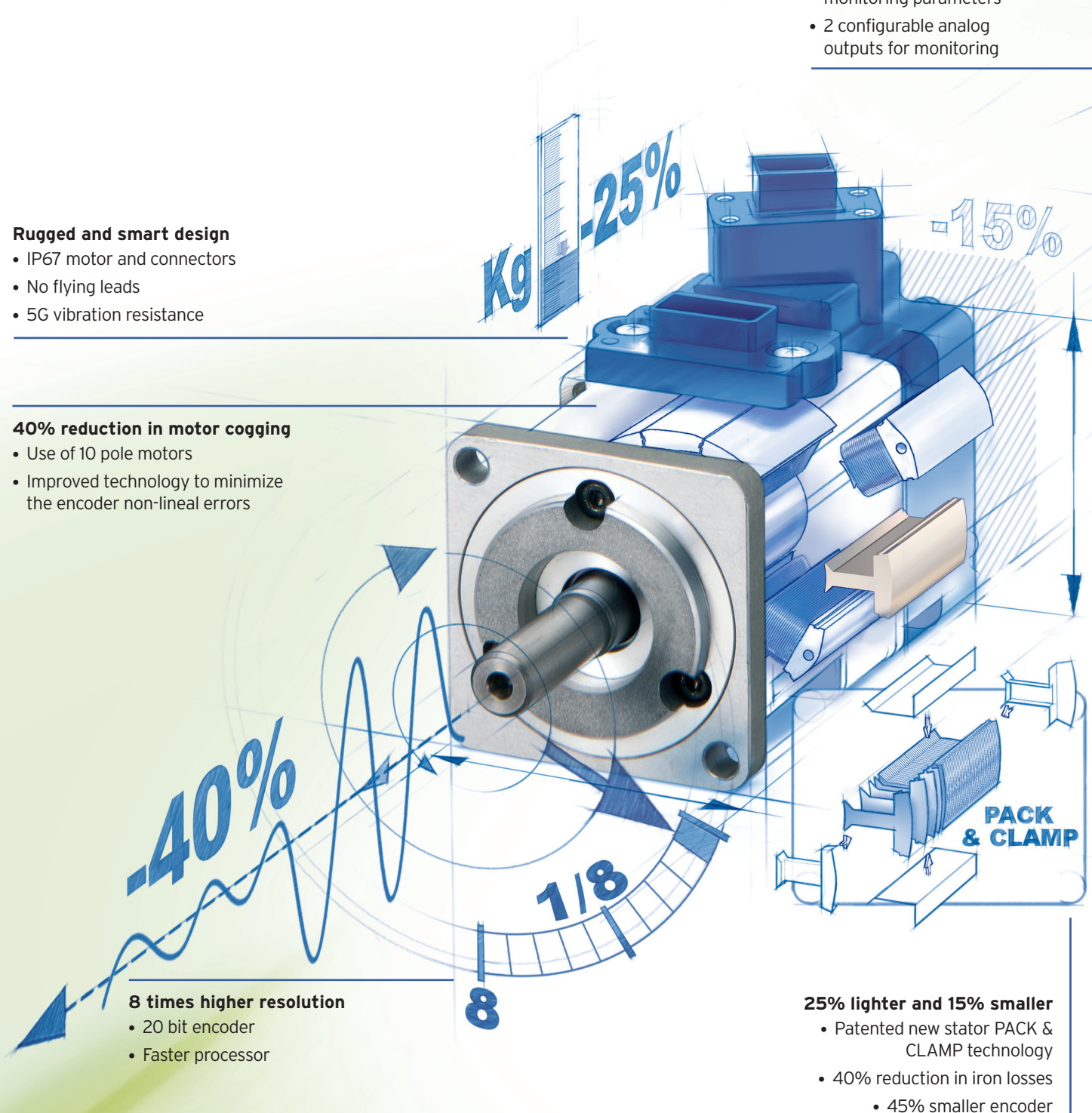
- Use of 10 pole motors
- Improved technology to minimize the encoder non-linear errors

### 8 times higher resolution

- 20 bit encoder
- Faster processor

### 25% lighter and 15% smaller

- Patented new stator PACK & CLAMP technology
- 40% reduction in iron losses
  - 45% smaller encoder





**Up to 50% cabinet size reduction**

- Up to 40% smaller drive
- Extra 10% saving thanks to side by side mounting

**Safety conformance**

- PL-d according ISO13849-1:2008
- STO: IEC61800-5-2:2007
- SIL2 according to EN61508:2001
- Cat.3: EN954-1:1996

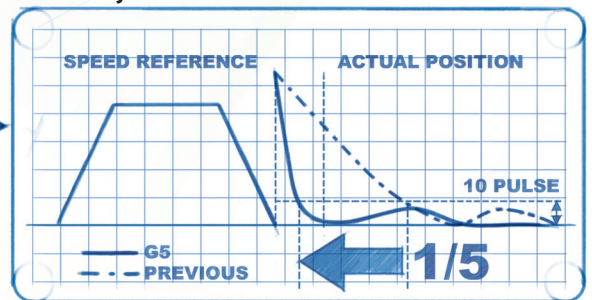


**Fast & accurate**

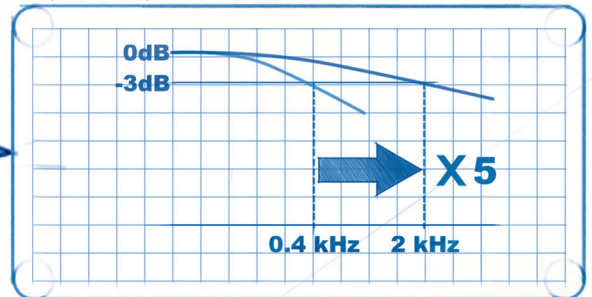
- 5 times faster settling time -0~2 ms
- 2 kHz speed response
- Torque feed forward reduces following error

50%

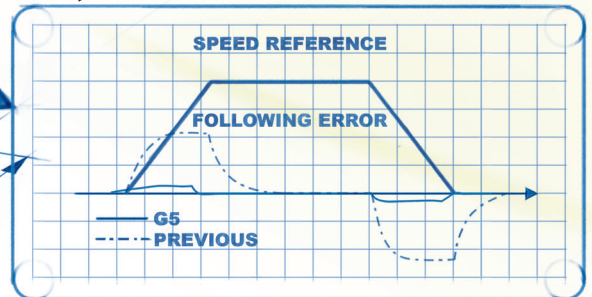
**Settling time**



**Speed response**



**Torque feed forward**

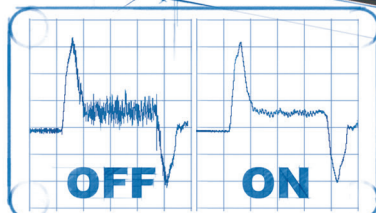


**100,000 hr operation in rugged industrial conditions**

- No fan below 1 kW
- Long life capacitors

**Load vibration suppression**

- Up to 4 preset frequencies
- Setting frequency from 1 to 200Hz



Vibration suppression





# ... meets X-Stream Automation

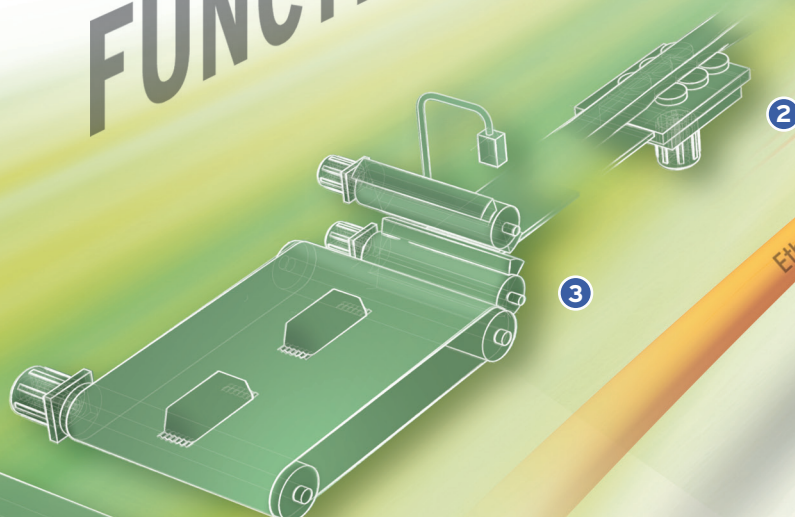
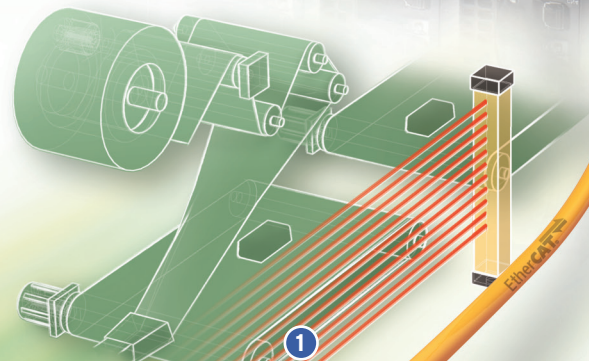
G5 seamlessly integrates into Omron's ONE SOFTWARE - ONE MACHINE CONTROL automation architecture. It utilises Ethernet connectivity and is fully configured through the SYSMAC STUDIO. G5 also simplifies your mechanical and electrical design by including double registration input, full closed loop and multi-drive safety functionality.

- 1 Built-in safety: multi-drives in a single safety relay circuit**  
The two safety inputs and the external device monitoring (EDM) output can be linked from one servo drive to another without using additional safety relays. Up to 8 servo drives can be connected to a single safety relay, saving hardware and wiring costs.

- 2 Full closed loop**  
G5 has a built-in external encoder input for full closed loop operation, for when additional accuracy is required. The external encoder input eliminates the errors caused by, for example, slip in the material.

- 3 Double registration input**  
G5 increases application versatility by providing 2 independent registration inputs per axis, especially relevant for applications such as flow wrappers. By registering the product input position and the mark position on the film, the system can make relative corrections ensuring high accuracy with a simple mechanical design.

## INTEGRATED FUNCTIONALITY



EtherCAT

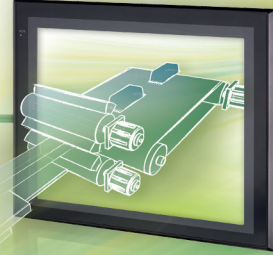
EtherCAT



## Machine Automation Controller



## NS HMI



ETHERNET  
CONNECTIVITY  
ONE  
SOFTWARE

### One software - SYSMAC STUDIO

- Full access to all devices from one connection
- One software for machine control programming, configuration simulation and monitoring



The screenshot displays the Sysmac Studio software interface with several windows open:

- Configuration:** Shows a tree view of the system configuration, including a Master node and various slave nodes (E001-E007) connected via EtherCAT.
- Programming:** Displays a ladder logic diagram with rungs and logic elements like coils and contacts.
- CamProfile0:** Shows a table of motion parameters and a graph of position vs. time.
- DataTrace:** Shows a 3D model of a mechanical part and a graph of position vs. time.

| Number | Slave | Interpolation | Velocity condition | Acceleration condition | Phase plotting width |
|--------|-------|---------------|--------------------|------------------------|----------------------|
| 0.000  | 0.000 |               |                    |                        |                      |
| 1.000  | 1.000 | OutOnSec      |                    | 0.001                  |                      |
| 2.000  | 2.000 | OutOnSec      |                    | 0.001                  |                      |
| 3.000  | 0.000 | OutOnSec      |                    | 0.001                  |                      |

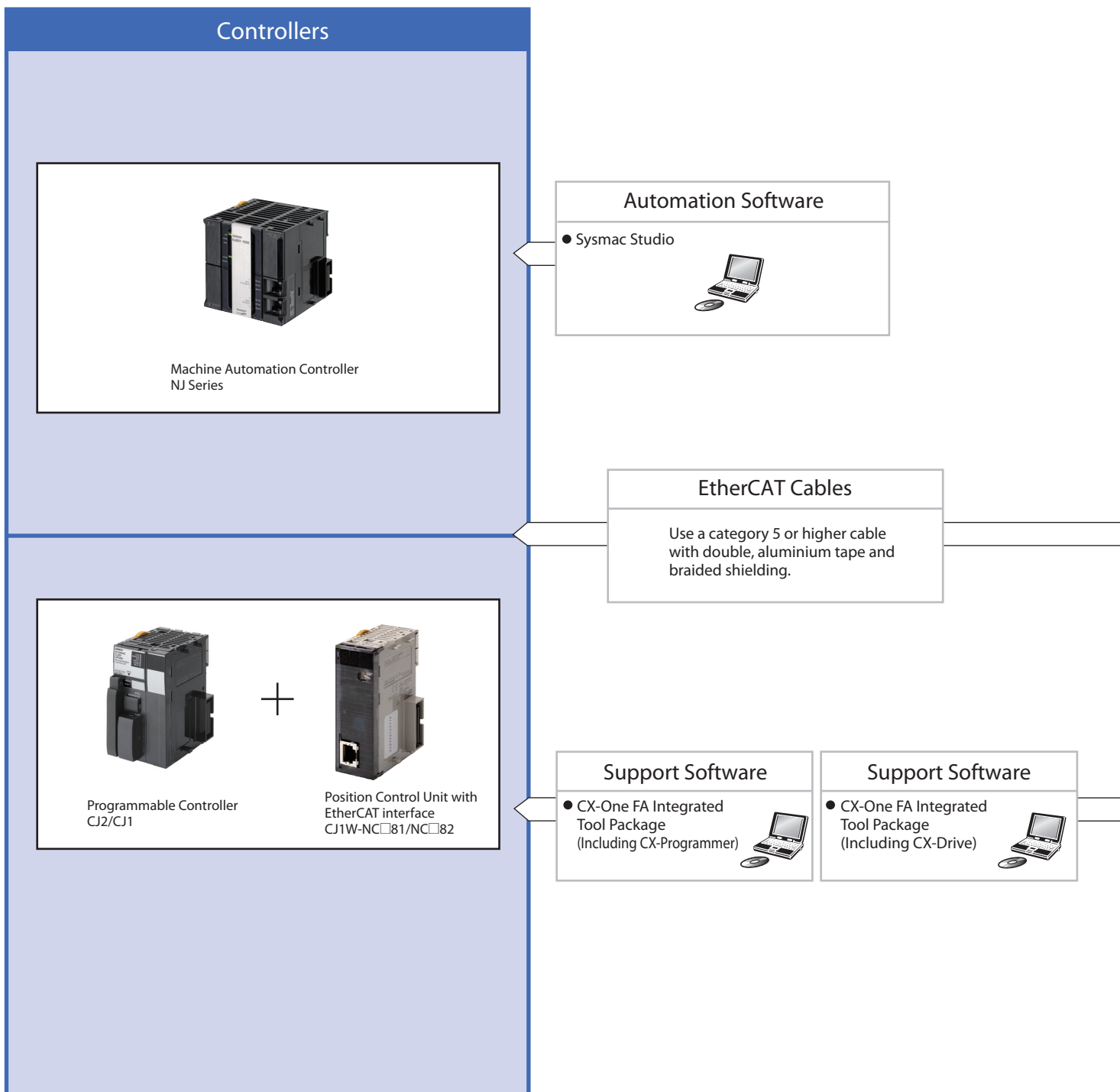
| ID | Name                      | Motion | Axis Value | ParameterID | Visible |
|----|---------------------------|--------|------------|-------------|---------|
| 1  | Manager Object            | None   |            |             |         |
| 2  | 1st axis value            | None   |            |             |         |
| 3  | 2nd axis value            | None   |            |             |         |
| 4  | 3rd axis value            | None   |            |             |         |
| 5  | Home position of 1st axis | None   |            |             |         |



# G5 Series AC Servomotor/Servo Drives with built-in EtherCAT Communications

# R88M-K/R88D-KN□-ECT

## System Configuration

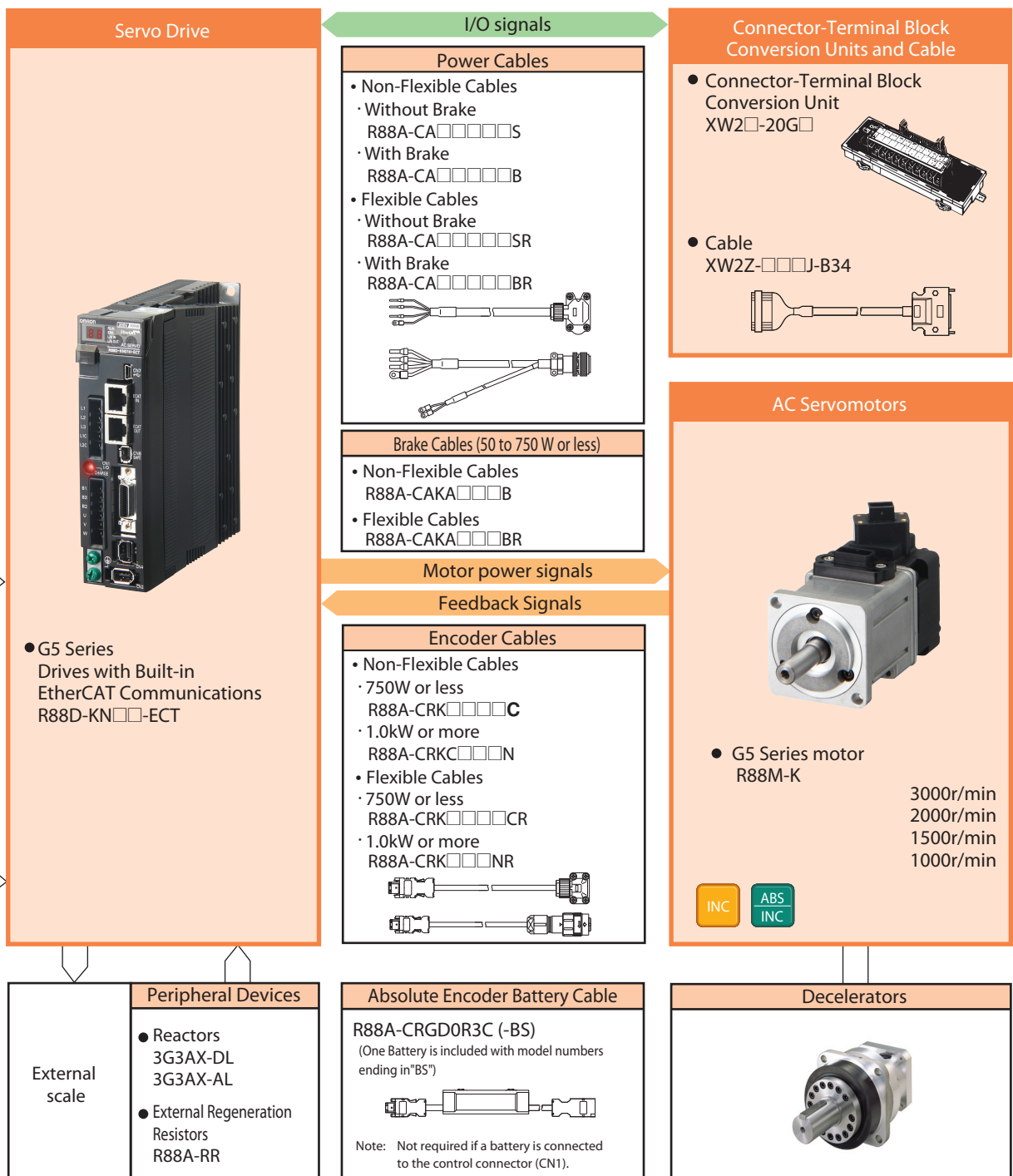




# High-Speed and High-Precision G5 Series EtherCAT Communications with the Controller



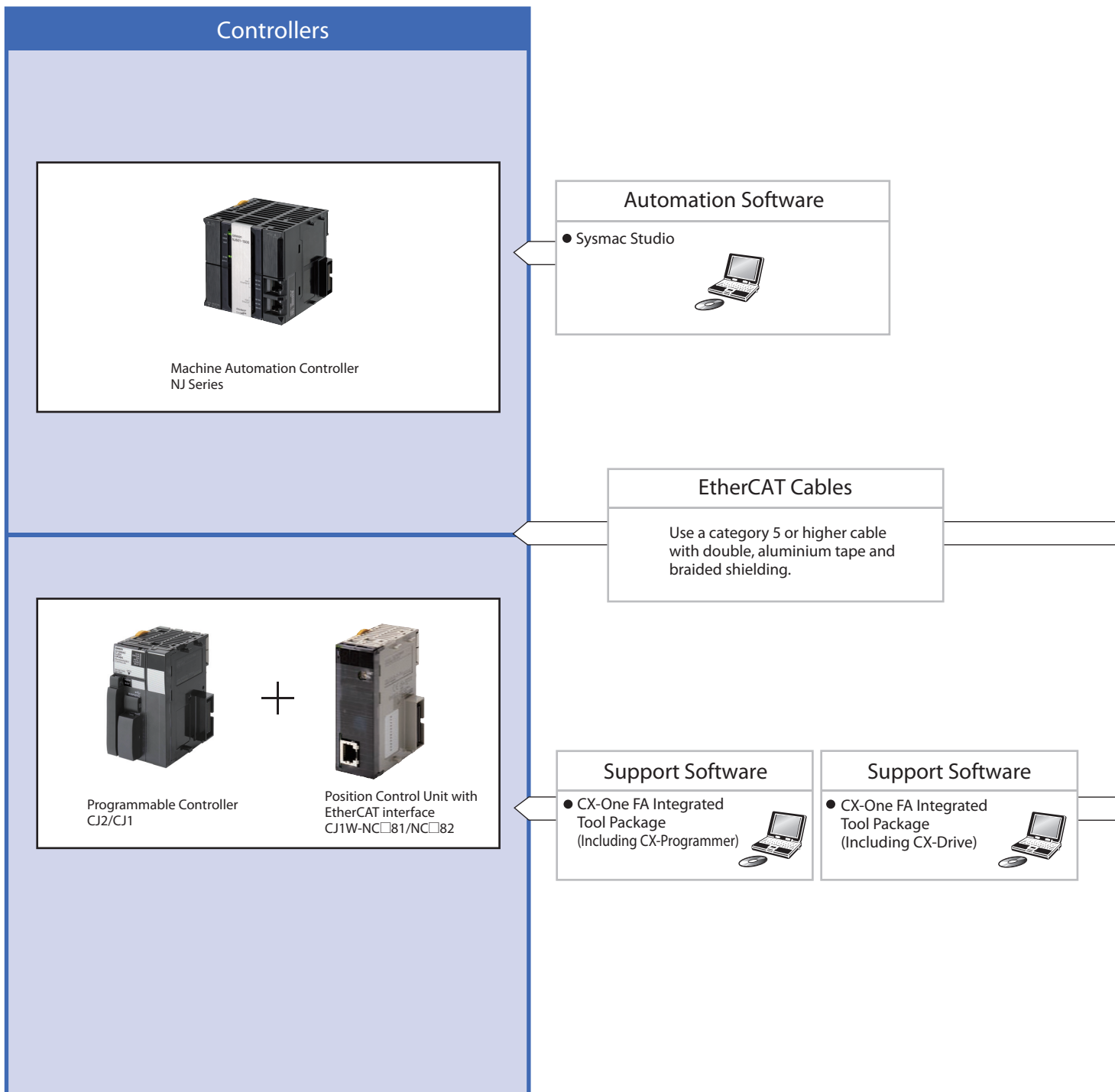
- High-accuracy positioning with fully-closed control.
- Servo Drives for 400VAC globally widens applicable systems and environment, including large-scale equipment.
- Safe design and Safe Torque Off (STO) function.
- Vibration can be suppressed in acceleration/deceleration even in low-rigidity mechanical systems.





# R88L-EC/R88D-KN□-ECT-L

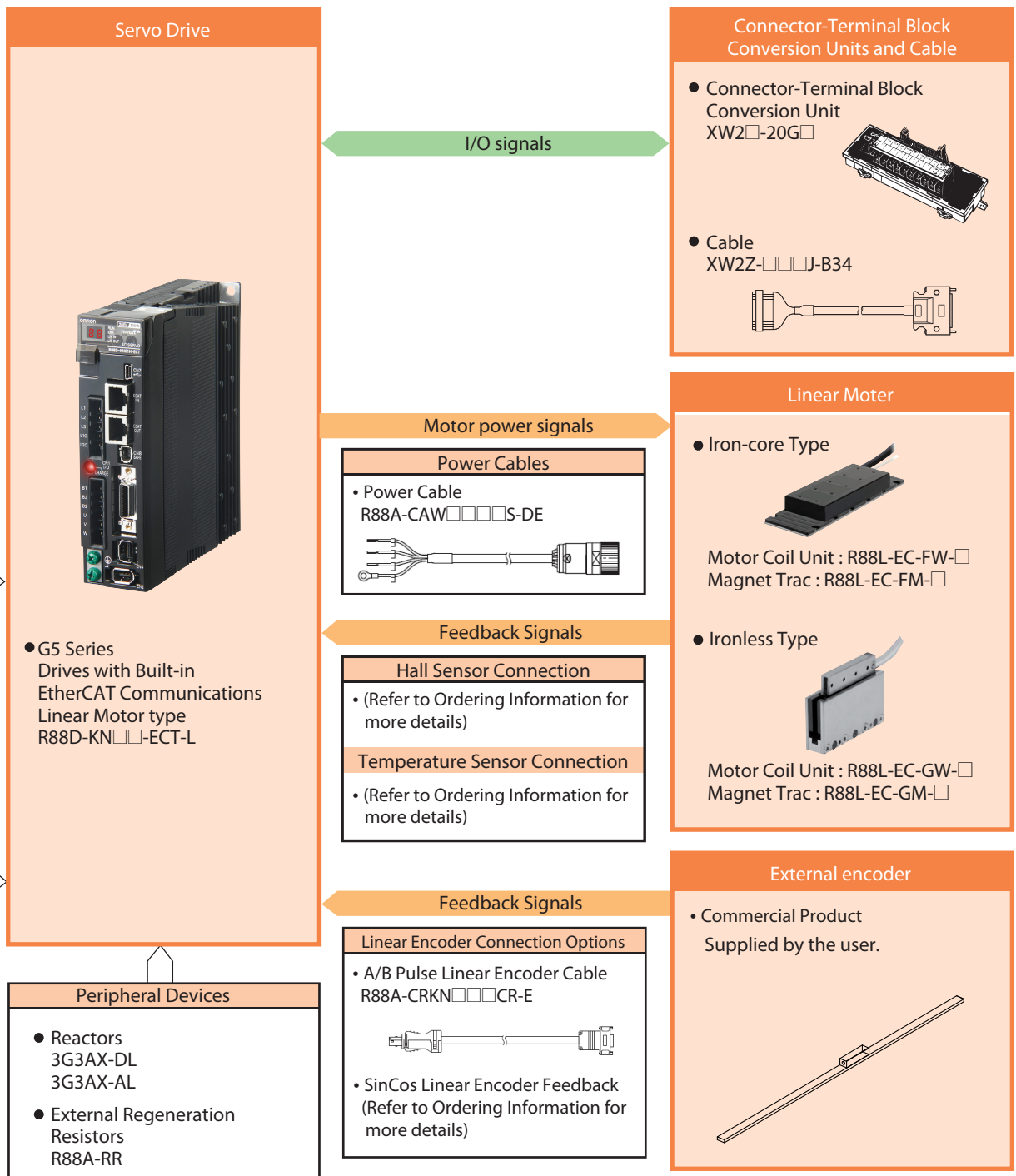
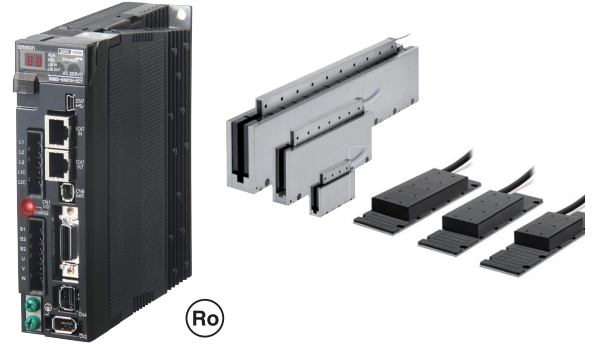
## System Configuration



# Linear Motor for Higher-speed and Higher-precision



- Inherited functions and performance of G5 series and EtherCAT communications achieve high-speed and high-precision positioning.
- Lineup of compact and high-thrust iron-core motor type and cogging-free ironless motor type with excellent speed stability.
- Same Iron-core motor type for 200V AC and 400V AC.
- Quick setup by automatic setup function.

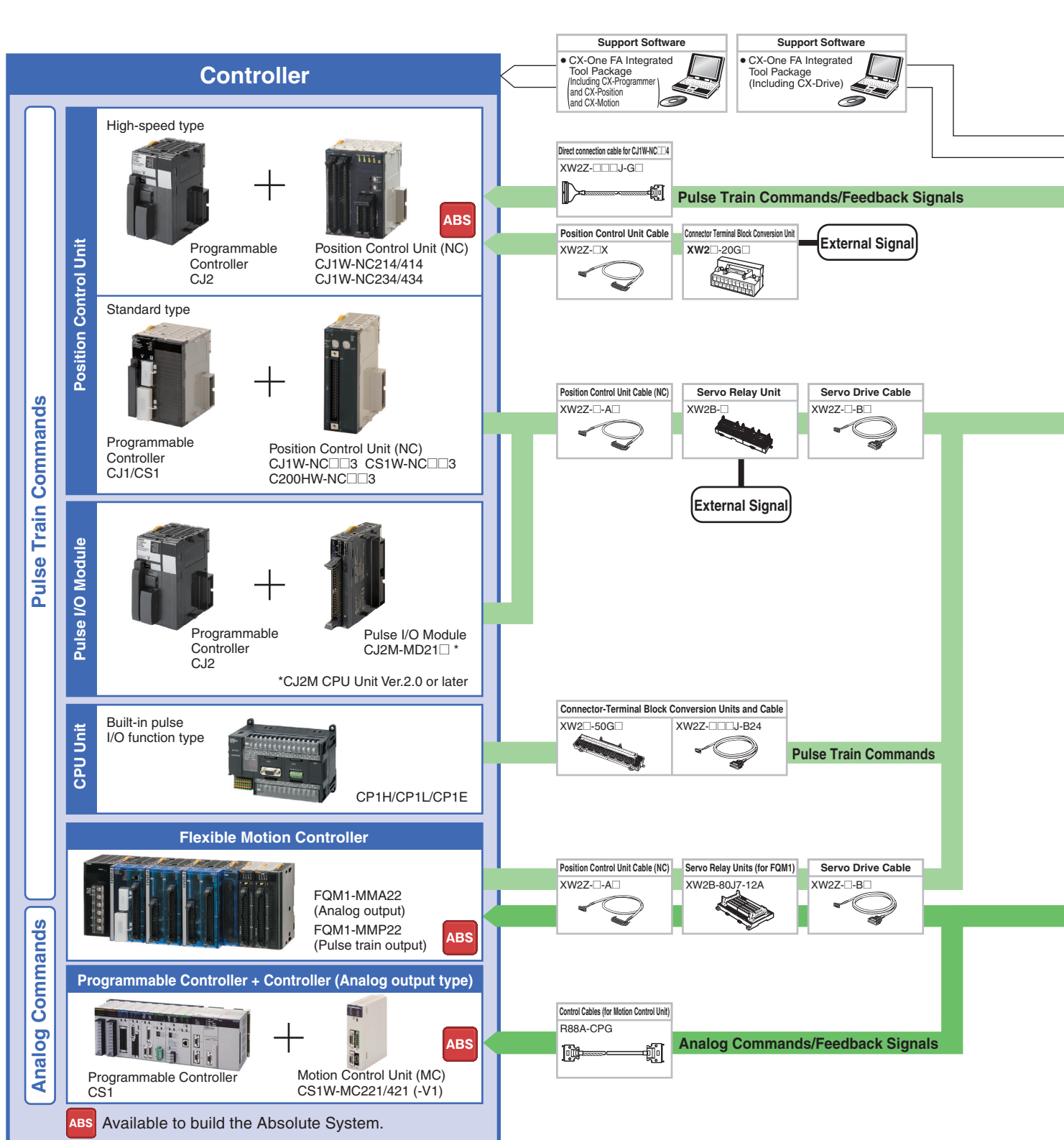




# G5-series AC Servomotors/Servo Drives with General-purpose Pulse Train or Analog Inputs

# R88M-K/R88D-KT

## System Configuration



# The Preeminent Servo That Revolutionizes Motion Control



- Industry Top-class Tracking Performance.  
Speed Response Frequency of 2 kHz.
- Best Positioning Accuracy\*.  
Featuring a 20-bit high-resolution incremental encoder.  
\* 8 times the resolution of previous OMRON models
- High-precision Positioning.  
Fully Closed Loop Control Is a Standard Feature.
- Conforms to the Latest International Standards.  
Safety and Productivity.
- Globalization. Lineup of 400 VAC Servomotors.

USB communications

## Servo Drive



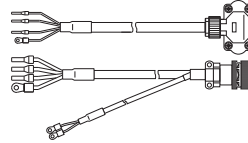
• G5 Series driver  
R88D-KT

100 VAC  
200 VAC  
400 VAC

## Motor power signals

### Power Cables

- Non-flexible Cables
  - Without Brake  
R88A-CA□□□□□S
  - With Brake  
R88A-CA□□□□□B
- Flexible Cables
  - Without Brake  
R88A-CA□□□□□SR
  - With Brake  
R88A-CA□□□□□BR



### Brake Cables (50 to 750 W or less)

- Non-flexible Cables  
R88A-CAKA□□□□B
- Flexible Cables  
R88A-CAKA□□□□BR

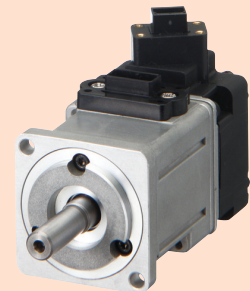
## Feedback Signals

### Encoder Cables

- Non-Flexible Cables
  - 750W or less  
R88A-CRK□□□□□C
  - 1.0kW or more  
R88A-CRK□□□□□N
- Flexible Cables
  - 750W or less  
R88A-CRK□□□□□CR
  - 1.0kW or more  
R88A-CRK□□□□□NR



## AC Servomotors



• G5 Series motor  
R88M-K

3,000 r/min  
2,000 r/min  
1,500 r/min  
1,000 r/min



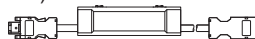
## Peripheral Devices

External scale

- Reactors  
3G3AX-DL  
3G3AX-AL
- External Regeneration Resistors  
R88A-RR

## Absolute Encoder Battery Cable

R88A-CRGD0R3C (-BS)  
(One Battery is included with Servo Drivers with model numbers ending in "BS.")



\* Not required if a battery is connected to the control connector (CN1).

## Decelerators

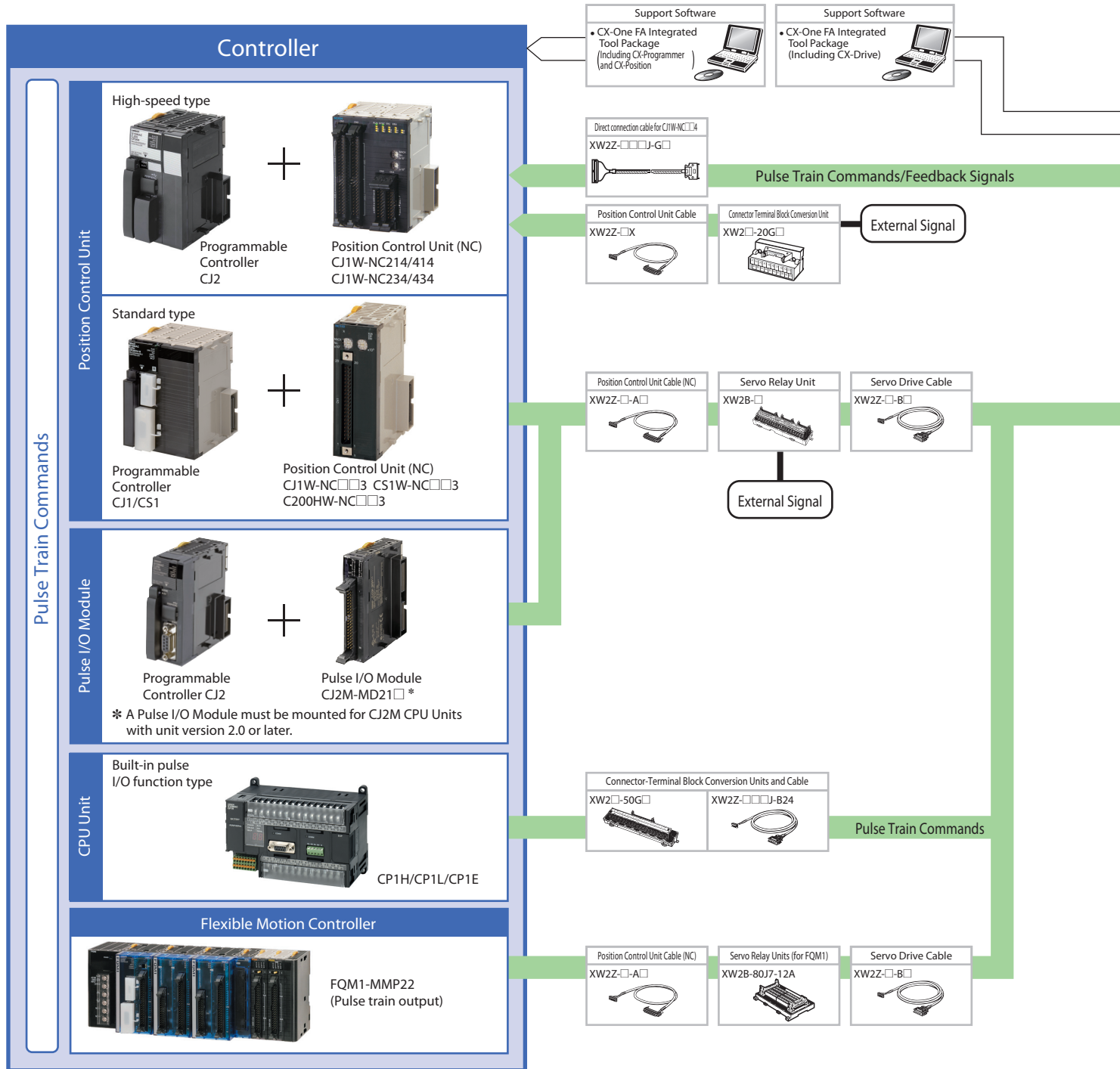




# G5-series Pulse Train Input Type AC Servomotors/Servo Drives

# R88M-KE/R88D-KP

## System Configuration





## High-performance Servo Optimal for positioning Application.

- Industry Top-class Tracking Performance.  
Speed Response Frequency of 2 kHz.
- Outstanding Positioning Accuracy.  
Featuring a 20-bit high-resolution incremental encoder.
- Easy Adjustment with Autotuning Function.
- Ideal for Applications That Require High Accuracy.  
Improved vibration control function.

USB communications

### Servo Drive



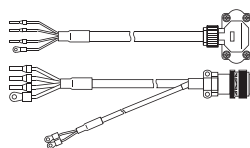
• G5-series Pulse Train Input Type Drives  
R88D-KP

200 VAC

### Motor power signals

#### Power Cables

- Non-flexible Cables
  - Without Brake  
R88A-CAG□□□□S
  - With Brake  
R88A-CAG□□□□B
- Flexible Cables
  - Without Brake  
R88A-CAG□□□□SR
  - With Brake  
R88A-CAG□□□□BR



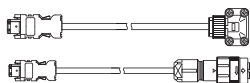
#### Brake Cables (50 to 750 W max.)

- Non-flexible Cables  
R88A-CAGA□□□□B
- Flexible Cables  
R88A-CAGA□□□□BR

### Feedback Signals

#### Encoder Cables

- Non-Flexible Cables  
R88A-CRG□□□□□
- Flexible Cables  
R88A-CRG□□□□□R



### AC Servomotors



• G5-series Pulse Train Input Type Motors  
R88M-KE

3,000 r/min  
2,000 r/min  
1,000 r/min

INC

### Peripheral Devices

- Reactors  
3G3AX-DL  
3G3AX-AL
- External Regeneration Resistors  
R88A-RR

### Decelerators

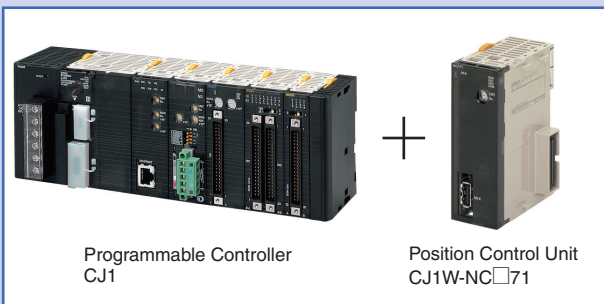




# R88M-K/R88D-KN□-ML2

## System Configuration

### Controllers (MECHATROLINK-II type)



**Support Software**

- CX-One FA Integrated Tool Package (Including CX-Programmer and CX-Position and CX-Motion)

**Support Software**

- CX-One FA Integrated Tool Package (Including CX-Drive)

### MECHATROLINK-II

#### MECHATROLINK-II Cables

(With ring core and USB connector on both ends)  
**FNY-W6003-□□** (OMRON model number)  
 (Without ring core USB connector on both ends)  
**FNY-W6002-□□** (OMRON model number)

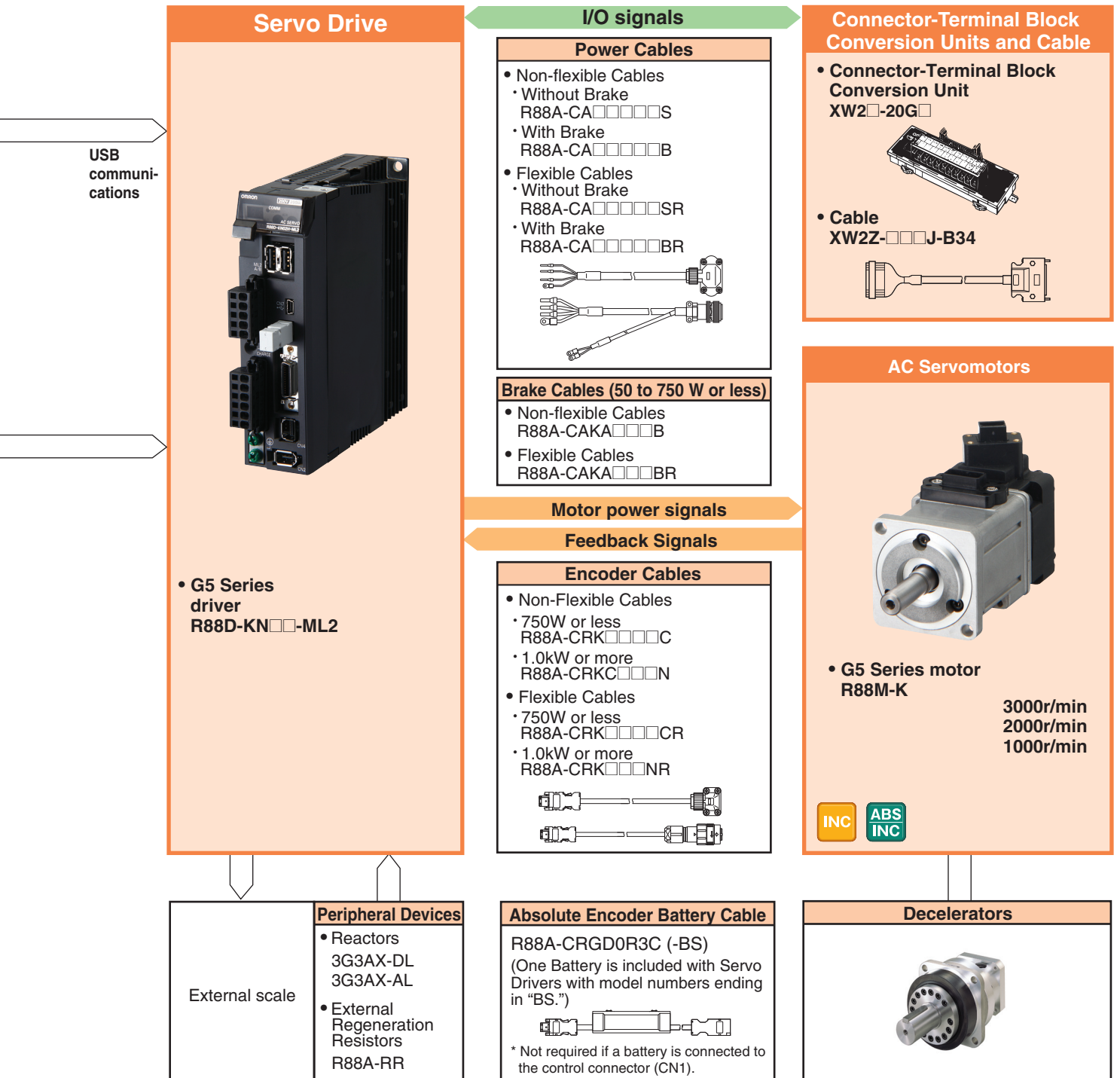
#### MECHATROLINK-II Repeater

|                             |         | Maximum transmission distance |                        |
|-----------------------------|---------|-------------------------------|------------------------|
|                             |         | 0 to 30 m                     | 30 to 50 m             |
| Number of connected devices | 1 to 15 | Repeater not required.        | Repeater not required. |
|                             | 16      | Repeater not required.        | Repeater required.     |



# High-Speed and High-Precision G5 Series MECHATROLINK-II Communications with the Controller

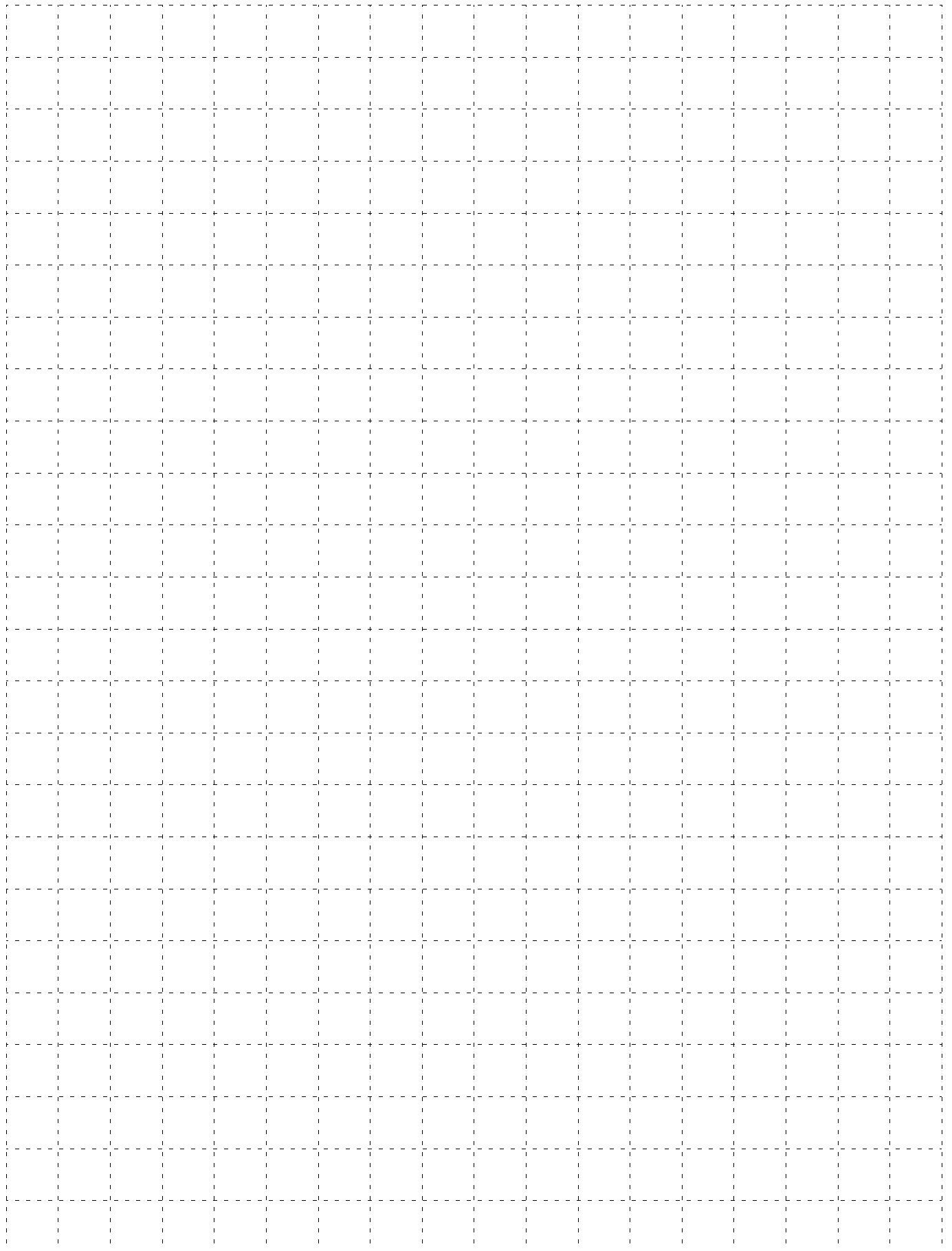
- Data transfer using MECHATROLINK-II Communications:  
All control data that can be interfaced between the Servo Driver and the Controller is transmitted using data communications. This enables maximizing the Servomotor performance without restricting the transmission performance of the control signals.
- Having a communications module built into the Servo Driver significantly saves space in the control panel.





**MEMO**

---

A large grid of dashed lines for taking notes, consisting of 20 columns and 25 rows of squares.

---

# Ordering Information

---

Product name AC Servomotors / Linear Motors / Servo Drives  
G5-series

|  |      |
|--|------|
| Interpreting Model Numbers.....  | B-2  |
| ■ AC Servo Drive Rotary Motor Type Model Numbers   |      |
| ■ AC Servo Drive Linear Motor Type Model Numbers   |      |
| ■ AC Servomotor Model Numbers  |      |
| ■ Linear Motor Model Numbers   |      |
| ■ Understanding Decelerator Model Numbers<br>(Backlash = 3' Max./Backlash = 15' Max.)                          |      |
| Table of AC Servomotor Variations.....   | B-5  |
| Ordering Information.....  | B-6  |
| AC Servo Drives.....   | B-6  |
| EtherCAT Communications  |      |
| Linear Motor with built-in EtherCAT communications   |      |
| General-purpose Inputs   |      |
| MECHATROLINK-II Communications   |      |
| Pulse Train Input Type   |      |
| AC Servomotors.....  | B-7  |
| Linear Motors.....   | B-14 |
| Decelerators (Backlash = 3' Max./Backlash = 15' Max.).....   | B-16 |
| Accessories and Cables.....  | B-18 |
| ■ Connection Cables (Power Cables, Brake Cables, Encoder Cables)<br>(Non-flexible Cables)<br>(Flexible Cables) |      |
| ■ Cable/Connector  |      |
| ■ Control Cables   |      |
| ● For General-purpose Inputs   |      |
| ■ Communication Cables   |      |
| ● For MECHATROLINK-II Communications   |      |
| ● For EtherCAT Communications  |      |
| ■ Peripheral Devices<br>(External Regeneration Resistors, Reactors, Mounting Brackets)                         |      |
| ■ Support Software   |      |
| Combination table (General-purpose Inputs/MECHATROLINK-II/EtherCAT)...   | B-28 |
| ■ AC Servo Drive and Servomotor Combinations   |      |
| ■ AC Servomotor and Decelerator Combinations   |      |
| ■ Linear Motor and AC Servo Drive Linear Motor Type Combinations   |      |
| ■ Controller Combinations  |      |
| ■ Cable Combinations   |      |
| Related Manuals .....  | B-45 |

As a Sysmac Device, the G5-series AC Servomotor/Servo Drive with Built-in EtherCAT Communications is designed to provide optimal functionality and enhanced operability when used in conjunction with a Machine Automation Controller such as NJ series and the automation software Sysmac Studio. Sysmac Device is a generic term for OMRON control devices such as an EtherCAT Slave, designed with unified communications specifications and user interface specifications.

When connecting a Servo Drive to the NJ5 series Machine Automation Controller, it is recommended that you use the Servo Drive with Built-in EtherCAT Communications, R88D-KN□□□-ECT, with unit version 2.1 or later.



# AC Servomotor/Drive G5-series

## Interpreting Model Numbers

### AC Servo Drive Rotary Motor Type Model Numbers

**R88D-K N 01 H -ECT**

(1) (2) (3) (4) (5)

| No  | Item                           | Symbol  | Specifications                      |
|-----|--------------------------------|---------|-------------------------------------|
| (1) |                                |         | G5-series Servo Drive               |
| (2) | Drive Type                     | T       | Analog input/Pulse train input type |
|     |                                | P       | Pulse train input type              |
|     |                                | N       | Network type                        |
| (3) | Applicable Servomotor Capacity | A5      | 50 W                                |
|     |                                | 01      | 100 W                               |
|     |                                | 02      | 200 W                               |
|     |                                | 04      | 400 W                               |
|     |                                | 06      | 600 W                               |
|     |                                | 08      | 750 W                               |
|     |                                | 10      | 1 kW                                |
|     |                                | 15      | 1.5 kW                              |
|     |                                | 20      | 2 kW                                |
|     |                                | 30      | 3 kW                                |
|     |                                | 40      | 4 kW                                |
|     |                                | 50      | 5 kW                                |
|     |                                | 75      | 7.5 kW                              |
|     |                                | 150     | 15 kW                               |
| (4) | Power Supply Voltage           | L       | 100 VAC                             |
|     |                                | H       | 200 VAC                             |
|     |                                | F       | 400 VAC                             |
| (5) | Network type                   | <Blank> | Analog input/Pulse train input type |
|     |                                | -ECT    | EtherCAT Communications             |
|     |                                | -ML2    | MECHATROLINK-II Communications      |

### AC Servo Drive Linear Motor Type Model Numbers

**R88D-K N 01 H -ECT -L**

(1) (2) (3) (4) (5) (6)

| No  | Item                             | Symbol | Specifications          |
|-----|----------------------------------|--------|-------------------------|
| (1) |                                  |        | G5-series Servo Drive   |
| (2) | Drive Type                       | N      | Network type            |
| (3) | Applicable Linear Motor Capacity | 01     | 100 W                   |
|     |                                  | 02     | 200 W                   |
|     |                                  | 04     | 400 W                   |
|     |                                  | 06     | 600 W                   |
|     |                                  | 08     | 750 W                   |
|     |                                  | 10     | 1 kW                    |
|     |                                  | 15     | 1.5 kW                  |
|     |                                  | 20     | 2 kW                    |
| (4) | Power Supply Voltage             | L      | 100 VAC                 |
|     |                                  | H      | 200 VAC                 |
|     |                                  | F      | 400 VAC                 |
| (5) | Network type                     | -ECT   | EtherCAT Communications |
| (6) | Motor type                       | -L     | Linear Motor            |

### AC Servomotor Model Numbers

**R88M-K □ 750 30 H -BO S2**

(1) (2) (3) (4) (5) (6)

| No   | Item                           | Symbol  | Specifications               |
|------|--------------------------------|---------|------------------------------|
| (1)  |                                |         | OMNUC G5-Series Servomotor   |
| (2)  | Motor Type                     | <Blank> | Standard Cylinder type       |
|      |                                | E       | Eco Cylinder type            |
| (3)  | Applicable Servomotor Capacity | 050     | 50 W                         |
|      |                                | 100     | 100 W                        |
|      |                                | 200     | 200 W                        |
|      |                                | 400     | 400 W                        |
|      |                                | 600     | 600 W                        |
|      |                                | 750     | 750 W                        |
|      |                                | 900     | 900 W                        |
|      |                                | 1K0     | 1 kW                         |
|      |                                | 1K5     | 1.5 kW                       |
|      |                                | 2K0     | 2 kW                         |
|      |                                | 3K0     | 3 kW                         |
|      |                                | 4K0     | 4 kW                         |
|      |                                | 4K5     | 4.5 kW                       |
|      |                                | 5K0     | 5 kW                         |
|      |                                | 6K0     | 6 kW                         |
|      |                                | 7K5     | 7.5 kW                       |
| 11K0 | 11 kW                          |         |                              |
| 15K0 | 15 kW                          |         |                              |
| (4)  | Rated Rotation Speed           | 10      | 1,000 r/min                  |
|      |                                | 15      | 1,500 r/min                  |
|      |                                | 20      | 2,000 r/min                  |
|      |                                | 30      | 3,000 r/min                  |
| (5)  | Applied Voltage / Encoder Type | L       | 100 VAC, Incremental Encoder |
|      |                                | H       | 200 VAC, Incremental Encoder |
|      |                                | F       | 400 VAC, Incremental Encoder |
|      |                                | S       | 100 VAC, Absolute Encoder    |
|      |                                | T       | 200 VAC, Absolute Encoder    |
|      |                                | C       | 400 VAC, Absolute Encoder    |
| (6)  | Option                         | <Blank> | Straight shaft               |
|      |                                | B       | With brake                   |
|      |                                | O       | With oil seal                |
|      |                                | S2      | With key and tap             |

## Linear Motor

### ● Iron-core linear motor

#### Motor Coil Unit

**R88L-EC -FW -03 03 -A NP C**

(1) (2) (3) (4) (5) (6) (7)

| No  | Item                   | Symbol | Specifications                 |
|-----|------------------------|--------|--------------------------------|
| (1) | G5-series Linear Motor |        |                                |
| (2) | Part Type              | FW     | Iron-core type Motor Coil Unit |
| (3) | Magnet Width           | 03     | 30mm                           |
|     |                        | 06     | 60mm                           |
|     |                        | 11     | 110mm                          |
| (4) | Coil Model             | 03     | 3-coil                         |
|     |                        | 06     | 6-coil                         |
|     |                        | 09     | 9-coil                         |
|     |                        | 12     | 12-coil                        |
|     |                        | 15     | 15-coil                        |
| (5) | Version                | A      | Version A                      |
| (6) | Connector Options      | NP     | No Connector                   |
|     |                        | PL     | With Connector                 |
| (7) | Type                   | C      | Compact (Iron-core models)     |

### ● Ironless linear motor

#### Motor Coil Unit

**R88L-EC -GW -03 03 -A NP S**

(1) (2) (3) (4) (5) (6) (7)

| No  | Item                   | Symbol | Specifications                |
|-----|------------------------|--------|-------------------------------|
| (1) | G5-series Linear Motor |        |                               |
| (2) | Part Type              | GW     | Ironless type Motor Coil Unit |
| (3) | Magnet Width           | 03     | 30mm                          |
|     |                        | 06     | 60mm                          |
|     |                        | 11     | 110mm                         |
| (4) | Coil Model             | 03     | 3-coil                        |
|     |                        | 06     | 6-coil                        |
|     |                        | 09     | 9-coil                        |
| (5) | Version                | A      | Version A                     |
| (6) | Connector Options      | NP     | No Connector                  |
|     |                        | PL     | With Connector                |
| (7) | Type                   | S      | Standard (Ironless models)    |

### ● Hall Sensor

**R88L-EC -FH -03 NN -A**

(1) (2) (3) (4) (5)

| N   | Item                   | Symbol | Specifications                 |
|-----|------------------------|--------|--------------------------------|
| (1) | G5-series Linear Motor |        |                                |
| (2) | Part Type              | FH     | Iron-core digital Hall-sensor  |
|     |                        | GH     | Ironless digital Hall-sensor   |
| (3) | Magnet Width           | 03     | 30mm (Ironless models)         |
|     |                        | 06     | 60mm (Ironless models)         |
|     |                        | 11     | 110mm (Ironless models)        |
|     |                        | NN     | Placeholder (Iron-core models) |
| (4) | Placeholder            | NN     | Placeholder                    |
| (5) | Version                | A      | Version A                      |

## Magnet Track

**R88L-EC -FM -03 096 -A**

(1) (2) (3) (4) (5)

| No  | Item                     | Symbol | Specifications             |
|-----|--------------------------|--------|----------------------------|
| (1) | G5-series Linear Motor   |        |                            |
| (2) | Part Type                | FM     | Iron-core type Magnet Trac |
| (3) | Magnet Width             | 03     | 30mm                       |
|     |                          | 06     | 60mm                       |
|     |                          | 11     | 110mm                      |
| (4) | Magnet Track Unit Length | 096    | 96mm                       |
|     |                          | 144    | 144mm                      |
|     |                          | 192    | 192mm                      |
|     |                          | 288    | 288mm                      |
|     |                          | 384    | 384mm                      |
| (5) | Version                  | A      | Version A                  |

## Magnet Track

**R88L-EC -GM -03 090 -A**

(1) (2) (3) (4) (5)

| No  | Item                     | Symbol | Specifications            |
|-----|--------------------------|--------|---------------------------|
| (1) | G5-series Linear Motor   |        |                           |
| (2) | Part Type                | GM     | Ironless type Magnet Trac |
| (3) | Magnet Width             | 03     | 30mm                      |
|     |                          | 06     | 60mm                      |
|     |                          | 11     | 110mm                     |
| (4) | Magnet Track Unit Length | 090    | 90mm                      |
|     |                          | 114    | 114mm                     |
|     |                          | 120    | 120mm                     |
|     |                          | 126    | 126mm                     |
|     |                          | 168    | 168mm                     |
|     |                          | 171    | 171mm                     |
|     |                          | 210    | 210mm                     |
|     |                          | 390    | 390mm                     |
|     |                          | 456    | 456mm                     |
|     |                          | 546    | 546mm                     |
| (5) | Version                  | A      | Version A                 |



**Understanding Decelerator Model Numbers (Backlash = 3' Max./Backlash = 15' Max.)**

**Backlash = 3' Max.**

**R88G-HPG 14A 05 100 S B J**

(1) (2) (3) (4) (5) (6) (7)

| No  | Item  | Symbol | Specifications                      |
|-----|---|--------|-------------------------------------|
| (1) | Decelerator for<br>G□-Series Servomotors Backlash = 3' Max. |        |                                     |
| (2) | Flange Size<br>Number                                       | 11B    | □40                                 |
|     |   | 14A    | □60                                 |
|     |   | 20A    | □90                                 |
|     |   | 32A    | □120                                |
|     |   | 50A    | □170                                |
|     |   | 65A    | □230                                |
| (3) | Gear Ratio  | 05     | 1/5                                 |
|     |   | 09     | 1/9 (only frame number 11B)         |
|     |   | 11     | 1/11 (except frame number 65A)      |
|     |   | 12     | 1/12 (only frame number 65A)        |
|     |   | 20     | 1/20 (only frame number 65A)        |
|     |   | 21     | 1/21 (except frame number 65A)      |
|     |   | 25     | 1/25 (only frame number 65A)        |
|     |   | 33     | 1/33                                |
| (4) | Applicable<br>Servomotor<br>Capacity                        | 050    | 50 W                                |
|     |   | 100    | 100 W                               |
|     |   | 200    | 200 W                               |
|     |   | 400    | 400 W                               |
|     |   | 750    | 750 W                               |
|     |   | 900    | 900 W                               |
|     |   | 1K0    | 1 kW                                |
|     |   | 1K5    | 1.5 kW                              |
|     |   | 2K0    | 2 kW                                |
|     |   | 3K0    | 3 kW                                |
|     |   | 4K0    | 4 kW                                |
|     |   | 4K5    | 4.5 kW                              |
| (5) | Motor Type  | Blank  | 3,000-r/min cylindrical servomotors |
|     |   | -      | -                                   |
|     |   | S      | 2,000-r/min cylindrical servomotors |
|     |   | T      | 1,000-r/min cylindrical servomotors |
| (6) | Backlash  | B      | Backlash = 3' Max                   |
| (7) | Option  | Blank  | Straight shaft                      |
|     |   | J      | With key and tap                    |

**Backlash = 15' Max.**

**R88G-VRSF 09 B 100 C J**

(1) (2) (3) (4) (5) (6) (7)

| No  | Item   | Symbol | Specifications                      |
|-----|--|--------|-------------------------------------|
| (1) | Decelerator for<br>G□-Series Servomotors Backlash = 15' Max. |        |                                     |
| (2) | Gear Ratio   | 05     | 1/5                                 |
|     |  | 09     | 1/9                                 |
|     |  | 15     | 1/15                                |
|     |  | 25     | 1/25                                |
| (3) | Flange Size<br>Number  | B      | □52                                 |
|     |  | C      | □78                                 |
|     |  | D      | □98                                 |
| (4) | Applicable<br>Servomotor<br>Capacity                         | 050    | 50 W                                |
|     |  | 100    | 100 W                               |
|     |  | 200    | 200 W                               |
|     |  | 400    | 400 W                               |
|     |  | 750    | 750 W                               |
| (5) | Motor Type   | Blank  | 3,000-r/min cylindrical servomotors |
|     |  | -      | -                                   |
| (6) | Backlash   | C      | Backlash = 15' Max                  |
| (7) | Option   | J      | With key (without tap)              |

# Table of AC Servomotor Variations

R88M-K□□□□□□□-□□□□□  
(3) (4) (5) (6) (7) (8) (9)

| (3)                                 |     | (4)  | (5)  | Model           | (6)   |         |         |         |         |         | (7)  |   | (8)  |   | (9)  |    |
|-------------------------------------|-----|--|--|-----------------|---|---------|---------|---------|---------|---------|--|---|--|---|--|----|
| Type                                |     | Applicable Servomotor Capacity                 |  |                 | Applied Voltage   |         |         |         |         |         | Brakes   |   | Oil Seals  |   | Shaft Type   |    |
| Standard                            | Eco |  |  |                 | INC 400   | INC 200 | INC 100 | ABS 400 | ABS 200 | ABS 100 | <Blank>  | B | <Blank>  | O | <Blank>  | S2 |
| Blank                               | E*2 |  | F  | H               | L   | C       | T       | S       |         |         |  |   |  |   |  |    |
| √                                   | √   | 50 W   | 3,000 r/min  | R88M-K□05030 *1 |   | √       |         |         | √       |         | √  | √ | √  | √ | √  |    |
| √                                   | √   | 100 W  |  | R88M-K□10030    |   | √       | √       |         |         | √       | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 200 W  |  | R88M-K□20030    |   | √       | √       |         |         | √       | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 400 W  |  | R88M-K□40030    |   | √       | √       |         |         | √       | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 750 W  |  | R88M-K□75030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 1.0 kW   |  | R88M-K□1K030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 1.5 kW   |  | R88M-K□1K530    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 2.0 kW   |  | R88M-K□2K030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 3.0 kW   |  | R88M-K□3K030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 4.0 kW   |  | R88M-K□4K030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 5.0 kW   |  | R88M-K□5K030    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   |     | 400 W  | 2,000 r/min  | R88M-K□40020    | √   |         |         | √       |         |         | √  | √ | √  | √ | √  |    |
| √                                   |     | 600 W  |  | R88M-K□60020    | √   |         |         | √       |         |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 1.0 kW   |  | R88M-K□1K020    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 1.5 kW   |  | R88M-K□1K520    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 2.0 kW   |  | R88M-K□2K020    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 3.0 kW   |  | R88M-K□3K020    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 4.0 kW   |  | R88M-K□4K020    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   | √   | 5.0 kW   |  | R88M-K□5K020    | √   | √       |         | √       | √       |         | √  | √ | √  | √ | √  | √  |
| √                                   |     | 7.5 kW   | 1,500 r/min  | R88M-K□7K515    |   |         |         | √       | √       |         | √  | √ | √  | √ | √  |    |
| √                                   |     | 11.0 kW  |  | R88M-K□11K015   |   |         |         |         | √       | √       |  | √ | √  | √ | √  | √  |
| √                                   |     | 15.0 kW  |  | R88M-K□15K015   |   |         |         |         | √       | √       |  | √ | √  | √ | √  | √  |
| √                                   | √   | 900 W  | 1,000 r/min  | R88M-K□90010    | √   | √       |         |         | √       | √       |  | √ | √  | √ | √  |    |
| √                                   | √   | 2.0 kW   |  | R88M-K□2K010    | √   | √       |         |         |         | √       | √  |   | √  | √ | √  | √  |
| √                                   | √   | 3.0 kW   |  | R88M-K□3K010    | √   | √       |         |         |         | √       | √  |   | √  | √ | √  | √  |
| √                                   |     | 4.5 kW   |  | R88M-K□4K510    |   |         |         |         |         | √       | √  |   | √  | √ | √  | √  |
| √                                   |     | 6.0 kW   |  | R88M-K□6K010    |   |         |         |         |         | √       | √  |   | √  | √ | √  | √  |
| <b>&lt;Blank&gt;: Cylinder Type</b> |     | example<br>050: 50W<br>100: 100W<br>15K0: 15kW | 10: 1,000 r/min<br>15: 1,500 r/min<br>20: 2,000 r/min<br>30: 3,000 r/min |                 | F: 400 VAC (with incremental encoder)<br>H: 200 VAC (with incremental encoder)<br>L: 100 VAC (with incremental encoder)<br>C: 400 VAC (with absolute encoder)<br>T: 200 VAC (with absolute encoder)<br>S: 100 VAC (with absolute encoder) |         |         |         |         |         | <b>&lt;Blank&gt;: Without Brake</b><br>B: With 24VDC Brake |   | <b>&lt;Blank&gt;: Without Oil Seals</b><br>B: With Oil Seals |   | <b>&lt;Blank&gt;: Straight Shaft</b><br>S2: With key and tap |    |

\*1. R88M-K□05030H-□, R88M-K□05030T-□, can be used for Power Supply Voltage of 100/200VAC.

\*2. R88M-KE□ servomotors are only available as 200VAC Type with incremental encoders. ie. R88M-KE10030H-□

## Ordering Information

### AC Servo Drives

#### EtherCAT Communications

| Specifications                          |                                | Model           |
|---|--------------------------------|-----------------|
| Power Model Supply Voltage              | Applicable Servomotor Capacity |                 |
| Single-phase<br>100 VAC                 | 50 W                           | R88D-KNA5L-ECT  |
|   | 100 W                          | R88D-KN01L-ECT  |
|   | 200 W                          | R88D-KN02L-ECT  |
|   | 400 W                          | R88D-KN04L-ECT  |
| Single-phase/<br>Three-phase<br>200 VAC | 100 W                          | R88D-KN01H-ECT  |
|   | 200 W                          | R88D-KN02H-ECT  |
|   | 400 W                          | R88D-KN04H-ECT  |
|   | 750 W                          | R88D-KN08H-ECT  |
|   | 1.0 kW                         | R88D-KN10H-ECT  |
| Three-phase<br>200 VAC                  | 1.5 kW                         | R88D-KN15H-ECT  |
|   | 2.0 kW                         | R88D-KN20H-ECT  |
|   | 3.0 kW                         | R88D-KN30H-ECT  |
|   | 5.0 kW                         | R88D-KN50H-ECT  |
|   | 7.5 kW                         | R88D-KN75H-ECT  |
| Three-phase<br>400 VAC                  | 15.0 kW                        | R88D-KN150H-ECT |
|   | 600 W                          | R88D-KN06F-ECT  |
|   | 1.0 kW                         | R88D-KN10F-ECT  |
|   | 1.5 kW                         | R88D-KN15F-ECT  |
|   | 2.0 kW                         | R88D-KN20F-ECT  |
|   | 3.0 kW                         | R88D-KN30F-ECT  |
|   | 5.0 kW                         | R88D-KN50F-ECT  |
| 7.5 kW                                  | R88D-KN75F-ECT                 |                 |
| 15.0 kW                                 | R88D-KN150F-ECT                |                 |

**Note:** When connecting a Servo Drive to the NJ5 series Machine Automation Controller, it is recommended that you use the Servo Drive with Built-in EtherCAT Communications, R88D-KN□□□-ECT, with unit version 2.1 or later.

#### General-purpose Inputs (Analog input/Pulse train input type)

| Specifications                          |                                | Model       |
|---|--------------------------------|-------------|
| Power Supply Voltage                    | Applicable Servomotor Capacity |             |
| Single-phase<br>100 VAC                 | 50 W                           | R88D-KTA5L  |
|   | 100 W                          | R88D-KT01L  |
|   | 200 W                          | R88D-KT02L  |
|   | 400 W                          | R88D-KT04L  |
| Single-phase/<br>Three-phase<br>200 VAC | 100 W                          | R88D-KT01H  |
|   | 200 W                          | R88D-KT02H  |
|   | 400 W                          | R88D-KT04H  |
|   | 750 W                          | R88D-KT08H  |
|   | 1.0 kW                         | R88D-KT10H  |
| Three-phase<br>200 VAC                  | 1.5 kW                         | R88D-KT15H  |
|   | 2.0 kW                         | R88D-KT20H  |
|   | 3.0 kW                         | R88D-KT30H  |
|   | 5.0 kW                         | R88D-KT50H  |
|   | 7.5 kW                         | R88D-KT75H  |
| Three-phase<br>400 VAC                  | 15.0 kW                        | R88D-KT150H |
|   | 600 W                          | R88D-KT06F  |
|   | 1.0 kW                         | R88D-KT10F  |
|   | 1.5 kW                         | R88D-KT15F  |
|   | 2.0 kW                         | R88D-KT20F  |
|   | 3.0 kW                         | R88D-KT30F  |
|   | 5.0 kW                         | R88D-KT50F  |
| 7.5 kW                                  | R88D-KT75F                     |             |
| 15.0 kW                                 | R88D-KT150F                    |             |

#### Linear Motor with built-in EtherCAT communications

**NEW**

| Specifications                          |                                | Model            |
|---|--------------------------------|------------------|
| Power Supply Voltage                    | Applicable Servomotor Capacity |                  |
| Single-phase<br>100 VAC                 | 100 W                          | R88D-KN01L-ECT-L |
|   | 200 W                          | R88D-KN02L-ECT-L |
|   | 400 W                          | R88D-KN04L-ECT-L |
| Single-phase/<br>Three-phase<br>200 VAC | 100 W                          | R88D-KN01H-ECT-L |
|   | 200 W                          | R88D-KN02H-ECT-L |
|   | 400 W                          | R88D-KN04H-ECT-L |
|   | 750 W                          | R88D-KN08H-ECT-L |
|   | 1.0 kW                         | R88D-KN10H-ECT-L |
| Three-phase<br>400 VAC                  | 1.5 kW                         | R88D-KN15H-ECT-L |
|   | 600 W                          | R88D-KN06F-ECT-L |
|   | 1.0 kW                         | R88D-KN10F-ECT-L |
|   | 1.5 kW                         | R88D-KN15F-ECT-L |
|   | 2.0 kW                         | R88D-KN20F-ECT-L |
| 3.0 kW                                  | R88D-KN30F-ECT-L               |                  |

#### MECHATROLINK-II Communications

| Specifications                          |                                | Model          |
|---|--------------------------------|----------------|
| Power Supply Voltage                    | Applicable Servomotor Capacity |                |
| Single-phase<br>100 VAC                 | 50 W                           | R88D-KNA5L-ML2 |
|   | 100 W                          | R88D-KN01L-ML2 |
|   | 200 W                          | R88D-KN02L-ML2 |
| Single-phase/<br>Three-phase<br>200 VAC | 400 W                          | R88D-KN04L-ML2 |
|   | 100 W                          | R88D-KN01H-ML2 |
|   | 200 W                          | R88D-KN02H-ML2 |
|   | 400 W                          | R88D-KN04H-ML2 |
|   | 750 W                          | R88D-KN08H-ML2 |
| Three-phase<br>200 VAC                  | 1.0 kW                         | R88D-KN10H-ML2 |
|   | 1.5 kW                         | R88D-KN15H-ML2 |
|   | 2.0 kW                         | R88D-KN20H-ML2 |
|   | 3.0 kW                         | R88D-KN30H-ML2 |
|   | 5.0 kW                         | R88D-KN50H-ML2 |
| Three-phase<br>400 VAC                  | 600 W                          | R88D-KN06F-ML2 |
|   | 1.0 kW                         | R88D-KN10F-ML2 |
|   | 1.5 kW                         | R88D-KN15F-ML2 |
|   | 2.0 kW                         | R88D-KN20F-ML2 |
|   | 3.0 kW                         | R88D-KN30F-ML2 |
|   | 5.0 kW                         | R88D-KN50F-ML2 |

#### Pulse Train Input Type

| Specifications                          |                                | Model      |
|---|--------------------------------|------------|
| Power Supply Voltage                    | Applicable Servomotor Capacity |            |
| Single-phase/<br>Three-phase<br>200 VAC | 100 W                          | R88D-KP01H |
|   | 200 W                          | R88D-KP02H |
|   | 400 W                          | R88D-KP04H |
|   | 750 W                          | R88D-KP08H |
|   | 1.0 kW                         | R88D-KP10H |
| Three-phase<br>200 VAC                  | 1.5 kW                         | R88D-KP15H |
|   | 2.0 kW                         | R88D-KP20H |
|   | 3.0 kW                         | R88D-KP30H |
|   | 5.0 kW                         | R88D-KP50H |



## AC Servomotors

### <Cylinder Type> 3,000-r/min servomotors

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 3,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                  |                  | Model                           |                  |
|----------------|------------------|------------------|---------------------------------|------------------|
|                |                  |                  | With incremental encoder        |                  |
| Voltage        |                  |                  | Straight shaft with key and tap |                  |
|                |                  |                  | Without oil seals               |                  |
| Rated output   | 100 V            | 50 W             | R88M-K05030H-S2                 |                  |
|                |                  | 100 W            | R88M-K10030L-S2                 |                  |
| 200 W          | R88M-K20030L-S2  |                  |                                 |                  |
|                | 400 W            | R88M-K40030L-S2  |                                 |                  |
| 200 V          | 50 W             | R88M-K05030H-S2  |                                 |                  |
|                | 100 W            | R88M-K10030H-S2  |                                 |                  |
|                | 200 W            | R88M-K20030H-S2  |                                 |                  |
|                | 400 W            | R88M-K40030H-S2  |                                 |                  |
|                | 750 W            | R88M-K75030H-S2  |                                 |                  |
|                | 1.0 kW           | R88M-K1K030H-S2  |                                 |                  |
|                | 1.5 kW           | R88M-K1K530H-S2  |                                 |                  |
|                | 2.0 kW           | R88M-K2K030H-S2  |                                 |                  |
|                | 3.0 kW           | R88M-K3K030H-S2  |                                 |                  |
|                | 4.0 kW           | R88M-K4K030H-S2  |                                 |                  |
| 400 V          | 5.0 kW           | R88M-K5K030H-S2  |                                 |                  |
|                | 750 W            | R88M-K75030F-S2  |                                 |                  |
|                | 1.0 kW           | R88M-K1K030F-S2  |                                 |                  |
|                | 1.5 kW           | R88M-K1K530F-S2  |                                 |                  |
|                | 2.0 kW           | R88M-K2K030F-S2  |                                 |                  |
|                | 3.0 kW           | R88M-K3K030F-S2  |                                 |                  |
| Without brake  | 100 V            | 4.0 kW           | R88M-K4K030F-S2                 |                  |
|                |                  | 5.0 kW           | R88M-K5K030F-S2                 |                  |
|                |                  | 200 V            | 750 W                           | R88M-K05030H-BS2 |
|                |                  |                  | 100 W                           | R88M-K10030L-BS2 |
|                | 200 W            |                  | R88M-K20030L-BS2                |                  |
|                | 400 W            |                  | R88M-K40030L-BS2                |                  |
|                | 200 V            |                  | 50 W                            | R88M-K05030H-BS2 |
|                |                  |                  | 100 W                           | R88M-K10030H-BS2 |
|                |                  | 200 W            | R88M-K20030H-BS2                |                  |
|                |                  | 400 W            | R88M-K40030H-BS2                |                  |
| 750 W          |                  | R88M-K75030H-BS2 |                                 |                  |
| 1.0 kW         |                  | R88M-K1K030H-BS2 |                                 |                  |
| 1.5 kW         | R88M-K1K530H-BS2 |                  |                                 |                  |
| 2.0 kW         | R88M-K2K030H-BS2 |                  |                                 |                  |
| 3.0 kW         | R88M-K3K030H-BS2 |                  |                                 |                  |
| 4.0 kW         | R88M-K4K030H-BS2 |                  |                                 |                  |
| 5.0 kW         | R88M-K5K030H-BS2 |                  |                                 |                  |
| With brake     | 400 V            | 750 W            | R88M-K75030F-BS2                |                  |
|                |                  | 1.0 kW           | R88M-K1K030F-BS2                |                  |
|                |                  | 1.5 kW           | R88M-K1K530F-BS2                |                  |
|                |                  | 2.0 kW           | R88M-K2K030F-BS2                |                  |
|                |                  | 3.0 kW           | R88M-K3K030F-BS2                |                  |
|                |                  | 4.0 kW           | R88M-K4K030F-BS2                |                  |
|                | 400 V            | 5.0 kW           | R88M-K5K030F-BS2                |                  |
|                |                  | 750 W            | R88M-K05030H-B                  |                  |
|                |                  | 100 W            | R88M-K10030L-B                  |                  |
|                |                  | 200 W            | R88M-K20030L-B                  |                  |
| Without brake  | 100 V            | 400 W            | R88M-K40030L-B                  |                  |
|                |                  | 200 V            | 50 W                            | R88M-K05030H-B   |
|                |                  |                  | 100 W                           | R88M-K10030H-B   |
|                |                  |                  | 200 W                           | R88M-K20030H-B   |
|                | 400 W            |                  | R88M-K40030H-B                  |                  |
|                | 750 W            |                  | R88M-K75030H-B                  |                  |
|                | 1.0 kW           |                  | R88M-K1K030H-B                  |                  |
|                | 1.5 kW           | R88M-K1K530H-B   |                                 |                  |
|                | 2.0 kW           | R88M-K2K030H-B   |                                 |                  |
|                | 3.0 kW           | R88M-K3K030H-B   |                                 |                  |
| 4.0 kW         | R88M-K4K030H-B   |                  |                                 |                  |
| 5.0 kW         | R88M-K5K030H-B   |                  |                                 |                  |
| With brake     | 200 V            | 750 W            | R88M-K75030F-B                  |                  |
|                |                  | 1.0 kW           | R88M-K1K030F-B                  |                  |
|                |                  | 1.5 kW           | R88M-K1K530F-B                  |                  |
|                |                  | 2.0 kW           | R88M-K2K030F-B                  |                  |
|                |                  | 3.0 kW           | R88M-K3K030F-B                  |                  |
|                |                  | 4.0 kW           | R88M-K4K030F-B                  |                  |
|                | 400 V            | 5.0 kW           | R88M-K5K030F-B                  |                  |
|                |                  | 750 W            | R88M-K05030H-B                  |                  |
|                |                  | 100 W            | R88M-K10030L-B                  |                  |
|                |                  | 200 W            | R88M-K20030L-B                  |                  |
| Without brake  | 100 V            | 400 W            | R88M-K40030L-B                  |                  |
|                |                  | 200 V            | 50 W                            | R88M-K05030H-B   |
|                |                  |                  | 100 W                           | R88M-K10030H-B   |
|                |                  |                  | 200 W                           | R88M-K20030H-B   |
|                | 400 W            |                  | R88M-K40030H-B                  |                  |
|                | 750 W            |                  | R88M-K75030H-B                  |                  |
|                | 1.0 kW           |                  | R88M-K1K030H-B                  |                  |
|                | 1.5 kW           | R88M-K1K530H-B   |                                 |                  |
|                | 2.0 kW           | R88M-K2K030H-B   |                                 |                  |
|                | 3.0 kW           | R88M-K3K030H-B   |                                 |                  |
| 4.0 kW         | R88M-K4K030H-B   |                  |                                 |                  |
| 5.0 kW         | R88M-K5K030H-B   |                  |                                 |                  |
| With brake     | 200 V            | 750 W            | R88M-K75030F-B                  |                  |
|                |                  | 1.0 kW           | R88M-K1K030F-B                  |                  |
|                |                  | 1.5 kW           | R88M-K1K530F-B                  |                  |
|                |                  | 2.0 kW           | R88M-K2K030F-B                  |                  |
|                |                  | 3.0 kW           | R88M-K3K030F-B                  |                  |
|                |                  | 4.0 kW           | R88M-K4K030F-B                  |                  |
|                | 400 V            | 5.0 kW           | R88M-K5K030F-B                  |                  |
|                |                  | 750 W            | R88M-K05030H-B                  |                  |
|                |                  | 100 W            | R88M-K10030L-B                  |                  |
|                |                  | 200 W            | R88M-K20030L-B                  |                  |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 3,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                |                | Model                      |                |
|----------------|----------------|----------------|----------------------------|----------------|
|                |                |                | With incremental encoder   |                |
| Voltage        |                |                | Straight shaft without key |                |
|                |                |                | Without oil seals          |                |
| Rated output   | 100 V          | 50 W           | R88M-K05030H               |                |
|                |                | 100 W          | R88M-K10030L               |                |
| 200 W          | R88M-K20030L   |                |                            |                |
|                | 400 W          | R88M-K40030L   |                            |                |
| 200 V          | 50 W           | R88M-K05030H   |                            |                |
|                | 100 W          | R88M-K10030H   |                            |                |
|                | 200 W          | R88M-K20030H   |                            |                |
|                | 400 W          | R88M-K40030H   |                            |                |
|                | 750 W          | R88M-K75030H   |                            |                |
|                | 1.0 kW         | R88M-K1K030H   |                            |                |
|                | 1.5 kW         | R88M-K1K530H   |                            |                |
|                | 2.0 kW         | R88M-K2K030H   |                            |                |
|                | 3.0 kW         | R88M-K3K030H   |                            |                |
|                | 4.0 kW         | R88M-K4K030H   |                            |                |
| 400 V          | 5.0 kW         | R88M-K5K030H   |                            |                |
|                | 750 W          | R88M-K75030F   |                            |                |
|                | 1.0 kW         | R88M-K1K030F   |                            |                |
|                | 1.5 kW         | R88M-K1K530F   |                            |                |
|                | 2.0 kW         | R88M-K2K030F   |                            |                |
|                | 3.0 kW         | R88M-K3K030F   |                            |                |
| Without brake  | 100 V          | 4.0 kW         | R88M-K4K030F               |                |
|                |                | 5.0 kW         | R88M-K5K030F               |                |
|                |                | 200 V          | 750 W                      | R88M-K05030H-B |
|                |                |                | 100 W                      | R88M-K10030L-B |
|                | 200 W          |                | R88M-K20030L-B             |                |
|                | 400 W          |                | R88M-K40030L-B             |                |
|                | 200 V          |                | 50 W                       | R88M-K05030H-B |
|                |                |                | 100 W                      | R88M-K10030H-B |
|                |                | 200 W          | R88M-K20030H-B             |                |
|                |                | 400 W          | R88M-K40030H-B             |                |
| 750 W          |                | R88M-K75030H-B |                            |                |
| 1.0 kW         |                | R88M-K1K030H-B |                            |                |
| 1.5 kW         | R88M-K1K530H-B |                |                            |                |
| 2.0 kW         | R88M-K2K030H-B |                |                            |                |
| 3.0 kW         | R88M-K3K030H-B |                |                            |                |
| 4.0 kW         | R88M-K4K030H-B |                |                            |                |
| 5.0 kW         | R88M-K5K030H-B |                |                            |                |
| With brake     | 200 V          | 750 W          | R88M-K75030F-B             |                |
|                |                | 1.0 kW         | R88M-K1K030F-B             |                |
|                |                | 1.5 kW         | R88M-K1K530F-B             |                |
|                |                | 2.0 kW         | R88M-K2K030F-B             |                |
|                |                | 3.0 kW         | R88M-K3K030F-B             |                |
|                |                | 4.0 kW         | R88M-K4K030F-B             |                |
|                | 400 V          | 5.0 kW         | R88M-K5K030F-B             |                |
|                |                | 750 W          | R88M-K05030H-B             |                |
|                |                | 100 W          | R88M-K10030L-B             |                |
|                |                | 200 W          | R88M-K20030L-B             |                |

Note: Models with oil seals are also available.

# AC Servomotor/Drive G5-series

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 3,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |               |                  | Model                          |                 |
|----------------|---------------|------------------|--------------------------------|-----------------|
|                |               |                  | With absolute encoder          |                 |
|                |               |                  | Straight shaft withkey and tap |                 |
|                | Voltage       | Rated output     | Without oil seals              |                 |
|                | Without brake | 100 V            | 50 W                           | R88M-K05030T-S2 |
| 100 W          |               |                  | R88M-K10030S-S2                |                 |
| 200 W          |               |                  | R88M-K20030S-S2                |                 |
| 400 W          |               |                  | R88M-K40030S-S2                |                 |
| 200 V          |               | 50 W             | R88M-K05030T-S2                |                 |
|                |               | 100 W            | R88M-K10030T-S2                |                 |
|                |               | 200 W            | R88M-K20030T-S2                |                 |
|                |               | 400 W            | R88M-K40030T-S2                |                 |
|                |               | 750 W            | R88M-K75030T-S2                |                 |
|                |               | 1.0 kW           | R88M-K1K030T-S2                |                 |
|                |               | 1.5 kW           | R88M-K1K530T-S2                |                 |
|                |               | 2.0 kW           | R88M-K2K030T-S2                |                 |
| 400 V          | 3.0 kW        | R88M-K3K030T-S2  |                                |                 |
|                | 4.0 kW        | R88M-K4K030T-S2  |                                |                 |
|                | 5.0 kW        | R88M-K5K030T-S2  |                                |                 |
|                | 750 W         | R88M-K75030C-S2  |                                |                 |
|                | 1.0 kW        | R88M-K1K030C-S2  |                                |                 |
|                | 1.5 kW        | R88M-K1K530C-S2  |                                |                 |
| With brake     | 100 V         | 50 W             | R88M-K05030T-BS2               |                 |
|                |               | 100 W            | R88M-K10030S-BS2               |                 |
|                |               | 200 W            | R88M-K20030S-BS2               |                 |
|                |               | 400 W            | R88M-K40030S-BS2               |                 |
|                | 200 V         | 50 W             | R88M-K05030T-BS2               |                 |
|                |               | 100 W            | R88M-K10030T-BS2               |                 |
|                |               | 200 W            | R88M-K20030T-BS2               |                 |
|                |               | 400 W            | R88M-K40030T-BS2               |                 |
|                |               | 750 W            | R88M-K75030T-BS2               |                 |
|                |               | 1.0 kW           | R88M-K1K030T-BS2               |                 |
|                |               | 1.5 kW           | R88M-K1K530T-BS2               |                 |
|                |               | 2.0 kW           | R88M-K2K030T-BS2               |                 |
| 400 V          | 3.0 kW        | R88M-K3K030T-BS2 |                                |                 |
|                | 4.0 kW        | R88M-K4K030T-BS2 |                                |                 |
|                | 5.0 kW        | R88M-K5K030T-BS2 |                                |                 |
|                | 750 W         | R88M-K75030C-BS2 |                                |                 |
|                | 1.0 kW        | R88M-K1K030C-BS2 |                                |                 |
|                | 1.5 kW        | R88M-K1K530C-BS2 |                                |                 |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 3,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |               |                | Model                      |              |
|----------------|---------------|----------------|----------------------------|--------------|
|                |               |                | With absolute encoder      |              |
|                |               |                | Straight shaft without key |              |
|                | Voltage       | Rated output   | Without oil seals          |              |
|                | Without brake | 100 V          | 50 W                       | R88M-K05030T |
| 100 W          |               |                | R88M-K10030S               |              |
| 200 W          |               |                | R88M-K20030S               |              |
| 400 W          |               |                | R88M-K40030S               |              |
| 200 V          |               | 50 W           | R88M-K05030T               |              |
|                |               | 100 W          | R88M-K10030T               |              |
|                |               | 200 W          | R88M-K20030T               |              |
|                |               | 400 W          | R88M-K40030T               |              |
|                |               | 750 W          | R88M-K75030T               |              |
|                |               | 1.0 kW         | R88M-K1K030T               |              |
|                |               | 1.5 kW         | R88M-K1K530T               |              |
|                |               | 2.0 kW         | R88M-K2K030T               |              |
| 400 V          | 3.0 kW        | R88M-K3K030T   |                            |              |
|                | 4.0 kW        | R88M-K4K030T   |                            |              |
|                | 5.0 kW        | R88M-K5K030T   |                            |              |
|                | 750 W         | R88M-K75030C   |                            |              |
|                | 1.0 kW        | R88M-K1K030C   |                            |              |
|                | 1.5 kW        | R88M-K1K530C   |                            |              |
| With brake     | 100 V         | 50 W           | R88M-K05030T-B             |              |
|                |               | 100 W          | R88M-K10030S-B             |              |
|                |               | 200 W          | R88M-K20030S-B             |              |
|                |               | 400 W          | R88M-K40030S-B             |              |
|                | 200 V         | 50 W           | R88M-K05030T-B             |              |
|                |               | 100 W          | R88M-K10030T-B             |              |
|                |               | 200 W          | R88M-K20030T-B             |              |
|                |               | 400 W          | R88M-K40030T-B             |              |
|                |               | 750 W          | R88M-K75030T-B             |              |
|                |               | 1.0 kW         | R88M-K1K030T-B             |              |
|                |               | 1.5 kW         | R88M-K1K530T-B             |              |
|                |               | 2.0 kW         | R88M-K2K030T-B             |              |
| 400 V          | 3.0 kW        | R88M-K3K030T-B |                            |              |
|                | 4.0 kW        | R88M-K4K030T-B |                            |              |
|                | 5.0 kW        | R88M-K5K030T-B |                            |              |
|                | 750 W         | R88M-K75030C-B |                            |              |
|                | 1.0 kW        | R88M-K1K030C-B |                            |              |
|                | 1.5 kW        | R88M-K1K530C-B |                            |              |

Note: Models with oil seals are also available.

2,000-r/min servomotors

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 2,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                 |                  | Model                           |       |
|----------------|-----------------|------------------|---------------------------------|-------|
|                |                 |                  | With incremental encoder        |       |
|                |                 |                  | Straight shaft with key and tap |       |
|                | Voltage         | Rated output     | Without oil seals               |       |
|                |                 |                  | Without brake                   | 200 V |
| 1.5 kW         | R88M-K1K520H-S2 |                  |                                 |       |
| 2.0 kW         | R88M-K2K020H-S2 |                  |                                 |       |
| 3.0 kW         | R88M-K3K020H-S2 |                  |                                 |       |
| 4.0 kW         | R88M-K4K020H-S2 |                  |                                 |       |
| 5.0 kW         | R88M-K5K020H-S2 |                  |                                 |       |
| 400 V          | 400 W           | R88M-K40020F-S2  |                                 |       |
|                | 600 W           | R88M-K60020F-S2  |                                 |       |
|                | 1.0 kW          | R88M-K1K020F-S2  |                                 |       |
|                | 1.5 kW          | R88M-K1K520F-S2  |                                 |       |
|                | 2.0 kW          | R88M-K2K020F-S2  |                                 |       |
| With brake     | 200 V           | 1.0 kW           | R88M-K1K020H-BS2                |       |
|                |                 | 1.5 kW           | R88M-K1K520H-BS2                |       |
|                |                 | 2.0 kW           | R88M-K2K020H-BS2                |       |
|                |                 | 3.0 kW           | R88M-K3K020H-BS2                |       |
|                |                 | 4.0 kW           | R88M-K4K020H-BS2                |       |
|                | 5.0 kW          | R88M-K5K020H-BS2 |                                 |       |
|                | 400 V           | 400 W            | R88M-K40020F-BS2                |       |
|                |                 | 600 W            | R88M-K60020F-BS2                |       |
|                |                 | 1.0 kW           | R88M-K1K020F-BS2                |       |
|                |                 | 1.5 kW           | R88M-K1K520F-BS2                |       |
| 2.0 kW         |                 | R88M-K2K020F-BS2 |                                 |       |
|                | 400 V           | 3.0 kW           | R88M-K3K020F-BS2                |       |
|                |                 | 4.0 kW           | R88M-K4K020F-BS2                |       |
|                |                 | 5.0 kW           | R88M-K5K020F-BS2                |       |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 2,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |              |                | Model                      |       |
|----------------|--------------|----------------|----------------------------|-------|
|                |              |                | With incremental encoder   |       |
|                |              |                | Straight shaft without key |       |
|                | Voltage      | Rated output   | Without oil seals          |       |
|                |              |                | Without brake              | 200 V |
| 1.5 kW         | R88M-K1K520H |                |                            |       |
| 2.0 kW         | R88M-K2K020H |                |                            |       |
| 3.0 kW         | R88M-K3K020H |                |                            |       |
| 4.0 kW         | R88M-K4K020H |                |                            |       |
| 5.0 kW         | R88M-K5K020H |                |                            |       |
| 400 V          | 400 W        | R88M-K40020F   |                            |       |
|                | 600 W        | R88M-K60020F   |                            |       |
|                | 1.0 kW       | R88M-K1K020F   |                            |       |
|                | 1.5 kW       | R88M-K1K520F   |                            |       |
|                | 2.0 kW       | R88M-K2K020F   |                            |       |
| With brake     | 200 V        | 1.0 kW         | R88M-K1K020H-B             |       |
|                |              | 1.5 kW         | R88M-K1K520H-B             |       |
|                |              | 2.0 kW         | R88M-K2K020H-B             |       |
|                |              | 3.0 kW         | R88M-K3K020H-B             |       |
|                |              | 4.0 kW         | R88M-K4K020H-B             |       |
|                | 5.0 kW       | R88M-K5K020H-B |                            |       |
|                | 400 V        | 400 W          | R88M-K40020F-B             |       |
|                |              | 600 W          | R88M-K60020F-B             |       |
|                |              | 1.0 kW         | R88M-K1K020F-B             |       |
|                |              | 1.5 kW         | R88M-K1K520F-B             |       |
| 2.0 kW         |              | R88M-K2K020F-B |                            |       |
|                | 400 V        | 3.0 kW         | R88M-K3K020F-B             |       |
|                |              | 4.0 kW         | R88M-K4K020F-B             |       |
|                |              | 5.0 kW         | R88M-K5K020F-B             |       |

Note: Models with oil seals are also available.

# AC Servomotor/Drive G5-series

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 2,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                     |         | Model                           |  |
|----------------|---------------------|---------|---------------------------------|--|
|                |                     |         | With absolute encoder           |  |
| Voltage        |                     |         | Straight shaft with key and tap |  |
|                |                     |         | Without oil seals               |  |
| Without brake  | 200 V               | 1.0 kW  | R88M-K1K020T-S2                 |  |
|                |                     | 1.5 kW  | R88M-K1K520T-S2                 |  |
|                |                     | 2.0 kW  | R88M-K2K020T-S2                 |  |
|                |                     | 3.0 kW  | R88M-K3K020T-S2                 |  |
|                |                     | 4.0 kW  | R88M-K4K020T-S2                 |  |
|                |                     | 5.0 kW  | R88M-K5K020T-S2                 |  |
|                |                     | 7.5 kW  | R88M-K7K515T-S2 *               |  |
|                |                     | 11.0 kW | R88M-K11K015T-S2 *              |  |
|                |                     | 15.0 kW | R88M-K15K015T-S2 *              |  |
|                | 400 V               | 400 W   | R88M-K40020C-S2                 |  |
|                |                     | 600 W   | R88M-K60020C-S2                 |  |
|                |                     | 1.0 kW  | R88M-K1K020C-S2                 |  |
|                |                     | 1.5 kW  | R88M-K1K520C-S2                 |  |
|                |                     | 2.0 kW  | R88M-K2K020C-S2                 |  |
|                |                     | 3.0 kW  | R88M-K3K020C-S2                 |  |
|                |                     | 4.0 kW  | R88M-K4K020C-S2                 |  |
|                |                     | 5.0 kW  | R88M-K5K020C-S2                 |  |
|                |                     | 7.5 kW  | R88M-K7K515C-S2 *               |  |
| 11.0 kW        | R88M-K11K015C-S2 *  |         |                                 |  |
| 15.0 kW        | R88M-K15K015C-S2 *  |         |                                 |  |
| With brake     | 200 V               | 1.0 kW  | R88M-K1K020T-BS2                |  |
|                |                     | 1.5 kW  | R88M-K1K520T-BS2                |  |
|                |                     | 2.0 kW  | R88M-K2K020T-BS2                |  |
|                |                     | 3.0 kW  | R88M-K3K020T-BS2                |  |
|                |                     | 4.0 kW  | R88M-K4K020T-BS2                |  |
|                |                     | 5.0 kW  | R88M-K5K020T-BS2                |  |
|                |                     | 7.5 kW  | R88M-K7K515T-BS2 *              |  |
|                |                     | 11.0 kW | R88M-K11K015T-BS2 *             |  |
|                |                     | 15.0 kW | R88M-K15K015T-BS2 *             |  |
|                | 400 V               | 400 W   | R88M-K40020C-BS2                |  |
|                |                     | 600 W   | R88M-K60020C-BS2                |  |
|                |                     | 1.0 kW  | R88M-K1K020C-BS2                |  |
|                |                     | 1.5 kW  | R88M-K1K520C-BS2                |  |
|                |                     | 2.0 kW  | R88M-K2K020C-BS2                |  |
|                |                     | 3.0 kW  | R88M-K3K020C-BS2                |  |
|                |                     | 4.0 kW  | R88M-K4K020C-BS2                |  |
|                |                     | 5.0 kW  | R88M-K5K020C-BS2                |  |
|                |                     | 7.5 kW  | R88M-K7K515C-BS2 *              |  |
| 11.0 kW        | R88M-K11K015C-BS2 * |         |                                 |  |
| 15.0 kW        | R88M-K15K015C-BS2 * |         |                                 |  |

**Note:** Models with oil seals are also available.  
\* The rated speed is 1,500 r/min.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 2,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                   |         | Model                      |  |
|----------------|-------------------|---------|----------------------------|--|
|                |                   |         | With absolute encoder      |  |
| Voltage        |                   |         | Straight shaft without key |  |
|                |                   |         | Without oil seals          |  |
| Without brake  | 200 V             | 1.0 kW  | R88M-K1K020T               |  |
|                |                   | 1.5 kW  | R88M-K1K520T               |  |
|                |                   | 2.0 kW  | R88M-K2K020T               |  |
|                |                   | 3.0 kW  | R88M-K3K020T               |  |
|                |                   | 4.0 kW  | R88M-K4K020T               |  |
|                |                   | 5.0 kW  | R88M-K5K020T               |  |
|                |                   | 7.5 kW  | R88M-K7K515T *             |  |
|                |                   | 11.0 kW | R88M-K11K015T *            |  |
|                |                   | 15.0 kW | R88M-K15K015T *            |  |
|                | 400 V             | 400 W   | R88M-K40020C               |  |
|                |                   | 600 W   | R88M-K60020C               |  |
|                |                   | 1.0 kW  | R88M-K1K020C               |  |
|                |                   | 1.5 kW  | R88M-K1K520C               |  |
|                |                   | 2.0 kW  | R88M-K2K020C               |  |
|                |                   | 3.0 kW  | R88M-K3K020C               |  |
|                |                   | 4.0 kW  | R88M-K4K020C               |  |
|                |                   | 5.0 kW  | R88M-K5K020C               |  |
|                |                   | 7.5 kW  | R88M-K7K515C *             |  |
| 11.0 kW        | R88M-K11K015C *   |         |                            |  |
| 15.0 kW        | R88M-K15K015C *   |         |                            |  |
| With brake     | 200 V             | 1.0 kW  | R88M-K1K020T-B             |  |
|                |                   | 1.5 kW  | R88M-K1K520T-B             |  |
|                |                   | 2.0 kW  | R88M-K2K020T-B             |  |
|                |                   | 3.0 kW  | R88M-K3K020T-B             |  |
|                |                   | 4.0 kW  | R88M-K4K020T-B             |  |
|                |                   | 5.0 kW  | R88M-K5K020T-B             |  |
|                |                   | 7.5 kW  | R88M-K7K515T-B *           |  |
|                |                   | 11.0 kW | R88M-K11K015T-B *          |  |
|                |                   | 15.0 kW | R88M-K15K015T-B *          |  |
|                | 400 V             | 400 W   | R88M-K40020C-B             |  |
|                |                   | 600 W   | R88M-K60020C-B             |  |
|                |                   | 1.0 kW  | R88M-K1K020C-B             |  |
|                |                   | 1.5 kW  | R88M-K1K520C-B             |  |
|                |                   | 2.0 kW  | R88M-K2K020C-B             |  |
|                |                   | 3.0 kW  | R88M-K3K020C-B             |  |
|                |                   | 4.0 kW  | R88M-K4K020C-B             |  |
|                |                   | 5.0 kW  | R88M-K5K020C-B             |  |
|                |                   | 7.5 kW  | R88M-K7K515C-B *           |  |
| 11.0 kW        | R88M-K11K015C-B * |         |                            |  |
| 15.0 kW        | R88M-K15K015C-B * |         |                            |  |

**Note:** Models with oil seals are also available.  
\* The rated speed is 1,500 r/min.



1,000-r/min servomotors

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 1,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |         |              | Model                           |  |
|----------------|---------|--------------|---------------------------------|--|
|                |         |              | With incremental encoder        |  |
|                |         |              | Straight shaft with key and tap |  |
|                | Voltage | Rated output | Without oil seals               |  |
| Without brake  | 200 V   | 900 W        | R88M-K90010H-S2                 |  |
|                |         | 2.0 kW       | R88M-K2K010H-S2                 |  |
|                |         | 3.0 kW       | R88M-K3K010H-S2                 |  |
|                | 400 V   | 900 W        | R88M-K90010F-S2                 |  |
|                |         | 2.0 kW       | R88M-K2K010F-S2                 |  |
|                |         | 3.0 kW       | R88M-K3K010F-S2                 |  |
| With brake     | 200 V   | 900 W        | R88M-K90010H-BS2                |  |
|                |         | 2.0 kW       | R88M-K2K010H-BS2                |  |
|                |         | 3.0 kW       | R88M-K3K010H-BS2                |  |
|                | 400 V   | 900 W        | R88M-K90010F-BS2                |  |
|                |         | 2.0 kW       | R88M-K2K010F-BS2                |  |
|                |         | 3.0 kW       | R88M-K3K010F-BS2                |  |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 1,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |         |              | Model                      |  |
|----------------|---------|--------------|----------------------------|--|
|                |         |              | With incremental encoder   |  |
|                |         |              | Straight shaft without key |  |
|                | Voltage | Rated output | Without oil seals          |  |
| Without brake  | 200 V   | 900 W        | R88M-K90010H               |  |
|                |         | 2.0 kW       | R88M-K2K010H               |  |
|                |         | 3.0 kW       | R88M-K3K010H               |  |
|                | 400 V   | 900 W        | R88M-K90010F               |  |
|                |         | 2.0 kW       | R88M-K2K010F               |  |
|                |         | 3.0 kW       | R88M-K3K010F               |  |
| With brake     | 200 V   | 900 W        | R88M-K90010H-B             |  |
|                |         | 2.0 kW       | R88M-K2K010H-B             |  |
|                |         | 3.0 kW       | R88M-K3K010H-B             |  |
|                | 400 V   | 900 W        | R88M-K90010F-B             |  |
|                |         | 2.0 kW       | R88M-K2K010F-B             |  |
|                |         | 3.0 kW       | R88M-K3K010F-B             |  |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 1,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                  |                  | Model                           |                  |                  |  |
|----------------|------------------|------------------|---------------------------------|------------------|------------------|--|
|                |                  |                  | With absolute encoder           |                  |                  |  |
|                |                  |                  | Straight shaft with key and tap |                  |                  |  |
|                | Voltage          | Rated output     | Without oil seals               |                  |                  |  |
| Without brake  | 200 V            | 900 W            | R88M-K90010T-S2                 |                  |                  |  |
|                |                  | 2.0 kW           | R88M-K2K010T-S2                 |                  |                  |  |
|                |                  | 3.0 kW           | R88M-K3K010T-S2                 |                  |                  |  |
|                |                  | 4.5 kW           | R88M-K4K510T-S2                 |                  |                  |  |
|                |                  | 6.0 kW           | R88M-K6K010T-S2                 |                  |                  |  |
|                |                  | 900 W            | R88M-K90010C-S2                 |                  |                  |  |
|                | 400 V            | 2.0 kW           | R88M-K2K010C-S2                 |                  |                  |  |
|                |                  | 3.0 kW           | R88M-K3K010C-S2                 |                  |                  |  |
|                |                  | 4.5 kW           | R88M-K4K510C-S2                 |                  |                  |  |
|                |                  | 6.0 kW           | R88M-K6K010C-S2                 |                  |                  |  |
|                |                  | With brake       | 200 V                           | 900 W            | R88M-K90010T-BS2 |  |
|                |                  |                  |                                 | 2.0 kW           | R88M-K2K010T-BS2 |  |
| 3.0 kW         | R88M-K3K010T-BS2 |                  |                                 |                  |                  |  |
| 4.5 kW         | R88M-K4K510T-BS2 |                  |                                 |                  |                  |  |
| 6.0 kW         | R88M-K6K010T-BS2 |                  |                                 |                  |                  |  |
| 400 V          | 900 W            |                  |                                 | R88M-K90010C-BS2 |                  |  |
|                | 2.0 kW           | R88M-K2K010C-BS2 |                                 |                  |                  |  |
|                | 3.0 kW           | R88M-K3K010C-BS2 |                                 |                  |                  |  |
|                | 4.5 kW           | R88M-K4K510C-BS2 |                                 |                  |                  |  |
|                | 6.0 kW           | R88M-K6K010C-BS2 |                                 |                  |                  |  |

Note: Models with oil seals are also available.

| Rotation speed | Encoder | Option      |
|----------------|---------|-------------|
| 1,000 r/min    | INC     | Without key |
|                | ABS/INC | With key    |

| Specifications |                |                | Model                      |                |                |  |
|----------------|----------------|----------------|----------------------------|----------------|----------------|--|
|                |                |                | With absolute encoder      |                |                |  |
|                |                |                | Straight shaft without key |                |                |  |
|                | Voltage        | Rated output   | Without oil seals          |                |                |  |
| Without brake  | 200 V          | 900 W          | R88M-K90010T               |                |                |  |
|                |                | 2.0 kW         | R88M-K2K010T               |                |                |  |
|                |                | 3.0 kW         | R88M-K3K010T               |                |                |  |
|                |                | 4.5 kW         | R88M-K4K510T               |                |                |  |
|                |                | 6.0 kW         | R88M-K6K010T               |                |                |  |
|                |                | 900 W          | R88M-K90010C               |                |                |  |
|                | 400 V          | 2.0 kW         | R88M-K2K010C               |                |                |  |
|                |                | 3.0 kW         | R88M-K3K010C               |                |                |  |
|                |                | 4.5 kW         | R88M-K4K510C               |                |                |  |
|                |                | 6.0 kW         | R88M-K6K010C               |                |                |  |
|                |                | With brake     | 200 V                      | 900 W          | R88M-K90010T-B |  |
|                |                |                |                            | 2.0 kW         | R88M-K2K010T-B |  |
| 3.0 kW         | R88M-K3K010T-B |                |                            |                |                |  |
| 4.5 kW         | R88M-K4K510T-B |                |                            |                |                |  |
| 6.0 kW         | R88M-K6K010T-B |                |                            |                |                |  |
| 400 V          | 900 W          |                |                            | R88M-K90010C-B |                |  |
|                | 2.0 kW         | R88M-K2K010C-B |                            |                |                |  |
|                | 3.0 kW         | R88M-K3K010C-B |                            |                |                |  |
|                | 4.5 kW         | R88M-K4K510C-B |                            |                |                |  |
|                | 6.0 kW         | R88M-K6K010C-B |                            |                |                |  |

Note: Models with oil seals are also available.

**G5-series Pluse Train Input type**

**AC Servomotors**

<Eco Cylinder Type>

3,000-r/min servomotor

| Specifications |              |                                 | Model             |
|----------------|--------------|---------------------------------|-------------------|
| Voltage        | Rated output | Straight shaft with key and tap |                   |
|                |              | Without oil seals               |                   |
| Without brake  | 200 V        | 50 W                            | R88M-KE05030H-S2  |
|                |              | 100 W                           | R88M-KE10030H-S2  |
|                |              | 200 W                           | R88M-KE20030H-S2  |
|                |              | 400 W                           | R88M-KE40030H-S2  |
|                |              | 750 W                           | R88M-KE75030H-S2  |
|                |              | 1 kW                            | R88M-KE1K030H-S2  |
|                |              | 1.5 kW                          | R88M-KE1K530H-S2  |
|                |              | 2 kW                            | R88M-KE2K030H-S2  |
|                |              | 3 kW                            | R88M-KE3K030H-S2  |
|                |              | 4 kW                            | R88M-KE4K030H-S2  |
|                |              | 5 kW                            | R88M-KE5K030H-S2  |
| With brake     | 200 V        | 50 W                            | R88M-KE05030H-BS2 |
|                |              | 100 W                           | R88M-KE10030H-BS2 |
|                |              | 200 W                           | R88M-KE20030H-BS2 |
|                |              | 400 W                           | R88M-KE40030H-BS2 |
|                |              | 750 W                           | R88M-KE75030H-BS2 |
|                |              | 1 kW                            | R88M-KE1K030H-BS2 |
|                |              | 1.5 kW                          | R88M-KE1K530H-BS2 |
|                |              | 2 kW                            | R88M-KE2K030H-BS2 |
|                |              | 3 kW                            | R88M-KE3K030H-BS2 |
|                |              | 4 kW                            | R88M-KE4K030H-BS2 |
|                |              | 5 kW                            | R88M-KE5K030H-BS2 |

Note: Models with oil seals are also available.

| Specifications |              |                            | Model           |
|----------------|--------------|----------------------------|-----------------|
| Voltage        | Rated output | Straight shaft without key |                 |
|                |              | Without oil seals          |                 |
| Without brake  | 200 V        | 50 W                       | R88M-KE05030H   |
|                |              | 100 W                      | R88M-KE10030H   |
|                |              | 200 W                      | R88M-KE20030H   |
|                |              | 400 W                      | R88M-KE40030H   |
|                |              | 750 W                      | R88M-KE75030H   |
|                |              | 1 kW                       | R88M-KE1K030H   |
|                |              | 1.5 kW                     | R88M-KE1K530H   |
|                |              | 2 kW                       | R88M-KE2K030H   |
|                |              | 3 kW                       | R88M-KE3K030H   |
|                |              | 4 kW                       | R88M-KE4K030H   |
|                |              | 5 kW                       | R88M-KE5K030H   |
| With brake     | 200 V        | 50 W                       | R88M-KE05030H-B |
|                |              | 100 W                      | R88M-KE10030H-B |
|                |              | 200 W                      | R88M-KE20030H-B |
|                |              | 400 W                      | R88M-KE40030H-B |
|                |              | 750 W                      | R88M-KE75030H-B |
|                |              | 1 kW                       | R88M-KE1K030H-B |
|                |              | 1.5 kW                     | R88M-KE1K530H-B |
|                |              | 2 kW                       | R88M-KE2K030H-B |
|                |              | 3 kW                       | R88M-KE3K030H-B |
|                |              | 4 kW                       | R88M-KE4K030H-B |
|                |              | 5 kW                       | R88M-KE5K030H-B |

Note: Models with oil seals are also available.

### 2,000-r/min servomotor

| Specifications |         |              | Model                           |
|----------------|---------|--------------|---------------------------------|
|                |         |              | Straight shaft with key and tap |
|                | Voltage | Rated output | Without oil seals               |
| Without brake  | 200 V   | 1kW          | R88M-KE1K020H-S2                |
|                |         | 1.5kW        | R88M-KE1K520H-S2                |
|                |         | 2kW          | R88M-KE2K020H-S2                |
|                |         | 3kW          | R88M-KE3K020H-S2                |
|                |         | 4kW          | R88M-KE4K020H-S2                |
| With brake     | 200 V   | 5kW          | R88M-KE5K020H-S2                |
|                |         | 1kW          | R88M-KE1K020H-BS2               |
|                |         | 1.5kW        | R88M-KE1K520H-BS2               |
|                |         | 2kW          | R88M-KE2K020H-BS2               |
|                |         | 3kW          | R88M-KE3K020H-BS2               |
|                | 200 V   | 4kW          | R88M-KE4K020H-BS2               |
|                |         | 5kW          | R88M-KE5K020H-BS2               |

Note: Models with oil seals are also available.

| Specifications |         |              | Model                      |
|----------------|---------|--------------|----------------------------|
|                |         |              | Straight shaft without key |
|                | Voltage | Rated output | Without oil seals          |
| Without brake  | 200 V   | 1kW          | R88M-KE1K020H              |
|                |         | 1.5kW        | R88M-KE1K520H              |
|                |         | 2kW          | R88M-KE2K020H              |
|                |         | 3kW          | R88M-KE3K020H              |
|                |         | 4kW          | R88M-KE4K020H              |
| With brake     | 200 V   | 5kW          | R88M-KE5K020H              |
|                |         | 1kW          | R88M-KE1K020H-B            |
|                |         | 1.5kW        | R88M-KE1K520H-B            |
|                |         | 2kW          | R88M-KE2K020H-B            |
|                |         | 3kW          | R88M-KE3K020H-B            |
|                | 200 V   | 4kW          | R88M-KE4K020H-B            |
|                |         | 5kW          | R88M-KE5K020H-B            |

Note: Models with oil seals are also available.

### 1,000-r/min servomotor

| Specifications |         |              | Model                           |
|----------------|---------|--------------|---------------------------------|
|                |         |              | Straight shaft with key and tap |
|                | Voltage | Rated output | Without oil seals               |
| Without brake  | 200 V   | 900 W        | R88M-KE90010H-S2                |
|                |         | 2 kW         | R88M-KE2K010H-S2                |
|                |         | 3 kW         | R88M-KE3K010H-S2                |
| With brake     | 200 V   | 900 W        | R88M-KE90010H-BS2               |
|                |         | 2 kW         | R88M-KE2K010H-BS2               |
|                |         | 3 kW         | R88M-KE3K010H-BS2               |

Note: Models with oil seals are also available.

| Specifications |         |              | Model                      |
|----------------|---------|--------------|----------------------------|
|                |         |              | Straight shaft without key |
|                | Voltage | Rated output | Without oil seals          |
| Without brake  | 200 V   | 900 W        | R88M-KE90010H              |
|                |         | 2 kW         | R88M-KE2K010H              |
|                |         | 3 kW         | R88M-KE3K010H              |
| With brake     | 200 V   | 900 W        | R88M-KE90010H-B            |
|                |         | 2 kW         | R88M-KE2K010H-B            |
|                |         | 3 kW         | R88M-KE3K010H-B            |

Note: Models with oil seals are also available.

## Linear Motors

### ● Iron-core linear motor

| Type            |                         | Continuous force [N] | Momentary maximum force [N] | Motor Coil Unit model |
|-----------------|-------------------------|----------------------|-----------------------------|-----------------------|
| Motor Coil Unit | Coil without Connectors | 48                   | 105                         | R88L-EC-FW-0303-ANPC  |
|                 |                         | 96                   | 210                         | R88L-EC-FW-0306-ANPC  |
|                 |                         | 160                  | 400                         | R88L-EC-FW-0606-ANPC  |
|                 |                         | 240                  | 600                         | R88L-EC-FW-0609-ANPC  |
|                 |                         | 320                  | 800                         | R88L-EC-FW-0612-ANPC  |
|                 |                         | 608                  | 1600                        | R88L-EC-FW-1112-ANPC  |
|                 |                         | 760                  | 2000                        | R88L-EC-FW-1115-ANPC  |
|                 | Coil with Connectors    | 48                   | 105                         | R88L-EC-FW-0303-APLC  |
|                 |                         | 96                   | 210                         | R88L-EC-FW-0306-APLC  |
|                 |                         | 160                  | 400                         | R88L-EC-FW-0606-APLC  |
|                 |                         | 240                  | 600                         | R88L-EC-FW-0609-APLC  |
|                 |                         | 320                  | 800                         | R88L-EC-FW-0612-APLC  |
|                 |                         | 608                  | 1600                        | R88L-EC-FW-1112-APLC  |
|                 |                         | 760                  | 2000                        | R88L-EC-FW-1115-APLC  |

| Type         | Applicable Active Magnet Width / Motor Coil Unit | Magnet Track Length [mm] | Model              |
|--------------|--|--------------------------|--------------------|
| Magnet Track | 30 mm<br>R88L-EC-FW-03□                          | 96                       | R88L-EC-FM-03096-A |
|              |  | 144                      | R88L-EC-FM-03144-A |
|              |  | 384                      | R88L-EC-FM-03384-A |
|              | 60 mm<br>R88L-EC-FW-06□                          | 192                      | R88L-EC-FM-06192-A |
|              |  | 288                      | R88L-EC-FM-06288-A |
|              |  | 110 mm<br>R88L-EC-FW-11□ | 192                |
|              |  | 288                      | R88L-EC-FM-11288-A |

| Type        | Applicable Active Magnet Width / Motor Coil Unit                         | Model             |
|-------------|--|-------------------|
| Hall Sensor | 30 mm: R88L-EC-FW-03□<br>60 mm: R88L-EC-FW-06□<br>110 mm: R88L-EC-FW-11□ | R88L-EC-FH-NNNN-A |

### ● Ironless linear motor

| Type            |                         | Continuous force [N] | Momentary maximum force [N] | Model                |
|-----------------|-------------------------|----------------------|-----------------------------|----------------------|
| Motor Coil Unit | Coil without Connectors | 26.5                 | 96                          | R88L-EC-GW-0303-ANPS |
|                 |                         | 53                   | 200                         | R88L-EC-GW-0306-ANPS |
|                 |                         | 80                   | 300                         | R88L-EC-GW-0309-ANPS |
|                 |                         | 58                   | 240                         | R88L-EC-GW-0503-ANPS |
|                 |                         | 117                  | 480                         | R88L-EC-GW-0506-ANPS |
|                 |                         | 175                  | 720                         | R88L-EC-GW-0509-ANPS |
|                 |                         | 117                  | 552                         | R88L-EC-GW-0703-ANPS |
|                 |                         | 232                  | 1110                        | R88L-EC-GW-0706-ANPS |
|                 | Coil with Connectors    | 348                  | 1730                        | R88L-EC-GW-0709-ANPS |
|                 |                         | 26.5                 | 96                          | R88L-EC-GW-0303-APLS |
|                 |                         | 53                   | 200                         | R88L-EC-GW-0306-APLS |
|                 |                         | 80                   | 300                         | R88L-EC-GW-0309-APLS |
|                 |                         | 58                   | 240                         | R88L-EC-GW-0503-APLS |
|                 |                         | 117                  | 480                         | R88L-EC-GW-0506-APLS |
|                 |                         | 175                  | 720                         | R88L-EC-GW-0509-APLS |
|                 |                         | 117                  | 552                         | R88L-EC-GW-0703-APLS |
|                 |                         | 232                  | R88L-EC-GW-0706-APLS        |                      |
|                 |                         | 348                  | R88L-EC-GW-0709-APLS        |                      |



| Type         | Applicable Active Magnet Width / Motor Coil Unit | Magnet Trac Unit Length (mm) | Model              |
|--------------|--|------------------------------|--------------------|
| Magnet Track | 30 mm<br>R88L-EC-GW-03□                          | 90                           | R88L-EC-GM-03090-A |
|              |  | 120                          | R88L-EC-GM-03120-A |
|              |  | 390                          | R88L-EC-GM-03390-A |
|              | 50 mm<br>R88L-EC-GW-05□                          | 126                          | R88L-EC-GM-05126-A |
|              |  | 168                          | R88L-EC-GM-05168-A |
|              |  | 210                          | R88L-EC-GM-05210-A |
|              |  | 546                          | R88L-EC-GM-05546-A |
|              | 70 mm<br>R88L-EC-GW-07□                          | 114                          | R88L-EC-GM-07114-A |
|              |  | 171                          | R88L-EC-GM-07171-A |
| 456          |  | R88L-EC-GM-07456-A           |                    |

| Type        | Applicable Active Magnet Width / Motor Coil Unit | Model             |
|-------------|--|-------------------|
| Hall Sensor | 30 mm: R88L-EC-GW-03□                            | R88L-EC-GH-03NN-A |
|             | 50 mm: R88L-EC-GW-05□                            | R88L-EC-GH-05NN-A |
|             | 70 mm: R88L-EC-GW-07□                            | R88L-EC-GH-07NN-A |

## Combination table

Motor Coil Unit and Magnet Track Combinations

### ● Iron-core motor type

| Active Magnet Width | Type                    | Motor Coil Unit model  | Hall Sensor Model  | Hall Sensor Model |
|---------------------|-------------------------|--|--|-------------------|
| 30 mm               | Coil without Connectors | R88L-EC-FW-0303-ANPC<br>R88L-EC-FW-0306-ANPC                         | R88L-EC-FM-03096-A<br>R88L-EC-FM-03144-A<br>R88L-EC-FM-03384-A | R88L-EC-FH-NNNN-A |
|                     | Coil with Connectors    | R88L-EC-FW-0303-APLC<br>R88L-EC-FW-0306-APLC                         |  |                   |
| 60 mm               | Coil without Connectors | R88L-EC-FW-0606-ANPC<br>R88L-EC-FW-0609-ANPC<br>R88L-EC-FW-0612-ANPC | R88L-EC-FM-06192-A<br>R88L-EC-FM-06288-A                       |                   |
|                     | Coil with Connectors    | R88L-EC-FW-0606-APLC<br>R88L-EC-FW-0609-APLC<br>R88L-EC-FW-0612-APLC |  |                   |
| 110 mm              | Coil without Connectors | R88L-EC-FW-1112-ANPC<br>R88L-EC-FW-1115-ANPC                         | R88L-EC-FM-11192-A<br>R88L-EC-FM-11288-A                       |                   |
|                     | Coil with Connectors    | R88L-EC-FW-1112-APLC<br>R88L-EC-FW-1115-APLC                         |  |                   |

### ● Ironless linear motor

| Active Magnet Width | Type                    | Motor Coil Unit model  | Hall Sensor Model  | Hall Sensor Model |
|---------------------|-------------------------|--|--|-------------------|
| 30 mm               | Coil without Connectors | R88L-EC-GW-0303-ANPS<br>R88L-EC-GW-0306-ANPS<br>R88L-EC-GW-0309-ANPS | R88L-EC-GM-03090-A<br>R88L-EC-GM-03120-A<br>R88L-EC-GM-03390-A                       | R88L-EC-GH-03NN-A |
|                     | Coil with Connectors    | R88L-EC-GW-0303-APLS<br>R88L-EC-GW-0306-APLS<br>R88L-EC-GW-0309-APLS |  |                   |
| 50 mm               | Coil without Connectors | R88L-EC-GW-0503-ANPS<br>R88L-EC-GW-0506-ANPS<br>R88L-EC-GW-0509-ANPS | R88L-EC-GM-05126-A<br>R88L-EC-GM-05168-A<br>R88L-EC-GM-05210-A<br>R88L-EC-GM-05546-A | R88L-EC-GH-05NN-A |
|                     | Coil with Connectors    | R88L-EC-GW-0503-APLS<br>R88L-EC-GW-0506-APLS<br>R88L-EC-GW-0509-APLS |  |                   |
| 70 mm               | Coil without Connectors | R88L-EC-GW-0703-ANPS<br>R88L-EC-GW-0706-ANPS<br>R88L-EC-GW-0709-ANPS | R88L-EC-GM-07114-A<br>R88L-EC-GM-07171-A<br>R88L-EC-GM-07456-A                       | R88L-EC-GH-07NN-A |
|                     | Coil with Connectors    | R88L-EC-GW-0703-APLS<br>R88L-EC-GW-0706-APLS<br>R88L-EC-GW-0709-APLS |  |                   |

# AC Servomotor/Drive G5-series

## Decelerators (Backlash = 3' Max./Backlash = 15' Max.)

Backlash = 3' Max  
<Cylinder Type>

### ● 3,000-r/min servomotors

Straight shaft without key

| Motor capacity   | Gear Ratio | Model (Straight shaft) |
|------------------|------------|------------------------|
| 50 W             | 1/5        | R88G-HPG11B05100B      |
|                  | 1/9        | R88G-HPG11B09050B      |
|                  | 1/21       | R88G-HPG14A21100B      |
|                  | 1/33       | R88G-HPG14A33050B      |
|                  | 1/45       | R88G-HPG14A45050B      |
| 100 W            | 1/5        | R88G-HPG11B05100B      |
|                  | 1/11       | R88G-HPG14A11100B      |
|                  | 1/21       | R88G-HPG14A21100B      |
|                  | 1/33       | R88G-HPG20A33100B      |
|                  | 1/45       | R88G-HPG20A45100B      |
| 200 W            | 1/5        | R88G-HPG14A05200B      |
|                  | 1/11       | R88G-HPG14A11200B      |
|                  | 1/21       | R88G-HPG20A21200B      |
|                  | 1/33       | R88G-HPG20A33200B      |
|                  | 1/45       | R88G-HPG20A45200B      |
| 400 W            | 1/5        | R88G-HPG14A05400B      |
|                  | 1/11       | R88G-HPG20A11400B      |
|                  | 1/21       | R88G-HPG20A21400B      |
|                  | 1/33       | R88G-HPG32A33400B      |
|                  | 1/45       | R88G-HPG32A45400B      |
| 750 W<br>(200 V) | 1/5        | R88G-HPG20A05750B      |
|                  | 1/11       | R88G-HPG20A11750B      |
|                  | 1/21       | R88G-HPG32A21750B      |
|                  | 1/33       | R88G-HPG32A33750B      |
|                  | 1/45       | R88G-HPG32A45750B      |
| 750W<br>(400 V)  | 1/5        | R88G-HPG32A052K0B      |
|                  | 1/11       | R88G-HPG32A112K0B      |
|                  | 1/21       | R88G-HPG32A211K5B      |
|                  | 1/33       | R88G-HPG32A33600SB     |
|                  | 1/45       | R88G-HPG50A451K5B      |
| 1kW              | 1/5        | R88G-HPG32A052K0B      |
|                  | 1/11       | R88G-HPG32A112K0B      |
|                  | 1/21       | R88G-HPG32A211K5B      |
|                  | 1/33       | R88G-HPG50A332K0B      |
|                  | 1/45       | R88G-HPG50A451K5B      |
| 1.5kW            | 1/5        | R88G-HPG32A052K0B      |
|                  | 1/11       | R88G-HPG32A112K0B      |
|                  | 1/21       | R88G-HPG32A211K5B      |
|                  | 1/33       | R88G-HPG50A332K0B      |
|                  | 1/45       | R88G-HPG50A451K5B      |
| 2kW              | 1/5        | R88G-HPG32A052K0B      |
|                  | 1/11       | R88G-HPG32A112K0B      |
|                  | 1/21       | R88G-HPG50A212K0B      |
|                  | 1/33       | R88G-HPG50A332K0B      |
| 3kW              | 1/5        | R88G-HPG32A053K0B      |
|                  | 1/11       | R88G-HPG50A113K0B      |
|                  | 1/21       | R88G-HPG50A213K0B      |
| 4kW              | 1/5        | R88G-HPG32A054K0B      |
|                  | 1/11       | R88G-HPG50A115K0B      |
| 5kW              | 1/5        | R88G-HPG50A055K0B      |
|                  | 1/11       | R88G-HPG50A115K0B      |

Note: 1. The standard models have a straight shaft.

2. To order a Servomotor with a straight shaft with key, add "J" to the end of the model number, in the place indicated by the box.

### ● 2,000-r/min servomotors

Straight shaft without key

| Motor capacity | Gear Ratio | Model (Straight shaft) |
|----------------|------------|------------------------|
| 400 W          | 1/5        | R88G-HPG32A052K0B      |
|                | 1/11       | R88G-HPG32A112K0B      |
|                | 1/21       | R88G-HPG32A211K5B      |
|                | 1/33       | R88G-HPG32A33600SB     |
|                | 1/45       | R88G-HPG32A45400SB     |
| 600 W          | 1/5        | R88G-HPG32A052K0B      |
|                | 1/11       | R88G-HPG32A112K0B      |
|                | 1/21       | R88G-HPG32A211K5B      |
|                | 1/33       | R88G-HPG32A33600SB     |
|                | 1/45       | R88G-HPG50A451K5B      |
| 1 kW           | 1/5        | R88G-HPG32A053K0B      |
|                | 1/11       | R88G-HPG32A112K0SB     |
|                | 1/21       | R88G-HPG32A211K0SB     |
|                | 1/33       | R88G-HPG50A332K0SB     |
|                | 1/45       | R88G-HPG50A451K0SB     |
| 1.5 kW         | 1/5        | R88G-HPG32A053K0B      |
|                | 1/11       | R88G-HPG32A112K0SB     |
|                | 1/21       | R88G-HPG50A213K0B      |
|                | 1/33       | R88G-HPG50A332K0SB     |
| 2 kW           | 1/5        | R88G-HPG32A053K0B      |
|                | 1/11       | R88G-HPG32A112K0SB     |
|                | 1/21       | R88G-HPG50A213K0B      |
|                | 1/33       | R88G-HPG50A332K0SB     |
| 3 kW           | 1/5        | R88G-HPG32A054K0B      |
|                | 1/11       | R88G-HPG50A115K0B      |
|                | 1/21       | R88G-HPG50A213K0SB     |
| 4 kW           | 1/25       | R88G-HPG65A253K0SB     |
|                | 1/5        | R88G-HPG50A055K0SB     |
|                | 1/11       | R88G-HPG50A115K0SB     |
| 5 kW           | 1/20       | R88G-HPG65A205K0SB     |
|                | 1/25       | R88G-HPG65A255K0SB     |
|                | 1/5        | R88G-HPG50A055K0SB     |
|                | 1/11       | R88G-HPG50A115K0SB     |
| 5 kW           | 1/20       | R88G-HPG65A205K0SB     |
|                | 1/25       | R88G-HPG65A255K0SB     |
|                | 1/5        | R88G-HPG50A055K0SB     |

Note: 1. The standard models have a straight shaft.

2. To order a Servomotor with a straight shaft with key, add "J" to the end of the model number, in the place indicated by the box.

● 1,000-r/min servomotors

**Straight shaft without key**

| Motor capacity | Gear Ratio | Model (Straight shaft) |
|----------------|------------|------------------------|
| 900 W          | 1/5        | R88G-HPG32A05900TB     |
|                | 1/11       | R88G-HPG32A11900TB     |
|                | 1/21       | R88G-HPG50A21900TB     |
|                | 1/33       | R88G-HPG50A33900TB     |
| 2 kW           | 1/5        | R88G-HPG32A052K0TB     |
|                | 1/11       | R88G-HPG50A112K0TB     |
|                | 1/21       | R88G-HPG50A212K0TB     |
|                | 1/25       | R88G-HPG65A255K0SB     |
| 3 kW           | 1/5        | R88G-HPG50A055K0SB     |
|                | 1/11       | R88G-HPG50A115K0SB     |
|                | 1/20       | R88G-HPG65A205K0SB     |
|                | 1/25       | R88G-HPG65A255K0SB     |

- Note:** 1. The standard models have a straight shaft.  
2. To order a Servomotor with a straight shaft with key, add "J" to the end of the model number, in the place indicated by the box.

Backlash = 15' Max  
<Cylinder Type>

● 3,000-r/min servomotors

**Straight shaft with key**

| Motor capacity | Gear Ratio | Model (Straight shaft) |
|----------------|------------|------------------------|
| 50 W           | 1/5        | R88G-VRSF05B100CJ      |
|                | 1/9        | R88G-VRSF09B100CJ      |
|                | 1/15       | R88G-VRSF15B100CJ      |
|                | 1/25       | R88G-VRSF25B100CJ      |
|                | 1/5        | R88G-VRSF05B100CJ      |
| 100 W          | 1/9        | R88G-VRSF09B100CJ      |
|                | 1/15       | R88G-VRSF15B100CJ      |
|                | 1/25       | R88G-VRSF25B100CJ      |
|                | 1/5        | R88G-VRSF05B200CJ      |
| 200 W          | 1/9        | R88G-VRSF09C200CJ      |
|                | 1/15       | R88G-VRSF15C200CJ      |
|                | 1/25       | R88G-VRSF25C200CJ      |
|                | 1/5        | R88G-VRSF05C400CJ      |
| 400 W          | 1/9        | R88G-VRSF09C400CJ      |
|                | 1/15       | R88G-VRSF15C400CJ      |
|                | 1/25       | R88G-VRSF25C400CJ      |
|                | 1/5        | R88G-VRSF05C750CJ      |
| 750 W          | 1/9        | R88G-VRSF09D750CJ      |
|                | 1/15       | R88G-VRSF15D750CJ      |
|                | 1/25       | R88G-VRSF25D750CJ      |
|                | 1/5        | R88G-VRSF05D750CJ      |

## Accessories and Cables

### ■ Connection Cables (Power Cables, Brake Cables, Encoder Cables)

#### <Non-flexible Cables>

#### Power cable

| Specifications   |   | Model                |  |  |
|--|---|----------------------|--|--|
|  |   | Without brake        | With brake   |  |
| [200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W for  | 3 m   | R88A-CAGA003S        | <b>Note:</b> Separate connectors for power and brakes for 3,000-r/min Servomotors of 50 to 750W. When a Servomotor with a brake is used, it is necessary to use both a PowerCable for Servomotors without brakes and Power cable.      |  |
|  | 5 m   | R88A-CAGA005S        |  |  |
|  | 10 m  | R88A-CAGA010S        |  |  |
|  | 15 m  | R88A-CAGA015S        |  |  |
|  | 20 m  | R88A-CAGA020S        |  |  |
| [100 V/200 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W   | 3 m   | R88A-CAKA003S        | <b>Note:</b> Separate connectors for power and brakes for 3,000-r/min Servomotors of 50 to 750W. When a Servomotor with a brake is used, it is necessary to use both a PowerCable for Servomotors without brakes and Power cable.      |  |
|  | 5 m   | R88A-CAKA005S        |  |  |
|  | 10 m  | R88A-CAKA010S        |  |  |
|  | 15 m  | R88A-CAKA015S        |  |  |
|  | 20 m  | R88A-CAKA020S        |  |  |
|  | 30 m  | R88A-CAKA030S        |  |  |
|  | 40 m  | R88A-CAKA040S        |  |  |
| 50 m   | R88A-CAKA050S   |                      |  |  |
| [200 V] Standard & Eco Cylinder Type<br>3,000-r/min Servomotors of 1 to 2 kW<br>2,000-r/min Servomotors of 1 to 2 kW<br>1,000-r/min Servomotors of 900 W           | 3 m   | R88A-CAGB003S (-APE) | R88A-CAGB003B  |  |
|  | 5 m   | R88A-CAGB005S (-APE) | R88A-CAGB005B  |  |
|  | 10 m  | R88A-CAGB010S (-APE) | R88A-CAGB010B  |  |
|  | 15 m  | R88A-CAGB015S (-APE) | R88A-CAGB015B  |  |
|  | 20 m  | R88A-CAGB020S (-APE) | R88A-CAGB020B  |  |
|  | 30 m *3   | R88A-CAGB030S        | R88A-CAGB030B  |  |
|  | 40 m *3   | R88A-CAGB040S        | R88A-CAGB040B  |  |
|  | 50 m *3   | R88A-CAGB050S        | R88A-CAGB050B  |  |
| [400 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 750 W to 2 kW<br>2,000-r/min Servomotors of 400 W to 2 kW<br>1,000-r/min Servomotors of 900 W         | 3 m   | R88A-CAGB003S (-APE) | R88A-CAKF003B  |  |
|  | 5 m   | R88A-CAGB005S (-APE) | R88A-CAKF005B  |  |
|  | 10 m  | R88A-CAGB010S (-APE) | R88A-CAKF010B  |  |
|  | 15 m  | R88A-CAGB015S (-APE) | R88A-CAKF015B  |  |
|  | 20 m  | R88A-CAGB020S (-APE) | R88A-CAKF020B  |  |
|  | 30 m  | R88A-CAGB030S        | R88A-CAKF030B  |  |
|  | 40 m  | R88A-CAGB040S        | R88A-CAKF040B  |  |
|  | 50 m  | R88A-CAGB050S        | R88A-CAKF050B  |  |
| [200 V and 400 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 3 to 5 kW<br>2,000-r/min Servomotors of 3 to 5 kW<br>1,000-r/min Servomotors of 2 to 4.5 Kw | 3 m   | R88A-CAGD003S        | R88A-CAGD003B  |  |
|  | 5 m   | R88A-CAGD005S        | R88A-CAGD005B  |  |
|  | 10 m  | R88A-CAGD010S        | R88A-CAGD010B  |  |
|  | 15 m  | R88A-CAGD015S        | R88A-CAGD015B  |  |
|  | 20 m  | R88A-CAGD020S        | R88A-CAGD020B  |  |
|  | 30 m *3   | R88A-CAGD030S        | R88A-CAGD030B  |  |
|  | 40 m *3   | R88A-CAGD040S        | R88A-CAGD040B  |  |
|  | 50 m *3   | R88A-CAGD050S        | R88A-CAGD050B  |  |
|  | [200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 3 to 5 kW<br>2,000-r/min Servomotors of 3 to 5 kW<br>1,000-r/min Servomotors of 2 to 3 kW | 3 m                  | R88A-CAGE003S  | <b>Note:</b> Separate connectors for power and brakes for 1,500-r/min Servomotors of 7.5kW and 1,000-r/min Servomotors of 6.0kW. When a Servomotor with a brake is used, it is necessary to use both a Power Cable for Servomotors without brakes and Brake cable. |
|  |   | 5 m                  | R88A-CAGE005S  |  |
| 10 m   |   | R88A-CAGE010S        |  |  |
| 15 m   |   | R88A-CAGE015S        |  |  |
| 20 m   |   | R88A-CAGE020S        |  |  |
| 30 m   |   | R88A-CAGE030S        |  |  |
| 40 m   |   | R88A-CAGE040S        |  |  |
| 50 m   | R88A-CAGE050S   |                      |  |  |
| [200 V and 400 V] Standard Cylinder Type<br>1,500-r/min Servomotors of 11 to 15 kW   | 3 m   | R88A-CAKG003S-AP     | <b>Note:</b> Separate connectors for power and brakes for 1,500-r/min Servomotors of 11.0 to 15.0kW. When a Servomotor with a brake is used, it is necessary to use both a Power Cable for Servomotors without brakes and Brake cable. |  |
|  | 5 m   | R88A-CAKG005S-AP     |  |  |
|  | 10 m  | R88A-CAKG010S-AP     |  |  |
|  | 15 m  | R88A-CAKG015S-AP     |  |  |
|  | 20 m  | R88A-CAKG020S-AP     |  |  |

**Note:** 1. Different connectors are used for the motor power and the brake on 100-V and 200-V, 3,000-r/min Servomotors of 50 to 750 W and Servomotors of 6 to 15 kW. When using a Servomotor with a brake, two cables are required: a Power Cable without Brake and a Brake Cable.

2. For non-flexible power cables for Servomotors of 11 or 15 kW, refer to the G5 series USER'S MANUAL and make your own cable. Confirm the Manual No. that is listed in Related Manuals.

3. Cables lengths of 30m to 50m are not recommended for Eco Type Servos. ie. R88M-KE<sup>™</sup> servomotors and R88D-KP<sup>™</sup>H servodrive.



**Brake Cable**

| Specifications   |      | Model         |
|--|------|---------------|
| [200 V] Eco Cylinder Type<br>3,000-r/min<br>Servomotors of 50 to 750 W   | 3 m  | R88A-CAGA003B |
|  | 5 m  | R88A-CAGA005B |
|  | 10 m | R88A-CAGA010B |
|  | 15 m | R88A-CAGA015B |
|  | 20 m | R88A-CAGA020B |
| [100 V/200 V] Standard Cylinder Type<br>3,000-r/min<br>Servomotors of 50 to 750 W  | 3 m  | R88A-CAKA003B |
|  | 5 m  | R88A-CAKA005B |
|  | 10 m | R88A-CAKA010B |
|  | 15 m | R88A-CAKA015B |
|  | 20 m | R88A-CAKA020B |
|  | 30 m | R88A-CAKA030B |
|  | 40 m | R88A-CAKA040B |
| [200 V/400 V] Standard Cylinder Type<br>1,500-r/min<br>Servomotors of 7.5 to 15 kW<br>1,500-r/min<br>Servomotors of 6 kW | 3 m  | R88A-CAGE003B |
|  | 5 m  | R88A-CAGE005B |
|  | 10 m | R88A-CAGE010B |
|  | 15 m | R88A-CAGE015B |
|  | 20 m | R88A-CAGE020B |
|  | 30 m | R88A-CAGE030B |
|  | 40 m | R88A-CAGE040B |
|  | 50 m | R88A-CAGE050B |

**Encoder Cable**

| Specifications  |      | Model                |
|---|------|----------------------|
| [200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W   | 3 m  | R88A-CRGB003C        |
|   | 5 m  | R88A-CRGB005C        |
|   | 10 m | R88A-CRGB010C        |
|   | 15 m | R88A-CRGB015C        |
|   | 20 m | R88A-CRGB020C        |
| [200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 1 to 5kW<br>2,000-r/min Servomotors<br>1,000-r/min Servomotors  | 3 m  | R88A-CRGC003N (-APE) |
|   | 5 m  | R88A-CRGC005N (-APE) |
|   | 10 m | R88A-CRGC010N (-APE) |
|   | 15 m | R88A-CRGC015N (-APE) |
|   | 20 m | R88A-CRGC020N (-APE) |
| [100 V/200 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W  | 3 m  | R88A-CRKA003C        |
|   | 5 m  | R88A-CRKA005C        |
|   | 10 m | R88A-CRKA010C        |
|   | 15 m | R88A-CRKA015C        |
|   | 20 m | R88A-CRKA020C        |
|   | 30 m | R88A-CRKA030C        |
| [200 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 1.0kW and above<br>2,000-r/min Servomotors<br>1,500-r/min Servomotors<br>1,000-r/min Servomotors<br>[400 V] Standard Cylinder Type<br>3,000-r/min Servomotors<br>2,000-r/min Servomotors<br>1,500-r/min Servomotors<br>1,000-r/min Servomotors | 40 m | R88A-CRKA040C        |
|   | 50 m | R88A-CRKA050C        |
|   | 3 m  | R88A-CRKC003N        |
|   | 5 m  | R88A-CRKC005N        |
|   | 10 m | R88A-CRKC010N        |
|   | 15 m | R88A-CRKC015N        |
|   | 20 m | R88A-CRKC020N        |
|   | 30 m | R88A-CRKC030N        |
|   | 40 m | R88A-CRKC040N        |
|   | 50 m | R88A-CRKC050N        |

# AC Servomotor/Drive G5-series

## <Flexible Cables>

### Power cable

| Specifications  |  | Model               |  |
|---|--|---------------------|--|
|   |  | Without brake       | With brake   |
| [200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W for   | 3 m  | R88A-CAGA003SR (-E) | <b>Note:</b> Separate connectors for power and brakes for 3,000-r/min Servomotors of 50 to 750W. When a Servomotor with a brake is used, it is necessary to use both a PowerCable for Servomotors without brakes and Power cable.      |
|   | 5 m  | R88A-CAGA005SR (-E) |  |
|   | 10 m   | R88A-CAGA010SR (-E) |  |
|   | 15 m   | R88A-CAGA015SR (-E) |  |
|   | 20 m   | R88A-CAGA020SR (-E) |  |
| [100 V/200 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 50 to 750 W  | 3 m  | R88A-CAKA003SR (-E) | <b>Note:</b> Separate connectors for power and brakes for 3,000-r/min Servomotors of 50 to 750W. When a Servomotor with a brake is used, it is necessary to use both a PowerCable for Servomotors without brakes and Power cable.      |
|   | 5 m  | R88A-CAKA005SR (-E) |  |
|   | 10 m   | R88A-CAKA010SR (-E) |  |
|   | 15 m   | R88A-CAKA015SR (-E) |  |
|   | 20 m   | R88A-CAKA020SR (-E) |  |
|   | 30 m   | R88A-CAKA030SR (-E) |  |
|   | 40 m   | R88A-CAKA040SR (-E) |  |
| [200 V] Standard & Eco Cylinder Type<br>3,000-r/min Servomotors of 1 to 2 kW<br>2,000-r/min Servomotors of 1 to 2 kW<br>1,000-r/min Servomotors of 900 W  | 3 m  | R88A-CAGB003SR (-E) | R88A-CAGB003BR (-E)  |
|   | 5 m  | R88A-CAGB005SR (-E) | R88A-CAGB005BR (-E)  |
|   | 10 m   | R88A-CAGB010SR (-E) | R88A-CAGB010BR (-E)  |
|   | 15 m   | R88A-CAGB015SR (-E) | R88A-CAGB015BR (-E)  |
|   | 20 m   | R88A-CAGB020SR (-E) | R88A-CAGB020BR (-E)  |
|   | 30 m *3  | R88A-CAGB030SR (-E) | R88A-CAGB030BR (-E)  |
|   | 40 m *3  | R88A-CAGB040SR (-E) | R88A-CAGB040BR (-E)  |
| [400 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 750 W to 2 kW<br>2,000-r/min Servomotors of 400 W to 2 kW<br>1,000-r/min Servomotors of 900 W  | 3 m  | R88A-CAGB003SR (-E) | R88A-CAKF003BR (-E)  |
|   | 5 m  | R88A-CAGB005SR (-E) | R88A-CAKF005BR (-E)  |
|   | 10 m   | R88A-CAGB010SR (-E) | R88A-CAKF010BR (-E)  |
|   | 15 m   | R88A-CAGB015SR (-E) | R88A-CAKF015BR (-E)  |
|   | 20 m   | R88A-CAGB020SR (-E) | R88A-CAKF020BR (-E)  |
|   | 30 m   | R88A-CAGB030SR (-E) | R88A-CAKF030BR (-E)  |
|   | 40 m   | R88A-CAGB040SR (-E) | R88A-CAKF040BR (-E)  |
| [200 V and 400 V] Standard Cylinder Type<br>3,000-r/min Servomotors of 3 to 5 kW<br>2,000-r/min Servomotors of 3 to 5 kW<br>1,000-r/min Servomotors of 2 to 4.5 Kw<br><br>[200 V] Eco Cylinder Type<br>3,000-r/min Servomotors of 3 to 5 kW<br>2,000-r/min Servomotors of 3 to 5 kW<br>1,000-r/min Servomotors of 2 to 3 kW | 3 m  | R88A-CAGD003SR (-E) | R88A-CAGD003BR (-E)  |
|   | 5 m  | R88A-CAGD005SR (-E) | R88A-CAGD005BR (-E)  |
|   | 10 m   | R88A-CAGD010SR (-E) | R88A-CAGD010BR (-E)  |
|   | 15 m   | R88A-CAGD015SR (-E) | R88A-CAGD015BR (-E)  |
|   | 20 m   | R88A-CAGD020SR (-E) | R88A-CAGD020BR (-E)  |
|   | 30 m *3  | R88A-CAGD030SR (-E) | R88A-CAGD030BR (-E)  |
|   | 40 m *3  | R88A-CAGD040SR (-E) | R88A-CAGD040BR (-E)  |
|   | 50 m *3  | R88A-CAGD050SR (-E) | R88A-CAGD050BR (-E)  |
|   | [200 V and 400 V] Standard Cylinder Type<br>1,500-r/min Servomotors of 7.5 kW<br>1,000-r/min Servomotors of 6 kW | 3 m                 | R88A-CAGE003SR (-E)  |
| 5 m   |  | R88A-CAGE005SR (-E) |  |
| 10 m  |  | R88A-CAGE010SR (-E) |  |
| 15 m  |  | R88A-CAGE015SR (-E) |  |
| 20 m  |  | R88A-CAGE020SR (-E) |  |
| 30 m  |  | R88A-CAGD030SR      |  |
| 40 m  |  | R88A-CAGD040SR      |  |
| [200 V and 400 V] Standard Cylinder Type<br>1,500-r/min Servomotors of 11 to 15 kW  | 3 m  | R88A-CAKG003SR-E    | <b>Note:</b> Separate connectors for power and brakes for 1,500-r/min Servomotors of 11.0 to 15.0kW. When a Servomotor with a brake is used, it is necessary to use both a Power Cable for Servomotors without brakes and Brake cable. |
|   | 5 m  | R88A-CAKG005SR-E    |  |
|   | 10 m   | R88A-CAKG010SR-E    |  |
|   | 15 m   | R88A-CAKG015SR-E    |  |
|   | 20 m   | R88A-CAKG020SR-E    |  |

- Note:**
1. Different connectors are used for the motor power and the brake on 100-V and 200-V, 3,000-r/min Servomotors of 50 to 750 W and Servomotors of 6 to 15 kW. When using a Servomotor with a brake, two cables are required: a Power Cable without Brake and a Brake Cable.
  2. For non-flexible power cables for Servomotors of 11 to 15 kW, refer to the relevant manuals of G5-Series and make your own cable.
  3. Cables lengths of 30m to 50m are not recommended for Eco Type Servos. ie. R88M-KE"" servomotors and R88D-KP""H servodrive.
  4. Cables Models Ending with "-E" are with Right-Angle connector on Servomotor Side.

**Brake Cable**

| Specifications  |      | Model               |
|---|------|---------------------|
| <b>[200 V] Eco Cylinder Type</b><br>3,000-r/min<br>Servomotors of 50 to 750 W   | 3 m  | R88A-CAGA003BR (-E) |
|   | 5 m  | R88A-CAGA005BR (-E) |
|   | 10 m | R88A-CAGA010BR (-E) |
|   | 15 m | R88A-CAGA015BR (-E) |
|   | 20 m | R88A-CAGA020BR (-E) |
| <b>[100 V/200 V] Standard Cylinder Type</b><br>3,000-r/min<br>Servomotors of 50 to 750 W  | 3 m  | R88A-CAKA003BR (-E) |
|   | 5 m  | R88A-CAKA005BR (-E) |
|   | 10 m | R88A-CAKA010BR (-E) |
|   | 15 m | R88A-CAKA015BR (-E) |
|   | 20 m | R88A-CAKA020BR (-E) |
|   | 30 m | R88A-CAKA030BR (-E) |
|   | 40 m | R88A-CAKA040BR (-E) |
| <b>[200 V/400 V] Standard Cylinder Type</b><br>1,500-r/min<br>Servomotors of 7.5 to 15 kW<br>1,500-r/min<br>Servomotors of 6 kW | 3 m  | R88A-CAGE003BR (-E) |
|   | 5 m  | R88A-CAGE005BR (-E) |
|   | 10 m | R88A-CAGE010BR (-E) |
|   | 15 m | R88A-CAGE015BR (-E) |
|   | 20 m | R88A-CAGE020BR (-E) |
|   | 30 m | R88A-CAGE030B       |
|   | 40 m | R88A-CAGE040B       |
|   | 50 m | R88A-CAGE050B       |

**Note:** Cables Models Ending with "-E" are with Right-Angle connector on Servomotor Side.

**Encoder Cable**

| Specifications   |      | Model               |
|--|------|---------------------|
| <b>[200 V] Eco Cylinder Type</b><br>3,000-r/min Servomotors of 50 to 750 W   | 3 m  | R88A-CRGB003CR (-E) |
|  | 5 m  | R88A-CRGB005CR (-E) |
|  | 10 m | R88A-CRGB010CR (-E) |
|  | 15 m | R88A-CRGB015CR (-E) |
|  | 20 m | R88A-CRGB020CR (-E) |
| <b>[200 V] Eco Cylinder Type</b><br>3,000-r/min Servomotors of 1 to 5kW<br>2,000-r/min Servomotors<br>1,000-r/min Servomotors  | 3 m  | R88A-CRGC003NR (-E) |
|  | 5 m  | R88A-CRGC005NR (-E) |
|  | 10 m | R88A-CRGC010NR (-E) |
|  | 15 m | R88A-CRGC015NR (-E) |
|  | 20 m | R88A-CRGC020NR (-E) |
| <b>[100 V/200 V] Standard Cylinder Type</b><br>3,000-r/min Servomotors of 50 to 750 W  | 3 m  | R88A-CRKA003CR (-E) |
|  | 5 m  | R88A-CRKA005CR (-E) |
|  | 10 m | R88A-CRKA010CR (-E) |
|  | 15 m | R88A-CRKA015CR (-E) |
|  | 20 m | R88A-CRKA020CR (-E) |
|  | 30 m | R88A-CRKA030CR (-E) |
|  | 40 m | R88A-CRKA040CR (-E) |
| <b>[200 V] Standard Cylinder Type</b><br>3,000-r/min Servomotors of 1.0kW and above<br>2,000-r/min Servomotors<br>1,500-r/min Servomotors<br>1,000-r/min Servomotors<br>[400 V] Standard Cylinder Type<br>3,000-r/min Servomotors<br>2,000-r/min Servomotors<br>1,500-r/min Servomotors<br>1,000-r/min Servomotors | 3 m  | R88A-CRKC003NR (-E) |
|  | 5 m  | R88A-CRKC005NR (-E) |
|  | 10 m | R88A-CRKC010NR (-E) |
|  | 15 m | R88A-CRKC015NR (-E) |
|  | 20 m | R88A-CRKC020NR (-E) |
|  | 30 m | R88A-CRKC030NR (-E) |
|  | 40 m | R88A-CRKC040NR (-E) |
|  | 50 m | R88A-CRKC050NR (-E) |

**Note:** Cables Models Ending with "-E" are with Right-Angle connector on Servomotor Side.

# AC Servomotor/Drive G5-series

## ■ Cable/Connector

### Absolute Encoder Backup Battery & Absolute Encoder Battery Cable

|  | Description            | Length | Model            |
|--|------------------------|--------|------------------|
| Absolute Encoder Battery Cable                     | Without Backup Battery | 0.3 m  | R88A-CRGD0R3C    |
|  | With Backup Battery    | 0.3 m  | R88A-CRGD0R3C-BS |
| Absolute Encoder Backup Battery (2,000 mA · 3.6 V) |                        | -      | R88A-BAT01G      |

## Cables

|  | Description   | Length | Model            |
|--|---|--------|------------------|
| Analog Monitor Cables                    |   | 1 m    | R88A-CMK001S     |
| General Purpose Control I/O Cables (CN1) | Analog/Pulse Train Input Servodrive (R88D-KT□ / R88D-KP□) | 1 m    | R88A-CPG001S     |
|  |   | 2 m    | R88A-CPG002S     |
|  | Network Communications Servodrive (R88D-KN□)              | 1 m    | R88A-CPKB001S-AP |
|  |   | 2 m    | R88A-CPKB002S-AP |
| External encoder cable (CN4)             |   | 5 m    | R88A-CRKM005SR-E |
|  |   | 10 m   | R88A-CRKM010SR-E |
|  |   | 20 m   | R88A-CRKM020SR-E |
| Safety Connecting Cable (CN8)            |   | 3 m    | R88A-CSK003S-E   |

## Servo Drive Connectors

|                                     | Description   | Connects To | Model          |
|-------------------------------------|---|-------------|----------------|
| Control I/O Connector               | Analog/Pulse Train Input Servodrive (R88D-KT□ / R88D-KP□) | CN1         | R88A-CNU11C    |
|                                     | Network Communications Servodrive (R88D-KN□)              | CN1         | R88A-CNW01C    |
| Main Circuit Power Supply Connector | [100VAC] 50W-400W<br>[200VAC] 100W-1.5kW                  | CNA         | R88A-CNA02G-AP |
|                                     | [400VAC] 600W-1.5kW                                       | CNA         | R88A-CNA01K-AP |
|                                     | [200VAC] 2.0kW  | CNA         | R88A-CNA02K-AP |
|                                     | [400VAC] 2.0kW  | CNA         | R88A-CNA03K-AP |
| Servomotor Power Connector          | [100VAC] 50W-400W<br>[200VAC] 100W-1.5kW                  | CNB         | R88A-CNB01G-AP |
|                                     | [400VAC] 600W-1.5kW                                       | CNB         | R88A-CNB01K-AP |
|                                     | [200VAC] 2.0kW<br>[400VAC] 2.0kW                          | CNB         | R88A-CNB02K-AP |
|                                     |   |             |                |
| 24VDC Control Circuit Connector     | [400VAC] 600W-2.0kW                                       | CNC         | R88A-CNC01K-AP |
| Regenerative Resistor Connector     | [400VAC] 600W-1.5kW                                       | CND         | R88A-CND01K-AP |
|                                     | [200VAC] 2.0kW<br>[400VAC] 2.0kW                          | CND         | R88A-CND02K-AP |
| Servomotor Encoder Connector        |   | CN2         | R88A-CNW01R    |
| External Encoder Connector          |   | CN4         | R88A-CNK41L    |
| Safety I/O Signal Connector         |   | CN8         | R88A-CNK81S    |

## Servomotor Connectors

| Description                  | Applicable Servomotor Capacity   | Model          |
|------------------------------|--|----------------|
|                              |  |                |
| Servomotor Encoder Connector | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK02R    |
|                              | [100 V/200 V] 3,000 r/min (1 to 5 kW), 2,000 r/min, 1,000 r/min<br>[400 V] 3,000 r/min, 2,000 r/min, 1,000 r/min | R88A-CNK04R    |
| Power Cable Connector        | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK11A    |
|                              | [200 V] [400V] 1,500 r/min (11 to 15kW)  | R88A-CNK21A-AP |
| Brake Cable Connector        | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK11B    |
|                              | [200 V] [400V] 1,500 r/min (7.5 to 15kW), 1,000 r/min (6.0kW)  | R88A-CNK21B-AP |

■ Control Cables

Control Cables (for Connector Terminal Block/CN1)

| Name                                     | Specifications  |   | Model                         |
|--|---|---|-------------------------------|
| Connector Terminal Block Cables          | General-purpose/Pulse Train Input                         |   | Length 1.0 m<br>XW2Z-100J-B24 |
|  |   |   | Length 2.0 m<br>XW2Z-200J-B24 |
|  | MECHATROLINK-II Communications                            |   | Length 1.0 m<br>XW2Z-100J-B34 |
|  | EtherCAT Communications                                   |   | Length 2.0 m<br>XW2Z-200J-B34 |
| Connector Terminal Block Conversion Unit | General-purpose/Pulse Train input                         | Conversion Unit for General-purpose Controllers (M3 screws)   | Through type<br>XW2B-50G4     |
|  |   | Conversion Unit for General-purpose Controllers (M3.5 screws) | Through type<br>XW2B-50G5     |
|  |   | Conversion Unit for General-purpose Controllers (M3 screws)   | Slim type<br>XW2D-50G6        |
|  | MECHATROLINK-II Communications<br>EtherCAT Communications | Conversion Unit for General-purpose Controllers (M3 screws)   | Through type<br>XW2B-20G4     |
|  |   | Conversion Unit for General-purpose Controllers (M3.5 screws) | Through type<br>XW2B-20G5     |
|  |   | Conversion Unit for General-purpose Controllers (M3 screws)   | Slim type<br>XW2D-20G6        |

● General-purpose/Pulse Train Inputs

Connection Cables (for CN1)

| Name  | Specifications   | The number of axes                        | Length                               | Model         |     |               |
|---|------------------|---|--------------------------------------|---------------|-----|---------------|
| Position Control Unit (High-speed type) for Line-driver output    | CJ1W-NC234/434   | for 1 axis                                | 1 m                                  | XW2Z-100J-G9  |     |               |
|   |                  |   | 5 m                                  | XW2Z-500J-G9  |     |               |
|   |                  |   | 10 m                                 | XW2Z-10MJ-G9  |     |               |
|   |                  | for 2 axis                                | 1 m                                  | XW2Z-100J-G1  |     |               |
|   |                  |   | 5 m                                  | XW2Z-500J-G1  |     |               |
|   |                  |   | 10 m                                 | XW2Z-10MJ-G1  |     |               |
| Position Control Unit (High-speed type) for Open collector output | CJ1W-NC214/NC414 | for 1 axis                                | 1 m                                  | XW2Z-100J-G13 |     |               |
|   |                  |   | 3 m                                  | XW2Z-300J-G13 |     |               |
|   |                  | for 2 axis                                | 1 m                                  | XW2Z-100J-G5  |     |               |
|   |                  |   | 3 m                                  | XW2Z-300J-G5  |     |               |
|   |                  | Control Cables for Motion Control Unit *1 | CS1W-MC221 (-V1)<br>CS1W-MC421 (-V1) | for 1 axis    | 1 m | R88A-CPG001M1 |
|   |                  |   |                                      |               | 2 m | R88A-CPG002M1 |
| 3 m   | R88A-CPG003M1    |   |                                      |               |     |               |
| 5 m   | R88A-CPG005M1    |   |                                      |               |     |               |
| for 2 axis  | 1 m              |   |                                      | R88A-CPG001M2 |     |               |
|   | 2 m              |   |                                      | R88A-CPG002M2 |     |               |
|   | 3 m              |   |                                      | R88A-CPG003M2 |     |               |
|   | 5 m              |   |                                      | R88A-CPG005M2 |     |               |

\*1. Applicable to General-purpose Input Servo Drives only. (i.e. R88D-KT□□□)

Device for External Signal Connection / Connecting Cables (for CJ1W-NC□□4)\*1

| Name                            | Specifications                           |                                       | Model                      |
|---------------------------------|--|---------------------------------------|----------------------------|
| Connector Terminal Block Cables | Connection Cables                        | Normal wiring                         | Length 0.5 m<br>XW2Z-C50X  |
|                                 |  |                                       | Length 1.0 m<br>XW2Z-100X  |
|                                 |  |                                       | Length 2.0 m<br>XW2Z-200X  |
|                                 |  |                                       | Length 3.0 m<br>XW2Z-300X  |
|                                 |  |                                       | Length 5.0 m<br>XW2Z-500X  |
|                                 |  |                                       | Length 10.0 m<br>XW2Z-010X |
|                                 | Connector Terminal Block Conversion Unit | 20 pin M2.4 screw Terminal Block type | Through type<br>XW2B-20G4  |
|                                 |  | 20 pin M3.5 screw Terminal Block type | Through type<br>XW2B-20G5  |
|                                 |  | 20 pin M3 screw Terminal Block type   | Slim type<br>XW2D-20G6     |

\*1. Applicable to General-purpose Input Servo Drives only. (i.e. R88D-KT□□□)



# AC Servomotor/Drive G5-series

## Servo Relay Units (for CN1)

| Specifications   | The number of axes | Model                |
|--|--------------------|----------------------|
| Position Control Unit:<br>For CJ1W-NC113/NC133<br>For CS1W-NC113/NC133<br>For C200HW-NC113                               | for 1 axis         | <b>XW2B-20J6-1B</b>  |
| Position Control Unit:<br>For CJ1W-NC213/NC233/NC413/NC433<br>For CS1W-NC213/NC233/NC413/NC433<br>For C200HW-NC213/NC413 | for 2 axis         | <b>XW2B-40J6-2B</b>  |
| For CJ2M-CPU31/CPU32/CPU33/CPU34/CPU35<br>For CJ2M-CPU11/CPU12/CPU13/CPU14/CPU15   | for 1 axis         | <b>XW2B-20J6-8A</b>  |
|  | for 2 axis         | <b>XW2B-40J6-9A</b>  |
| For FQM1-MMA22 (Analog output)<br>For FQM1-MMP22 (Pulse train output)  | for 2 axis         | <b>XW2B-80J7-12A</b> |

## Servo Relay Unit cable (for Servo Drive/CN1)

| Specifications   | Length | Model                |
|--|--------|----------------------|
| Position Control Unit:<br>For CJ1W-NC□□3□<br>For CS1W/C200HW-NC□□□□<br>(XW2B-20J6-1B, XW2B-40J6-2B)              | 1 m    | <b>XW2Z-100J-B25</b> |
|  | 2 m    | <b>XW2Z-200J-B25</b> |
| For CJ2M-CPU31/CPU32/CPU33/CPU34/CPU35<br>For CJ2M-CPU11/CPU12/CPU13/CPU14/CPU15<br>(XW2B-20J6-8A, XW2B-40J6-9A) | 1 m    | <b>XW2Z-100J-B31</b> |
|  | 2 m    | <b>XW2Z-200J-B31</b> |
| For FQM1-MMA22 (Analog output)<br>(XW2B-80J7-12A)  | 1 m    | <b>XW2Z-100J-B27</b> |
|  | 2 m    | <b>XW2Z-200J-B27</b> |
| For FQM1-MMP22 (Pulse train output)<br>(XW2B-80J7-12A)   | 1 m    | <b>XW2Z-100J-B26</b> |
|  | 2 m    | <b>XW2Z-200J-B26</b> |

**Note:** You cannot use a Servo Relay Unit Cable for line-receiver inputs (+CWLD: CN1 pin 44, -CWLD: CN1 pin 45, +CCWLD: CN1 pin 46, -CCWLD: CN1 pin 47).

Use a General-purpose Control Cable and wire the connector to match the controller.

## Servo Relay Unit cable (Position Control Unit)

| Specifications  | The number of axes              | Length     | Model                |                      |
|---|---------------------------------|------------|----------------------|----------------------|
| CJ1W line-driver output type<br>For CJ1W-NC133 (XW2B-20J6-1B)   | for 1 axis                      | 0.5 m      | <b>XW2Z-050J-A18</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A18</b> |                      |
| CJ1W line-driver output type<br>For CJ1W-NC233/NC433 (XW2B-40J6-2B)   | for 2 axis                      | 0.5 m      | <b>XW2Z-050J-A19</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A19</b> |                      |
| CS1W line-driver output type<br>For CS1W-NC133 (XW2B-20J6-1B)   | for 1 axis                      | 0.5 m      | <b>XW2Z-050J-A10</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A10</b> |                      |
| CS1W line-driver output type<br>For CS1W-NC233/NC433 (XW2B-40J6-2B)   | for 2 axis                      | 0.5 m      | <b>XW2Z-050J-A11</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A11</b> |                      |
| CJ1W open collector output type<br>For CJ1W-NC113 (XW2B-20J6-1B)  | for 1 axis                      | 0.5 m      | <b>XW2Z-050J-A14</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A14</b> |                      |
| CJ1W open collector output type<br>For CJ1W-NC213/NC413 (XW2B-40J6-2B)  | for 2 axis                      | 0.5 m      | <b>XW2Z-050J-A15</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A15</b> |                      |
| CS1W/C200HW open collector output type<br>For CS1W-NC113<br>For C200HW-NC113 (XW2B-20J6-1B)   | for 1 axis                      | 0.5 m      | <b>XW2Z-050J-A6</b>  |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A6</b>  |                      |
| CS1W/C200HW open collector output type<br>For CS1W-NC213/NC413<br>For C200HW-NC213/NC413 (XW2B-40J6-2B)   | for 2 axis                      | 0.5 m      | <b>XW2Z-050J-A7</b>  |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A7</b>  |                      |
| CJ1M open collector output type<br>For CJ2M-CPU31/CPU32/CPU33/CPU34/CPU35<br>For CJ2M-CPU11/CPU12/CPU13/CPU14/CPU15<br>(XW2B-20J6-8A, XW2B-40J6-9A) | for 1 axis                      | 0.5 m      | <b>XW2Z-050J-A33</b> |                      |
|   |                                 | 1 m        | <b>XW2Z-100J-A33</b> |                      |
| For FQM1-MMA22 (Analog output)<br>(XW2B-80J7-12A)   | General-purpose I/O<br>(26 pin) | for 2 axis | 0.5 m                | <b>XW2Z-050J-A28</b> |
|   |                                 |            | 1 m                  | <b>XW2Z-100J-A28</b> |
|   |                                 |            | 2 m                  | <b>XW2Z-200J-A28</b> |
|   | Special I/O<br>(40 pin)         | for 2 axis | 0.5 m                | <b>XW2Z-050J-A31</b> |
|   |                                 |            | 1 m                  | <b>XW2Z-100J-A31</b> |
|   |                                 |            | 2 m                  | <b>XW2Z-200J-A31</b> |
| For FQM1-MMP22 (Pulse train output)<br>(XW2B-80J7-12A)  | General-purpose I/O<br>(26 pin) | for 2 axis | 0.5 m                | <b>XW2Z-050J-A28</b> |
|   |                                 |            | 1 m                  | <b>XW2Z-100J-A28</b> |
|   |                                 |            | 2 m                  | <b>XW2Z-200J-A28</b> |
|   | Special I/O<br>(40 pin)         | for 2 axis | 0.5 m                | <b>XW2Z-050J-A30</b> |
|   |                                 |            | 1 m                  | <b>XW2Z-100J-A30</b> |
|   |                                 | 2 m        | <b>XW2Z-200J-A30</b> |                      |

■ **Communication Cables**

● **MECHATROLINK-II Communications**

**MECHATROLINK-related Devices and Cables (Manufactured by Yaskawa Corporation)**

| Name  | Length                  | Model<br>(OMRON model number) | Yaskawa model number |
|---|-------------------------|-------------------------------|----------------------|
|   |                         |                               |                      |
| MECHATROLINK-II Cables<br>(without ring core and USB connector on both ends)<br>* Can be connected to R88D-GN and R88D-KN only. | 0.5 m                   | FNY-W6002-A5                  | JEPMC-W6002-A5-E     |
|   | 1.0 m                   | FNY-W6002-01                  | JEPMC-W6002-01-E     |
|   | 3.0 m                   | FNY-W6002-03                  | JEPMC-W6002-03-E     |
|   | 5.0 m                   | FNY-W6002-05                  | JEPMC-W6002-05-E     |
|   |                         |                               |                      |
| MECHATROLINK-II Cables<br>(with ring core and USB connector on both ends)   | 0.5 m                   | FNY-W6003-A5                  | JEPMC-W6003-A5       |
|   | 1.0 m                   | FNY-W6003-01                  | JEPMC-W6003-01       |
|   | 3.0 m                   | FNY-W6003-03                  | JEPMC-W6003-03       |
|   | 5.0 m                   | FNY-W6003-05                  | JEPMC-W6003-05       |
|   | 10.0 m                  | FNY-W6003-10                  | JEPMC-W6003-10       |
|   | 20.0 m                  | FNY-W6003-20                  | JEPMC-W6003-20       |
|   | 30.0 m                  | FNY-W6003-30                  | JEPMC-W6003-30       |
| MECHATROLINK-II Terminating Resistor  | Terminating resistance  | FNY-W6022                     | JEPMC-W6022          |
| MECHATROLINK-II Repeater  | Communications Repeater | FNY-REP2000                   | JEPMC-REP2000        |



• MECHATROLINK-related Devices and Cables are manufactured by Yaskawa Corporation, but they can be ordered directly from OMRON using the OMRON model numbers. (Yaskawa-brand products will be delivered even when they are ordered from OMRON.)

● **Recommended EtherCAT Communications Cables**

Use Straight STP (shielded twisted-pair) cable of category 5 or higher with double shielding (braiding and aluminum foil tape) for EtherCAT.

**Cabel with Connectors**

**Wire Gauge and Number of Pairs: AWG22, 2-pair Cable**

| Item   | Appearance  | Recommended manufacturer | Cable length(m) | Model           |
|--|---|--------------------------|-----------------|-----------------|
| Cable with Connectors on Both Ends (RJ45/RJ45) |  | OMRON                    | 0.3             | XS5W-T421-AMD-K |
|  |   |                          | 0.5             | XS5W-T421-BMD-K |
|  |   |                          | 1               | XS5W-T421-CMD-K |
|  |   |                          | 2               | XS5W-T421-DMD-K |
|  |   |                          | 5               | XS5W-T421-GMD-K |
|  |   |                          | 10              | XS5W-T421-JMD-K |
| Cable with Connectors on Both Ends (M12/RJ45)  |  | OMRON                    | 0.3             | XS5W-T421-AMC-K |
|  |   |                          | 0.5             | XS5W-T421-BMC-K |
|  |   |                          | 1               | XS5W-T421-CMC-K |
|  |   |                          | 2               | XS5W-T421-DMC-K |
|  |   |                          | 5               | XS5W-T421-GMC-K |
|  |   |                          | 10              | XS5W-T421-JMC-K |

**Note:** The cable length 0.3, 0.5, 1, 2, 3, 5, 10 and 15m are available. For details, refer to Cat.No.G019.


**Cables / Connectors**

**Wire Gauge and Number of Pairs: AWG24, 4-pair Cable**

| Item            | Appearance | Recommended manufacturer     | Model             |
|-----------------|------------|------------------------------|-------------------|
| Cables          | –          | Hitachi Cable, Ltd.          | NETSTAR-C5E SAB * |
|                 | –          | Kuramo Electric Co.          | KETH-SB *         |
|                 | –          | SWCC Showa Cable Systems Co. | FAE-5004 *        |
| RJ45 Connectors | –          | Panduit Corporation          | MPS588 *          |

\* We recommend you to use above cable and connector together.

**Wire Gauge and Number of Pairs: AWG22, 2-pair Cable**

| Item                    | Appearance  | Recommended manufacturer | Model          |
|-------------------------|---|--------------------------|----------------|
| Cables                  | –   | Kuramo Electric Co.      | KETH-PSB-OMR * |
| RJ45 Assembly Connector |  | OMRON                    | XS6G-T421-1 *  |

\* We recommend you to use above cable and connector together.

**Note:** Connect both ends of cable shielded wires to the connector hoods.

## ■ Peripheral Devices (External Regeneration Resistors, Reactors, Mounting Brackets)

### External Regeneration Resistors

| Specifications | Model          |
|----------------|----------------|
| 80 W 50 Ω      | R88A-RR08050S  |
| 80 W 100 Ω     | R88A-RR080100S |
| 220 W 47 Ω     | R88A-RR22047S1 |
| 500 W 20 Ω     | R88A-RR50020S  |

### Reactors

| Specifications   |  |  |  | Model        |
|--|--|--|--|--------------|
| General-purpose Inputs   | MECHATROLINK-II Communications   | EtherCAT Communications  | Linear Motor with built-in EtherCAT communications   |              |
| R88D-KTA5L/-K□01H<br>(For single-phase input)                                    | R88D-KNA5L-ML2/-KN01H-ML2<br>(For single-phase input)  | R88D-KNA5L-ECT/-KN01H-ECT<br>(For single-phase input)  | R88D-KN01H-ECT-L<br>(For single-phase input)   | 3G3AX-DL2002 |
| R88D-KT01L/-K□02H<br>(For single-phase input)                                    | R88D-KN01L-ML2/-KN02H-ML2<br>(For single-phase input)  | R88D-KN01L-ECT/-KN02H-ECT<br>(For single-phase input)  | R88D-KN01L-ECT-L/-KN02H-ECT-L<br>(For single-phase input)  | 3G3AX-DL2004 |
| R88D-KT02L/-K□04H<br>(For single-phase input)                                    | R88D-KN02L-ML2/-KN04H-ML2<br>(For single-phase input)  | R88D-KN02L-ECT/-KN04H-ECT<br>(For single-phase input)  | R88D-KN02L-ECT-L/-KN04H-ECT-L<br>(For single-phase input)  | 3G3AX-DL2007 |
| R88D-KT04L/-K□08H/<br>-K□10H<br>(For single-phase input)                         | R88D-KN04L-ML2/-KN08H-ML2/<br>-KN10H-ML2<br>(For single-phase input)                                     | R88D-KN04L-ECT/-KN08H-ECT/<br>-KN10H-ECT<br>(For single-phase input)                                     | R88D-KN04L-ECT-L/-KN08H-ECT-L/<br>-KN10H-ECT-L<br>(For single-phase input)   | 3G3AX-DL2015 |
| R88D-K□15H<br>(For single-phase input)   | R88D-KN15H-ML2<br>(For single-phase input)   | R88D-KN15H-ECT<br>(For single-phase input)   | R88D-KN15H-ECT-L<br>(For single-phase input)   | 3G3AX-DL2022 |
| R88D-K□01H/-K□02H/<br>-K□04H/-K□08H/<br>-K□10H/-K□15H<br>(For three-phase input) | R88D-KN01H-ML2/-KN02H-ML2/<br>-KN04H-ML2/-KN08H-ML2/<br>-KN10H-ML2/-KN15H-ML2<br>(For three-phase input) | R88D-KN01H-ECT/-KN02H-ECT/<br>-KN04H-ECT/-KN08H-ECT/<br>-KN10H-ECT/-KN15H-ECT<br>(For three-phase input) | R88D-KN01H-ECT-L/-KN02H-ECT-L/<br>-KN04H-ECT-L/-KN08H-ECT-L/<br>-KN10H-ECT-L/-KN15H-ECT-L<br>(For three-phase input) | 3G3AX-AL2025 |
| R88D-K□20H/-K□30H  | R88D-KN20H-ML2/-KN30H-ML2  | R88D-KN20H-ECT/-KN30H-ECT  | -  | 3G3AX-AL2055 |
| R88D-K□50H   | R88D-KN50H-ML2   | R88D-KN50H-ECT   | -  | 3G3AX-AL2110 |
| R88D-KT06F/-KT10F/-KT15F   | R88D-KN06F-ML2/-KN10F-ML2/<br>-KN15F-ML2   | R88D-KN06F-ECT/-KN10F-ECT/<br>-KN15F-ECT   | R88D-KN06F-ECT-L/-KN10F-ECT-L/<br>-KN15F-ECT-L   | 3G3AX-AL4025 |
| R88D-KT20F/-KT30F  | R88D-KN20F-ML2/-KN30F-ML2  | R88D-KN20F-ECT/-KN30F-ECT  | R88D-KN20F-ECT-L/-KN30F-ECT-L  | 3G3AX-AL4055 |
| R88D-KT50F   | R88D-KN50F-ML2   | R88D-KN50F-ECT   | -  | 3G3AX-AL4110 |
| R88D-KT75H/-KT150F   | -  | R88D-KT75H-ECT/-KT150F-ECT   | -  | 3G3AX-AL4220 |

### Mounting Brackets (L Brackets for Rack Mounting)

| Specifications                            |  |  |  | Model      |
|---|--|--|--|------------|
| General-purpose Inputs                    | MECHATROLINK-II Communications                                     | EtherCAT Communications  | Linear Motor with built-in EtherCAT communications                           |            |
| R88D-KTA5L/-KT01L/<br>-K□01H/-K□02H       | R88D-KNA5L-ML2/-KN01L-ML2/<br>-KN01H-ML2/-KN02H-ML2                | R88D-KNA5L-ECT/-KN01L-ECT/<br>-KN01H-ECT/-KN02H-ECT                | R88D-KN01L-ECT-L/-KN01H-ECT-L/<br>-KN02H-ECT-L                               | R88A-TK01K |
| R88D-KT02L/-K□04H                         | R88D-KN02L-ML2/-KN04H-ML2  | R88D-KN02L-ECT/-KN04H-ECT  | R88D-KN02L-ECT-L/-KN04H-ECT-L  | R88A-TK02K |
| R88D-KT04L/-K□08H                         | R88D-KN04L-ML2/-KN08H-ML2  | R88D-KN04L-ECT/-KN08H-ECT  | R88D-KN04L-ECT-L/-KN08H-ECT-L  | R88A-TK03K |
| R88D-K□10H/K□15H/<br>-KT06F/-KT10F/-KT15F | R88D-KN10H-ML2/-KN15H-ML2/<br>-KN06F-ML2/-KN10F-ML2/<br>-KN15F-ML2 | R88D-KN10H-ECT/-KN15H-ECT/<br>-KN06F-ECT/-KN10F-ECT/<br>-KN15F-ECT | R88D-KN10H-ECT-L/-KN15H-ECT-L/<br>-KN06F-ECT-L/-KN10F-ECT-L/<br>-KN15F-ECT-L | R88A-TK04K |

**Note:** Mounting brackets are provided with Servo Drives of 2 to 15 kW.

■ Software

**How to Select Required Support Software for Your Controller**

The required Support Software depends on the Controller to connect. Please check the following table when purchasing the Support Software.

| Item                  | Omron Machine Automation Controller System  | Omron PLC System   |
|-----------------------|---|--|
| Controller            | NJ-series   | CS, CJ, CP, and other series   |
| AC Servomotor/Drivers | G5-series <ul style="list-style-type: none"> <li>EtherCAT Communications (Unit version 2.1 or later recommended)</li> <li>EtherCAT Communications Linear Motor</li> </ul> | G5-series <ul style="list-style-type: none"> <li>EtherCAT Communications</li> <li>EtherCAT Communications Linear Motor</li> <li>General-purpose input type(PulseTrain or Analog inputs)</li> <li>MECHATROLINK-II Communications</li> </ul> |
| Software              | Automation Software Sysmac Studio   | FA Intergrated Tool Package CX-One   |

■ Automation Software Sysmac Studio

Please purchase a DVD and required number of licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. Each model of licenses does not include any DVD.

| Product name                            | Specifications   |                    |       | Model         | Standards |
|---|--|--------------------|-------|---------------|-----------|
|   |  | Number of licenses | Media |               |           |
| Sysmac Studio Standard Edition Ver.1.□□ | The Sysmac Studio provides an integrated development environment to set up, program, debug, and maintain NJ-series Controllers and other Machine Automation Controllers, as well as EtherCAT slaves.<br><br>Sysmac Studio runs on the following OS.<br>Windows XP (Service Pack 3 or higher, 32-bit version)/ Vista (32-bit version) / 7 (32-bit/64-bit version) | –<br>(Media only)  | DVD   | SYSMAC-SE200D | –         |
|   | The Sysmac Studio Standard Edition DVD includes Support Software to set up EtherNet/IP Units, DeviceNet slaves, Serial Communications Units, and Support Software for creating screens on HMIs (CX-Designer).<br>For details, refer to the Sysmac Integrated Catalogue (P072).   | 1 license<br>*     | –     | SYSMAC-SE201L | –         |

\* Multi licenses are available for the Sysmac Studio (3, 10, 30, or 50 licenses).

■ FA Integrated Tool Package CX-One

| Product name                               | Specifications   |                    |           | Model          | Standards |
|--|--|--------------------|-----------|----------------|-----------|
|  |  | Number of licenses | Media     |                |           |
| FA Integrated Tool Package CX-One Ver. 4.□ | The CX-One is a comprehensive software package that integrates Support Software for OMRON PLCs and components.<br><br>CX-One runs on following OS.<br>OS: Windows XP (Service Pack 3 or higher), Vista or 7<br><b>Note:</b> Except for Windows XP 64-bit version.<br><br>CX-One Version.4.□ includes CX-Drive Ver.2.□. | 1 license<br>*1    | DVD<br>*2 | CXONE-AL01D-V4 | –         |

\*1. Multi licenses are available for the CX-One (3, 10, 30, or 50 licenses).

\*2. The CX-One is also available on CD (CXONE-AL□□C-V4).

Combination table (General-purpose Inputs/MECHATROLINK-II/EtherCAT)

AC Servo Drive and Servomotor Combinations (3,000 r/min, 2,000 r/min, 1,500r/min, 1,000 r/min)

<Cylinder Type>

● 3,000-r/min servomotors

| Power Supply Voltage                           | Servo Drive Model Numbers |                  |                  | Servomotor Model Numbers |                          |                       |
|--|---------------------------|------------------|------------------|--------------------------|--------------------------|-----------------------|
|  | General-purpose Inputs    | MECHATROLINK-II  | EtherCAT         | Output                   | With incremental encoder | With absolute encoder |
| Single-phase<br>100 to 120 VAC                 | R88D-KTA5L                | R88D-KNA5L-ML2   | R88D-KNA5L-ECT   | 50 W                     | R88M-K05030H-□           | R88M-K05030T-□        |
|  | R88D-KT01L                | R88D-KN01L-ML2   | R88D-KN01L-ECT   | 100 W                    | R88M-K10030L-□           | R88M-K10030S-□        |
|  | R88D-KT02L                | R88D-KN02L-ML2   | R88D-KN02L-ECT   | 200 W                    | R88M-K20030L-□           | R88M-K20030S-□        |
|  | R88D-KT04L                | R88D-KN04L-ML2   | R88D-KN04L-ECT   | 400 W                    | R88M-K40030L-□           | R88M-K40030S-□        |
| Single-phase/<br>three-phase<br>200 to 240 VAC | R88D-KT01H *              | R88D-KN01H-ML2 * | R88D-KN01H-ECT * | 50 W                     | R88M-K05030H-□ *         | R88M-K05030T-□ *      |
|  | R88D-KT01H                | R88D-KN01H-ML2   | R88D-KN01H-ECT   | 100 W                    | R88M-K10030H-□           | R88M-K10030T-□        |
|  | R88D-KT02H                | R88D-KN02H-ML2   | R88D-KN02H-ECT   | 200 W                    | R88M-K20030H-□           | R88M-K20030T-□        |
|  | R88D-KT04H                | R88D-KN04H-ML2   | R88D-KN04H-ECT   | 400 W                    | R88M-K40030H-□           | R88M-K40030T-□        |
|  | R88D-KT08H                | R88D-KN08H-ML2   | R88D-KN08H-ECT   | 750 W                    | R88M-K75030H-□           | R88M-K75030T-□        |
|  | R88D-KT15H *              | R88D-KN15H-ML2 * | R88D-KN15H-ECT * | 1 kW                     | R88M-K1K030H-□ *         | R88M-K1K030T-□ *      |
| Three-phase<br>200 to 240 VAC                  | R88D-KT15H                | R88D-KN15H-ML2   | R88D-KN15H-ECT   | 1.5 kW                   | R88M-K1K530H-□           | R88M-K1K530T-□        |
|  | R88D-KT20H                | R88D-KN20H-ML2   | R88D-KN20H-ECT   | 2 kW                     | R88M-K2K030H-□           | R88M-K2K030T-□        |
|  | R88D-KT30H                | R88D-KN30H-ML2   | R88D-KN30H-ECT   | 3 kW                     | R88M-K3K030H-□           | R88M-K3K030T-□        |
|  | R88D-KT50H                | R88D-KN50H-ML2   | R88D-KN50H-ECT * | 4 kW                     | R88M-K4K030H-□           | R88M-K4K030T-□        |
| Three-phase<br>400 to 480 VAC                  | R88D-KT50H                | R88D-KN50H-ML2   | R88D-KN50H-ECT   | 5 kW                     | R88M-K5K030H-□           | R88M-K5K030T-□        |
|  | R88D-KT10F                | R88D-KN10F-ML2   | R88D-KN10F-ECT * | 750 W                    | R88M-K75030F-□           | R88M-K75030C-□        |
|  | R88D-KT15F *              | R88D-KN15F-ML2 * | R88D-KN15F-ECT * | 1 kW                     | R88M-K1K030F-□ *         | R88M-K1K030C-□ *      |
|  | R88D-KT15F                | R88D-KN15F-ML2   | R88D-KN15F-ECT   | 1.5 kW                   | R88M-K1K530F-□           | R88M-K1K530C-□        |
|  | R88D-KT20F                | R88D-KN20F-ML2   | R88D-KN20F-ECT   | 2 kW                     | R88M-K2K030F-□           | R88M-K2K030C-□        |
|  | R88D-KT30F                | R88D-KN30F-ML2   | R88D-KN30F-ECT   | 3 kW                     | R88M-K3K030F-□           | R88M-K3K030C-□        |
|  | R88D-KT50F                | R88D-KN50F-ML2   | R88D-KN50F-ECT * | 4 kW                     | R88M-K4K030F-□           | R88M-K4K030C-□        |
| R88D-KT50F                                     | R88D-KN50F-ML2            | R88D-KN50F-ECT   | 5 kW             | R88M-K5K030F-□           | R88M-K5K030C-□           |                       |

● 1,500r/min, 2,000-r/min servomotors

| Power Supply Voltage                           | Servo Drive Model Numbers |                   |                   | Servomotor Model Numbers |                          |                       |
|--|---------------------------|-------------------|-------------------|--------------------------|--------------------------|-----------------------|
|  | General-purpose Inputs    | MECHATROLINK-II   | EtherCAT          | Output                   | With incremental encoder | With absolute encoder |
| Single-phase/<br>three-phase<br>200 to 240 VAC | R88D-KT10H                | R88D-KN10H-ML2    | R88D-KN10H-ECT    | 1 kW                     | R88M-K1K020H-□           | R88M-K1K020T-□        |
|  | R88D-KT15H                | R88D-KN15H-ML2    | R88D-KN15H-ECT    | 1.5 kW                   | R88M-K1K520H-□           | R88M-K1K520T-□        |
| Three-phase<br>200 to 240 VAC                  | R88D-KT20H                | R88D-KN20H-ML2    | R88D-KN20H-ECT    | 2 kW                     | R88M-K2K020H-□           | R88M-K2K020T-□        |
|  | R88D-KT30H                | R88D-KN30H-ML2    | R88D-KN30H-ECT    | 3 kW                     | R88M-K3K020H-□           | R88M-K3K020T-□        |
|  | R88D-KT50H *              | R88D-KN50H-ML2 *  | R88D-KN50H-ECT *  | 4 kW                     | R88M-K4K020H-□ *         | R88M-K4K020T-□ *      |
|  | R88D-KT50H                | R88D-KN50H-ML2    | R88D-KN50H-ECT    | 5 kW                     | R88M-K5K020H-□           | R88M-K5K020T-□        |
|  | R88D-KT75H                | —                 | R88D-KN75H-ECT    | 7.5 kW                   | —                        | R88M-K7K515T-□        |
|  | R88D-KT150H *             | —                 | R88D-KN150H-ECT * | 11 kW                    | —                        | R88M-K11K015T-□ *     |
| Three-phase<br>400 to 480 VAC                  | R88D-KT150H               | —                 | R88D-KN150H-ECT   | 15 kW                    | —                        | R88M-K15K015T-□       |
|  | R88D-KT06F                | R88D-KN06F-ML2    | R88D-KN06F-ECT*   | 400 W                    | R88M-K40020F-□           | R88M-K40020C-□        |
|  | R88D-KT06F                | R88D-KN06F-ML2    | R88D-KN06F-ECT    | 600 W                    | R88M-K60020F-□           | R88M-K60020C-□        |
|  | R88D-KT10F                | R88D-KN10F-ML2    | R88D-KN10F-ECT    | 1 kW                     | R88M-K1K020F-□           | R88M-K1K020C-□        |
|  | R88D-KT15F                | R88D-KN15F-ML2    | R88D-KN15F-ECT    | 1.5 kW                   | R88M-K1K520F-□           | R88M-K1K520C-□        |
|  | R88D-KT20F                | R88D-KN20F-ML2    | R88D-KN20F-ECT    | 2 kW                     | R88M-K2K020F-□           | R88M-K2K020C-□        |
|  | R88D-KT30F                | R88D-KN30F-ML2    | R88D-KN30F-ECT    | 3 kW                     | R88M-K3K020F-□           | R88M-K3K020C-□        |
|  | R88D-KT50F *              | R88D-KN50F-ML2 *  | R88D-KN50F-ECT *  | 4 kW                     | R88M-K4K020F-□ *         | R88M-K4K020C-□ *      |
|  | R88D-KT50F                | R88D-KN50F-ML2    | R88D-KN50F-ECT    | 5 kW                     | R88M-K5K020F-□           | R88M-K5K020C-□        |
|  | R88D-KT75F                | —                 | R88D-KN75F-ECT    | 7.5 kW                   | —                        | RR88M-K7K515C-□       |
| R88D-KT150F *                                  | —                         | R88D-KN150F-ECT * | 11 kW             | —                        | R88M-K11K015C-□ *        |                       |
| R88D-KT150F                                    | —                         | R88D-KN150F-ECT   | 15 kW             | —                        | R88M-K15K015C-□          |                       |

\* Please use the Servo Drive and Servomotor in this combination although their capacity is not same.



● 1,000-r/min servomotors

| Power Supply Voltage                           | Servo Drive Model Numbers |                  |                  | Servomotor Model Numbers |                          |                       |
|--|---------------------------|------------------|------------------|--------------------------|--------------------------|-----------------------|
|  | General-purpose Inputs    | MECHATROLINK-II  | EtherCAT         | Output                   | With incremental encoder | With absolute encoder |
| Single-phase/<br>three-phase<br>200 to 240 VAC | R88D-KT15H *              | R88D-KN15H-ML2 * | R88D-KN15H-ECT * | 900 W                    | R88M-K90010H-□ *         | R88M-K90010T-□ *      |
| Three-phase<br>200 to 240 VAC                  | R88D-KT30H *              | R88D-KN30H-ML2 * | R88D-KN30H-ECT * | 2 kW                     | R88M-K2K010H-□ *         | R88M-K2K010T-□ *      |
|  | R88D-KT50H *              | R88D-KN50H-ML2 * | R88D-KN50H-ECT * | 3 kW                     | R88M-K3K010H-□ *         | R88M-K3K010T-□ *      |
|  | R88D-KT50H *              | –                | R88D-KN50H-ECT * | 4.5 kW                   | –                        | R88M-K4K510T-□ *      |
|  | R88D-KT75H *              | –                | R88D-KN75H-ECT * | 6 kW                     | –                        | R88M-K6K010T-□ *      |
| Three-phase<br>400 to 480 VAC                  | R88D-KT15F *              | R88D-KN15F-ML2 * | R88D-KN15F-ECT * | 900 W                    | R88M-K90010F-□ *         | R88M-K90010C-□ *      |
|  | R88D-KT30F *              | R88D-KN30F-ML2 * | R88D-KN30F-ECT * | 2 kW                     | R88M-K2K010F-□ *         | R88M-K2K010C-□ *      |
|  | R88D-KT50F *              | R88D-KN50F-ML2 * | R88D-KN50F-ECT * | 3 kW                     | R88M-K3K010F-□ *         | R88M-K3K010C-□ *      |
|  | R88D-KT50F *              | –                | R88D-KN50F-ECT * | 4.5 kW                   | –                        | R88M-K4K510C-□ *      |
|  | R88D-KT75F *              | –                | R88D-KN75F-ECT * | 6 kW                     | –                        | R88M-K6K010C-□ *      |

\* Please use the Servo Drive and Servomotor in this combination although their capacity is not same.

## AC Servomotor and Decelerator Combinations (3,000 r/min, 2,000 r/min, 1,000 r/min)

### <Cylinder Type>

#### ● 3,000-r/min servomotors

| Motor model               | 1/5   | 1/11<br>(1/9 for flange size No.11)                 | 1/21   | 1/33   | 1/45  |
|---------------------------|---|---|--|--|---|
| R88M-K05030□              | R88G-HPG11B05100B□<br>(Also used with R88M-K10030□) | R88G-HPG11B09050B□<br>(Gear ratio 1/9)              | R88G-HPG14A21100B□<br>(Also used with R88M-K10030□)  | R88G-HPG14A33050B□                                   | R88G-HPG14A45050B□                                  |
| R88M-K10030□              | R88G-HPG11B05100B□                                  | R88G-HPG14A11100B□                                  | R88G-HPG14A21100B□                                   | R88G-HPG20A33100B□                                   | R88G-HPG20A45100B□                                  |
| R88M-K20030□              | R88G-HPG14A05200B□                                  | R88G-HPG14A11200B□                                  | R88G-HPG20A21200B□                                   | R88G-HPG20A33200B□                                   | R88G-HPG20A45200B□                                  |
| R88M-K40030□              | R88G-HPG14A05400B□                                  | R88G-HPG20A11400B□                                  | R88G-HPG20A21400B□                                   | R88G-HPG32A33400B□                                   | R88G-HPG32A45400B□                                  |
| R88M-K75030H/T<br>(200 V) | R88G-HPG20A05750B□                                  | R88G-HPG20A11750B□                                  | R88G-HPG32A21750B□                                   | R88G-HPG32A33750B□                                   | R88G-HPG32A45750B□                                  |
| R88M-K75030F/C<br>(400 V) | R88G-HPG32A052K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A112K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A211K5B□<br>(Also used with R88M-K1K5030□) | R88G-HPG32A33600SB□<br>(Also used with R88M-K60020□) | R88G-HPG50A451K5B□<br>(Also used with R88M-K1K530□) |
| R88M-K1K030□              | R88G-HPG32A052K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A112K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A211K5B□<br>(Also used with R88M-K1K5030□) | R88G-HPG50A332K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG50A451K5B□<br>(Also used with R88M-K1K530□) |
| R88M-K1K530□              | R88G-HPG32A052K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A112K0B□<br>(Also used with R88M-K2K030□) | R88G-HPG32A211K5B□                                   | R88G-HPG50A332K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG50A451K5B□                                  |
| R88M-K2K030□              | R88G-HPG32A052K0B□                                  | R88G-HPG32A112K0B□                                  | R88G-HPG50A212K0B□                                   | R88G-HPG50A332K0B□                                   | -   |
| R88M-K3K030□              | R88G-HPG32A053K0B□                                  | R88G-HPG50A113K0B□                                  | R88G-HPG50A213K0B□                                   | -  | -   |
| R88M-K4K030□              | R88G-HPG32A054K0B□                                  | R88G-HPG50A115K0B□<br>(Also used with R88M-K5K030□) | -  | -  | -   |
| R88M-K5K030□              | R88G-HPG50A055K0B□                                  | R88G-HPG50A115K0B□                                  | -  | -  | -   |

#### ● 2,000-r/min servomotors

| Motor model                  | 1/5  | 1/11   | 1/21<br>(1/20 for flange size No.65)                 | 1/33<br>(1/25 for flange size No.65)                 | 1/45                                 |
|------------------------------|--|--|--|--|--------------------------------------|
| R88M-K40020□<br>(Only 400 V) | R88G-HPG32A052K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG32A112K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG32A211K5B□<br>(Also used with R88M-K1K5030□) | R88G-HPG32A33600SB□<br>(Also used with R88M-K60020□) | R88G-HPG32A45400SB□                  |
| R88M-K60020□<br>(Only 400 V) | R88G-HPG32A052K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG32A112K0B□<br>(Also used with R88M-K2K030□)  | R88G-HPG32A211K5B□<br>(Also used with R88M-K1K5030□) | R88G-HPG32A33600SB□                                  | R88G-HPG50A451K5B□<br>(R88M-K1K530□) |
| R88M-K1K020□                 | R88G-HPG32A053K0B□<br>(Also used with R88M-K3K030□)  | R88G-HPG32A112K0SB□<br>(Also used with R88M-K2K020□) | R88G-HPG32A211K0SB□                                  | R88G-HPG50A332K0SB□<br>(Also used with R88M-K2K020□) | R88G-HPG50A451K0SB□                  |
| R88M-K1K520□                 | R88G-HPG32A053K0B□<br>(Also used with R88M-K3K030□)  | R88G-HPG32A112K0SB□<br>(Also used with R88M-K2K020□) | R88G-HPG50A213K0B□<br>(Also used with R88M-K3K030□)  | R88G-HPG50A332K0SB□<br>(Also used with R88M-K2K020□) | -                                    |
| R88M-K2K020□                 | R88G-HPG32A053K0B□<br>(Also used with R88M-K3K030□)  | R88G-HPG32A112K0SB□                                  | R88G-HPG50A213K0B□<br>(Also used with R88M-K3K030□)  | R88G-HPG50A332K0SB□                                  | -                                    |
| R88M-K3K020□                 | R88G-HPG32A054K0B□<br>(Also used with R88M-K4K030□)  | R88G-HPG50A115K0B□<br>(Also used with R88M-K5K030□)  | R88G-HPG50A213K0SB□                                  | R88G-HPG65A253K0SB□                                  | -                                    |
| R88M-K4K020□                 | R88G-HPG50A055K0SB□<br>(Also used with R88M-K5K020□) | R88G-HPG50A115K0SB□<br>(Also used with R88M-K3K030□) | R88G-HPG65A205K0SB□<br>(Also used with R88M-K3K030□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-K5K020□) | -                                    |
| R88M-K5K020□                 | R88G-HPG50A055K0SB□                                  | R88G-HPG50A115K0SB□                                  | R88G-HPG65A205K0SB□                                  | R88G-HPG65A255K0SB□                                  | -                                    |

#### ● 1,000-r/min servomotors

| Motor model  | 1/5  | 1/11   | 1/21<br>(1/20 for flange size No.65)                 | 1/33<br>(1/25 for flange size No.65)                 |
|--------------|--|--|--|--|
| R88M-K90010□ | R88G-HPG32A05900TB□                                  | R88G-HPG32A11900TB□                                  | R88G-HPG50A21900TB□                                  | R88G-HPG50A33900TB□                                  |
| R88M-K2K010□ | R88G-HPG32A052K0TB□                                  | R88G-HPG50A112K0TB□                                  | R88G-HPG50A212K0TB□<br>(Also used with R88M-K5K020□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-K5K020□) |
| R88M-K3K010□ | R88G-HPG50A055K0SB□<br>(Also used with R88M-K5K020□) | R88G-HPG50A115K0SB□<br>(Also used with R88M-K5K020□) | R88G-HPG65A205K0SB□<br>(Also used with R88M-K5K020□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-K5K020□) |

## Combination table (Pulse Train Input Type)

### Servo Drive and Servomotor Combinations (3,000 r/min, 2,000 r/min, 1,000 r/min)

<Cylinder Type>

#### ● 3,000-r/min servomotors

| Power Supply Voltage               | Servo Drive Model Numbers | Servomotor Model Numbers |                          |
|------------------------------------|---------------------------|--------------------------|--------------------------|
|                                    |                           | Output                   | With incremental encoder |
| Single-phase/three-phase<br>200VAC | R88D-KP01H *              | 50 W *                   | R88M-KE05030H-□ *        |
|                                    | R88D-KP01H                | 100 W                    | R88M-KE10030H-□          |
|                                    | R88D-KP02H                | 200 W                    | R88M-KE20030H-□          |
|                                    | R88D-KP04H                | 400 W                    | R88M-KE40030H-□          |
|                                    | R88D-KP08H                | 750 W                    | R88M-KE75030H-□          |
|                                    | R88D-KP15H *              | 1 kW *                   | R88M-KE1K030H-□ *        |
|                                    | R88D-KP15H                | 1.5 kW                   | R88M-KE1K530H-□          |
| Three-phase<br>200VAC              | R88D-KP20H                | 2 kW                     | R88M-KE2K030H-□          |
|                                    | R88D-KP30H                | 3 kW                     | R88M-KE3K030H-□          |
|                                    | R88D-KP50H*               | 4 kW *                   | R88M-KE4K030H-□ *        |
|                                    | R88D-KP50H                | 5 kW                     | R88M-KE5K030H-□          |

\* Please note the capacity of Servo Drive and Servomotor are not same in this combination.

#### ● 2,000-r/min servomotors

| Power Supply Voltage               | Servo Drive Model Numbers | Servomotor Model Numbers |                          |
|------------------------------------|---------------------------|--------------------------|--------------------------|
|                                    |                           | Output                   | With incremental encoder |
| Single-phase/three-phase<br>200VAC | R88D-KP10H                | 1 kW                     | R88M-KE1K020H-□          |
|                                    | R88D-KP15H                | 1.5 kW                   | R88M-KE1K520H-□          |
| Three-phase<br>200VAC              | R88D-KP20H                | 2 kW                     | R88M-KE2K020H-□          |
|                                    | R88D-KP30H                | 3 kW                     | R88M-KE3K020H-□          |
|                                    | R88D-KP50H *              | 4 kW *                   | R88M-KE4K020H-□ *        |
|                                    | R88D-KP50H                | 5 kW                     | R88M-KE5K020H-□          |

\* Please note the capacity of Servo Drive and Servomotor are not same in this combination.

#### ● 1,000-r/min servomotors

| Power Supply Voltage               | Servo Drive Model Numbers | Servomotor Model Numbers |                          |
|------------------------------------|---------------------------|--------------------------|--------------------------|
|                                    |                           | Output                   | With incremental encoder |
| Single-phase/three-phase<br>200VAC | R88D-KP15H *              | 900 W *                  | R88M-KE90010H-□ *        |
| Three-phase<br>200VAC              | R88D-KP30H *              | 2 kW *                   | R88M-KE2K010H-□ *        |
|                                    | R88D-KP50H *              | 3 kW *                   | R88M-KE3K010H-□ *        |

\* Please note the capacity of Servo Drive and Servomotor are not same in this combination.

**Servomotor and Decelerator Combinations (3,000 r/min, 2,000 r/min, 1,000 r/min)**

**<Cylinder Type>**

**● 3,000-r/min servomotors**

| Motor model   | 1/5  | 1/11<br>(1/9 for flange size No.11)                  | 1/21  | 1/33   | 1/45  |
|---------------|--|--|---|--|---|
| R88M-KE05030□ | R88G-HPG11B05100B□<br>(Also used with R88M-KE10030□) | R88G-HPG11B09050B□<br>(Gear ratio 1/9)               | R88G-HPG14A21100B□<br>(Also used with R88M-KE10030□)  | R88G-HPG14A33050B□                                   | R88G-HPG14A45050B□                                  |
| R88M-KE10030□ | R88G-HPG11B05100B□                                   | R88G-HPG14A11100B□                                   | R88G-HPG14A21100B□                                    | R88G-HPG20A33100B□                                   | R88G-HPG20A45100B□                                  |
| R88M-KE20030□ | R88G-HPG14A05200B□                                   | R88G-HPG14A11200B□                                   | R88G-HPG20A21200B□                                    | R88G-HPG20A33200B□                                   | R88G-HPG20A45200B□                                  |
| R88M-KE40030□ | R88G-HPG14A05400B□                                   | R88G-HPG20A11400B□                                   | R88G-HPG20A21400B□                                    | R88G-HPG32A33400B□                                   | R88G-HPG32A45400B□                                  |
| R88M-KE75030□ | R88G-HPG20A05750B□                                   | R88G-HPG20A11750B□                                   | R88G-HPG32A21750B□                                    | R88G-HPG32A33750B□                                   | R88G-HPG32A45750B□                                  |
| R88M-KE1K030□ | R88G-HPG32A052K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG32A112K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG32A211K5B□<br>(Also used with R88M-KE1K5030□) | R88G-HPG50A332K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG50A451K5B□<br>Also used with R88M-KE1K530□) |
| R88M-KE1K530□ | R88G-HPG32A052K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG32A112K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG32A211K5B□                                    | R88G-HPG50A332K0B□<br>(Also used with R88M-KE2K030□) | R88G-HPG50A451K5B□                                  |
| R88M-KE2K030□ | R88G-HPG32A052K0B□                                   | R88G-HPG32A112K0B□                                   | R88G-HPG50A212K0B□                                    | R88G-HPG50A332K0B□                                   | -   |
| R88M-KE3K030□ | R88G-HPG32A053K0B□                                   | R88G-HPG50A113K0B□                                   | R88G-HPG50A213K0B□                                    | -  | -   |
| R88M-KE4K030□ | R88G-HPG32A054K0B□                                   | R88G-HPG50A115K0B□<br>(Also used with R88M-KE5K030□) | -   | -  | -   |
| R88M-KE5K030□ | R88G-HPG50A055K0B□                                   | R88G-HPG50A115K0B□                                   | -   | -  | -   |

**● 2,000-r/min servomotors**

| Motor model   | 1/5  | 1/11  | 1/21<br>(1/20 for flange size No.65)                  | 1/33<br>(1/25 for flange size No.65)                  | 1/45                |
|---------------|--|---|---|---|---------------------|
| R88M-KE1K020□ | R88G-HPG32A053K0B□<br>(Also used with R88M-KE3K030□) | R88G-HPG32A112K0SB□<br>(Also used with R88M-KE2K020□) | R88G-HPG32A211K0SB□                                   | R88G-HPG50A332K0SB□<br>(Also used with R88M-KE2K020□) | R88G-HPG50A451K0SB□ |
| R88M-KE1K520□ | R88G-HPG32A053K0B□<br>(Also used with R88M-KE3K030□) | R88G-HPG32A112K0SB□<br>(Also used with R88M-KE2K020□) | R88G-HPG50A213K0B□<br>(Also used with R88M-KE3K030□)  | R88G-HPG50A332K0SB□<br>(Also used with R88M-KE2K020□) | -                   |
| R88M-KE2K020□ | R88G-HPG32A053K0B□<br>(Also used with R88M-KE3K030□) | R88G-HPG32A112K0SB□                                   | R88G-HPG50A213K0B□<br>(Also used with R88M-KE3K030□)  | R88G-HPG50A332K0SB□                                   | -                   |
| R88M-KE3K020□ | R88G-HPG32A054K0B□<br>(Also used with R88M-KE4K030□) | R88G-HPG50A115K0B□<br>(Also used with R88M-KE5K030□)  | R88G-HPG50A213K0SB□                                   | R88G-HPG65A253K0SB□                                   | -                   |
| R88M-KE4K020□ | R88GHPG50A055K0SB□<br>(Also used with R88M-KE5K020□) | R88G-HPG50A115K0SB□<br>(Also used with R88M-KE3K030□) | R88G-HPG65A205K0SB□<br>(Also used with R88M-KE3K030□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-KE5K020□) | -                   |
| R88M-KE5K020□ | R88GHPG50A055K0SB□                                   | R88G-HPG50A115K0SB□                                   | R88G-HPG65A205K0SB□                                   | R88G-HPG65A255K0SB□                                   | -                   |

**● 1,000-r/min servomotors**

| Motor model   | 1/5   | 1/11  | 1/21<br>(1/20 for flange size No.65)                  | 1/33<br>(1/25 for flange size No.65)                  |
|---------------|---|---|---|---|
| R88M-KE90010□ | R88G-HPG32A05900TB□                                   | R88G-HPG32A11900TB□                                   | R88G-HPG50A21900TB□                                   | R88G-HPG50A33900TB□                                   |
| R88M-KE2K010□ | R88G-HPG32A052K0TB□                                   | R88G-HPG50A112K0TB□                                   | R88G-HPG50A212K0TB□<br>(Also used with R88M-KE5K020□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-KE5K020□) |
| R88M-KE3K010□ | R88G-HPG50A055K0SB□<br>(Also used with R88M-KE5K020□) | R88G-HPG50A115K0SB□<br>(Also used with R88M-KE5K020□) | R88G-HPG65A205K0SB□<br>(Also used with R88M-KE5K020□) | R88G-HPG65A255K0SB□<br>(Also used with R88M-KE5K020□) |

## Linear Motor and AC Servo Drive Linear Motor Type Combinations

### ● Iron-core Linear Motor type

| Linear Motor Model Numbers | Power Supply Voltage (V) | Servo Drive Model Numbers | Maximum speed (m/s) |
|----------------------------|--------------------------|---------------------------|---------------------|
| R88L-EC-FW-0303-ANPC       | 100                      | R88D-KN01L-ECT-L          | 2.5                 |
|                            | 200                      | R88D-KN02H-ECT-L          | 5                   |
|                            | 400                      | R88D-KN06F-ECT-L          | 10                  |
| R88L-EC-FW-0306-ANPC       | 100                      | R88D-KN02L-ECT-L          | 2.5                 |
|                            | 200                      | R88D-KN04H-ECT-L          | 5                   |
|                            | 400                      | R88D-KN10F-ECT-L          | 10                  |
| R88L-EC-FW-0606-ANPC       | 100                      | R88D-KN04L-ECT-L          | 2                   |
|                            | 200                      | R88D-KN08H-ECT-L          | 4                   |
|                            | 400                      | R88D-KN15F-ECT-L          | 8                   |
| R88L-EC-FW-0609-ANPC       | 200                      | R88D-KN10H-ECT-L          | 4                   |
|                            | 400                      | R88D-KN20F-ECT-L          | 8                   |
| R88L-EC-FW-0612-ANPC       | 200                      | R88D-KN15H-ECT-L          | 4                   |
|                            | 400                      | R88D-KN30F-ECT-L          | 8                   |
| R88L-EC-FW-1112-ANPC       | 200                      | R88D-KN15H-ECT-L          | 2                   |
|                            | 400                      | R88D-KN30F-ECT-L          | 4                   |
| R88L-EC-FW-1115-ANPC       | 200                      | R88D-KN15H-ECT-L          | 2                   |
|                            | 400                      | R88D-KN30F-ECT-L          | 4                   |

### ● Ironless Linear Motor type

| Linear Motor Model Numbers | Power Supply Voltage (V) | Servo Drive Model Numbers | Maximum speed (m/s) |
|----------------------------|--------------------------|---------------------------|---------------------|
| R88L-EC-GW-0303-ANPS       | 100                      | R88D-KN01L-ECT-L          | 8                   |
|                            | 200                      | R88D-KN02H-ECT-L          | 16                  |
| R88L-EC-GW-0306-ANPS       | 100                      | R88D-KN04L-ECT-L          | 8                   |
|                            | 200                      | R88D-KN08H-ECT-L          | 16                  |
| R88L-EC-GW-0309-ANPS       | 200                      | R88D-KN10H-ECT-L          | 16                  |
| R88L-EC-GW-0503-ANPS       | 100                      | R88D-KN01L-ECT-L          | 2.2                 |
|                            | 200                      | R88D-KN02H-ECT-L          | 4.4                 |
| R88L-EC-GW-0506-ANPS       | 100                      | R88D-KN02L-ECT-L          | 2.2                 |
|                            | 200                      | R88D-KN04H-ECT-L          | 4.4                 |
| R88L-EC-GW-0509-ANPS       | 100                      | R88D-KN04L-ECT-L          | 2.2                 |
|                            | 200                      | R88D-KN08H-ECT-L          | 4.4                 |
| R88L-EC-GW-0703-ANPS       | 100                      | R88D-KN02L-ECT-L          | 1.2                 |
|                            | 200                      | R88D-KN04H-ECT-L          | 2.4                 |
| R88L-EC-GW-0706-ANPS       | 100                      | R88D-KN04L-ECT-L          | 1.2                 |
|                            | 200                      | R88D-KN08H-ECT-L          | 2.4                 |
| R88L-EC-GW-0709-ANPS       | 200                      | R88D-KN10H-ECT-L          | 2.4                 |

**Note:** The maximum operation speed is limited by considering the guide mechanism, encoder, and other aspects. If it is 5 m/s or higher, please consult with your OMRON representative.



## Controller Combinations

### ● Position Control unit , Servo Relay Units and Cables

Select the Servo Relay Unit and Cable according to the model number of the Position Control Unit being used.

| Position Control Unit  | Position Control Unit Cable |               | Servo Relay Unit |              | Servo Drive Cable |  |
|--|-----------------------------|---------------|------------------|--------------|-------------------|--|
| CS1W-NC113   | XW2Z-□□□J-A6                |               | XW2B-20J6-1B     |              | XW2Z-□□□J-B25     |  |
| C200HW-NC113   |                             |               |                  |              |                   |  |
| CS1W-NC213   | XW2Z-□□□J-A7                |               | XW2B-40J6-2B     |              |                   |  |
| CS1W-NC413   |                             |               |                  |              |                   |  |
| C200HW-NC213   |                             |               |                  |              |                   |  |
| C200HW-NC413   |                             |               |                  |              |                   |  |
| CS1W-NC133   | XW2Z-□□□J-A10               |               | XW2B-20J6-1B     |              |                   |  |
| CS1W-NC233   | XW2Z-□□□J-A11               |               | XW2B-40J6-2B     |              |                   |  |
| CS1W-NC433   |                             |               |                  |              |                   |  |
| CJ1W-NC113   | XW2Z-□□□J-A14               |               | XW2B-20J6-1B     |              |                   |  |
| CJ1W-NC213   | XW2Z-□□□J-A15               |               | XW2B-40J6-2B     |              |                   |  |
| CJ1W-NC413   |                             |               |                  |              |                   |  |
| CJ1W-NC133   | XW2Z-□□□J-A18               |               | XW2B-20J6-1B     |              |                   |  |
| CJ1W-NC233   | XW2Z-□□□J-A19               |               | XW2B-40J6-2B     |              |                   |  |
| CJ1W-NC433   |                             |               |                  |              |                   |  |
| CJ2M-CPU31<br>CJ2M-CPU32<br>CJ2M-CPU33<br>CJ2M-CPU34<br>CJ2M-CPU35<br>CJ2M-CPU11<br>CJ2M-CPU12<br>CJ2M-CPU13<br>CJ2M-CPU14<br>CJ2M-CPU15 | XW2Z-□□□J-A33               |               | For 1 axis       | XW2B-20J6-8A | XW2Z-□□□J-B31     |  |
|  |                             |               | For 2 axis       | XW2B-40J6-9A |                   |  |
| FQM1-MMP22   | General-purpose I/O         | XW2Z-□□□J-A28 | XW2B-80J7-12A    |              | XW2Z-□□□J-B26     |  |
|  | Special I/O                 | XW2Z-□□□J-A30 |                  |              |                   |  |
| FQM1-MMA22   | General-purpose I/O         | XW2Z-□□□J-A28 |                  |              | XW2Z-□□□J-B27     |  |
|  | Special I/O                 | XW2Z-□□□J-A31 |                  |              |                   |  |

**Note: 1.** Insert the cable length into the boxes in the model number (□□□). Position Control Unit cables come in two lengths: 0.5 m and 1 m (some are also available in lengths of 2 m). Servo Driver Cables also come in two lengths: 1 m and 2 m.

**2.** Two Servo Driver Cables are required if 2-axis control is performed using one Position Control Unit.

**3.** Direct cable is available for CJ1W-NC□□4 Position Control Unit (High-Speed type).

| Specifications                                     | The number of axes | Model         |
|--|--------------------|---------------|
| For CJ1W-NC214/-NC414 (open collector output type) | 1 axis             | XW2Z-□□□J-G13 |
| For CJ1W-NC214/-NC414 (open collector output type) | 2 axis             | XW2Z-□□□J-G5  |
| For CJ1W-NC234/-NC434 (line-driver output type)    | 1 axis             | XW2Z-□□□J-G9  |
| For CJ1W-NC234/-NC434 (line-driver output type)    | 2 axis             | XW2Z-□□□J-G1  |

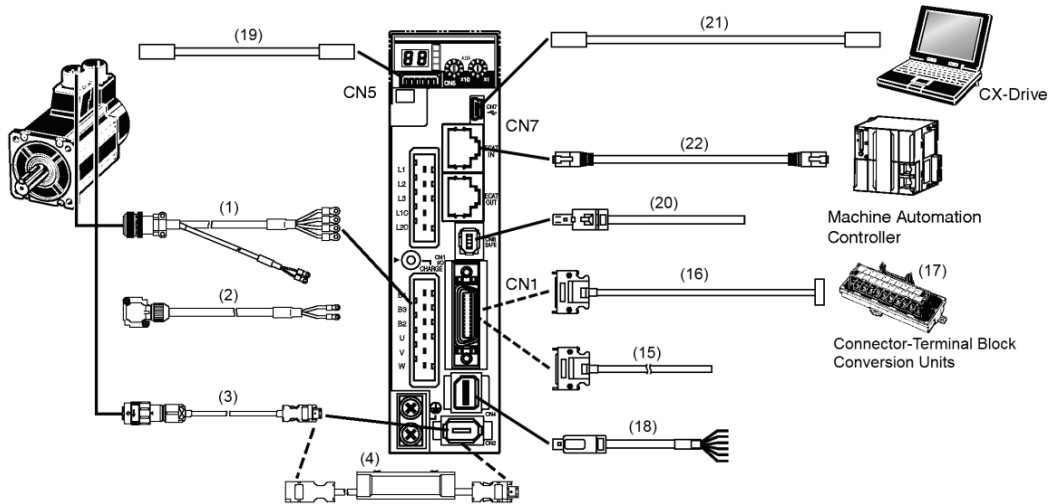
### ● Motion Control Unit Cables

There are special cables for 1-axis and 2-axis Motion Control Unit operation. Select the appropriate cable for the number of axes to be connected.

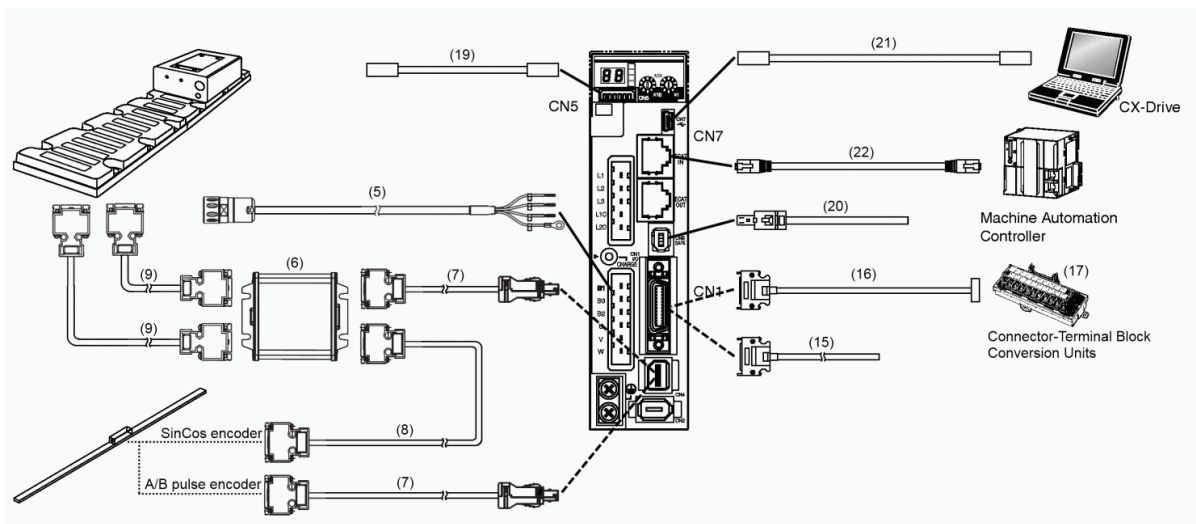
| Motion Control Unit            | Cable      |               | Remarks   |
|--------------------------------|------------|---------------|---|
| CS1W-MC221-V1<br>CS1W-MC421-V1 | For 1 axis | R88A-CPG□□□M1 | The □□□ digits in the model number indicate the cable length. Motion Control Unit Cables come in four lengths: 1 m, 2 m, 3 m, and 5 m. Example model number for 2-m 1-axis cable: R88A-CPG002M1 |
|                                | For 2 axis | R88A-CPG□□□M2 |   |

## Accessories and Cables

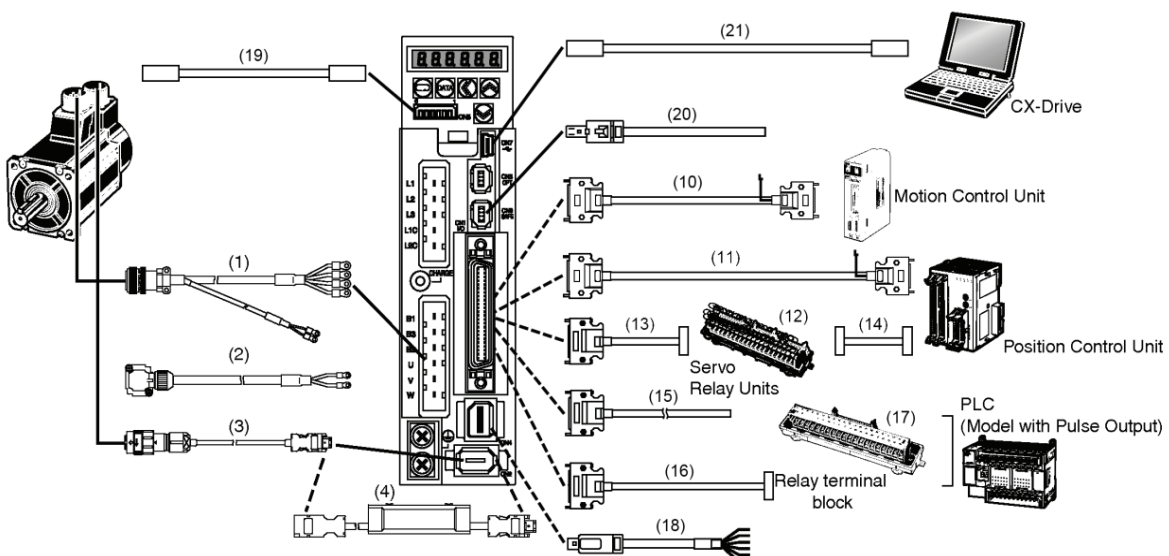
### ● EtherCAT Communications



### ● EtherCAT Communications Linear Motor Type

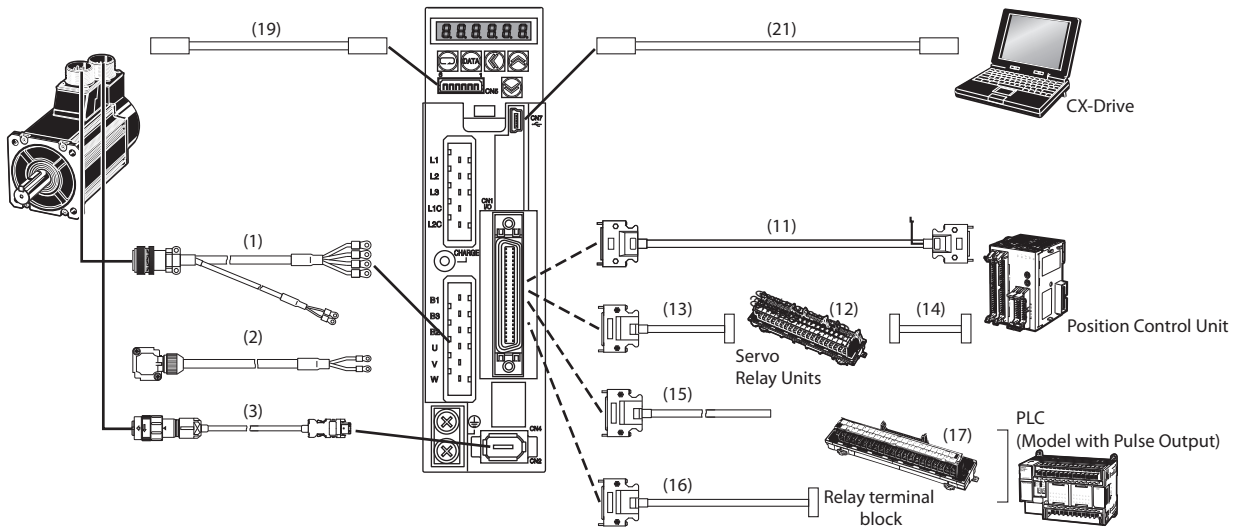


### ● General-purpose Input

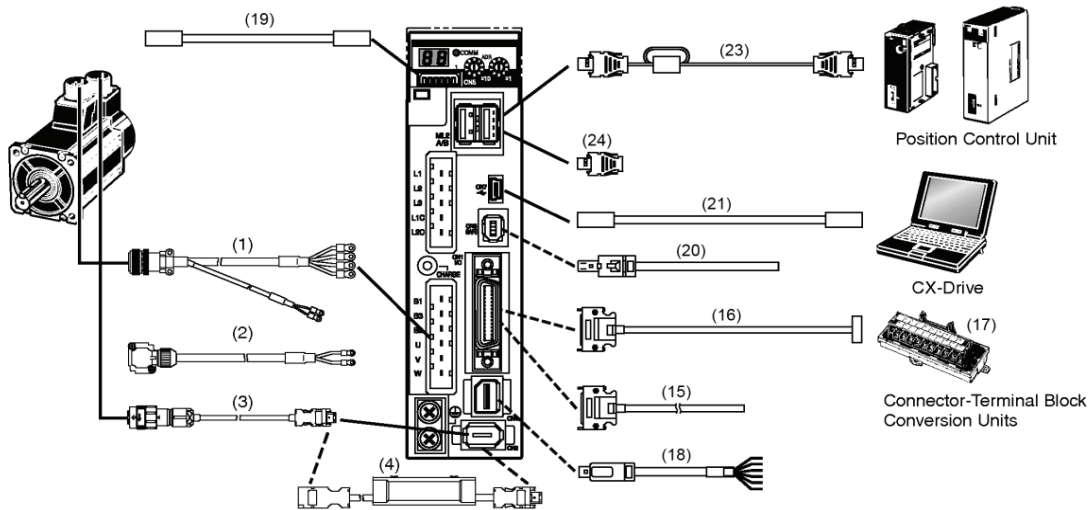


## Accessories and Cables

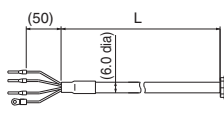
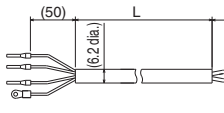
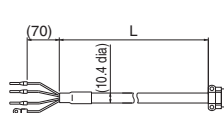
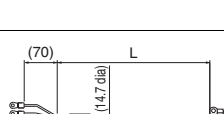
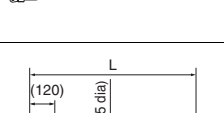
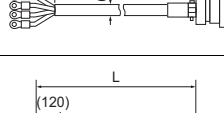
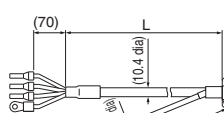
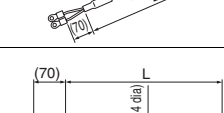
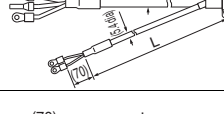
### ● Pulse Train Input



### ● MECHATROLINK-II Communications



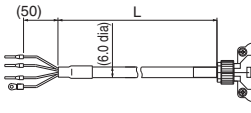
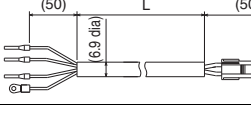
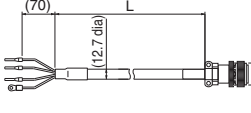
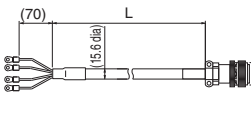
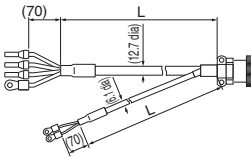
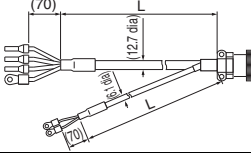
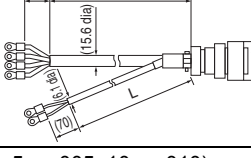
## Servomotor Power Cables (For CNB)

| Symbol              | Applicable Motor Type  | Connected to            | Model  | Description   |   |
|---------------------|--|-------------------------|--|---|---|
| Non-flexible Cables | Without Brakes   | Standard Cylinder       | [100 V] [200 V]<br>3,000 r/min, 50 to 750 W  | R88A-CAKA□□□S<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Angle plug:<br>JN8FT04SJ1<br>(Japan Aviation Electronics Industry, Ltd.)<br>Contact pins:<br>ST-TMH-S-C1B-3500-A534G<br>(Japan Aviation Electronics Industry, Ltd.) |
|                     |  | Eco Cylinder            | [200 V]<br>3,000 r/min, 50 to 750 W  | R88A-CAGA□□□S<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 m long.             |  <b>[Servomotor Connector]</b><br>Connector:<br>172159-1 (Tyco Electronics AMP KK)<br>170362-1 (Tyco Electronics AMP KK)<br>170366-1 (Tyco Electronics AMP KK)  |
|                     |  | Standard & Eco Cylinder | [200 V]<br>3,000 r/min, 1 to 2 kW<br>2,000 r/min, 1 to 2 kW<br>1,000 r/min, 900 W<br>[400 V]<br>3,000 r/min, 750 W to 2 kW<br>2,000 r/min, 400 W to 2 kW<br>1,000 r/min, 900 W | R88A-CAGB□□□S<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B20-4S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)      |
|                     |  | Standard & Eco Cylinder | [200 V] [400 V]<br>3,000 r/min, 3 to 5 kW<br>2,000 r/min, 3 to 5 kW<br>1,000 r/min, 2 to 4.5 kW  | R88A-CAGD□□□S<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B22-22S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)     |
|                     |  | Standard Cylinder       | [200 V] [400 V]<br>1,500 r/min, 7.5 kW<br>1,000 r/min, 6 kW  | R88A-CAGE□□□S<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B32-17S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-20A<br>(Japan Aviation Electronics Industry, Ltd.)     |
|                     |  | Standard Cylinder       | [200 V] [400 V]<br>1,500 r/min, 11.0 to 15.0 kW  | R88A-CAKG□□□S-AP<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15 or 20 m long.           |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B32-17S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-20A<br>(Japan Aviation Electronics Industry, Ltd.)    |
|                     | <b>Note:</b> Different connectors are used for the motor power and the brake on 100-V and 200-V, 3,000-r/min Servomotors of 50 to 750 W and Servomotors of 6 to 15 kW. When using a Servomotor with a brake, two cables are required: a Power Cable without Brake and a Brake Cable. |                         |  |   |   |
|                     | With Brakes  | Standard & Eco Cylinder | [200 V]<br>3,000 r/min, 1 to 2 kW<br>2,000 r/min, 1 to 2 kW<br>1,000 r/min, 900 W  | R88A-CAGB□□□B<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B20-18S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)   |
|                     |  | Standard Cylinder       | [400 V]<br>3,000 r/min, 750W to 2 kW<br>2,000 r/min, 400 W to 2 kW<br>1,000 r/min, 900 W   | R88A-CAKF□□□B<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B24-11S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-16A<br>(Japan Aviation Electronics Industry, Ltd.)   |
|                     |  | Standard & Eco Cylinder | [200 V] [400 V]<br>3,000 r/min, 3 to 5 kW<br>2,000 r/min, 3 to 5 kW<br>1,000 r/min, 2 to 3 kW  | R88A-CAGD□□□B<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  <b>[Servomotor Connector]</b><br>Straight plug:<br>N/MS3106B24-11S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-16A<br>(Japan Aviation Electronics Industry, Ltd.)   |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

# AC Servomotor/Drive G5-series

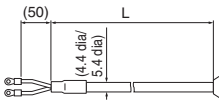
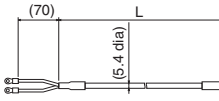
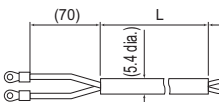
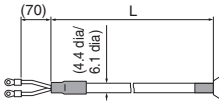
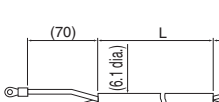
## Servomotor Power Cables (For CNB)

| Symbol                  |  | Applicable Motor Type   | Connected to   | Model  | Description  |  |
|-------------------------|--|---|--|--|--|--|
| (1)                     | Flexible Cables  | Without Brakes  | Standard Cylinder  | [100 V] [200 V]<br>3,000 r/min, 50 to 750 W  | R88A-CAKA□□□SR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.   |  [Servomotor Connector]<br>Angle plug:<br>JN8FT04SJ1<br>(Japan Aviation Electronics Industry, Ltd.)<br>Connector pins:<br>ST-TMH-S-C1B-3500-A534G<br>(Japan Aviation Electronics Industry, Ltd.) |
|                         |  |   | Eco Cylinder   | [200 V]<br>3,000 r/min, 50 to 750 W  | R88A-CAGA□□□SR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 m long.   |  [Servomotor Connector]<br>Connector:<br>172159-1 (Tyco Electronics AMP KK)<br>Connector pins:<br>170362-1 (Tyco Electronics AMP KK)<br>170366-1 (Tyco Electronics AMP KK)                       |
|                         |  |   | Standard & Eco Cylinder  | [200 V]<br>3,000 r/min, 1 to 2 kW<br>2,000 r/min, 1 to 2 kW<br>1,000 r/min, 900 W  | R88A-CAGB□□□SR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.   |  [Servomotor Connector]<br>Straight plug:<br>N/MS3106B20-4S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)        |
|                         |  |   |  | [400 V]<br>3,000 r/min, 750 W to 2 kW<br>2,000 r/min, 400 W to 2 kW<br>1,000 r/min, 900 W  |  |  |
|                         | Standard & Eco Cylinder  | [200 V] [400 V]<br>3,000 r/min, 3 to 5 kW<br>2,000 r/min, 3 to 5 kW<br>1,000 r/min, 2 to 4.5 kW | R88A-CAGD□□□SR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  [Servomotor Connector]<br>Straight plug:<br>N/MS3106B22-22S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)   |  |  |
|                         | <b>Note:</b> Different connectors are used for the motor power and the brake on 100-V and 200-V, 3,000-r/min Servomotors of 50 to 750 W and Servomotors of 6 to 15 kW without Brake and a Brake Cable. |   |  |  |  |  |
|                         | With Brakes  | Standard & Eco Cylinder   | [200 V]<br>3,000 r/min, 1 to 2 kW<br>2,000 r/min, 1 to 2 kW<br>1,000 r/min, 900 W  | R88A-CAGB□□□BR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.   |  [Servomotor Connector]<br>Straight plug:<br>N/MS3106B20-18S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.)  |  |
|                         |  | Standard Cylinder   | [400 V]<br>3,000 r/min, 750W to 2 kW<br>2,000 r/min, 400 W to 2 kW<br>1,000 r/min, 900 W   | R88A-CAKF□□□BR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.   |  [Servomotor Connector]<br>Straight plug:<br>N/MS3106B24-11S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-16A<br>(Japan Aviation Electronics Industry, Ltd.) |  |
| Standard & Eco Cylinder |  | [200 V] [400 V]<br>3,000 r/min, 3 to 5 kW<br>2,000 r/min, 3 to 5 kW<br>1,000 r/min, 2 to 3 kW   | R88A-CAGD□□□BR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long. |  [Servomotor Connector]<br>Straight plug:<br>N/MS3106B24-11S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-16A<br>(Japan Aviation Electronics Industry, Ltd.) |  |  |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

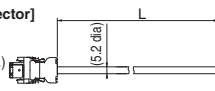
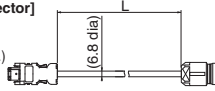
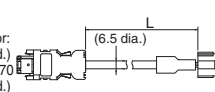
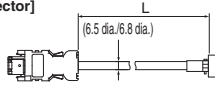


## Brake Cables

| Symbol       | Applicable Motor Type | Connected to                        | Model   | Description  |
|--------------|-----------------------|-------------------------------------|---|--|
| (2)          | Non-flexible Cables   | Standard Cylinder                   | [100 V] [200 V]<br>3,000 r/min, 50 to 750 W   |  <p><b>[Servomotor Connector]</b><br/>Angle plug:<br/>JN4FT02SJ1-R<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Connector pins:<br/>ST-TMH-S-C1B-3500-(A534G)<br/>(Japan Aviation Electronics Industry, Ltd.)</p> |
|              |                       |                                     | [200 V] [400 V]<br>1,500 r/min, 7.5 to 15 kW<br>1,000 r/min, 6 kW   |  <p><b>[Servomotor Connector]</b><br/>Angle plug:<br/>N/MS3106B14S-2S<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Connector pins:<br/>N/MS3057-6A<br/>(Japan Aviation Electronics Industry, Ltd.)</p>            |
|              | Eco Cylinder          | [200 V]<br>3,000 r/min, 50 to 750 W |  <p><b>[Servomotor Connector]</b><br/>Connector:<br/>172157-1 (Tyco Electronics AMP KK)<br/>Connector pins:<br/>170362-1 (Tyco Electronics AMP KK)<br/>170366-1 (Tyco Electronics AMP KK)</p> |  |
|              | Flexible Cables       | Standard Cylinder                   | [100 V] [200 V]<br>3,000 r/min, 50 to 750 W   |  <p><b>[Servomotor Connector]</b><br/>Angle plug:<br/>JN4FT02SJ1-R<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Connector pins:<br/>ST-TMH-S-C1B-3500-(A534G)<br/>(Japan Aviation Electronics Industry, Ltd.)</p> |
| Eco Cylinder |                       |                                     | [200 V]<br>3,000 r/min, 50 to 750 W   |  <p><b>[Servomotor Connector]</b><br/>Connector:<br/>172157-1 (Tyco Electronics AMP KK)<br/>Connector pins:<br/>170362-1 (Tyco Electronics AMP KK)<br/>170366-1 (Tyco Electronics AMP KK)</p>                           |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

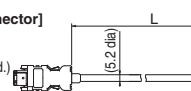
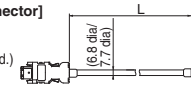
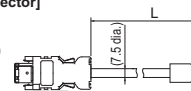
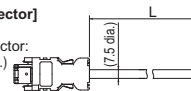
## Encoder Cables (for CN2)

| Symbol | Applicable Motor Type | Connected to      | Model   | Description   |
|--------|-----------------------|-------------------|---|---|
| (3)    | Non-flexible Cables   | Standard Cylinder | 3,000 r/min, 50 to 750 W<br>(Absolute encoder/<br>Incremental encoder)  |  <p><b>[Servo Drive Connector]</b><br/>Connector:<br/>55100-0670<br/>(Molex Japan Co., Ltd.)</p> <p><b>[Servomotor Connector]</b><br/>Angle clamp:<br/>JN6FR07SM1<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Connector pins:<br/>LY10-C1-A1-10000<br/>(Japan Aviation Electronics Industry, Ltd.)</p>   |
|        |                       |                   | 3,000 r/min,<br>[200 V] For 1.0 kW and above<br>[400 V] For 750 W and above<br>2,000 r/min,<br>1,000 r/min, (Absolute<br>encoder/ Incremental<br>encoder) |  <p><b>[Servo Drive Connector]</b><br/>Connector:<br/>55100-0670<br/>(Molex Japan Co., Ltd.)</p> <p><b>[Servomotor Connector]</b><br/>Straight plug:<br/>JN2DS10SL2-R<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Contact:<br/>JN1-22-20S-10000<br/>(Japan Aviation Electronics Industry, Ltd.)</p>  |
|        |                       | Eco Cylinder      | [200 V]<br>3,000 r/min, 50 to 750 W<br>(Incremental encoder)  |  <p><b>[Servo Drive Connector]</b><br/>Connector:<br/>3 to 20 m:<br/>Crimped I/O connector:<br/>(Molex Japan Co., Ltd.)<br/>30 to 50 m: 55100-0670<br/>(Molex Japan Co., Ltd.)<br/>Connector pins:<br/>50639-8028<br/>(Molex Japan Co., Ltd.)</p> <p><b>[Servomotor Connector]</b><br/>Connector:<br/>172160<br/>(Tyco Electronics AMP KK)<br/>Connector pins:<br/>170365-1<br/>(Tyco Electronics AMP KK)<br/>171639-1<br/>(Tyco Electronics AMP KK)</p> |
|        |                       |                   | [200 V]<br>3,000 r/min, 1kW to 5kW<br>2,000 r/min, 1kW to 5kW<br>1,000 r/min, 900W to 3kW   |  <p><b>[Servo Drive Connector]</b><br/>Connector:<br/>Crimped I/O connector:<br/>(Molex Japan Co., Ltd.)<br/>30 to 50 m: 55100-0670<br/>(Molex Japan Co., Ltd.)<br/>Connector pins:<br/>50639-8028<br/>(Molex Japan Co., Ltd.)</p> <p><b>[Servomotor Connector]</b><br/>Straight plug:<br/>N/MS3106B20-29S<br/>(Japan Aviation Electronics Industry, Ltd.)<br/>Cable clamp:<br/>N/MS3057-12A<br/>(Japan Aviation Electronics Industry, Ltd.)</p>         |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

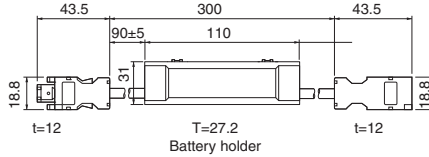
# AC Servomotor/Drive G5-series

## Encoder Cables (for CN2)



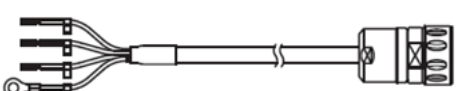
| Symbol | Applicable Motor Type | Connected to   | Model   | Description  |   |
|--------|-----------------------|--|---|--|---|
| (3)    | Flexible Cables       | Standard Cylinder  | 3,000 r/min, 50 to 750 W<br>(Absolute encoder/<br>Incremental encoder)  | R88A-CRKA□□□CR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.<br>(3 to 20 m: 5.2 dia<br>30 to 50 m: 6.8 dia)  | [Servo Drive Connector]<br>Connector:<br>55100-0670<br>(Molex Japan Co., Ltd.)<br><br>[Servomotor Connector]<br>Angle clamp:<br>JN6FR07SM1<br>(Japan Aviation Electronics Industry, Ltd.)<br>Connector pins:<br>LY10-C1-A1-10000<br>(Japan Aviation Electronics Industry, Ltd.)  |
|        |                       |  | 3,000 r/min,<br>[200 V] For 1.0 kW and above<br>[400 V] For 750 W and above<br>2,000 r/min,<br>1,000 r/min, (Absolute<br>encoder/ Incremental<br>encoder)                   | R88A-CRKC□□□NR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.<br>(3 to 20 m: 5.2 dia<br>30 to 50 m: 7.7 dia)  | [Servo Drive Connector]<br>Connector:<br>55100-0670<br>(Molex Japan Co., Ltd.)<br><br>[Servomotor Connector]<br>Straight plug:<br>JN2DS10SL2-R<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>JN1-22-22S-10000<br>(Japan Aviation Electronics Industry, Ltd.) |
|        | Eco Cylinder          | 3,000 r/min, 50 to 750 W   | R88A-CRGB□□□CR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 m long.<br>(3 to 20 m: 5.2 dia<br>30 to 50 m: 6.8 dia) | [Servo Drive Connector]<br>Connector:<br>Crimped I/O connector:<br>(Molex Japan Co., Ltd.)<br>Connector pins:<br>50639-8028<br>(Molex Japan Co., Ltd.)<br><br>[Servomotor Connector]<br>Connector:<br>172160-1<br>(Tyco Electronics AMP KK)<br>Connector pins:<br>170365-1<br>(Tyco Electronics AMP KK)   |   |
|        |                       | 3,000 r/min, 1kW to 5kW<br>2,000 r/min, 1kW to 5kW<br>1,000 r/min, 900W to 3kW | R88A-CRGC□□□NR<br>The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 m long.  | [Servo Drive Connector]<br>Connector:<br>Crimped I/O connector:<br>(Molex Japan Co., Ltd.)<br>Connector pins:<br>50639-8028<br>(Molex Japan Co., Ltd.)<br><br>[Servomotor Connector]<br>Straight plug:<br>N/MS3106B20-29S<br>(Japan Aviation Electronics Industry, Ltd.)<br>Cable clamp:<br>N/MS3057-12A<br>(Japan Aviation Electronics Industry, Ltd.) |   |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

## Absolute Encoder Backup Battery and Absolute Encoder Battery Cable

| Symbol | Name                            | Specifications                    | Model                  | Description   |
|--------|---------------------------------|-----------------------------------|------------------------|---|
| (4)    | Absolute Encoder Battery Cable  | Battery not included              | 0.3 m R88A-CRGD0R3C    |  |
|        |                                 | One R88A-BAT01G Battery included. | 0.3 m R88A-CRGD0R3C-BS |   |
|        | Absolute Encoder Backup Battery | -                                 | R88A-BAT01G            | -   |

## Linear Motor Power Cable

| Symbol  | Applicable Linear Motor Type  | Model  | Description   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
|---|---|--|---|---------|----------|---|---------|---|---------|---|---------|---|---------|---|--------|---|---|
| (5)   | Flexible Cable  | Iron-core Motor Coil<br>R88L-EC-FW-0303-□<br>R88L-EC-FW-0306-□ | R88A-CAWK□□□S-DE<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10, 15 or 20 m long.<br><br>Plug type: LPRA06BFRBN170<br>(Hypertac)<br><table border="1" data-bbox="1276 1456 1468 1612"> <thead> <tr> <th>Pin No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>Phase U</td></tr> <tr><td>2</td><td>Phase V</td></tr> <tr><td>3</td><td>Ground</td></tr> <tr><td>4</td><td>Phase W</td></tr> <tr><td>5</td><td>-</td></tr> <tr><td>6</td><td>-</td></tr> </tbody> </table> | Pin No. | Function | 1 | Phase U | 2 | Phase V | 3 | Ground  | 4 | Phase W | 5 | -      | 6 | - |
|   |   | Pin No.  | Function  |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
|   | 1   | Phase U  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 2   | Phase V   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 3   | Ground  |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 4   | Phase W   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 5   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 6   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| Iron-core Motor Coil<br>R88L-EC-FW-0606-□<br>R88L-EC-FW-0609-□<br>R88L-EC-FW-0612-□<br>R88L-EC-FW-1112-□<br>R88L-EC-FW-1115-□ | R88A-CAWL□□□S-DE<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10, 15 or 20 m long.<br><br>Plug type: LPRA06BFRBN170<br>(Hypertac)<br><table border="1" data-bbox="1276 1657 1468 1814"> <thead> <tr> <th>Pin No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>Phase U</td></tr> <tr><td>2</td><td>Phase V</td></tr> <tr><td>3</td><td>Ground</td></tr> <tr><td>4</td><td>Phase W</td></tr> <tr><td>5</td><td>-</td></tr> <tr><td>6</td><td>-</td></tr> </tbody> </table> | Pin No.  | Function  | 1       | Phase U  | 2 | Phase V | 3 | Ground  | 4 | Phase W | 5 | -       | 6 | -      |   |   |
| Pin No.   | Function  |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 1   | Phase U   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 2   | Phase V   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 3   | Ground  |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 4   | Phase W   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 5   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 6   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| Ironless Motor Coil<br>R88L-EC-GW-□   | R88A-CAWB□□□S-DE<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10, 15 or 20 m long.<br><br>Plug type: SPOC06KFSDN169<br>(Hypertac)<br><table border="1" data-bbox="1276 1836 1468 1993"> <thead> <tr> <th>Pin No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>Phase U</td></tr> <tr><td>2</td><td>Phase V</td></tr> <tr><td>3</td><td>Phase W</td></tr> <tr><td>4</td><td>-</td></tr> <tr><td>5</td><td>-</td></tr> <tr><td>6</td><td>Ground</td></tr> </tbody> </table> | Pin No.  | Function  | 1       | Phase U  | 2 | Phase V | 3 | Phase W | 4 | -       | 5 | -       | 6 | Ground |   |   |
| Pin No.   | Function  |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 1   | Phase U   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 2   | Phase V   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 3   | Phase W   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 4   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 5   | -   |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |
| 6   | Ground  |  |   |         |          |   |         |   |         |   |         |   |         |   |        |   |   |

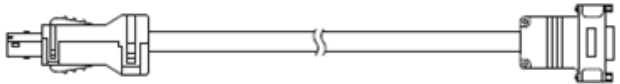
**Note:** Insert the cable length into the boxes in the model number of cables (1.5 m: 001-5, 3 m: 003, 5 m: 005, 10 m: 010)

### Serial Converter Unit

| Symbol | Applicable Linear Motor Type         | Model        | Description   |
|--------|--------------------------------------|--------------|---|
| (6)    | Iron-core Motor Coil<br>R88L-EC-FW-□ | R88A-SC01K-E | Serial converter unit from 1 Vpp to G5 serial data transmission (with KTY sensor detection of iron-core motor coil) |
|        | Ironless Motor Coil<br>R88L-EC-GW-□  | R88A-SC02K-E | Serial converter unit from 1 Vpp to G5 serial data transmission (with NTC sensor detection of ironless motor coil)  |

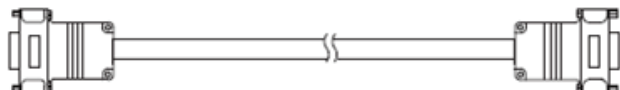
**Note:** If no temperature sensor is needed, then it does not matter which converter is used.

### Serial Converter Cable to Servo Drive

| Symbol | Applicable Linear Motor Type  | Model  | Description  |
|--------|---|--|--|
| (7)    | Iron-core Motor Coil<br>R88L-EC-FW-□<br>Ironless Motor Coil<br>R88L-EC-GW-□ | R88A-CRKN□□□CR-E<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10, 15 or 20 m long. | <p><b>Servodrive Connector:</b><br/>MUF-PK10K-X (J.S.T. Mfg. Co., Ltd.)</p>  <p>Serial Converter Unit Connector:DB15</p> |

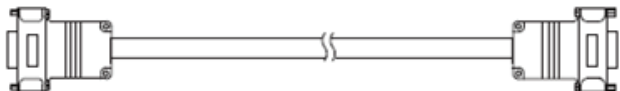
**Note:** Insert the cable length into the boxes in the model number of cables (1.5 m: 001-5, 3 m: 003, 5 m: 005, 10 m: 010)  
This cable can be used for A/B pulse encoder Numerik Jena standard pinout.

### Linear Encoder Cable to Serial Converter

| Symbol | Applicable Linear Motor Type                       | Model  | Description   |
|--------|--|--|---|
| (8)    | <b>Numerik Jena</b><br>SinCos 1Vp-p linear encoder | R88A-CFKA□□□CR-E<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10 or 15 m long. | <p>Extension cable for linear encoder to R88A-SC0oK-E serial converter unit</p>  <p>Connector: DB-9</p> |
|        | <b>Renishaw</b><br>SinCos 1Vp-p linear encoder     | R88A-CFKC□□□CR-E<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10 or 15 m long. |   |
|        | <b>Heidenhain</b><br>SinCos 1Vp-p linear encoder   | R88A-CFKD□□□CR-E<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10 or 15 m long. |   |

**Note:** Insert the cable length into the boxes in the model number of cables (1.5 m: 001-5, 3 m: 003, 5 m: 005, 10 m: 010)  
This extension cable is optional.

### Hall and Temperature Sensor Cable to Serial Converter

| Symbol | Applicable Linear Motor Type  | Model  | Description   |
|--------|---|--|---|
| (9)    | Iron-core Motor Coil<br>R88L-EC-FW-□<br>Ironless Motor Coil<br>R88L-EC-GW-□ | R88A-CFKB□□□CR-E<br>The empty boxes in the model number are for the cable length. The cable can be 1.5, 3, 5, 10 or 15 m long. | <p>Extension cable from hall and temperature sensors to R88A-SC0oK-E serial</p>  <p>Connector: DB-9</p> |

**Note:** Insert the cable length into the boxes in the model number of cables (1.5 m: 001-5, 3 m: 003, 5 m: 005, 10 m: 010)

# AC Servomotor/Drive G5-series

## Control Cables (for CN1)

| Symbol | Name  | Connected to   | Model   |
|--------|---|--|---|
| (10)   | Control Cables for Motion Control Units   | Motion Control Units (for all SYSMAC CS1/C200H)  | R88A-CPG□□□M◇<br>The empty boxes in the model number are for the cable length. The cable can be 1, 2, 3, or 5 m long. The empty diamond in the model number is for the number of axes. One axis: 1, Two axes: 2 |
| (11)   | Control Cables<br>Direct connection cable for Position Control Unit (High-speed type) | Line-driver output type (High-speed type) for CJ1W-NC234/434   | XW2Z-□□□J-G9<br>The empty boxes in the model number are for the cable length. The cable can be 1, 5, or 10 m long.  |
|        |   | Line-driver output type (High-speed type) for CJ1W-NC234/434   | XW2Z-□□□J-G1<br>The empty boxes in the model number are for the cable length. The cable can be 1, 5, or 10 m long.  |
|        |   | Open collector output type (High-speed type) for CJ1W-NC214/NC414  | XW2Z-□□□J-G13<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 3 m long.   |
|        |   | Open collector output type (High-speed type) for CJ1W-NC214/NC414  | XW2Z-□□□J-G5<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 3 m long.  |
| (12)   | Servo Relay Units   | Position Control Unit:<br>For CJ1W-NC113/NC133<br>For CS1W-NC113/NC133<br>(For C200HW-NC113)                               | For 1 axis<br>XW2B-20J6-1B  |
|        |   | Position Control Unit:<br>For CJ1W-NC213/NC233/NC413/NC433<br>For CS1W-NC213/NC233/NC413/NC433<br>(For C200HW-NC213/NC413) | For 2 axis<br>XW2B-40J6-2B  |
|        |   | For CJ1M-CPU21/CPU22/CPU23   | For 1 axis<br>XW2B-20J6-8A<br>For 2 axis<br>XW2B-40J6-9A  |
|        |   | For FQM1-MMA22 (Analog output)<br>For FQM1-MMP22 (Pulse train output)  | For 2 axis<br>XW2B-80J7-12A   |
|        |   | For CQM1H-PLB21  | For 1 axis<br>XW2B-20J6-3B  |
| (13)   | Servo Relay Units/Connection Cables<br>Servo Relay Unit Cables for Servo Drives       | Position Control Unit:<br>For CJ1W-NC□□3, CS1W/C200HW-NC□□□<br>(XW2B-20J6-1B, XW2B-40J6-2B)                                | XW2Z-□□□J-B25<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.   |
|        |   | For CJ1M-CPU21/CPU22/CPU23<br>(XW2B-20J6-8A, XW2B-40J6-9A)   | XW2Z-□□□J-B31<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.   |
|        |   | For FQM1-MMA22 (Analog output)<br>(XW2B-80J7-12A)  | XW2Z-□□□J-B27<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.   |
|        |   | For FQM1-MMP22 (Pulse train output)<br>(XW2B-80J7-12A)   | XW2Z-□□□J-B26<br>The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.   |
| (14)   | Connection Cables<br>Servo Relay Unit Cables for Position Control Units               | CJ1W line-driver output type for CJ1W-NC133  | For 1 axis<br>XW2Z-□□□J-A18<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |
|        |   | CJ1W line-driver output type for CJ1W-NC233/NC433  | For 2 axis<br>XW2Z-□□□J-A19<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |
|        |   | CS1W line-driver output type for CS1W-NC133  | For 1 axis<br>XW2Z-□□□J-A10<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |
|        |   | CS1W line-driver output type for CS1W-NC233/NC433  | For 2 axis<br>XW2Z-□□□J-A11<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |
|        |   | CJ1W open collector output type for CJ1W-NC113   | For 1 axis<br>XW2Z-□□□J-A14<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |
|        |   | CJ1W open collector output type for CJ1W-NC213/NC413   | For 2 axis<br>XW2Z-□□□J-A15<br>The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.   |


Note: Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

## Control Cables (for CN1)

| Symbol | Name                                |  | Connected to   |  | Model   |  |   |
|--------|-------------------------------------|--|--|--|---|--|---|
| (14)   | Servo Relay Units/Connection Cables | Connection Cables  | Servo Relay Unit Cables for Position Control Units                 | CS1W/C200HW open collector output type for CS1W-NC113 for C200HW-NC113             | For 1 axis  | XW2Z-□□□J-A6<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, or 1 m long.  |   |
|        |                                     |  |  | CS1W/C200HW open collector output type for CS1W-NC213/NC413 for C200HW-NC213/NC413 | For 2 axis  | XW2Z-□□□J-A7<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, or 1 m long.  |   |
|        |                                     |  |  | CSW/C200HW open collector output type for CJ1M-CPU21/CPU22/CPU23                   | For 1 axis  | XW2Z-□□□J-A33<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, or 1 m long. |   |
|        |                                     |  |  | For FQM1-MMA22 (Analog output)<br>For FQM1-MMP22 (Pulse train output)              | General-purpose I/O (26 pin)  | For 2 axis   | XW2Z-□□□J-A28<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, 1, or 2 m long. |
|        |                                     |  |  | For FQM1-MMA22 (Analog output)   | Special I/O (40 pin)  | For 2 axis   | XW2Z-□□□J-A31<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, 1, or 2 m long. |
|        |                                     |  |  | For FQM1-MMP22 (Pulse train output)  | Special I/O (40 pin)  | For 2 axis   | XW2Z-□□□J-A30<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, 1, or 2 m long. |
|        |                                     |  |  | For FQM1HPLB21   |   | For 1 axis   | XW2Z-□□□J-A3<br>The empty boxes in the model number are for the cable length.<br>The cable can be 0.5, or 1m long.      |
| (15)   |                                     | General-purpose Control Cables with Connector on One End | Cables for General-purpose Controllers                             |  | R88A-CPG□□□S<br>The empty boxes in the model number are for the cable length.<br>The cable can be 1 or 2m long.     |  |   |
|        |                                     |  | Cables for General-purpose Connection (Network Communication Type) |  | R88A-CPKB□□□S-AP<br>The empty boxes in the model number are for the cable length.<br>The cable can be 1 or 2m long. |  |   |
| (16)   | For Connector Terminal Block        | Connector Terminal Block Cables                          | Cable for General-purpose Controllers                              |  | XW2Z-□□□J-B24<br>The empty boxes in the model number are for the cable length.<br>The cable can be 1, or 2 m long.  |  |   |
|        |                                     |  | Cable for MECHATROLINK-II / EtherCAT Communications                |  | XW2Z-□□□J-B34<br>The empty boxes in the model number are for the cable length.<br>The cable can be 1, or 2 m long.  |  |   |
| (17)   |                                     | Connector-Terminal Block Conversion Units                | Cable for General-purpose Controllers                              | M3 screws  | XW2B-50G4   |  |   |
|        |                                     |  |  | M3.5 screws  | XW2B-50G5   |  |   |
|        |                                     |  |  | M3 screws  | XW2D-50G6   |  |   |
|        |                                     |  |  | M3 screws  | XW2B-20G4   |  |   |
|        |                                     |  |  | M3.5 screws  | XW2B-20G5   |  |   |
|        |                                     |  |  | M3 screws  | XW2D-20G6   |  |   |

**Note:** Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

## External Encoder Cable (for CN4)

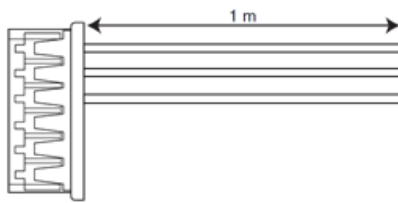
| Symbol | Name                   | Model  | Description  |
|--------|------------------------|--|--|
| (18)   | External Encoder Cable | R88A-CRKM□□□SR-E<br>The empty boxes in the model number are for the cable length. The cable can be 5, 10 or 20 m long. | <p><b>Connector plug model:</b><br/>MUF-PK10K-X (J.S.T. Mfg. Co., Ltd.)</p>  |

**Note:** Insert the cable length into the boxes in the model number of cables (5 m: 005, 10 m: 010, 20 m: 020)

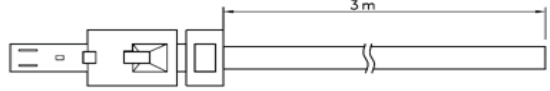


# AC Servomotor/Drive G5-series

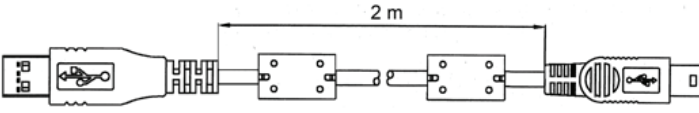
## Analog Monitor Cable (for CN5)

| Symbol | Name                 | Model        | Description  |
|--------|----------------------|--------------|--|
| (19)   | Analog Monitor Cable | R88A-CMK001S | <p>Connector housing:<br/>51004-0600 (Molex Japan)</p> <p>Connector terminal:<br/>50011-8000 (Molex Japan)</p>  |

## Safety Cable (for CN8)

| Symbol | Name         | Model                             | Description   |
|--------|--------------|-----------------------------------|---|
| (20)   | Safety Cable | R88A-CSK003S-E<br>R88A-CSK003S-AP | <p>Connector:<br/>2013595-1 (Tyco Electronics)</p>  |

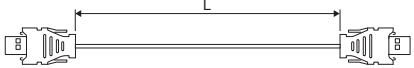
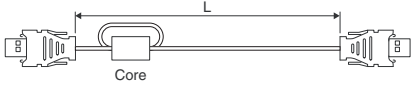
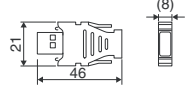
## USB Communication Cable (for CN7)

| Symbol | Name   | Model         | Description   |
|--------|--|---------------|---|
| (21)   | PC USB to Mini USB Connecting Cable with Ferrite | AX-CUSBM002-E |  |

## EtherCAT Communication Cable

| Symbol | Name           | Description   |
|--------|----------------|---|
| (22)   | Ethernet Cable | <p>EtherCAT Communication Cables<br/>Use a category 5 or higher cable with double, aluminum tape and braided shielding.<br/>Connector (Modular Plug) Specifications<br/>Use a category 5 or higher, shielded connector.</p> |

## MECHATROLINK-II Communication Cable

| Symbol | Name   | Length (L) | Model (OMRON model number) | Yaskawa model number | Description   |
|--------|--|------------|----------------------------|----------------------|---|
| (23)   | MECHATROLINK-II Communication Cable<br>* Can be connected to R88D-GN and R88D-KN only. | 0.5m       | FNY-W6002-A5               | JEPMC-W6002-A5-E     | (without ring core and USB connector on both ends)<br> |
|        |  | 1m         | FNY-W6002-01               | JEPMC-W6002-01-E     |   |
|        |  | 3m         | FNY-W6002-03               | JEPMC-W6002-03-E     |   |
|        |  | 5m         | FNY-W6002-05               | JEPMC-W6002-05-E     |   |
|        | MECHATROLINK-II Communication Cable  | 0.5m       | FNY-W6003-A5               | JEPMC-W6003-A5       | (with ring core and USB connector on both ends)<br>    |
|        |  | 1m         | FNY-W6003-01               | JEPMC-W6003-01       |   |
|        |  | 3m         | FNY-W6003-03               | JEPMC-W6003-03       |   |
|        |  | 5m         | FNY-W6003-05               | JEPMC-W6003-05       |   |
|        |  | 10m        | FNY-W6003-10               | JEPMC-W6003-10       |   |
|        |  | 20m        | FNY-W6003-20               | JEPMC-W6003-20       |   |
|        |  | 30m        | FNY-W6003-30               | JEPMC-W6003-30       |   |
|        |  |            |                            |                      |   |
| (24)   | MECHATROLINK-II Terminating resistance   | -          | FNY-W6022                  | JEPMC-W6022          |    |

### Servo Drive Connectors

| Connectors | Description                         |  | Model          |
|------------|-------------------------------------|--|----------------|
| CN1        | Control I/O Connector               | Analog/Pulse Train Input Servodrive (R88D-KT□) | R88A-CNU11C    |
|            |                                     | Network Communications Servodrive (R88D-KN□)   | R88A-CNW01C    |
| CN2        | Encoder Connector                   |  | R88A-CNW01R    |
| CN4        | External Encoder connector          |  | R88A-CNK41L    |
| CN8        | Safety I/O Signal Connector         |  | R88A-CNK81S    |
| CNA        | Main Circuit Power Supply Connector | [100VAC] 50W-400W<br>[200VAC] 100W-1.5kW       | R88A-CNA02G-AP |
|            |                                     | [200VAC] 2.0kW                                 | R88A-CNA02K-AP |
|            |                                     | [400VAC] 600W-1.5kW                            | R88A-CNA01K-AP |
|            |                                     | [400VAC] 2.0kW                                 | R88A-CNA03K-AP |
| CNB        | Servomotor Power Connector          | [100VAC] 50W-400W<br>[200VAC] 100W-1.5kW       | R88A-CNB01G-AP |
|            |                                     | [400VAC] 600W-1.5kW                            | R88A-CNB01K-AP |
|            |                                     | [200VAC] 2.0kW<br>[400VAC] 2.0kW               | R88A-CNB02K-AP |
| CNC        | 24VDC Control Circuit Connector     | [400VAC] 600W-2.0kW                            | R88A-CNC01K-AP |
| CND        | Regenerative Resistor Connector     | [400VAC] 600W-1.5kW                            | R88A-CND01K-AP |
|            |                                     | [200VAC] 2.0kW<br>[400VAC] 2.0kW               | R88A-CND02K-AP |

### Servomotor Connector

| Description                  | Applicable Servomotor Capacity   | Model          |
|------------------------------|--|----------------|
| Servomotor Encoder Connector | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK02R    |
|                              | [100 V/200 V] 3,000 r/min (1 to 5 kW), 2,000 r/min, 1,000 r/min<br>[400 V] 3,000 r/min, 2,000 r/min, 1,000 r/min | R88A-CNK04R    |
| Power cable connector        | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK11A    |
|                              | [200 V] [400V] 1,500 r/min (7.5 to 15kW)<br>1,000 r/min (6.0kW)  | R88A-CNK21A-AP |
| Brake cable connector        | [100 V/200 V] 3,000 r/min (50 to 750 W)  | R88A-CNK11B    |
|                              | [200 V] [400V] 1,500 r/min (7.5 to 15kW)<br>1,000 r/min (6.0kW)  | R88A-CNK21B-AP |

## Related Manuals

Please read the relevant manuals of G5-Series

| English Cat. No. | Japanese Cat. No. | Type                    | Name  |
|------------------|-------------------|-------------------------|---|
| I571             | SBCE-357          | R88D-KT/R88M-K          | G5-SERIES<br>AC SERVO MOTOR AND SERVO DRIVE USER'S MANUAL                                     |
| I572             | SBCE-358          | R88D-KN□-ML2/R88M-K     | G5-SERIES<br>MECHATROLINK-II Communications<br>AC SERVO MOTOR AND SERVO DRIVE USER'S MANUAL   |
| I576             | SBCE-365          | R88D-KN□-ECT/R88M-K     | G5-SERIES<br>EtherCAT Communications<br>AC SERVO MOTOR AND SERVO DRIVE USER'S MANUAL          |
| I577             | SBCE-366          | R88D-KN□-ECT-L/R88L-EC  | G5-SERIES<br>EtherCAT Communications Linear Motor Type<br>LINEARMOTOR AND DRIVE USER'S MANUAL |
| I584             | -                 | R88D-KP/R88M-KE         | G5-SERIES<br>Pulse Train Input Type<br>AC SERVO MOTOR AND SERVO DRIVE USER'S MANUAL           |
| W487             | SBCE-359          | CJ1W-NC□81/CJ1W-NC□82   | CJ-series Position Control Unit Operation Manual  |
| W446             | SBCA-337          | CXONE-AL□□C-V□/AL□□D-V□ | CX-Programmer Operation Manual  |
| W453             | SBCE-375          | CXONE-□□□□C-V□/□□□□D-V□ | CX-Drive OPERATION MANUAL   |
| W504             | SBCA-362          | SYSMAC-SE2□□□           | Sysmac Studio Version 1 Operation Manual  |

**Read and Understand this Catalog**

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.

**Warranty and Limitations of Liability**

**WARRANTY**

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

**LIMITATIONS OF LIABILITY**

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

**Application Considerations**

**SUITABILITY FOR USE**

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

**PROGRAMMABLE PRODUCTS**

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

**Disclaimers**

**CHANGE IN SPECIFICATIONS**

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

**DIMENSIONS AND WEIGHTS**

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

**PERFORMANCE DATA**

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

## Related Product Catalog



SYSMAC Catalogue  
One Machine Control  
NJ501 / NJ301

Cat. No. P072



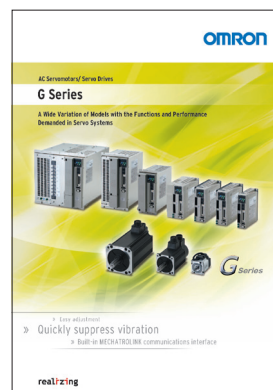
Programmable Controller  
SYSMAC CJ Series  
Position Control Units (High-Speed type)  
CJ1W-NC214/414  
CJ1W-NC234/434

Cat. No. R156



AC Servomotors/  
Servo Drives  
SMARTSTEP 2

Cat. No. I813



AC Servomotors/  
Servo Drives  
G Series

Cat. No. I814



**Singapore Office:**  
**OMRON ELECTRONICS PTE. LTD.**  
438A Alexandra Road, #05-05/08  
(Lobby 2) Alexandra Technopark  
Singapore 119967  
Tel: (65) 6547 6789  
Fax: (65) 6547 6769  
E-mail: [mktg\\_sg@ap.omron.com](mailto:mktg_sg@ap.omron.com)



**Malaysia Office:**  
**OMRON ELECTRONICS SDN. BHD.**  
1101 Level 11 Uptown 1  
1 Jalan SS21/58 Damansara Uptown  
47400 Petaling Jaya, Selangor  
Malaysia  
Tel: (60-3) 7688 2888  
Fax: (60-3) 7688 2833  
E-mail: [my\\_enquiry@ap.omron.com](mailto:my_enquiry@ap.omron.com)



**Thailand Office:**  
**OMRON ELECTRONICS CO. LTD.**  
Rasa Tower 2 16th Floor  
555 Phaholyothin Road  
Chatuchak, Bangkok  
10900, Thailand  
Tel: (66-2) 937 0500  
Fax: (66-2) 937 0501  
CRM Call Centre: (66-2) 942 6700  
E-mail: [th\\_enquiry@ap.omron.com](mailto:th_enquiry@ap.omron.com)



**Indonesia Office:**  
**PT. OMRON ELECTRONICS**  
Graha Pratama Building, 3A Floor  
Jl. M.T. Haryono Kav 15  
Jakarta Selatan 12810  
Indonesia  
Tel: (62-21) 8370 9555  
Fax: (62-21) 8370 9550  
E-mail: [id\\_enquiry@ap.omron.com](mailto:id_enquiry@ap.omron.com)



**Philippines Office:**  
**OMRON ASIA PACIFIC PTE. LTD.**  
**MANILA REPRESENTATIVE OFFICE**  
2nd Floor, Kings Court II Building  
2129 Do Chino Roces Avenue  
Corner Dela Rosa Street  
1231 Makati City, Metro Manila  
Philippines  
Tel: (63-2) 811 2831  
Fax: (63-2) 811 2583  
E-mail: [ph\\_enquiry@ap.omron.com](mailto:ph_enquiry@ap.omron.com)



**Australia Offices:**  
**Sydney Office:**  
**OMRON ELECTRONICS PTY. LTD.**  
Omron House  
71 Epping Road, North Ryde  
Sydney, New South Wales 2113  
Australia  
Tel: (61-2) 9878 6377  
Fax: (61-2) 9878 6981  
Toll Free: 1800 678838  
E-mail: [au\\_enquiry@ap.omron.com](mailto:au_enquiry@ap.omron.com)

**Melbourne Office:**  
**OMRON ELECTRONICS PTY. LTD.**  
Axxess Corporate Park  
Unit 98, 45 Gilby Road  
Mt Waverley Victoria 3149  
Australia  
Tel: (61-3) 8588 2600  
Fax: (61-3) 8588 2690  
E-mail: [au\\_enquiry@ap.omron.com](mailto:au_enquiry@ap.omron.com)

**Brisbane Office:**  
**OMRON ELECTRONICS PTY. LTD.**  
Unit 14, 1378 Lytton Road  
Hemmant 4174, Queensland  
Australia  
Tel: (61-7) 3859 3900  
Fax: (61-7) 3348 8701  
E-mail: [au\\_enquiry@ap.omron.com](mailto:au_enquiry@ap.omron.com)

**Adelaide Office:**  
**OMRON ELECTRONICS PTY. LTD.**  
Suite 12, 18 Humpheries Terrace  
Kilkenny, SA 5009  
Australia  
Tel: (61-8) 8440 6412  
Fax: (61-8) 8345 1204  
E-mail: [au\\_enquiry@ap.omron.com](mailto:au_enquiry@ap.omron.com)



**New Zealand Office:**  
**OMRON ELECTRONICS LTD.**  
65 Boston Road, Mt Eden  
Private Bag 92620  
Symonds Street, Auckland  
New Zealand  
Tel: (64-9) 358 4400  
Fax: (64-9) 358 4411  
E-mail: [nz\\_enquiry@ap.omron.com](mailto:nz_enquiry@ap.omron.com)



**India Offices:**  
**Mumbai Office:**  
**OMRON AUTOMATION PVT. LTD.**  
Kalpataru Square, Office Unit No. 32  
off Andheri-Kurla Road, Andheri (East),  
Mumbai- 400059  
India  
Tel: (91-22) 4228 8400  
Fax: (91-22) 4275 5602  
E-mail: [in\\_enquiry@ap.omron.com](mailto:in_enquiry@ap.omron.com)

**Bangalore Office:**  
**OMRON AUTOMATION PVT. LTD.**  
No. 43, G.N. Complex  
St.Johns Road  
Bangalore - 560 042  
India  
Tel: (91-80) 4072 6400/401  
Fax: (91-80) 4146 6403  
E-mail: [bangalore\\_enquiry@ap.omron.com](mailto:bangalore_enquiry@ap.omron.com)

**Gurgaon Office:**  
**OMRON AUTOMATION PVT. LTD.**  
No.108 &103-106, 1/F, Sewa Corporation Park,  
MG Road, Gurgaon, Haryana 122002  
India  
Tel: (91-124) 4921700  
Fax: (91-124) 4921777  
E-mail: [newdelhi\\_enquiry@ap.omron.com](mailto:newdelhi_enquiry@ap.omron.com)



**Vietnam Offices:**  
**OMRON ASIA PACIFIC PTE. LTD.**  
**HANOI REPRESENTATIVE OFFICE**  
9th floor, Mipec Tower,  
229 Tay Son, Dong Da, Hanoi, Vietnam  
Tel: (84-4) 3556 3444  
Fax: (84-4) 3556 3443  
E-mail: [hn\\_enquiry@ap.omron.com](mailto:hn_enquiry@ap.omron.com)

**HO CHI MINH REPRESENTATIVE OFFICE**  
2nd Floor, IWA, 102 A-B, Cong Quynh,  
P. Pham Ngu Lao, Q1, TP. Ho Chi Minh  
SR Vietnam  
Tel: (84-8) 3920 4338  
Fax: (84-8) 3920 4335  
E-mail: [hcm\\_enquiry@ap.omron.com](mailto:hcm_enquiry@ap.omron.com)

Asia Pacific Head Office:

## OMRON ASIA PACIFIC PTE. LTD.

438A Alexandra Road  
#05-05/08  
(Lobby 2) Alexandra Technopark  
Singapore 119967  
Tel: (65) 6835 3011 Fax: (65) 6835 2711  
E-mail: [ask@ap.omron.com](mailto:ask@ap.omron.com)

Website: [www.omron-ap.com](http://www.omron-ap.com)

Authorized Distributor



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Omron:

[R88M-K1K020F-S2](#) [R88M-K1K520H-OS2](#) [R88M-K1K030F-OS2](#) [R88M-K1K530C-BOS2](#) [R88M-K1K030T-BOS2](#)  
[R88M-K1K030F-B](#) [R88M-K1K030H-S2](#) [R88M-K1K020C-B](#) [R88M-K1K520F](#) [R88M-K1K020T-BS2](#) [R88M-K1K520F-](#)  
[BS2](#) [R88M-K1K530H-BS2](#) [R88M-K1K020C-OS2](#) [R88M-K1K020H-S2](#) [R88M-K1K530C-S2](#) [R88M-K1K520T-B](#) [R88M-](#)  
[K1K020H-BOS2](#) [R88M-K1K030H-B](#) [R88M-K1K020C-S2](#) [R88M-K1K030T-S2](#) [R88M-K1K530T](#) [R88M-K1K520T-BOS2](#)  
[R88M-K1K530C-BS2](#) [R88M-K1K520H-S2](#) [R88M-K1K530F](#) [R88M-K1K530T-OS2](#) [R88M-K1K520F-OS2](#) [R88M-](#)  
[K1K020T](#) [R88M-K1K030H-BOS2](#) [R88M-K1K520C](#) [R88M-K1K520F-S2](#) [R88M-K1K030T-OS2](#) [R88M-K1K020F-BOS2](#)  
[R88M-K1K520H-B](#) [R88M-K1K520C-B](#) [R88M-K1K030F-BOS2](#) [R88M-K1K520T-BS2](#) [R88M-K1K020H-OS2](#) [R88M-](#)  
[K1K530T-S2](#) [R88M-K1K520C-OS2](#) [R88M-K1K020T-OS2](#) [R88M-K1K030F](#) [R88M-K1K030T](#) [R88M-K1K030C-B](#)  
[R88M-K1K020T-B](#) [R88M-K1K530F-OS2](#) [R88M-K1K020F-B](#) [R88M-K1K030H-OS2](#) [R88M-K1K530F-S2](#) [R88M-](#)  
[K1K530C-B](#) [R88M-K1K020F-OS2](#) [R88M-K1K530H-OS2](#) [R88M-K1K030T-BS2](#) [R88M-K1K520C-BS2](#) [R88M-](#)  
[K1K030F-BS2](#) [R88M-K1K530T-B](#) [R88M-K1K030H](#) [R88M-K1K030C-S2](#) [R88M-K1K530F-B](#) [R88M-K1K030H-BS2](#)  
[R88M-K1K530C](#) [R88M-K1K530T-BOS2](#) [R88M-K1K020T-BOS2](#) [R88M-K1K520C-BOS2](#) [R88M-K1K020C-BS2](#) [R88M-](#)  
[K1K520F-BOS2](#) [R88M-K1K530H](#) [R88M-K1K030C](#) [R88M-K1K030C-BS2](#) [R88M-K1K520F-B](#) [R88M-K1K020H-BS2](#)  
[R88M-K1K530H-B](#) [R88M-K1K030C-OS2](#) [R88M-K1K530F-BS2](#) [R88M-K1K030C-BOS2](#) [R88M-K1K020F](#) [R88M-](#)  
[K1K520H](#) [R88M-K1K020C](#) [R88M-K1K520C-S2](#) [R88M-K1K020H-B](#) [R88M-K1K520T](#) [R88M-K1K520H-BS2](#) [R88M-](#)  
[K1K030T-B](#) [R88M-K1K020C-BOS2](#) [R88M-K1K520T-S2](#) [R88M-K1K530H-S2](#) [R88M-K1K020F-BS2](#) [R88M-K1K520H-](#)  
[BOS2](#) [R88M-K1K020H](#) [R88M-K1K530F-BOS2](#) [R88M-K1K520T-OS2](#) [XW2Z-200J-B4](#) [R88M-K1K530T-BS2](#) [R88M-](#)  
[K1K530C-OS2](#) [R88M-K1K020T-S2](#) [R88M-K1K530H-BOS2](#) [R88M-K3K020C-OS2](#) [R88D-KT01L](#) [R88M-K2K010C-](#)  
[OS2](#) [R88M-K3K010C-S2](#)