

www.nicsanat.com

021-87700210

NIC SANAT

انیک صنعت



OMRON

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

SYSMAC
always in control

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.

www.nicsanat.com

021-87700210



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

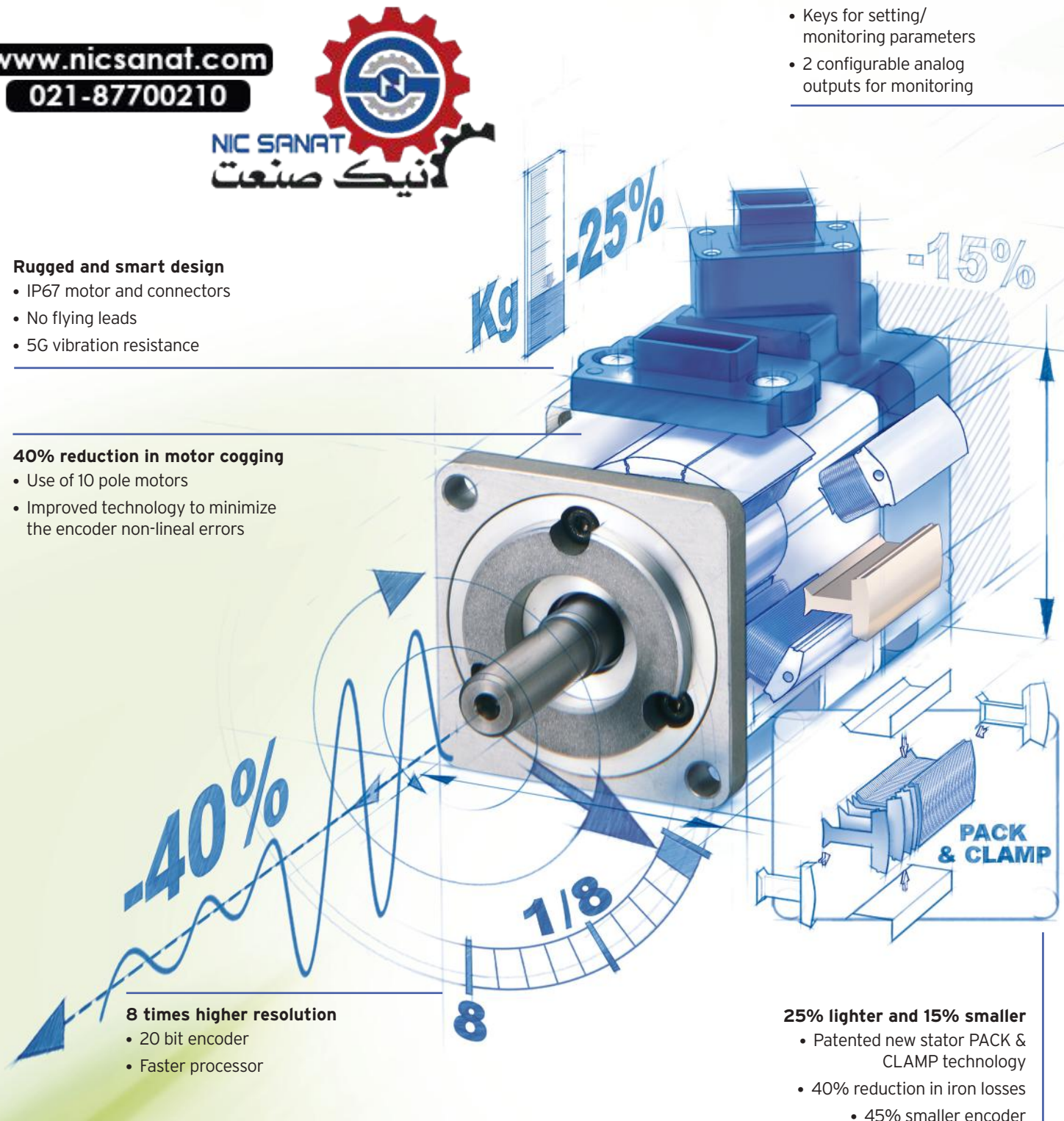
- 20 bit encoder
- Faster processor

Panel operator functions

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

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

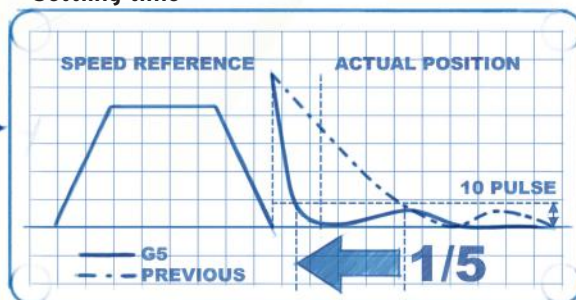
- PL-d according ISO13849-1:2008
- STO: IEC61800-5-2:2007
- SIL2 according to EN61508:2001
- Cat.3: EN954-1:1996



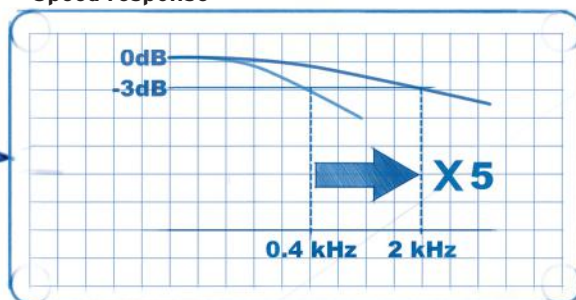
Fast & accurate

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

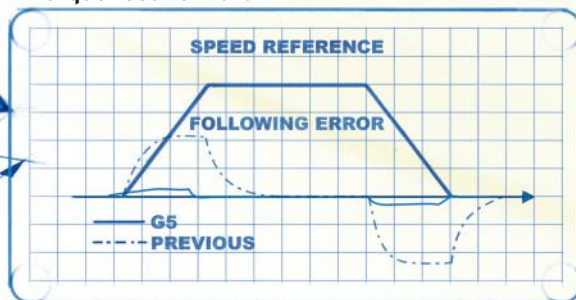
Settling time



Speed response



Torque feed forward

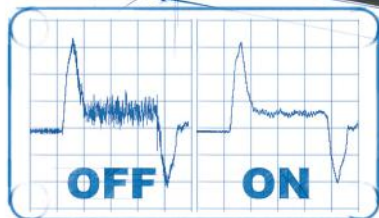


100,000 hr operation in rugged industrial conditions

- 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

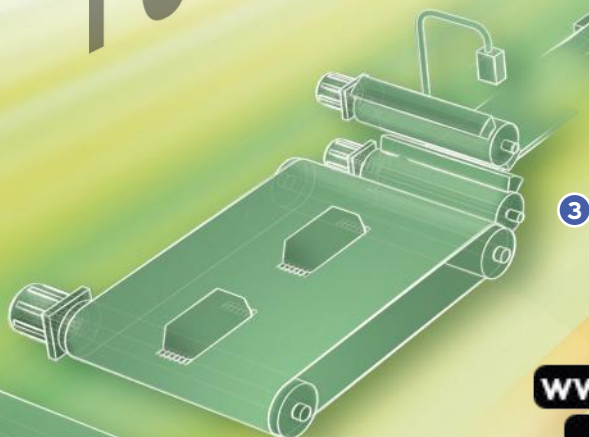
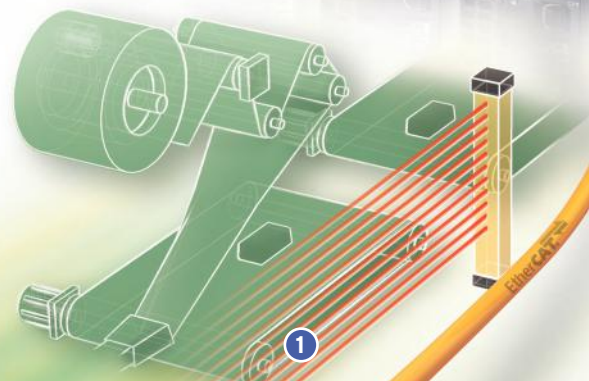
G5 seamlessly integrates into Omron's ONE SOFTWARE - ONE MACHINE CONTROL automation architecture. It utilises Ethernet connectivity and is fully configured through the SYSMAC STUDIO. G5 also simplifies your mechanical and electrical design by including double registration input, full closed loop and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



www.nicsanat.com
021-87700210



Machine Automation Controller

NS HMI

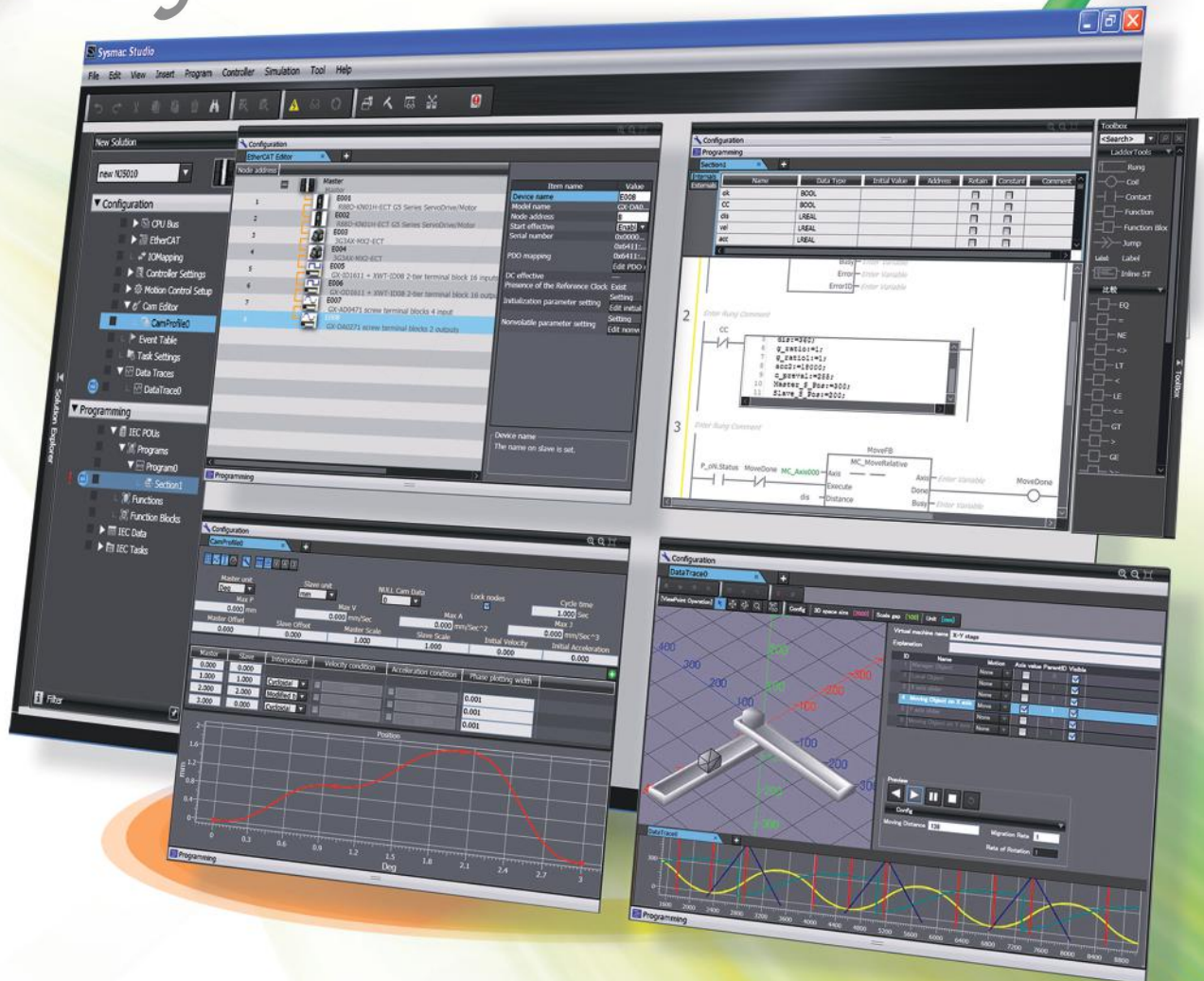
EtherNet/IP

EtherCAT

ETHERNET CONNECTIVITY ONE SOFTWARE

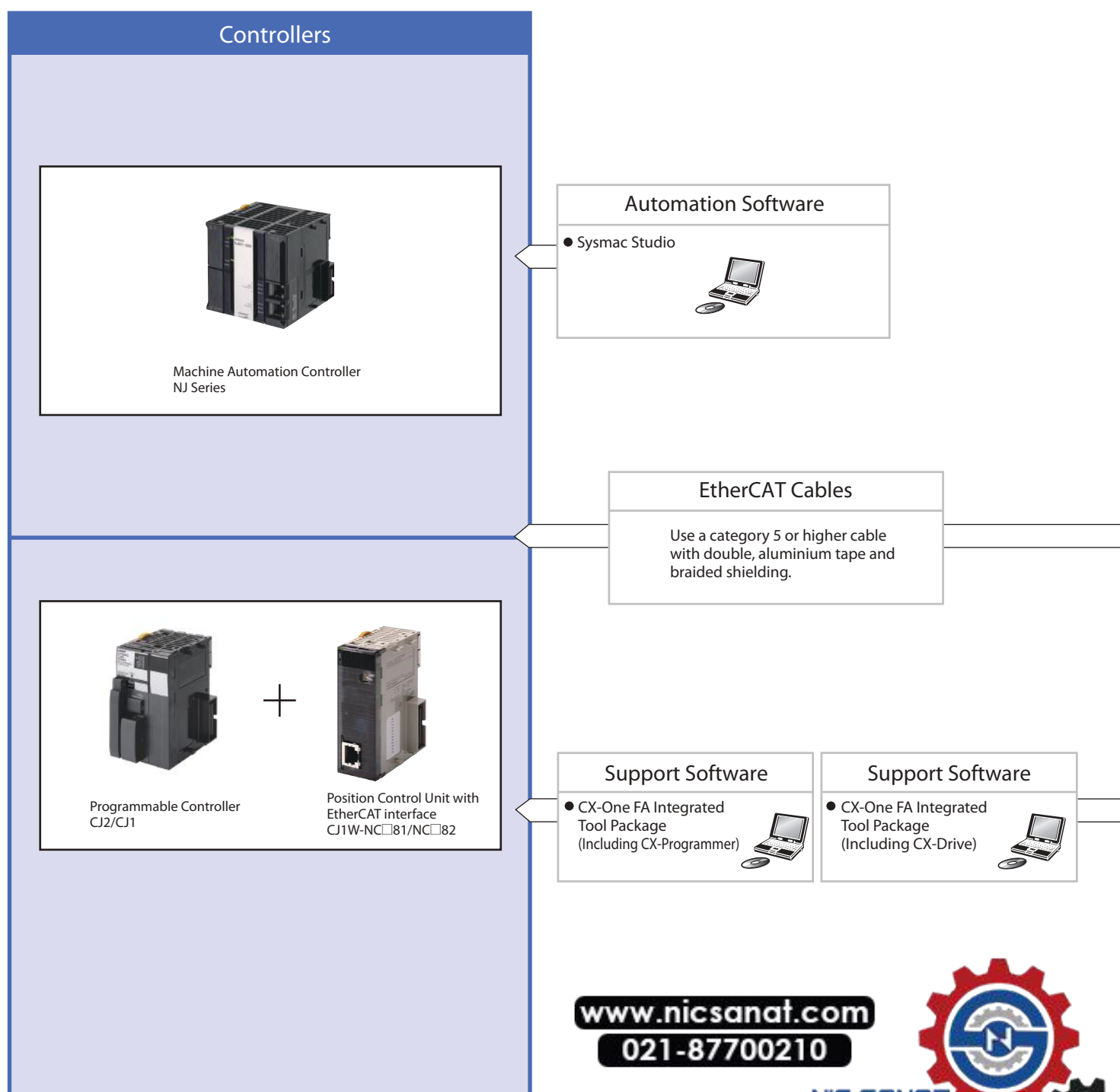
One software - SYSMAC STUDIO

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



R88M-K/R88D-KN□-ECT

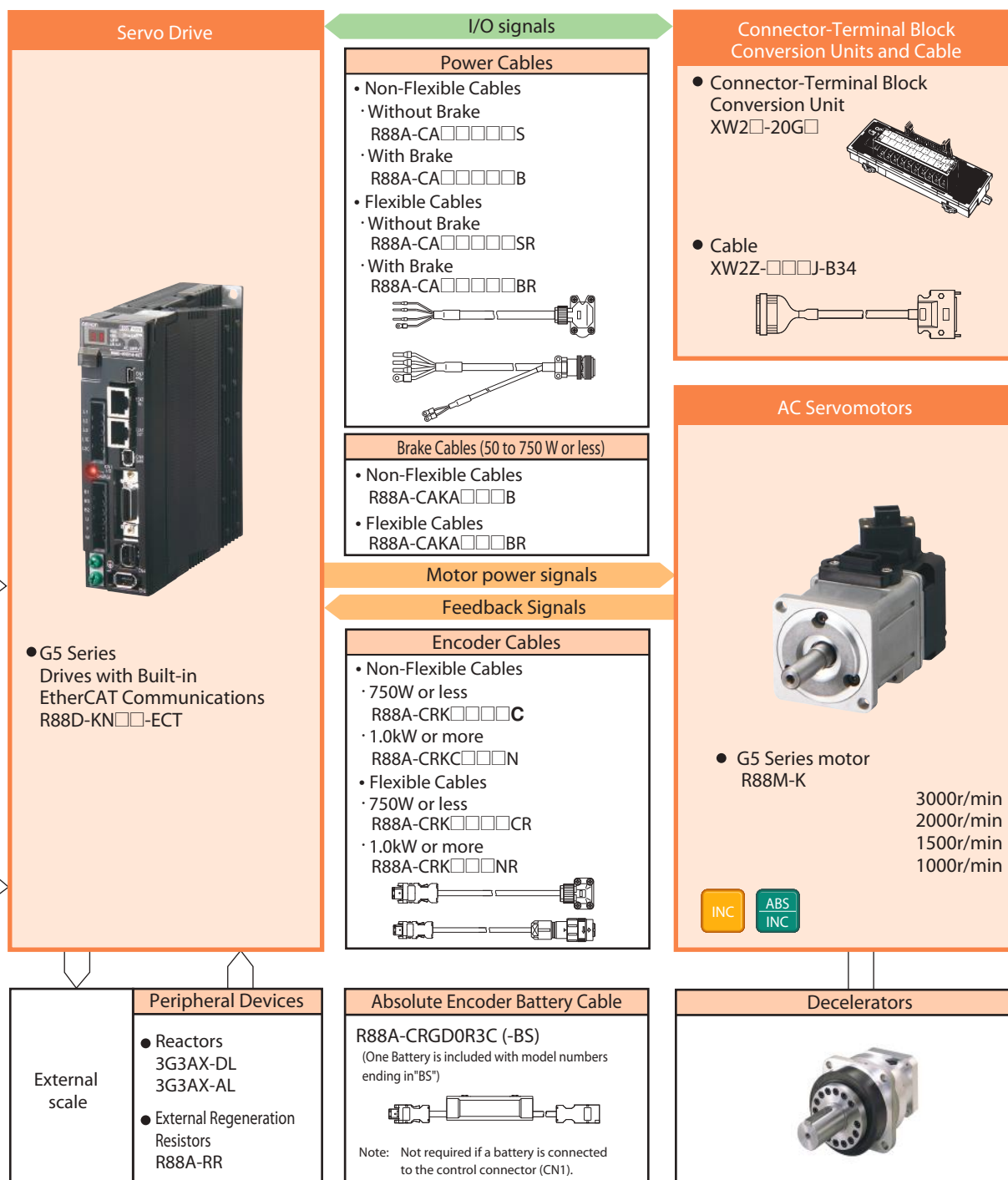
System Configuration



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



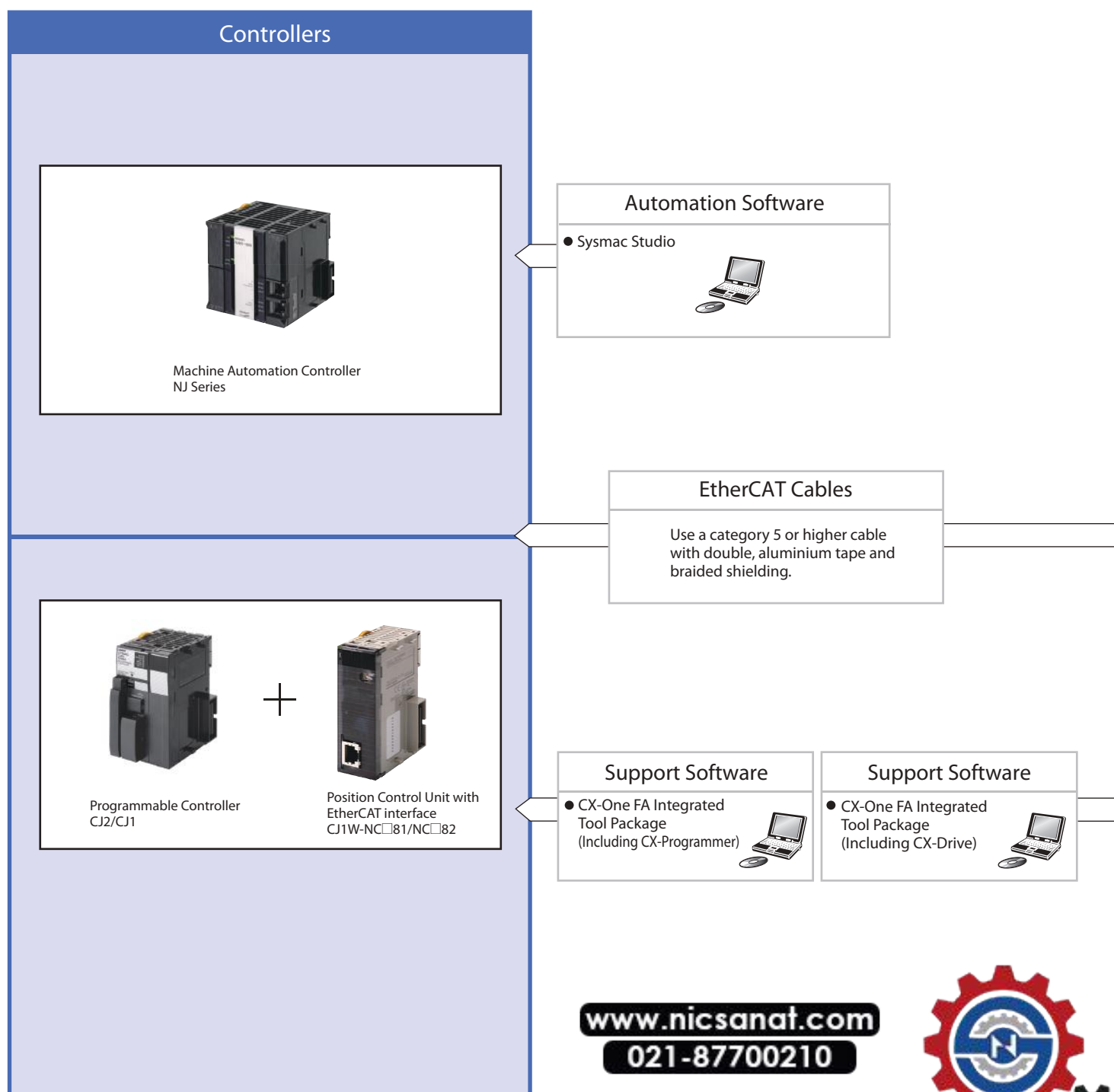
- High-accuracy positioning with fully-closed control.
- Servo Drives for 400VAC globally widens applicable systems and environment, including large-scale equipment.
- Safe design and Safe Torque Off (STO) function.
- Vibration can be suppressed in acceleration/deceleration even in low-rigidity mechanical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



EtherCAT Communications

USB Communications

System Configuration



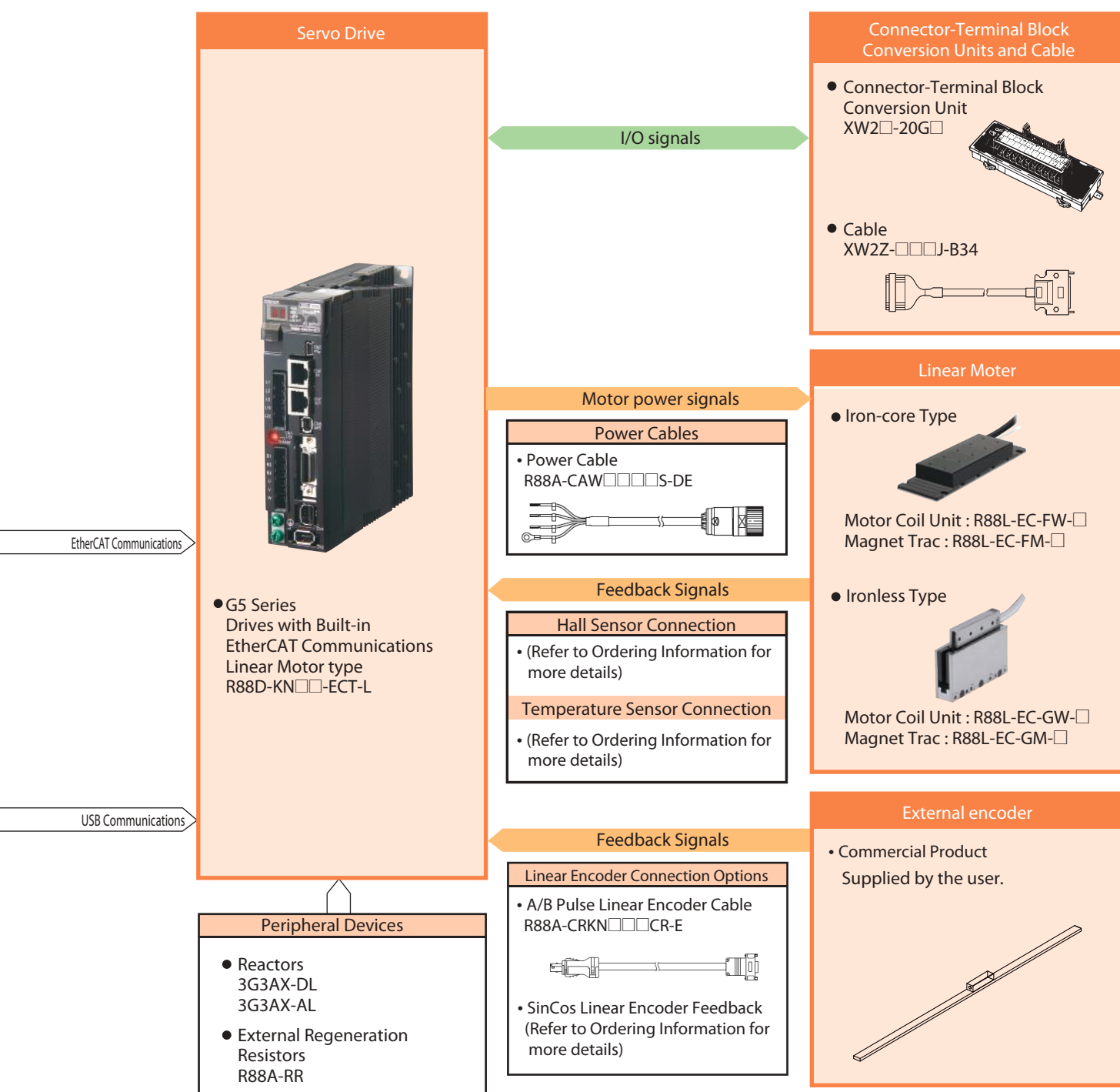
www.nicsanat.com
021-87700210



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.

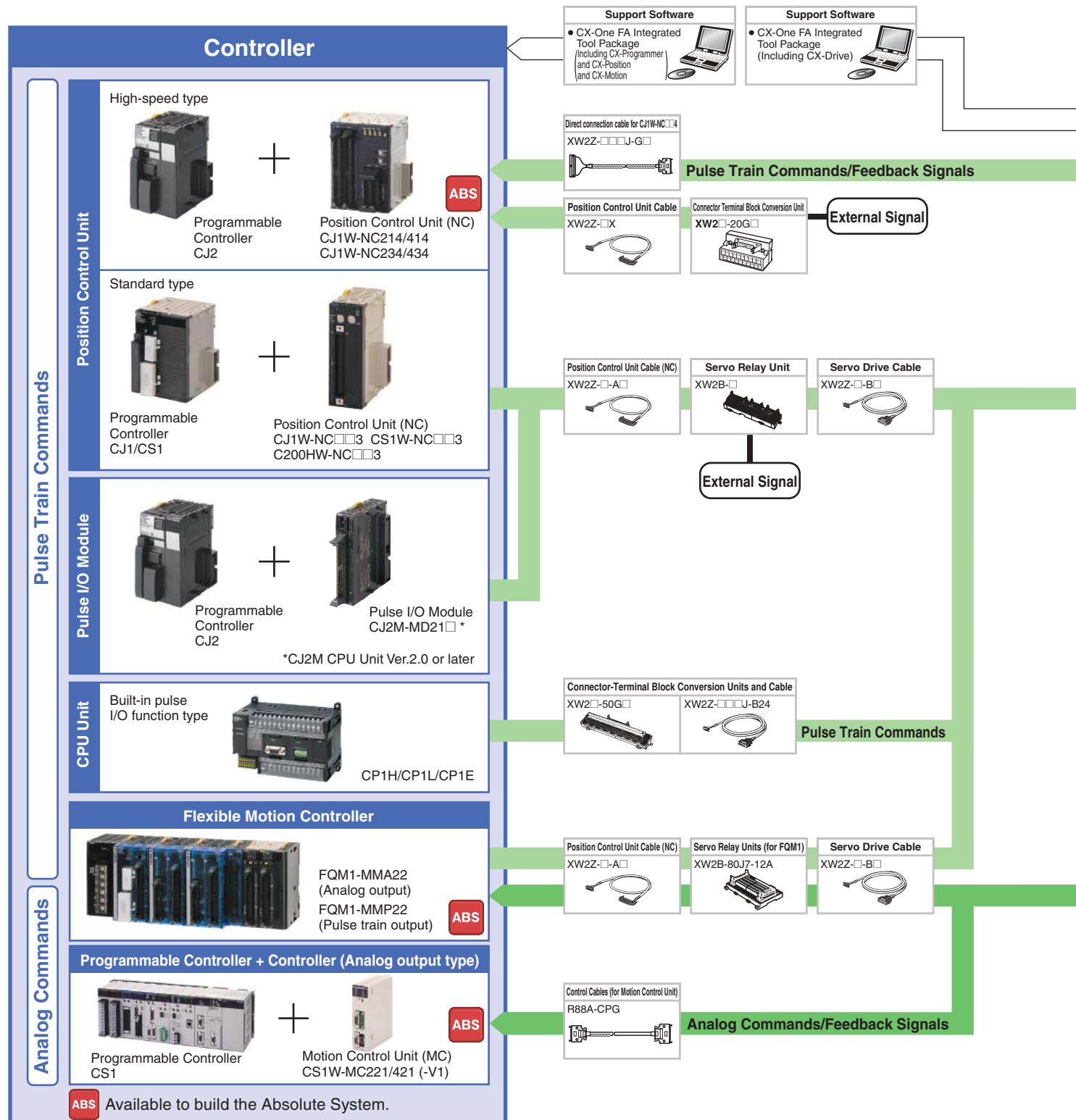


R88M-K/R88D-KT

www.nicsanat.com
021-87700210



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



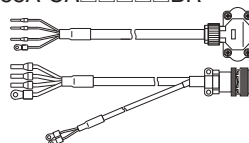
- G5 Series driver
R88D-KT

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



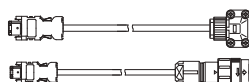
Brake Cables (50 to 750 W or less)

- 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



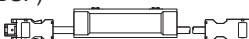
External scale

Peripheral Devices

- 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).

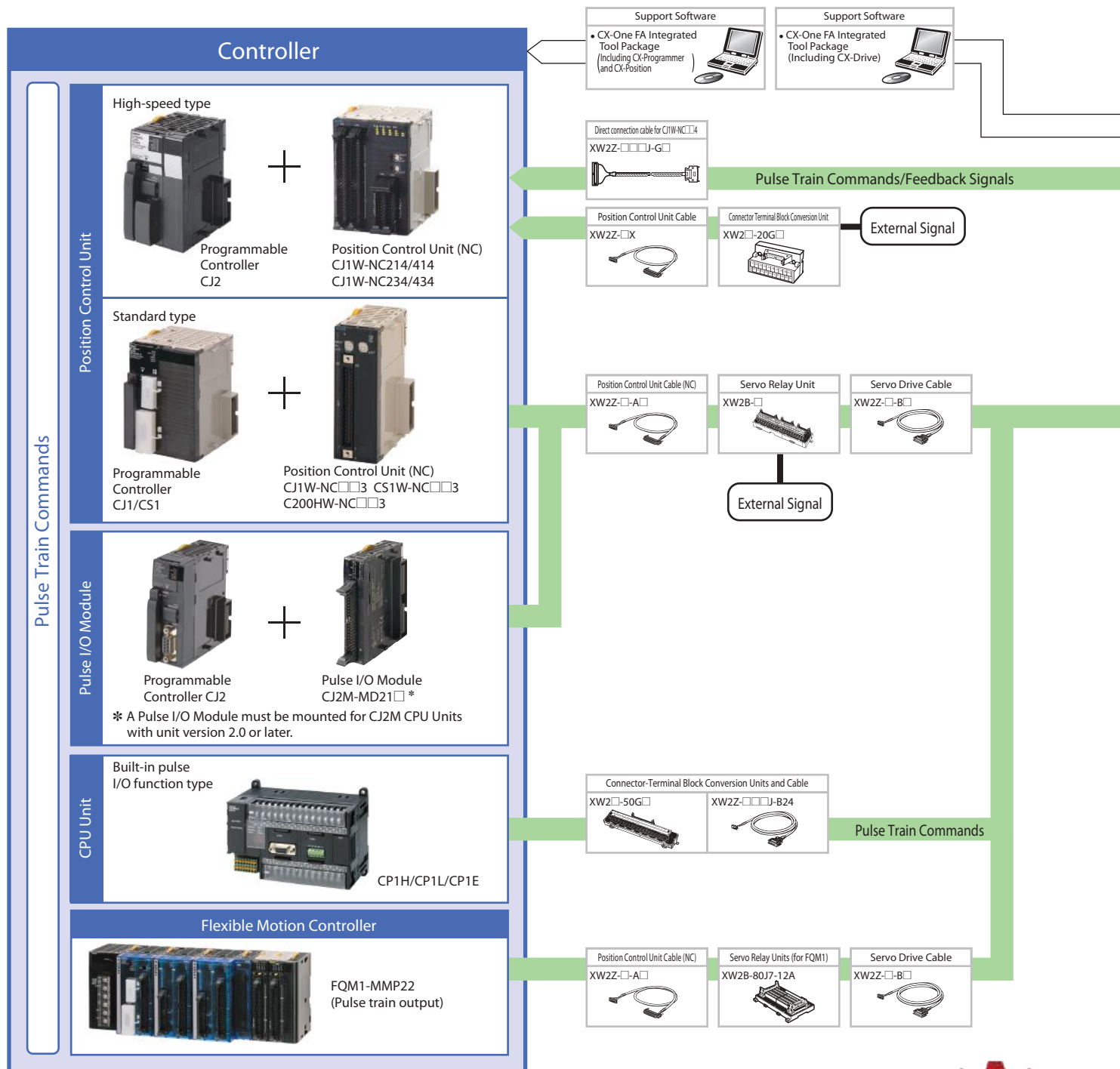
Decelerators



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

R88M-KE/R88D-KP

System Configuration

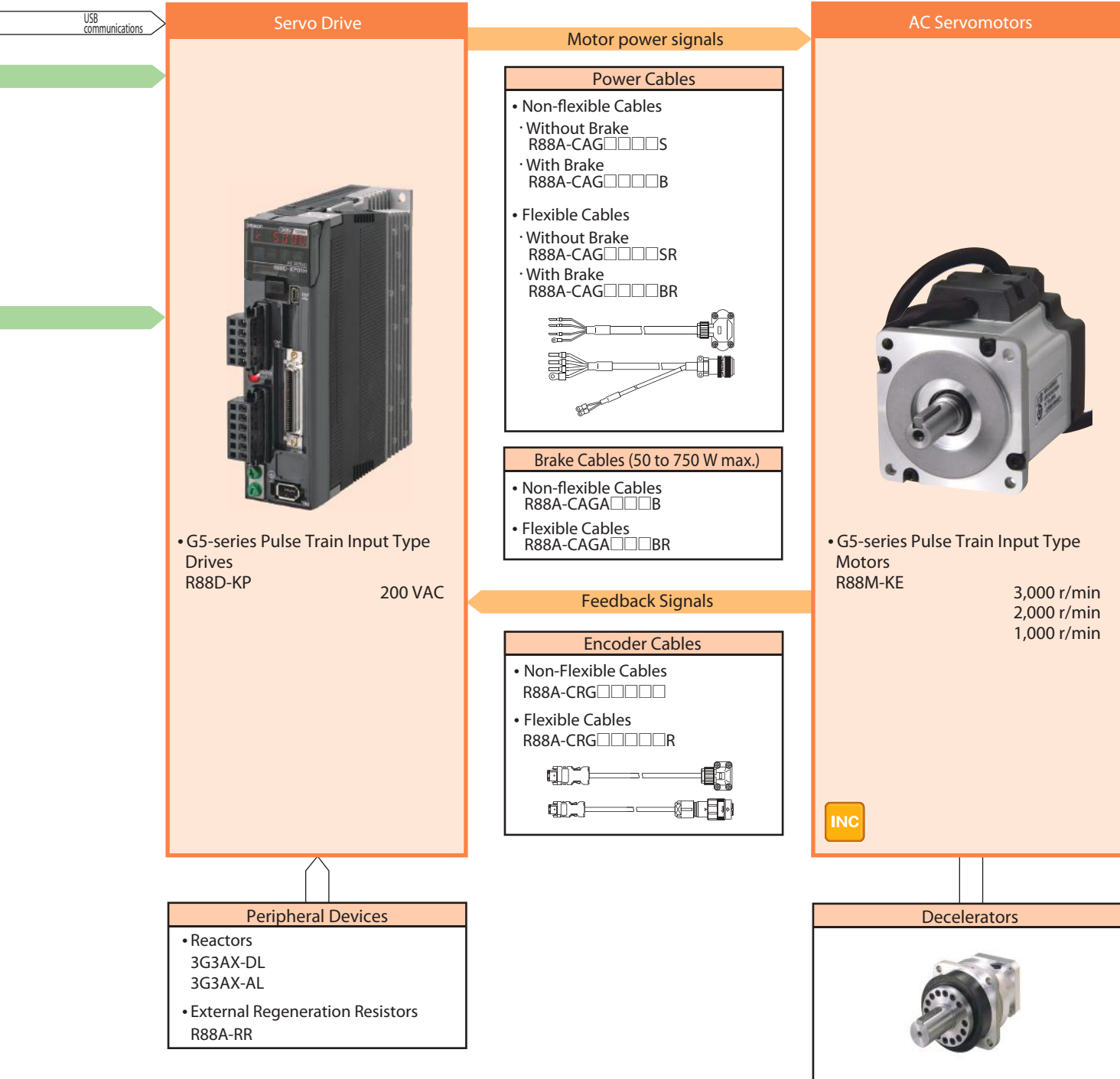


www.nicsanat.com
021-87700210



High-performance Servo Optimal for positioning Application.

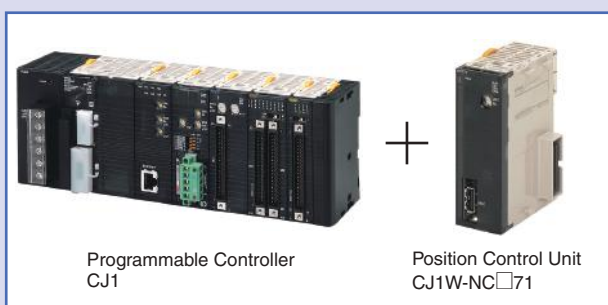
- Industry Top-class Tracking Performance.
Speed Response Frequency of 2 kHz.
- Outstanding Positioning Accuracy.
Featuring a 20-bit high-resolution incremental encoder.
- Easy Adjustment with Autotuning Function.
- Ideal for Applications That Require High Accuracy.
Improved vibration control function.



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.

www.nicsanat.com

021-87700210

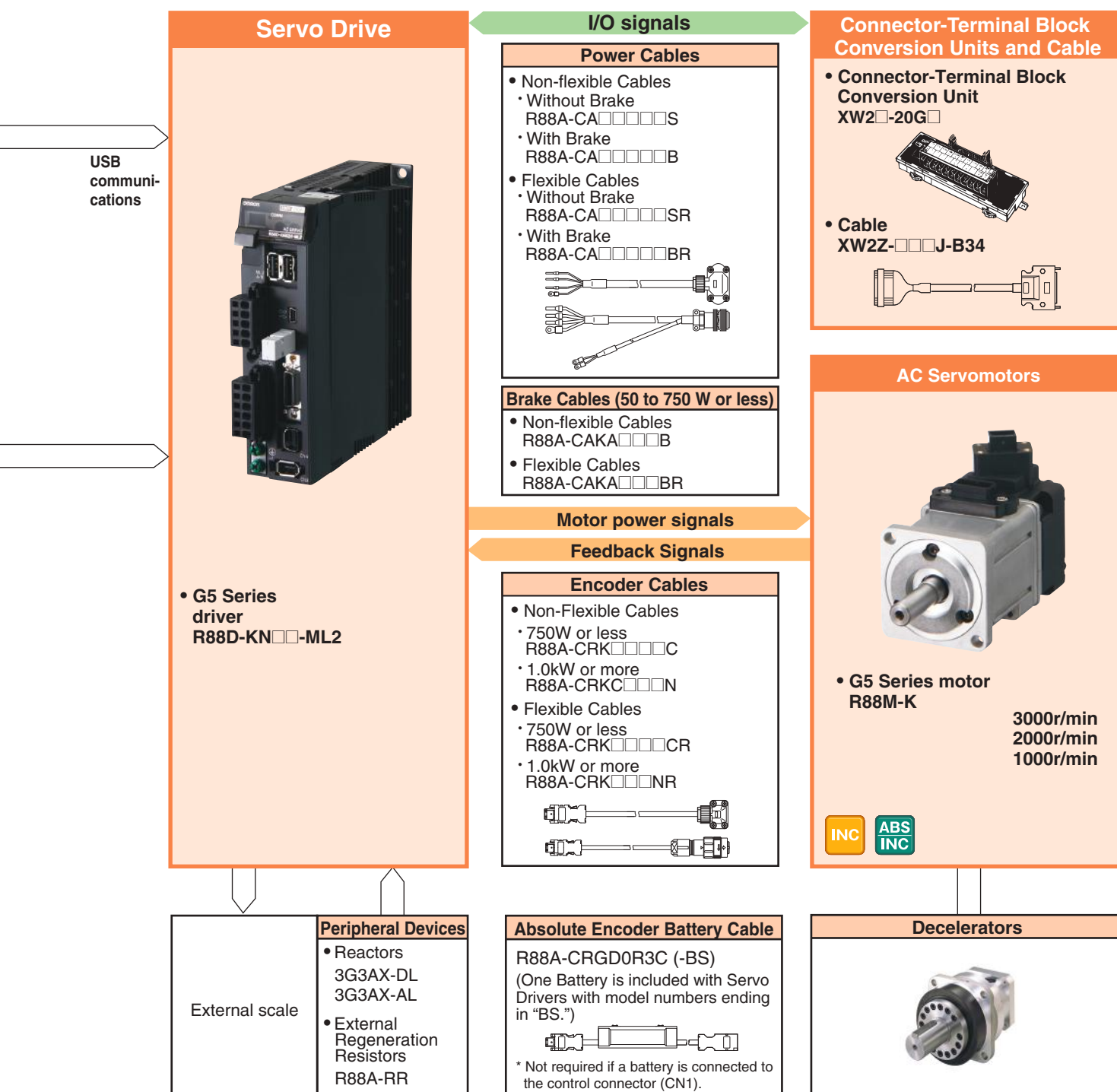




(Ro)

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

This image shows a full page of blank graph paper. The grid consists of small, evenly spaced squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

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
(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)
(Non-flexible Cables)
(Flexible Cables)
- Cable/Connector
- Control Cables
 - For General-purpose Inputs
- Communication Cables
 - For MECHATROLINK-II Communications
 - For EtherCAT Communications
- Peripheral Devices
(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
		30	3 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

www.nicsanat.com

021-87700210



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

www.nicsanat.com
021-87700210



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 G□-Series Servomotors Backlash = 3' Max.		
(2)	Flange Size 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
		45	1/45
(4)	Applicable Servomotor 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
		5K0	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 G□-Series Servomotors Backlash = 15' Max.		
(2)	Gear Ratio	05	1/5
		09	1/9
		15	1/15
		25	1/25
(3)	Flange Size Number	B	□52
		C	□78
		D	□98
(4)	Applicable Servomotor 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	Rotation speed		Applied Voltage						Brakes		Oil Seals		Shaft Type	
					INC	INC	INC	ABS	ABS	ABS						
Standard	Eco				400	200	100	400	200	100						
Blank	E*2				F	H	L	C	T	S	<Blank>	B	<Blank>	O	<Blank>	S2
√	√	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				√	√		√	√	√	√	√	
<Blank>: Cylinder Type E: Eco Type		example 050: 50W 100: 100W 15K0: 15kW	10: 1,000 r/min 15: 1,500 r/min 20: 2,000 r/min 30: 3,000 r/min		F: 400 VAC (with incremental encoder) H: 200 VAC (with incremental encoder) L: 100 VAC (with incremental encoder) C: 400 VAC (with absolute encoder) T: 200 VAC (with absolute encoder) S: 100 VAC (with absolute encoder)						<Blank>: Without Brake B: With 24VDC Brake		<Blank>: Without Oil Seals B: With Oil Seals		<Blank>: Straight Shaft 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-□

AC Servomotor/Drive G5-series

Ordering Information

AC Servo Drives

EtherCAT Communications

Specifications		Model
Power Model Supply Voltage	Applicable Servomotor Capacity	
Single-phase 100 VAC	50 W	R88D-KNA5L-ECT
	100 W	R88D-KN01L-ECT
	200 W	R88D-KN02L-ECT
	400 W	R88D-KN04L-ECT
Single-phase/ Three-phase 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
	1.5 kW	R88D-KN15H-ECT
Three-phase 200 VAC	2.0 kW	R88D-KN20H-ECT
	3.0 kW	R88D-KN30H-ECT
	5.0 kW	R88D-KN50H-ECT
	7.5 kW	R88D-KN75H-ECT
	15.0 kW	R88D-KN150H-ECT
Three-phase 400 VAC	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 100 VAC	50 W	R88D-KTA5L
	100 W	R88D-KT01L
	200 W	R88D-KT02L
	400 W	R88D-KT04L
Single-phase/ Three-phase 200 VAC	100 W	R88D-KT01H
	200 W	R88D-KT02H
	400 W	R88D-KT04H
	750 W	R88D-KT08H
	1.0 kW	R88D-KT10H
	1.5 kW	R88D-KT15H
Three-phase 200 VAC	2.0 kW	R88D-KT20H
	3.0 kW	R88D-KT30H
	5.0 kW	R88D-KT50H
	7.5 kW	R88D-KT75H
	15.0 kW	R88D-KT150H
Three-phase 400 VAC	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 100 VAC	100 W	R88D-KN01L-ECT-L
	200 W	R88D-KN02L-ECT-L
	400 W	R88D-KN04L-ECT-L
Single-phase/ Three-phase 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
	1.5 kW	R88D-KN15H-ECT-L
Three-phase 400 VAC	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 100 VAC	50 W	R88D-KNA5L-ML2
	100 W	R88D-KN01L-ML2
	200 W	R88D-KN02L-ML2
	400 W	R88D-KN04L-ML2
Single-phase/ Three-phase 200 VAC	100 W	R88D-KN01H-ML2
	200 W	R88D-KN02H-ML2
	400 W	R88D-KN04H-ML2
	750 W	R88D-KN08H-ML2
	1.0 kW	R88D-KN10H-ML2
	1.5 kW	R88D-KN15H-ML2
Three-phase 200 VAC	2.0 kW	R88D-KN20H-ML2
	3.0 kW	R88D-KN30H-ML2
	5.0 kW	R88D-KN50H-ML2
Three-phase 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/ Three-phase 200 VAC	100 W	R88D-KP01H
	200 W	R88D-KP02H
	400 W	R88D-KP04H
	750 W	R88D-KP08H
	1.0 kW	R88D-KP10H
	1.5 kW	R88D-KP15H
Three-phase 200 VAC	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
			Straight shaft with key and tap
	Voltage	Rated output	Without oil seals
Without brake	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
		5.0 kW	R88M-K5K030H-S2
	400 V	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
		4.0 kW	R88M-K4K030F-S2
With brake	100 V	50 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
	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
		5.0 kW	R88M-K5K030F-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 incremental encoder
			Straight shaft without key
	Voltage	Rated output	Without oil seals
Without brake	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
		5.0 kW	R88M-K5K030H
	400 V	750 W	R88M-K75030F
		1.0 kW	R88M-K1K030F
		1.5 kW	R88M-K1K530F
		2.0 kW	R88M-K2K030F
		3.0 kW	R88M-K3K030F
		4.0 kW	R88M-K4K030F
With brake	100 V	50 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
	400 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
		5.0 kW	R88M-K5K030F-B

Note: Models with oil seals are also available.

www.nicsanat.com

021-87700210



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
		3.0 kW	R88M-K3K030T-S2
		4.0 kW	R88M-K4K030T-S2
		5.0 kW	R88M-K5K030T-S2
	400 V	750 W	R88M-K75030C-S2
		1.0 kW	R88M-K1K030C-S2
		1.5 kW	R88M-K1K530C-S2
		2.0 kW	R88M-K2K030C-S2
		3.0 kW	R88M-K3K030C-S2
		4.0 kW	R88M-K4K030C-S2
		5.0 kW	R88M-K5K030C-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
		3.0 kW	R88M-K3K030T-BS2
		4.0 kW	R88M-K4K030T-BS2
		5.0 kW	R88M-K5K030T-BS2
	400 V	750 W	R88M-K75030C-BS2
		1.0 kW	R88M-K1K030C-BS2
		1.5 kW	R88M-K1K530C-BS2
		2.0 kW	R88M-K2K030C-BS2
		3.0 kW	R88M-K3K030C-BS2
		4.0 kW	R88M-K4K030C-BS2
		5.0 kW	R88M-K5K030C-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
		3.0 kW	R88M-K3K030T
		4.0 kW	R88M-K4K030T
		5.0 kW	R88M-K5K030T
	400 V	750 W	R88M-K75030C
		1.0 kW	R88M-K1K030C
		1.5 kW	R88M-K1K530C
		2.0 kW	R88M-K2K030C
		3.0 kW	R88M-K3K030C
		4.0 kW	R88M-K4K030C
		5.0 kW	R88M-K5K030C
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
		3.0 kW	R88M-K3K030T-B
		4.0 kW	R88M-K4K030T-B
		5.0 kW	R88M-K5K030T-B
	400 V	750 W	R88M-K75030C-B
		1.0 kW	R88M-K1K030C-B
		1.5 kW	R88M-K1K530C-B
		2.0 kW	R88M-K2K030C-B
		3.0 kW	R88M-K3K030C-B
		4.0 kW	R88M-K4K030C-B
		5.0 kW	R88M-K5K030C-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	1.0 kW	R88M-K1K020H-S2
		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
		3.0 kW	R88M-K3K020F-S2
		4.0 kW	R88M-K4K020F-S2
		5.0 kW	R88M-K5K020F-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
		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	1.0 kW	R88M-K1K020H
		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
		3.0 kW	R88M-K3K020F
		4.0 kW	R88M-K4K020F
		5.0 kW	R88M-K5K020F
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
		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
			Straight shaft with key and tap
	Voltage	Rated output	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
			Straight shaft without key
	Voltage	Rated output	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.

www.nicsanat.com
021-87700210



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
	400 V	900 W	R88M-K90010C-S2
		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
	400 V	900 W	R88M-K90010C
		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
			Straight shaft with key and tap
	Voltage	Rated output	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
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
			Straight shaft without key
	Voltage	Rated output	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
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
		5kW	R88M-KE5K020H-S2
With brake	200 V	1kW	R88M-KE1K020H-BS2
		1.5kW	R88M-KE1K520H-BS2
		2kW	R88M-KE2K020H-BS2
		3kW	R88M-KE3K020H-BS2
		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
		5kW	R88M-KE5K020H
With brake	200 V	1kW	R88M-KE1K020H-B
		1.5kW	R88M-KE1K520H-B
		2kW	R88M-KE2K020H-B
		3kW	R88M-KE3K020H-B
		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 R88L-EC-FW-03□	96	R88L-EC-FM-03096-A
		144	R88L-EC-FM-03144-A
		384	R88L-EC-FM-03384-A
	60 mm R88L-EC-FW-06□	192	R88L-EC-FM-06192-A
		288	R88L-EC-FM-06288-A
	110 mm R88L-EC-FW-11□	192	R88L-EC-FM-11192-A
		288	R88L-EC-FM-11288-A

Type	Applicable Active Magnet Width / Motor Coil Unit	Model
Hall Sensor	30 mm: R88L-EC-FW-03□ 60 mm: R88L-EC-FW-06□ 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	1110	R88L-EC-GW-0706-APLS
		348	1730	R88L-EC-GW-0709-APLS

www.nicsanat.com
021-87700210



Type	Applicable Active Magnet Width / Motor Coil Unit	Magnet Trac Unit Length (mm)	Model
Magnet Track	30 mm R88L-EC-GW-03□	90	R88L-EC-GM-03090-A
		120	R88L-EC-GM-03120-A
		390	R88L-EC-GM-03390-A
	50 mm 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 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 R88L-EC-FW-0306-ANPC	R88L-EC-FM-03096-A R88L-EC-FM-03144-A R88L-EC-FM-03384-A	R88L-EC-FH-NNNN-A
	Coil with Connectors	R88L-EC-FW-0303-APLC R88L-EC-FW-0306-APLC		
60 mm	Coil without Connectors	R88L-EC-FW-0606-ANPC R88L-EC-FW-0609-ANPC R88L-EC-FW-0612-ANPC	R88L-EC-FM-06192-A R88L-EC-FM-06288-A	
	Coil with Connectors	R88L-EC-FW-0606-APLC R88L-EC-FW-0609-APLC R88L-EC-FW-0612-APLC		
110 mm	Coil without Connectors	R88L-EC-FW-1112-ANPC R88L-EC-FW-1115-ANPC	R88L-EC-FM-11192-A R88L-EC-FM-11288-A	
	Coil with Connectors	R88L-EC-FW-1112-APLC 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 R88L-EC-GW-0306-ANPS R88L-EC-GW-0309-ANPS	R88L-EC-GM-03090-A R88L-EC-GM-03120-A R88L-EC-GM-03390-A	R88L-EC-GH-03NN-A
	Coil with Connectors	R88L-EC-GW-0303-APLS R88L-EC-GW-0306-APLS R88L-EC-GW-0309-APLS		
50 mm	Coil without Connectors	R88L-EC-GW-0503-ANPS R88L-EC-GW-0506-ANPS R88L-EC-GW-0509-ANPS	R88L-EC-GM-05126-A R88L-EC-GM-05168-A R88L-EC-GM-05210-A R88L-EC-GM-05546-A	R88L-EC-GH-05NN-A
	Coil with Connectors	R88L-EC-GW-0503-APLS R88L-EC-GW-0506-APLS R88L-EC-GW-0509-APLS		
70 mm	Coil without Connectors	R88L-EC-GW-0703-ANPS R88L-EC-GW-0706-ANPS R88L-EC-GW-0709-ANPS	R88L-EC-GM-07114-A R88L-EC-GM-07171-A R88L-EC-GM-07456-A	R88L-EC-GH-07NN-A
	Coil with Connectors	R88L-EC-GW-0703-APLS R88L-EC-GW-0706-APLS R88L-EC-GW-0709-APLS		

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 (200 V)	1/5	R88G-HPG20A05750B
	1/11	R88G-HPG20A11750B
	1/21	R88G-HPG32A21750B
	1/33	R88G-HPG32A33750B
	1/45	R88G-HPG32A45750B
750W (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
	1/45	R88G-HPG50A451K5B
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
	1/45	R88G-HPG50A451K0SB
2 kW	1/5	R88G-HPG32A053K0B
	1/11	R88G-HPG32A112K0SB
	1/21	R88G-HPG50A213K0B
	1/33	R88G-HPG50A332K0SB
	1/45	R88G-HPG50A451K0SB
3 kW	1/5	R88G-HPG32A054K0B
	1/11	R88G-HPG50A115K0B
	1/21	R88G-HPG50A213K0SB
	1/25	R88G-HPG65A253K0SB
	1/45	R88G-HPG50A055K0SB
4 kW	1/5	R88G-HPG50A115K0SB
	1/20	R88G-HPG65A205K0SB
	1/25	R88G-HPG65A255K0SB
	1/5	R88G-HPG50A055K0SB
	1/11	R88G-HPG50A115K0SB
5 kW	1/5	R88G-HPG50A055K0SB
	1/11	R88G-HPG50A115K0SB
	1/20	R88G-HPG65A205K0SB
	1/25	R88G-HPG65A255K0SB
	1/45	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 3,000-r/min Servomotors of 50 to 750 W for	3 m	R88A-CAGA003S	Note: 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 3,000-r/min Servomotors of 50 to 750 W	3 m	R88A-CAKA003S	Note: 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	
[200 V] Standard & Eco Cylinder Type 3,000-r/min Servomotors of 1 to 2 kW 2,000-r/min Servomotors of 1 to 2 kW 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 3,000-r/min Servomotors of 750 W to 2 kW 2,000-r/min Servomotors of 400 W to 2 kW 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 3,000-r/min Servomotors of 3 to 5 kW 2,000-r/min Servomotors of 3 to 5 kW 1,000-r/min Servomotors of 2 to 4.5 Kw [200 V] Eco Cylinder Type 3,000-r/min Servomotors of 3 to 5 kW 2,000-r/min Servomotors of 3 to 5 kW 1,000-r/min Servomotors of 2 to 3 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
	3 m	R88A-CAGE003S	Note: 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	
[200 V and 400 V] Standard Cylinder Type 1,500-r/min Servomotors of 7.5 kW 1,000-r/min Servomotors of 6 kW	50 m	R88A-CAGE050S	
	3 m	R88A-CAKG003S-AP	Note: 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-KETM servomotors and R88D-KPTMH servodrive.

Brake Cable

Specifications		Model
[200 V] Eco Cylinder Type 3,000-r/min 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 3,000-r/min 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 1,500-r/min Servomotors of 7.5 to 15 kW 1,500-r/min Servomotors of 6 kW	50 m	R88A-CAKA050B
	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 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 3,000-r/min Servomotors of 1 to 5kW 2,000-r/min Servomotors 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 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 3,000-r/min Servomotors of 1.0kW and above 2,000-r/min Servomotors 1,500-r/min Servomotors 1,000-r/min Servomotors [400 V] Standard Cylinder Type 3,000-r/min Servomotors 2,000-r/min Servomotors 1,500-r/min Servomotors 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 3,000-r/min Servomotors of 50 to 750 W for	3 m	R88A-CAGA003SR (-E)	Note: 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 3,000-r/min Servomotors of 50 to 750 W	3 m	R88A-CAKA003SR (-E)	Note: 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 3,000-r/min Servomotors of 1 to 2 kW 2,000-r/min Servomotors of 1 to 2 kW 1,000-r/min Servomotors of 900 W	50 m	R88A-CAKA050SR (-E)	
	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)
[400 V] Standard Cylinder Type 3,000-r/min Servomotors of 750 W to 2 kW 2,000-r/min Servomotors of 400 W to 2 kW 1,000-r/min Servomotors of 900 W	40 m *3	R88A-CAGB040SR (-E)	R88A-CAGB040BR (-E)
	50 m *3	R88A-CAGB050SR (-E)	R88A-CAGB050BR (-E)
	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)
[200 V and 400 V] Standard Cylinder Type 3,000-r/min Servomotors of 3 to 5 kW 2,000-r/min Servomotors of 3 to 5 kW 1,000-r/min Servomotors of 2 to 4.5 Kw	30 m	R88A-CAGB030SR (-E)	R88A-CAKF030BR (-E)
	40 m	R88A-CAGB040SR (-E)	R88A-CAKF040BR (-E)
	50 m	R88A-CAGB050SR (-E)	R88A-CAKF050BR (-E)
	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)
[200 V] Eco Cylinder Type 3,000-r/min Servomotors of 3 to 5 kW 2,000-r/min Servomotors of 3 to 5 kW 1,000-r/min Servomotors of 2 to 3 kW	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)
	3 m	R88A-CAGE003SR (-E)	Note: 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-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 1,500-r/min Servomotors of 7.5 kW 1,000-r/min Servomotors of 6 kW	50 m	R88A-CAGD050SR	
	3 m	R88A-CAKG003SR-E	Note: 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-KETM servomotors and R88D-KPTMH servodrive.
4. Cables Models Ending with "-E" are with Right-Angle connector on Servomotor Side.

Brake Cable

Specifications		Model
[200 V] Eco Cylinder Type 3,000-r/min 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)
[100 V/200 V] Standard Cylinder Type 3,000-r/min 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)
[200 V/400 V] Standard Cylinder Type 1,500-r/min Servomotors of 7.5 to 15 kW 1,500-r/min Servomotors of 6 kW	50 m	R88A-CAKA050BR (-E)
	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
[200 V] Eco Cylinder Type 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)
[200 V] Eco Cylinder Type 3,000-r/min Servomotors of 1 to 5kW 2,000-r/min Servomotors 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)
[100 V/200 V] Standard Cylinder Type 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)
[200 V] Standard Cylinder Type 3,000-r/min Servomotors of 1.0kW and above 2,000-r/min Servomotors 1,500-r/min Servomotors 1,000-r/min Servomotors [400 V] Standard Cylinder Type 3,000-r/min Servomotors 2,000-r/min Servomotors 1,500-r/min Servomotors 1,000-r/min Servomotors	50 m	R88A-CRKA050CR (-E)
	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
			5 m
External encoder cable (CN4)		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 [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 [200VAC] 100W-1.5kW	CNB	R88A-CNB01G-AP
	[400VAC] 600W-1.5kW	CNB	R88A-CNB01K-AP
	[200VAC] 2.0kW [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 [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 [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

www.nicsanat.com
021-87700210



■ 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	XW2Z-100J-B24
			Length 2.0 m	XW2Z-200J-B24
	MECHATROLINK-II Communications EtherCAT Communications		Length 1.0 m	XW2Z-100J-B34
			Length 2.0 m	XW2Z-200J-B34
Connector Terminal Block Conversion Unit	General-purpose/ Pulse Train input	Conversion Unit for General-purpose Controllers (M3 screws)	Through type	XW2B-50G4
		Conversion Unit for General-purpose Controllers (M3.5 screws)	Through type	XW2B-50G5
		Conversion Unit for General-purpose Controllers (M3 screws)	Slim type	XW2D-50G6
	MECHATRO LINK-II Communicati ons EtherCAT Communicati ons	Conversion Unit for General-purpose Controllers (M3 screws)	Through type	XW2B-20G4
		Conversion Unit for General-purpose Controllers (M3.5 screws)	Through type	XW2B-20G5
		Conversion Unit for General-purpose Controllers (M3 screws)	Slim type	XW2D-20G6

● General-purpose/Pulse Train Inputs

Connection Cables (for CN1)

Specifications		The number of axes	Length	Model
Name	Unit			
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
			1 m	XW2Z-100J-G5
		for 2 axis	3 m	XW2Z-300J-G5
			1 m	R88A-CPG001M1
			2 m	R88A-CPG002M1
Control Cables for Motion Control Unit *1	CS1W-MC221 (-V1) CS1W-MC421 (-V1)	for 1 axis	3 m	R88A-CPG003M1
			5 m	R88A-CPG005M1
			1 m	R88A-CPG001M2
			2 m	R88A-CPG002M2
		for 2 axis	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	XW2Z-C50X
			Length 1.0 m	XW2Z-100X
			Length 2.0 m	XW2Z-200X
			Length 3.0 m	XW2Z-300X
			Length 5.0 m	XW2Z-500X
			Length 10.0 m	XW2Z-010X
	Connector Terminal Block Conversion Unit	20 pin M2.4 screw Terminal Block type	Through type	XW2B-20G4
		20 pin M3.5 screw Terminal Block type	Through type	XW2B-20G5
		20 pin M3 screw Terminal Block type	Slim type	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: For CJ1W-NC113/NC133 For CS1W-NC113/NC133 For C200HW-NC113	for 1 axis	XW2B-20J6-1B
Position Control Unit: For CJ1W-NC213/NC233/NC413/NC433 For CS1W-NC213/NC233/NC413/NC433 For C200HW-NC213/NC413	for 2 axis	XW2B-40J6-2B
For CJ2M-CPU31/CPU32/CPU33/CPU34/CPU35 For CJ2M-CPU11/CPU12/CPU13/CPU14/CPU15	for 1 axis	XW2B-20J6-8A
	for 2 axis	XW2B-40J6-9A
For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	for 2 axis	XW2B-80J7-12A

Servo Relay Unit cable (for Servo Drive/CN1)

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

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 For CJ1W-NC133 (XW2B-20J6-1B)	for 1 axis	0.5 m	XW2Z-050J-A18
		1 m	XW2Z-100J-A18
CJ1W line-driver output type For CJ1W-NC233/NC433 (XW2B-40J6-2B)	for 2 axis	0.5 m	XW2Z-050J-A19
		1 m	XW2Z-100J-A19
CS1W line-driver output type For CS1W-NC133 (XW2B-20J6-1B)	for 1 axis	0.5 m	XW2Z-050J-A10
		1 m	XW2Z-100J-A10
CS1W line-driver output type For CS1W-NC233/NC433 (XW2B-40J6-2B)	for 2 axis	0.5 m	XW2Z-050J-A11
		1 m	XW2Z-100J-A11
CJ1W open collector output type For CJ1W-NC113 (XW2B-20J6-1B)	for 1 axis	0.5 m	XW2Z-050J-A14
		1 m	XW2Z-100J-A14
CJ1W open collector output type For CJ1W-NC213/NC413 (XW2B-40J6-2B)	for 2 axis	0.5 m	XW2Z-050J-A15
		1 m	XW2Z-100J-A15
CS1W/C200HW open collector output type For CS1W-NC113 For C200HW-NC113 (XW2B-20J6-1B)	for 1 axis	0.5 m	XW2Z-050J-A6
		1 m	XW2Z-100J-A6
CS1W/C200HW open collector output type For CS1W-NC213/NC413 For C200HW-NC213/NC413 (XW2B-40J6-2B)	for 2 axis	0.5 m	XW2Z-050J-A7
		1 m	XW2Z-100J-A7
CJ1M open collector output type For CJ2M-CPU31/CPU32/CPU33/CPU34/CPU35 For CJ2M-CPU11/CPU12/CPU13/CPU14/CPU15 (XW2B-20J6-8A, XW2B-40J6-9A)	for 1 axis	0.5 m	XW2Z-050J-A33
		1 m	XW2Z-100J-A33
For FQM1-MMA22 (Analog output) (XW2B-80J7-12A)	for 2 axis	0.5 m	XW2Z-050J-A28
		1 m	XW2Z-100J-A28
		2 m	XW2Z-200J-A28
	for 2 axis	0.5 m	XW2Z-050J-A31
		1 m	XW2Z-100J-A31
		2 m	XW2Z-200J-A31
For FQM1-MMP22 (Pulse train output) (XW2B-80J7-12A)	for 2 axis	0.5 m	XW2Z-050J-A28
		1 m	XW2Z-100J-A28
		2 m	XW2Z-200J-A28
	for 2 axis	0.5 m	XW2Z-050J-A30
		1 m	XW2Z-100J-A30
		2 m	XW2Z-200J-A30

www.nicsanat.com
021-87700210



■ Communication Cables

● MECHATROLINK-II Communications

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

Name	Length	Model (OMRON model number)	Yaskawa model number
MECHATROLINK-II Cables (without ring core and USB connector on both ends) * 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 (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.

Cable 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
Cable with Connectors on Both Ends (M12/RJ45)		OMRON	10	XS5W-T421-JMD-K
			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.	0.5 x 4P
	—	Kuramo Electric Co.	KETH-SB *
RJ45 Connectors	—	SWCC Showa Cable Systems Co.	FAE-5004 *
	—	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 (For single-phase input)	R88D-KNA5L-ML2/-KN01H-ML2 (For single-phase input)	R88D-KNA5L-ECT/-KN01H-ECT (For single-phase input)	R88D-KN01H-ECT-L (For single-phase input)	3G3AX-DL2002
R88D-KT01L/-K□02H (For single-phase input)	R88D-KN01L-ML2/-KN02H-ML2 (For single-phase input)	R88D-KN01L-ECT/-KN02H-ECT (For single-phase input)	R88D-KN01L-ECT-L/-KN02H-ECT-L (For single-phase input)	3G3AX-DL2004
R88D-KT02L/-K□04H (For single-phase input)	R88D-KN02L-ML2/-KN04H-ML2 (For single-phase input)	R88D-KN02L-ECT/-KN04H-ECT (For single-phase input)	R88D-KN02L-ECT-L/-KN04H-ECT-L (For single-phase input)	3G3AX-DL2007
R88D-KT04L/-K□08H/ -K□10H (For single-phase input)	R88D-KN04L-ML2/-KN08H-ML2/ -KN10H-ML2 (For single-phase input)	R88D-KN04L-ECT/-KN08H-ECT/ -KN10H-ECT (For single-phase input)	R88D-KN04L-ECT-L/-KN08H-ECT-L/ -KN10H-ECT-L (For single-phase input)	3G3AX-DL2015
R88D-K□15H (For single-phase input)	R88D-KN15H-ML2 (For single-phase input)	R88D-KN15H-ECT (For single-phase input)	R88D-KN15H-ECT-L (For single-phase input)	3G3AX-DL2022
R88D-K□01H/-K□02H/ -K□04H/-K□08H/ -K□10H/-K□15H (For three-phase input)	R88D-KN01H-ML2/-KN02H-ML2/ -KN04H-ML2/-KN08H-ML2/ -KN10H-ML2/-KN15H-ML2 (For three-phase input)	R88D-KN01H-ECT/-KN02H-ECT/ -KN04H-ECT/-KN08H-ECT/ -KN10H-ECT/-KN15H-ECT (For three-phase input)	R88D-KN01H-ECT-L/-KN02H-ECT-L/ -KN04H-ECT-L/-KN08H-ECT-L/ -KN10H-ECT-L/-KN15H-ECT-L (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/ -KN15F-ML2	R88D-KN06F-ECT/-KN10F-ECT/ -KN15F-ECT	R88D-KN06F-ECT-L/-KN10F-ECT-L/ -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/ -K□01H/-K□02H	R88D-KNA5L-ML2/-KN01L-ML2/ -KN01H-ML2/-KN02H-ML2	R88D-KNA5L-ECT/-KN01L-ECT/ -KN01H-ECT/-KN02H-ECT	R88D-KN01L-ECT-L/-KN01H-ECT-L/ -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/ -KT06F/-KT10F/-KT15F	R88D-KN10H-ML2/-KN15H-ML2/ -KN06F-ML2/-KN10F-ML2/ -KN15F-ML2	R88D-KN10H-ECT/-KN15H-ECT/ -KN06F-ECT/-KN10F-ECT/ -KN15F-ECT	R88D-KN10H-ECT-L/-KN15H-ECT-L/ -KN06F-ECT-L/-KN10F-ECT-L/ -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 - EtherCAT Communications (Unit version 2.1 or later recommended) - EtherCAT Communications Linear Motor	G5-series - EtherCAT Communications - EtherCAT Communications Linear Motor - General-purpose input type(PulseTrain or Analog inputs) - MECHATROLINK-II Communications
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	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. Sysmac Studio runs on the following OS. Windows XP (Service Pack 3 or higher, 32-bit version)/ Vista (32-bit version) / 7 (32-bit/64-bit version)	— (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). For details, refer to the Sysmac Integrated Catalogue (P072).	1 license *	—	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	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. CX-One runs on following OS. OS: Windows XP (Service Pack 3 or higher), Vista or 7 Note: Except for Windows XP 64-bit version. CX-One Version.4.□ includes CX-Drive Ver.2.□.	1 license *1	DVD *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 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/ three-phase 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 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 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-□
Three-phase 400 to 480 VAC	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/ three-phase 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 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 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-□
Three-phase 400 to 480 VAC	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/ three-phase 200 to 240 VAC	R88D-KT15H *	R88D-KN15H-ML2 *	R88D-KN15H-ECT *	900 W	R88M-K90010H-□ *	R88M-K90010T-□ *
Three-phase 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 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 (1/9 for flange size No.11)	1/21	1/33	1/45
R88M-K05030□	R88G-HPG11B05100B□ (Also used with R88M-K10030□)	R88G-HPG11B09050B□ (Gear ratio 1/9)	R88G-HPG14A21100B□ (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 (200 V)	R88G-HPG20A05750B□	R88G-HPG20A11750B□	R88G-HPG32A21750B□	R88G-HPG32A33750B□	R88G-HPG32A45750B□
R88M-K75030F/C (400 V)	R88G-HPG32A052K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A211K5B□ (Also used with R88M-K1K5030□)	R88G-HPG32A33600SB□ (Also used with R88M-K60020□)	R88G-HPG50A451K5B□ (Also used with R88M-K1K530□)
R88M-K1K030□	R88G-HPG32A052K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A211K5B□ (Also used with R88M-K1K5030□)	R88G-HPG50A332K0B□ (Also used with R88M-K2K030□)	R88G-HPG50A451K5B□ (Also used with R88M-K1K530□)
R88M-K1K530□	R88G-HPG32A052K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A211K5B□	R88G-HPG50A332K0B□ (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□ (Also used with R88M-K5K030□)	—	—	—
R88M-K5K030□	R88G-HPG50A055K0B□	R88G-HPG50A115K0B□	—	—	—

● 2,000-r/min servomotors

Motor model	1/5	1/11	1/21 (1/20 for flange size No.65)	1/33 (1/25 for flange size No.65)	1/45
R88M-K40020□ (Only 400 V)	R88G-HPG32A052K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A211K5B□ (Also used with R88M-K1K5030□)	R88G-HPG32A33600SB□ (Also used with R88M-K60020□)	R88G-HPG32A45400SB□
R88M-K60020□ (Only 400 V)	R88G-HPG32A052K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-K2K030□)	R88G-HPG32A211K5B□ (Also used with R88M-K1K5030□)	R88G-HPG32A33600SB□	R88G-HPG50A451K5B□ (R88M-K1K530□)
R88M-K1K020□	R88G-HPG32A053K0B□ (Also used with R88M-K3K030□)	R88G-HPG32A112K0SB□ (Also used with R88M-K2K020□)	R88G-HPG32A211K0SB□	R88G-HPG50A332K0SB□ (Also used with R88M-K2K020□)	R88G-HPG50A451K0SB□
R88M-K1K520□	R88G-HPG32A053K0B□ (Also used with R88M-K3K030□)	R88G-HPG32A112K0SB□ (Also used with R88M-K2K020□)	R88G-HPG50A213K0B□ (Also used with R88M-K3K030□)	R88G-HPG50A332K0SB□ (Also used with R88M-K2K020□)	—
R88M-K2K020□	R88G-HPG32A053K0B□ (Also used with R88M-K3K030□)	R88G-HPG32A112K0SB□	R88G-HPG50A213K0B□ (Also used with R88M-K3K030□)	R88G-HPG50A332K0SB□	—
R88M-K3K020□	R88G-HPG32A054K0B□ (Also used with R88M-K4K030□)	R88G-HPG50A115K0B□ (Also used with R88M-K5K030□)	R88G-HPG50A213K0SB□	R88G-HPG65A253K0SB□	—
R88M-K4K020□	R88G-HPG50A055K0SB□ (Also used with R88M-K5K020□)	R88G-HPG50A115K0SB□ (Also used with R88M-K3K030□)	R88G-HPG65A205K0SB□ (Also used with R88M-K3K030□)	R88G-HPG65A255K0SB□ (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 (1/20 for flange size No.65)	1/33 (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□ (Also used with R88M-K5K020□)	R88G-HPG65A255K0SB□ (Also used with R88M-K5K020□)
R88M-K3K010□	R88G-HPG50A055K0SB□ (Also used with R88M-K5K020□)	R88G-HPG50A115K0SB□ (Also used with R88M-K5K020□)	R88G-HPG65A205K0SB□ (Also used with R88M-K5K020□)	R88G-HPG65A255K0SB□ (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 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 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 200VAC	R88D-KP10H	1 kW	R88M-KE1K020H-□
	R88D-KP15H	1.5 kW	R88M-KE1K520H-□
Three-phase 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 200VAC	R88D-KP15H *	900 W *	R88M-KE90010H-□ *
Three-phase 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 (1/9 for flange size No.11)	1/21	1/33	1/45
R88M-KE05030□	R88G-HPG11B05100B□ (Also used with R88M-KE10030□)	R88G-HPG11B09050B□ (Gear ratio 1/9)	R88G-HPG14A21100B□ (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□ (Also used with R88M-KE2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-KE2K030□)	R88G-HPG32A211K5B□ (Also used with R88M-KE1K5030□)	R88G-HPG50A332K0B□ (Also used with R88M-KE2K030□)	R88G-HPG50A451K5B□ (Also used with R88M-KE1K530□)
R88M-KE1K530□	R88G-HPG32A052K0B□ (Also used with R88M-KE2K030□)	R88G-HPG32A112K0B□ (Also used with R88M-KE2K030□)	R88G-HPG32A211K5B□	R88G-HPG50A332K0B□ (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□ (Also used with R88M-KE5K030□)	—	—	—
R88M-KE5K030□	R88G-HPG50A055K0B□	R88G-HPG50A115K0B□	—	—	—

● 2,000-r/min servomotors

Motor model	1/5	1/11	1/21 (1/20 for flange size No.65)	1/33 (1/25 for flange size No.65)	1/45
R88M-KE1K020□	R88G-HPG32A053K0B□ (Also used with R88M-KE3K030□)	R88G-HPG32A112K0SB□ (Also used with R88M-KE2K020□)	R88G-HPG32A211K0SB□	R88G-HPG50A332K0SB□ (Also used with R88M-KE2K020□)	R88G-HPG50A451K0SB□
R88M-KE1K520□	R88G-HPG32A053K0B□ (Also used with R88M-KE3K030□)	R88G-HPG32A112K0SB□ (Also used with R88M-KE2K020□)	R88G-HPG50A213K0B□ (Also used with R88M-KE3K030□)	R88G-HPG50A332K0SB□ (Also used with R88M-KE2K020□)	—
R88M-KE2K020□	R88G-HPG32A053K0B□ (Also used with R88M-KE3K030□)	R88G-HPG32A112K0SB□	R88G-HPG50A213K0B□ (Also used with R88M-KE3K030□)	R88G-HPG50A332K0SB□	—
R88M-KE3K020□	R88G-HPG32A054K0B□ (Also used with R88M-KE4K030□)	R88G-HPG50A115K0B□ (Also used with R88M-KE5K030□)	R88G-HPG50A213K0SB□	R88G-HPG65A253K0SB□	—
R88M-KE4K020□	R88GHPG50A055K0SB□ (Also used with R88M-KE5K020□)	R88G-HPG50A115K0SB□ (Also used with R88M-KE3K030□)	R88G-HPG65A205K0SB□ (Also used with R88M-KE3K030□)	R88G-HPG65A255K0SB□ (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 (1/20 for flange size No.65)	1/33 (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□ (Also used with R88M-KE5K020□)	R88G-HPG65A255K0SB□ (Also used with R88M-KE5K020□)
R88M-KE3K010□	R88G-HPG50A055K0SB□ (Also used with R88M-KE5K020□)	R88G-HPG50A115K0SB□ (Also used with R88M-KE5K020□)	R88G-HPG65A205K0SB□ (Also used with R88M-KE5K020□)	R88G-HPG65A255K0SB□ (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 CJ2M-CPU32 CJ2M-CPU33 CJ2M-CPU34 CJ2M-CPU35 CJ2M-CPU11 CJ2M-CPU12 CJ2M-CPU13 CJ2M-CPU14 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

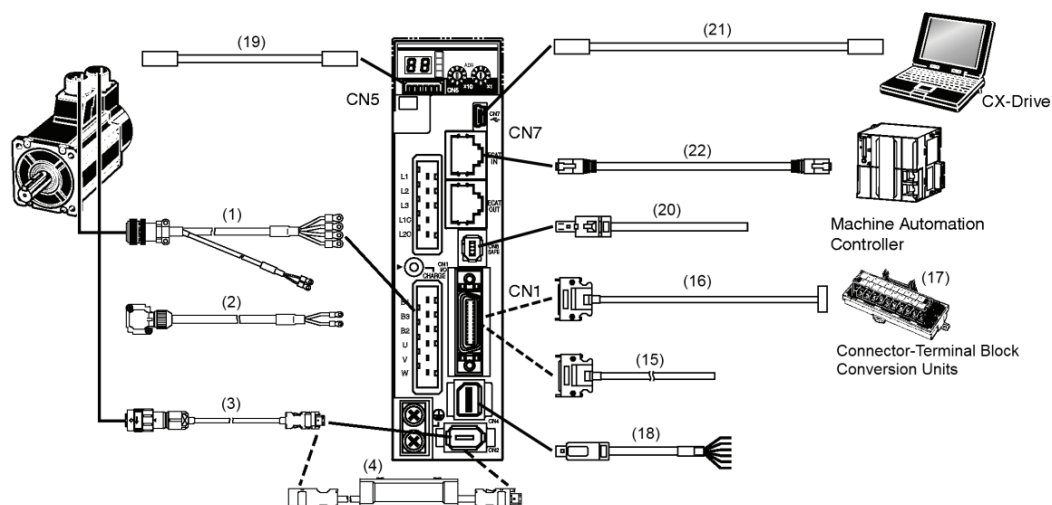
● Motion Control Unit Cables

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.

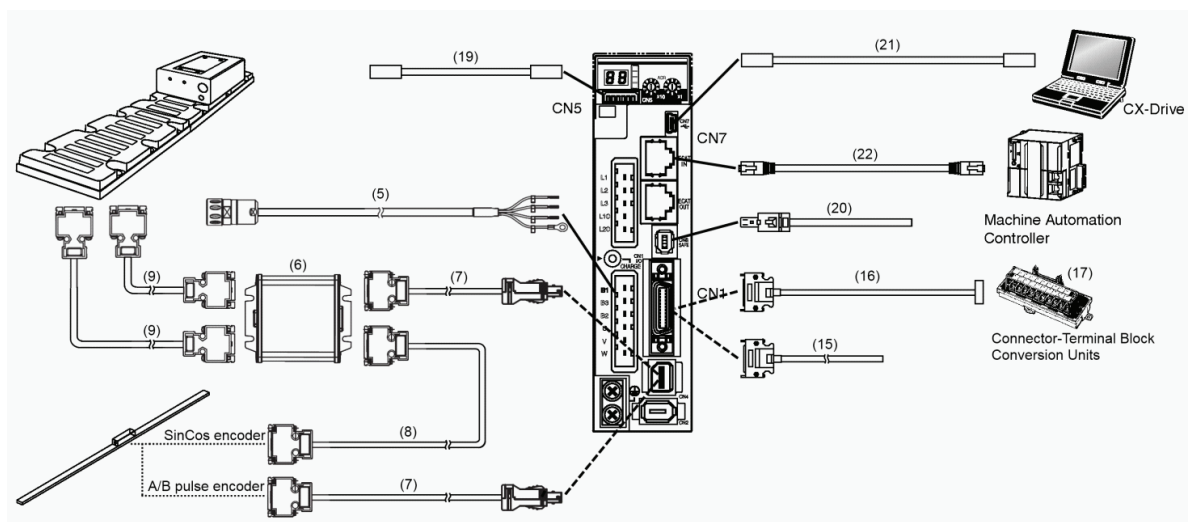
Motion Control Unit	Cable		Remarks
CS1W-MC221-V1 CS1W-MC421-V1	For 1 axis	R88A-CPG□□□M1	The □□□ digits in the model number indicate the cable length. Motion Control Unit Cables come in four lengths: 1 m, 2 m, 3 m, and 5 m. Example model number for 2-m 1-axis cable: R88A-CPG002M1
	For 2 axis	R88A-CPG□□□M2	

Accessories and Cables

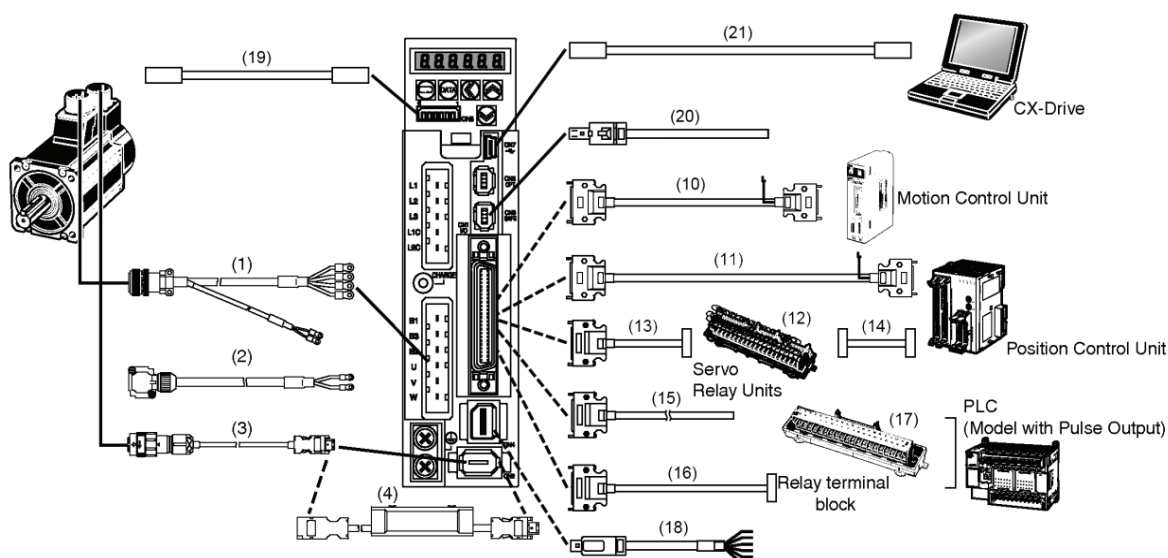
● EtherCAT Communications



● EtherCAT Communications Linear Motor Type

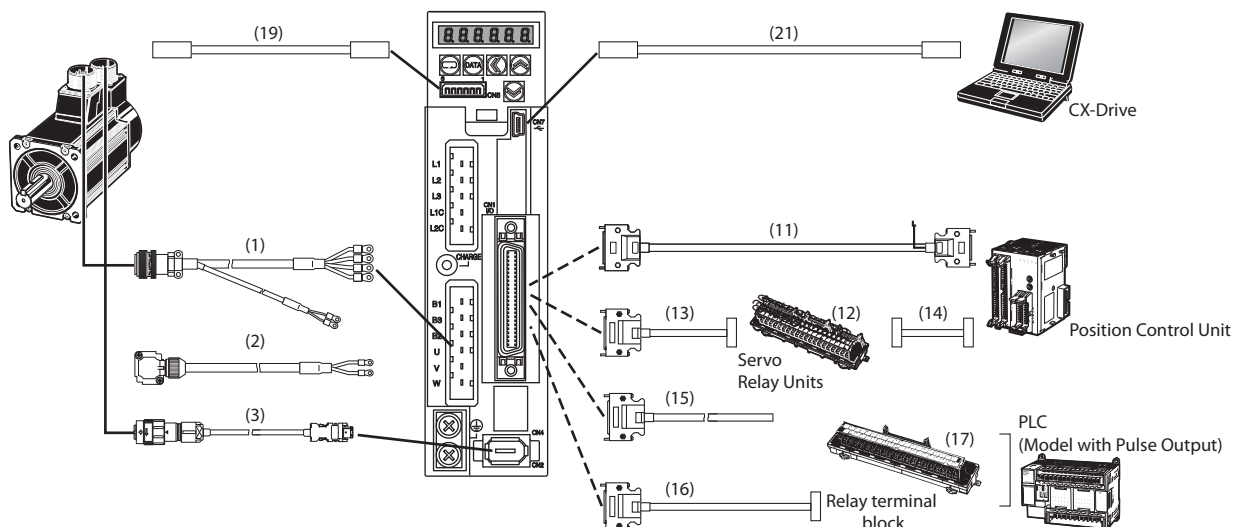


● General-purpose Input

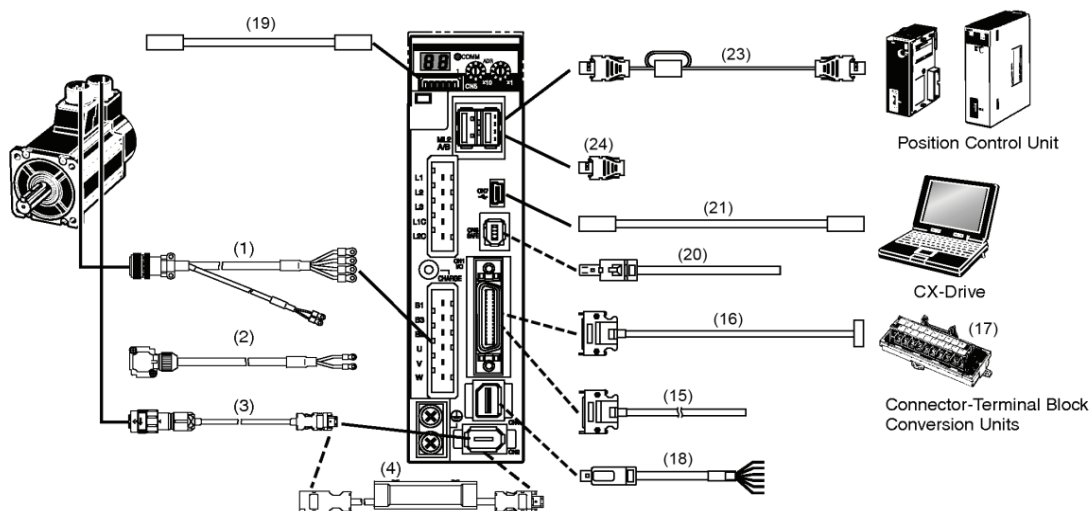


Accessories and Cables

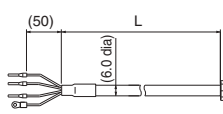
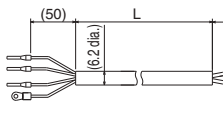
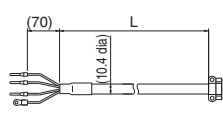
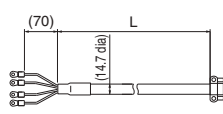
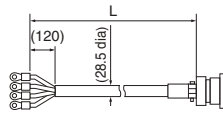
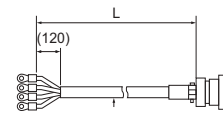
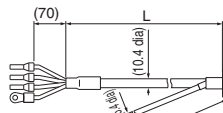
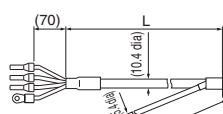
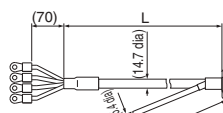
● Pulse Train Input



● MECHATROLINK-II Communications



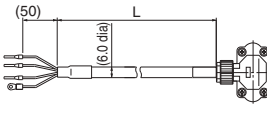
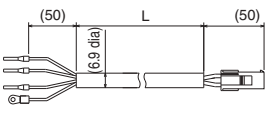
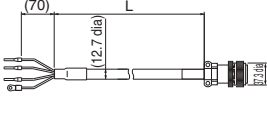
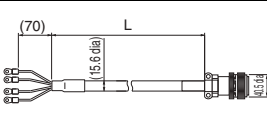
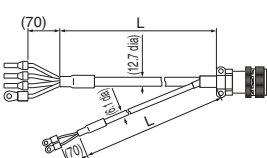
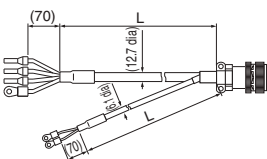
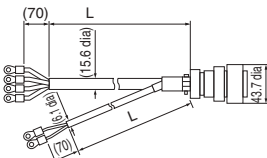
Servomotor Power Cables (For CNB)

Symbol		Applicable Motor Type	Connected to	Model	Description	
(1)	Non-flexible Cables	Without Brakes	Standard Cylinder	[100 V] [200 V] 3,000 r/min, 50 to 750 W	R88A-CAKA□□□S 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] Angle plug: JN8FT04SJ1 (Japan Aviation Electronics Industry, Ltd.) Contact pins: ST-TMH-S-C1B-3500-A534G (Japan Aviation Electronics Industry, Ltd.)
			Eco Cylinder	[200 V] 3,000 r/min, 50 to 750 W	R88A-CAGA□□□S 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] Connector: 172159-1 (Tyco Electronics AMP KK) Connector pins: 170362-1 (Tyco Electronics AMP KK) 170366-1 (Tyco Electronics AMP KK)
			Standard & Eco Cylinder	[200 V] 3,000 r/min, 1 to 2 kW 2,000 r/min, 1 to 2 kW 1,000 r/min, 900 W	R88A-CAGB□□□S 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] Straight plug: N/MS3106B20-4S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
				[400 V] 3,000 r/min, 750 W to 2 kW 2,000 r/min, 400 W to 2 kW 1,000 r/min, 900 W		
			Standard & Eco Cylinder	[200 V] [400 V] 3,000 r/min, 3 to 5 kW 2,000 r/min, 3 to 5 kW 1,000 r/min, 2 to 4.5 kW	R88A-CAGD□□□S 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] Straight plug: N/MS3106B22-22S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
			Standard Cylinder	[200 V] [400 V] 1,500 r/min, 7.5 kW 1,000 r/min, 6 kW	R88A-CAGE□□□S 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] Straight plug: N/MS3106B32-17S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-20A (Japan Aviation Electronics Industry, Ltd.)
	Standard Cylinder	[200 V] [400 V] 1,500 r/min, 11.0 to 15.0 kW	R88A-CAKG□□□S-AP 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] Straight plug: N/MS3106B32-17S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-20A (Japan Aviation Electronics Industry, Ltd.)		
	With Brakes	Note: 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.				
		Standard & Eco Cylinder	[200 V] 3,000 r/min, 1 to 2 kW 2,000 r/min, 1 to 2 kW 1,000 r/min, 900 W	R88A-CAGB□□□B 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] Straight plug: N/MS3106B20-18S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)	
		Standard Cylinder	[400 V] 3,000 r/min, 750W to 2 kW 2,000 r/min, 400 W to 2 kW 1,000 r/min, 900 W	R88A-CAKF□□□B 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] Straight plug: N/MS3106B24-11S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-16A (Japan Aviation Electronics Industry, Ltd.)	
Standard & Eco Cylinder		[200 V] [400 V] 3,000 r/min, 3 to 5 kW 2,000 r/min, 3 to 5 kW 1,000 r/min, 2 to 3 kW	R88A-CAGD□□□B 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] Straight plug: N/MS3106B24-11S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-16A (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)

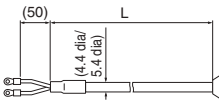
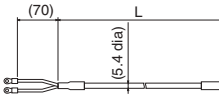
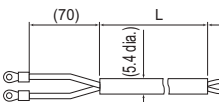
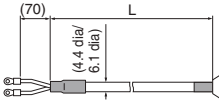
Symbol		Applicable Motor Type	Connected to	Model	Description
(1)	Flexible Cables	Without Brakes	Standard Cylinder	R88A-CAKA□□□SR The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, 20, 30, 40, or 50 m long.	 [Servomotor Connector] Angle plug: JN8FT04SJ1 (Japan Aviation Electronics Industry, Ltd.) Connector pins: ST-TMH-S-C1B-3500-A534G (Japan Aviation Electronics Industry, Ltd.)
			Eco Cylinder	R88A-CAGA□□□SR 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] Connector: 172159-1 (Tyco Electronics AMP KK) Connector pins: 170362-1 (Tyco Electronics AMP KK) 170366-1 (Tyco Electronics AMP KK)
			Standard & Eco Cylinder	R88A-CAGB□□□SR 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] Straight plug: N/MS3106B20-4S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
			Standard & Eco Cylinder	R88A-CAGD□□□SR 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] Straight plug: N/MS3106B22-22S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
		Note: 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	R88A-CAGB□□□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] Straight plug: N/MS3106B20-18S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
			Standard Cylinder	R88A-CAKF□□□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] Straight plug: N/MS3106B24-11S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-16A (Japan Aviation Electronics Industry, Ltd.)
			Standard & Eco Cylinder	R88A-CAGD□□□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] Straight plug: N/MS3106B24-11S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-16A (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)

www.nicsanat.com
021-87700210

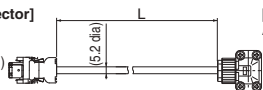
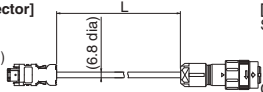
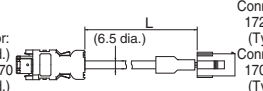
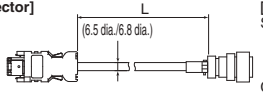


Brake Cables

Symbol	Applicable Motor Type	Connected to	Model	Description
(2)	Non-flexible Cables	Standard Cylinder	R88A-CAKA□□□B 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. (3 to 20 m: 4.4 dia 30 to 50 m: 5.4 dia)	 [Servomotor Connector] Angle plug: JN4FT02SJ1-R (Japan Aviation Electronics Industry, Ltd.) Connector pins: ST-TMH-S-C1B-3500-(A534G) (Japan Aviation Electronics Industry, Ltd.)
			R88A-CAGE□□□B 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. (5.4 dia)	 [Servomotor Connector] Angle plug: N/MS3106B14S-2S (Japan Aviation Electronics Industry, Ltd.) Connector pins: N/MS3057-6A (Japan Aviation Electronics Industry, Ltd.)
	Flexible Cables	Eco Cylinder	R88A-CAGA□□□B 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] Connector: 172157-1 (Tyco Electronics AMP KK) Connector pins: 170362-1 (Tyco Electronics AMP KK) 170366-1 (Tyco Electronics AMP KK)
			R88A-CAKA□□□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. (3 to 20 m: 4.4 dia 30 to 50 m: 6.1 dia)	 [Servomotor Connector] Angle plug: JN4FT02SJ1-R (Japan Aviation Electronics Industry, Ltd.) Connector pins: ST-TMH-S-C1B-3500-(A534G) (Japan Aviation Electronics Industry, Ltd.)
			R88A-CAGA□□□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] Connector: 172157-1 (Tyco Electronics AMP KK) Connector pins: 170362-1 (Tyco Electronics AMP KK) 170366-1 (Tyco Electronics AMP KK)

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	R88A-CRKA□□□C 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. (3 to 20 m: 5.2 dia 30 to 50 m: 6.8 dia)	 [Servo Drive Connector] Connector: 55100-0670 (Molex Japan Co., Ltd.) [Servomotor Connector] Angle clamp: JN6FR07SM1 (Japan Aviation Electronics Industry, Ltd.) Connector pins: LY10-C1-A1-10000 (Japan Aviation Electronics Industry, Ltd.)
			R88A-CRKC□□□N 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.	 [Servo Drive Connector] Connector: 55100-0670 (Molex Japan Co., Ltd.) [Servomotor Connector] Straight plug: JN2DS10SL2-R (Japan Aviation Electronics Industry, Ltd.) Contact: JN1-22-20S-10000 (Japan Aviation Electronics Industry, Ltd.)
	Flexible Cables	Eco Cylinder	R88A-CRGB□□□C 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] Connector: 3 to 20 m: Crimped I/O connector: (Molex Japan Co., Ltd.) 30 to 50 m: 55100-0670 (Molex Japan Co., Ltd.) Connector pins: 50639-8028 (Molex Japan Co., Ltd.) [Servomotor Connector] Connector: 172160 (Tyco Electronics AMP KK) Connector pins: 170365-1 (Tyco Electronics AMP KK) 171639-1 (Tyco Electronics AMP KK)
			R88A-CRGC□□□N 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] Connector: Crimped I/O connector: (Molex Japan Co., Ltd.) 30 to 50 m: 55100-0670 (Molex Japan Co., Ltd.) Connector pins: 50639-8028 (Molex Japan Co., Ltd.) [Servomotor Connector] Straight plug: N/MS3106B20-29S (Japan Aviation Electronics Industry, Ltd.) Cable clamp: N/MS3057-12A (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

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 (Absolute encoder/ Incremental encoder)	R88A-CRKA□□□CR 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. (3 to 20 m: 5.2 dia 30 to 50 m: 6.8 dia)
		3,000 r/min, [200 V] For 1.0 kW and above [400 V] For 750 W and above 2,000 r/min, 1,000 r/min, (Absolute encoder/ Incremental encoder)	R88A-CRKC□□□NR 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. (3 to 20 m: 6.8 dia 30 to 50 m: 7.7 dia)	
	Eco Cylinder	3,000 r/min, 50 to 750 W	R88A-CRGB□□□CR The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 m long. (3 to 20 m: 5.2 dia 30 to 50 m: 6.8 dia)	
		3,000 r/min, 1kW to 5kW 2,000 r/min, 1kW to 5kW 1,000 r/min, 900W to 3kW	R88A-CRGC□□□NR The empty boxes in the model number are for the cable length. The cable can be 3, 5, 10, 15, or 20 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)

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 R88L-EC-FW-0303-□ R88L-EC-FW-0306-□	R88A-CAWK□□□S-DE 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.
		Iron-core Motor Coil R88L-EC-FW-0606-□ R88L-EC-FW-0609-□ R88L-EC-FW-0612-□ R88L-EC-FW-1112-□ R88L-EC-FW-1115-□	R88A-CAWL□□□S-DE 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.
	Ironless Motor Coil R88L-EC-GW-□	R88A-CAWB□□□S-DE 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.	

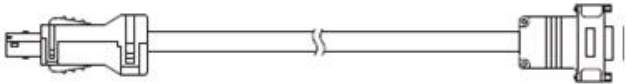
Note: Insert the cable length into the boxess in the model number of cables (1.5 m: 001-5, 3 m: 003, 5 m: 005, 10 m: 010)

Serial Converter Unit

Symbol		Applicable Linear Motor Type	Model	Description
(6)	Flexible Cable	Iron-core Motor Coil 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 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)	Flexible Cable	Iron-core Motor Coil R88L-EC-FW-□ Ironless Motor Coil R88L-EC-GW-□	R88A-CRKN□□□CR-E 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.	Servodrive Connector: MUF-PK10K-X (J.S.T. Mfg. Co., Ltd.)  Serial Converter Unit Connector: DB15

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)	Flexible Cable	Numerik Jena SinCos 1Vp-p linear encoder	R88A-CFKA□□□CR-E 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.	Extension cable for linear encoder to R88A-SC0K-E serial converter unit  Connector: DB-9
		Renishaw SinCos 1Vp-p linear encoder	R88A-CFKC□□□CR-E 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.	
		Heidenhain SinCos 1Vp-p linear encoder	R88A-CFKD□□□CR-E 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)	Flexible Cable	Iron-core Motor Coil R88L-EC-FW-□ Ironless Motor Coil R88L-EC-GW-□	R88A-CFKB□□□CR-E 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.	Extension cable from hall and temperature sensors to R88A-SC0K-E serial  Connector: DB-9

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)	For 1 axis/ For 2 axis	R88A-CPG□□□M◇ 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	Direct connection cable for Position Control Unit (High-speed type)	Line-driver output type (High-speed type) for CJ1W-NC234/434	For 1 axis	XW2Z-□□□J-G9 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	For 2 axis	XW2Z-□□□J-G1 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	For 1 axis	XW2Z-□□□J-G13 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	For 2 axis	XW2Z-□□□J-G5 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: For CJ1W-NC113/NC133 For CS1W-NC113/NC133 (For C200HW-NC113)	For 1 axis	XW2B-20J6-1B		
			Position Control Unit: For CJ1W-NC213/NC233/NC413/NC433 For CS1W-NC213/NC233/NC413/NC433 (For C200HW-NC213/NC413)	For 2 axis	XW2B-40J6-2B		
			For CJ1M-CPU21/CPU22/CPU23	For 1 axis	XW2B-20J6-8A		
				For 2 axis	XW2B-40J6-9A		
			For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	For 2 axis	XW2B-80J7-12A		
(13)	Servo Relay Units/Connection Cables		Servo Relay Unit Cables for Servo Drives	Position Control Unit: For CJ1W-NC□□3, CS1W/C200HW-NC□□□ (XW2B-20J6-1B, XW2B-40J6-2B)	XW2Z-□□□J-B25 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 (XW2B-20J6-8A, XW2B-40J6-9A)	XW2Z-□□□J-B31 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) (XW2B-80J7-12A)	XW2Z-□□□J-B27 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) (XW2B-80J7-12A)	XW2Z-□□□J-B26 The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.		
	(14)	Connection Cables		Servo Relay Unit Cables for Position Control Units	CJ1W line-driver output type for CJ1W-NC133	For 1 axis	XW2Z-□□□J-A18 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	XW2Z-□□□J-A19 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	XW2Z-□□□J-A10 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	XW2Z-□□□J-A11 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	XW2Z-□□□J-A14 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	XW2Z-□□□J-A15 The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.

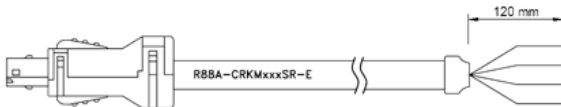
Note: Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

Control Cables (for CN1)

Symbol	Name	Connected to	Model
(14)	Servo Relay Units/Connection Cables	CS1W/C200HW open collector output type for CS1W-NC113 for C200HW-NC113	For 1 axis XW2Z-□□□J-A6 The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.
			For 2 axis XW2Z-□□□J-A7 The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.
			For 1 axis XW2Z-□□□J-A33 The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.
		For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	General-purpose I/O (26 pin) For 2 axis XW2Z-□□□J-A28 The empty boxes in the model number are for the cable length. 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 The empty boxes in the model number are for the cable length. 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 The empty boxes in the model number are for the cable length. The cable can be 0.5, 1, or 2 m long.
		For FQM1HPLB21	For 1 axis XW2Z-□□□J-A3 The empty boxes in the model number are for the cable length. 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 The empty boxes in the model number are for the cable length. The cable can be 1 or 2m long.
		Cables for General-purpose Connection (Network Communication Type)	R88A-CPKB□□□S-AP The empty boxes in the model number are for the cable length. 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 The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.
		Cable for MECHATROLINK-II / EtherCAT Communications	XW2Z-□□□J-B34 The empty boxes in the model number are for the cable length. 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
		Cable for MECHATROLINK-II / EtherCAT Communications	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)

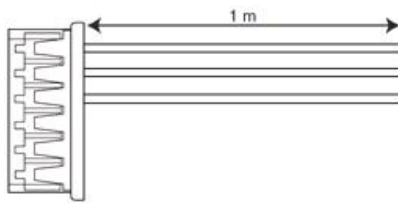
External Encoder Cable (for CN4)

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

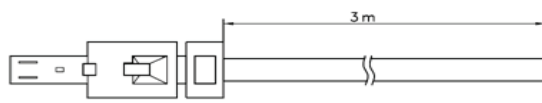
Note: Insert the cable length into the boxess in the model number of cables (5 m: 005, 10 m: 010, 20 m: 020)

AC Servomotor/Drive G5-series

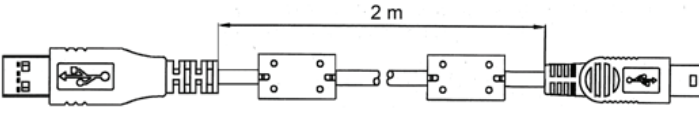
Analog Monitor Cable (for CN5)

Symbol	Name	Model	Description
(19)	Non-Flexible Cable Analog Monitor Cable	R88A-CMK001S	Connector housing: 51004-0600 (Molex Japan) Connector terminal: 50011-8000 (Molex Japan) 

Safety Cable (for CN8)

Symbol	Name	Model	Description
(20)	Non-Flexible Cable Safety Cable	R88A-CSK003S-E R88A-CSK003S-AP	Connector: 2013595-1 (Tyco Electronics) 

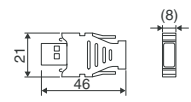
USB Communication Cable (for CN7)

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

EtherCAT Communication Cable

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

MECHATROLINK-II Communication Cable

Symbol	Name	Length (L)	Model (OMRON model number)	Yaskawa model number	Description
(23)	MECHATROLINK-II Communication Cable * 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)
		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)
		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 [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 [200VAC] 100W-1.5kW	R88A-CNB01G-AP
		[400VAC] 600W-1.5kW	R88A-CNB01K-AP
		[200VAC] 2.0kW [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 [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 [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) 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) 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 AC SERVOMOTOR AND SERVO DRIVE USER'S MANUAL
I572	SBCE-358	R88D-KN□-ML2/R88M-K	G5-SERIES MECHATROLINK-II Communications AC SERVOMOTOR AND SERVO DRIVE USER'S MANUAL
I576	SBCE-365	R88D-KN□-ECT/R88M-K	G5-SERIES EtherCAT Communications AC SERVOMOTOR AND SERVO DRIVE USER'S MANUAL
I577	SBCE-366	R88D-KN□-ECT-L/R88L-EC	G5-SERIES EtherCAT Communications Linear Motor Type LINEARMOTOR AND DRIVE USER'S MANUAL
I584	-	R88D-KP/R88M-KE	G5-SERIES Pulse Train Input Type AC SERVOMOTOR 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



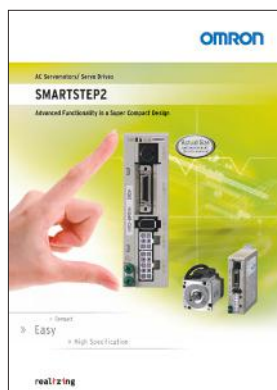
SYSMAC Catalogue
One Machine Control
NJ501 / NJ301

Cat. No. P072



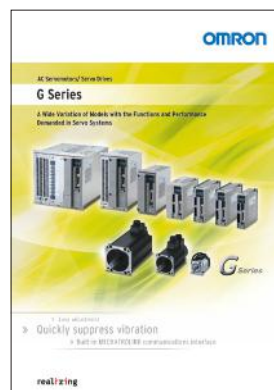
Programmable Controller
SYSMAC CJ Series
Position Control Units (High-Speed type)
CJ1W-NC214/414
CJ1W-NC234/434

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



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



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



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



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



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

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

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

Adelaide Office:
OMRON ELECTRONICS PTY. LTD.
 Suite 12, 18 Humphries Terrace
 Kilkenney, SA 5009
 Australia
 Tel: (61-8) 8440 6412
 Fax: (61-8) 8345 1204
 E-mail: 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



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

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

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



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

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

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

Website: www.omron-ap.com

Authorized Distributor