OMRON

NEW

AC Servomotors/Servo Drives

OMNUC G5 Series

R88D-KT

R88D-KN -ML2 Coming Soon

R88M-K

The Preeminent Servo That Revolutionizes Motion Control



Premium Servo 100V/200V/400V/ 50W~5kW

OMNUC G5

Higher Throughput and Shorter Tact Time, Plus Improved Machine Safety



High Speed and **High Precision**

Fastest speed response frequency in industry at 2 kHz

Safety

Conforms to the latest international safety standards Achieve the fastest position control in the industry by combining the OMNUC G5 with an OMRON Position Control Unit.

System Configuration Example

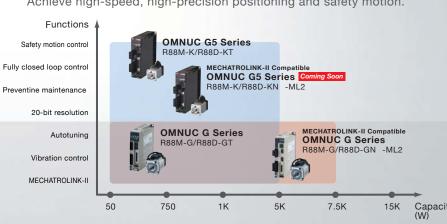




* MECHATROLINK-II is a trademark of the MECHATROLINK Members Association

Evolution of the G Series

Achieve high-speed, high-precision positioning and safety motion.



Reduced TCO

Advanced autotuning



OMNUC G5 Series

OMNUC G5

Provide Tact Time Improvement and High Accuracy

Safety

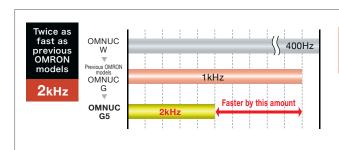
ом*пис* **G**5

Safety Motion Control That Provides Safety and Reliability

Industry Top-class Tracking Performance

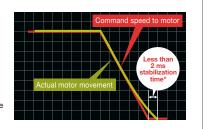
Speed Response Frequency of 2 kHz

Speed response is representative of servo system characteristics. In the OMNUC G5, the industry's fastest response has been achieved at 2 kHz. By improving the speed response by twice compared to previous OMRON models, the stabilization time has been shortened and this contributes to tact time reduction.



Motion control accurately follows commands.Effective for simultaneous control as well as improving tact time.

* Combination of R88D-KT02H Servo Drive and R88M-K20030H Servomotor. Example of actual measurements taken with gain adjusted by CX-Drive with inertia ratio of x1.

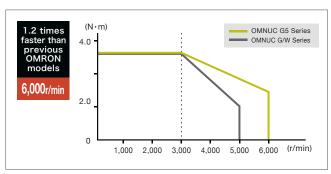


Reduced Tact Time with Higher Speed

Maximum rotation speed: 6,000 r/min*

The maximum rotation speed of R88M-series Servomotors has increased to 6,000 r/min, resulting in high-speed positioning that can reduce tact time.

*Applicable to 100 V/200 V models with 750 W or less.

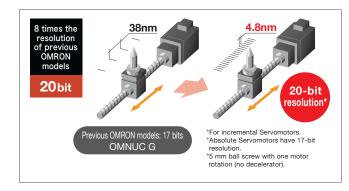


High-Speed and, High-Precision Position Control Using Camera Compensation The pulse output startup time of 0.1 ms enables High-Speed camera compensation. Note: Using a CJ2 CPU Unit (unit version 1.1 or later). Vision system Programmable Controller SYSMAC CJ Series Position Control Unit CJ1W-NC□□4 Camera OMNUC G5 R88D-KT/R88M-K

Best Positioning Accuracy

Featuring a 20-bit high-resolution incremental encoder

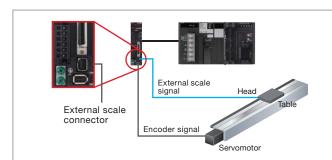
High-precision positioning can be achieved with the built-in encoder, 8 times the resolution of previous OMRON models at 20 bits.



High-precision Positioning

Fully Closed Loop Control Is a Standard Feature

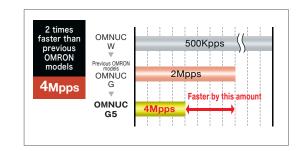
High-precision and high-response positioning can be realized without being affected by temperature changes by determining the position using direct feedback of the control position from the external scale, to enable using fully closed loop control without options. (The external scale connector terminal is a standard feature.)



High-speed and High-precision Positioning

Pulse input response frequency: 4 Mpps

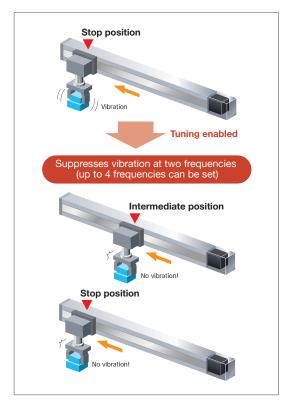
The Servo Drive response to command pulses is 4 Mpps, twice that of previous OMRON models. Response delays are thus reduced enabling high-speed and high-precision positioning.



Ideal for Applications That Require High Accuracy

Improved vibration control function

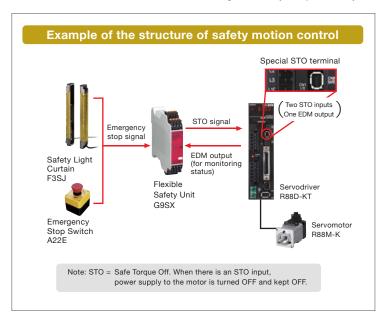
With the vibration control function, if the tip of the device is vibrating, the vibration frequency can be automatically set to remove the vibration. It can also be used to suppress vibration resulting from starting and stopping the device, allowing precise movement.

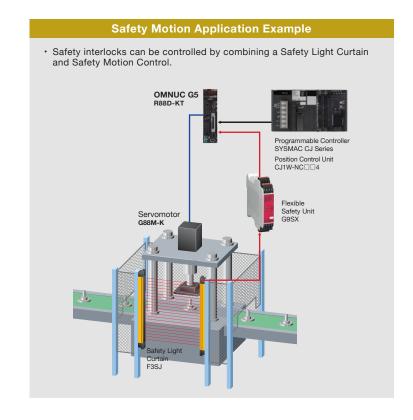


Conforms to the Latest International Standards

Safety and Productivity

The OMNUC G5 was the first to acquire international standard IEC 61800-5-2 (STO) for motion control in the industry within Japan. It also conforms to the European Directives ISO 13849-1: 2600 (PL d) and EN 61508 (SIL2). Safety control circuits can be constructed with the Servo Drive, delivering both safety and productivity.





OMNUC G5 Series 5

OMNUC G5

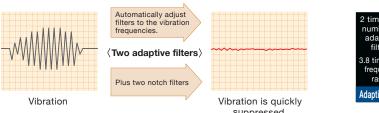
Easy Adjustment and Reduce works to System Start-up

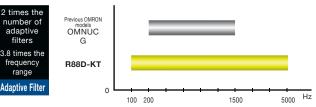


Easily Adjust Gain with Complete Tuning Realtime autotuning doubles the range of application. Estimating the machine load inertia ratio is now more accurate. Expanded rigidity settings from low to high rigidity increases the application range. Stabilization Time Riaidity **Results of Realtime Autotuning for** Low-rigidity Applications, Such as Belt Drives OMNUC 16 levels OMNUC G5

A wide range of rigidity can be handled by expanding the adaptive filter

The filter is automatically set to the resonance frequency while multiple adaptive filters reduce vibration. With an even wider frequency range, vibration can be reduced from drive shafts with low rigidity such as conveyer belts, to drive shafts with high rigidity.



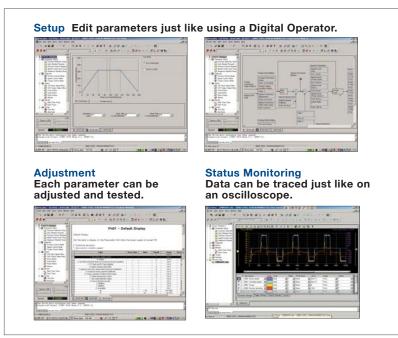


Complete Support from Setup to Maintenance

CX-Drive version 1.8 Support Software Coming Soon

The CX-Drive support software helps reduce work with a complete range of features from Servo parameter setting, transfer, and comparison to test operation, adjustments, monitoring, and tracing

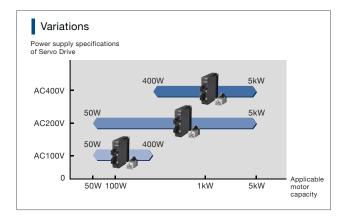


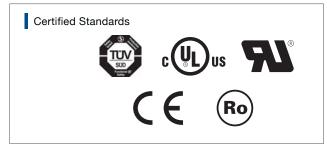


Globalization

Lineup of 400VAC Servomotors

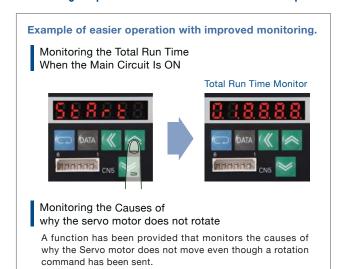
Servomotors are available for 100VAC, 200VAC, and 400VAC. And they conform to international safety standards for easy application anywhere worldwide.





Reduced Work with Increased Monitor Functions

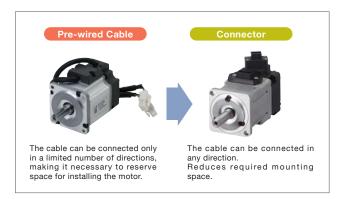
Monitoring for preventive maintenance have been improved.



Connect the Servomotor Cable with Ease

The direct connection method has been used for power, encoder, and brake.

Due to the direct connection method between the Servomotor, encoder, and brake, the cable can be connected in any direction, reducing cable stress.



Servomotors Conform to IP67

(Excluding Through-shaft Parts)

The power cable and encoder cable also conform to IP67

*Applicable to 3 to 20m cables of 100V/200V models with 750W or less.

The Servomotor provides IP67 protection, enhancing resistance to the



Reduced Stabilization Time by Suppressing Vibration

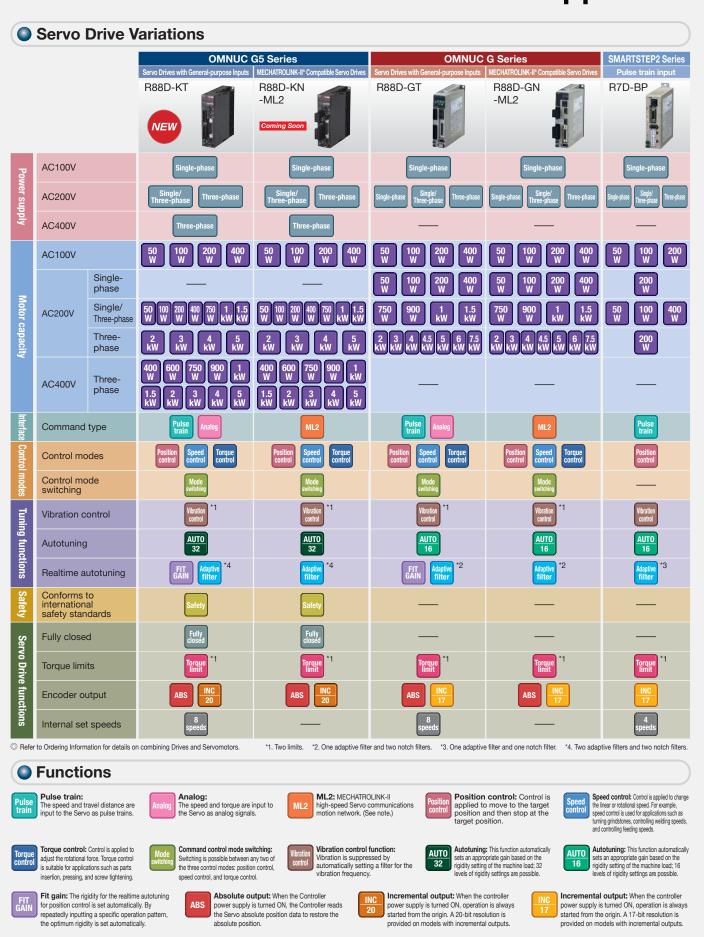
60% cogging torque reduction (compared to previous OMNUC G models)

Motor torque variation is reduced due to a 60% reduction in the cogging torque, resulting in high-precision positioning. This enables smooth operation at low speeds.

OMNUC G5 Series 7 **OMNUC G5 Series**

The optimum combination can be found from a variety of functions and model variations to handle various applications.



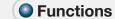


61800-5-2 (STO), ISO 13849-1; 2006 (PL d),

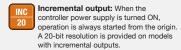
Positioning using direct feedback of the current position from the external scale.

the first torque limit and the second torque

	C	MNUC G5 Seri	es		OMNUC	G Series		SMARTST	EP2 Series
	Servomotor MECHATR	rs with General-purpor OLINK-II* Compatible	se inputs and Servomotors	Se N	ervomotors with Gen IECHATROLINK-II* C	Pulse tr	ain input		
	R88M-K			R88M-G				R88M-G	
	.3								
Motor typ	е	Cylinder type -		Cylinder	type –	Cylinder type —	Flat type	Cylinder type —	Flat type
Rated spec	1000r/min	2000r/min	3000r/min	1000r/min	2000r/min	3000	r/min	3000	r/min
50W			ABS INC 20			ABS INC 17		INC 17	
100W			ABS INC 20			ABS INC 17	ABS INC 17	INC 17	INC 17
200W	,		ABS INC 20			ABS INC 17	ABS INC 17	INC 17	INC 17
400W		ABS INC 20	ABS INC INC 20			ABS INC	ABS INC INC 17	INC 17	INC 17
600W	,	ABS INC							
750W	,		ABS INC 20			ABS INC			
900W	ABS INC 20			ABS					
1kW		ABS INC 20	ABS INC 20		ABS	A	BS VC		
1.5kW		ABS INC 20	ABS INC		ABS		BS VC		
2kW	ABS INC 20	ABS INC	ABS INC	ABS	ABS		BS NC		
3kW	ARC INC	ABS INC 20	ABS INC 20	ABS	ABS		BS VC		
4kW		ABS INC	ABS INC INC 20		ABS	A	BS VC		
4.5kW				ABS					
5kW		ABS INC 20	ABS INC 20		ABS	A	BS VC		
6kW				ABS					
7.5kW	,				ABS *				



ABS absolute/Incremental output: The Servomotor can be switched between an absolute output and an Incremental output. When an absolute output is selected and the Controller power supply is turned ON, the Controller reads the Servo absolute position data to restore the absolute position.



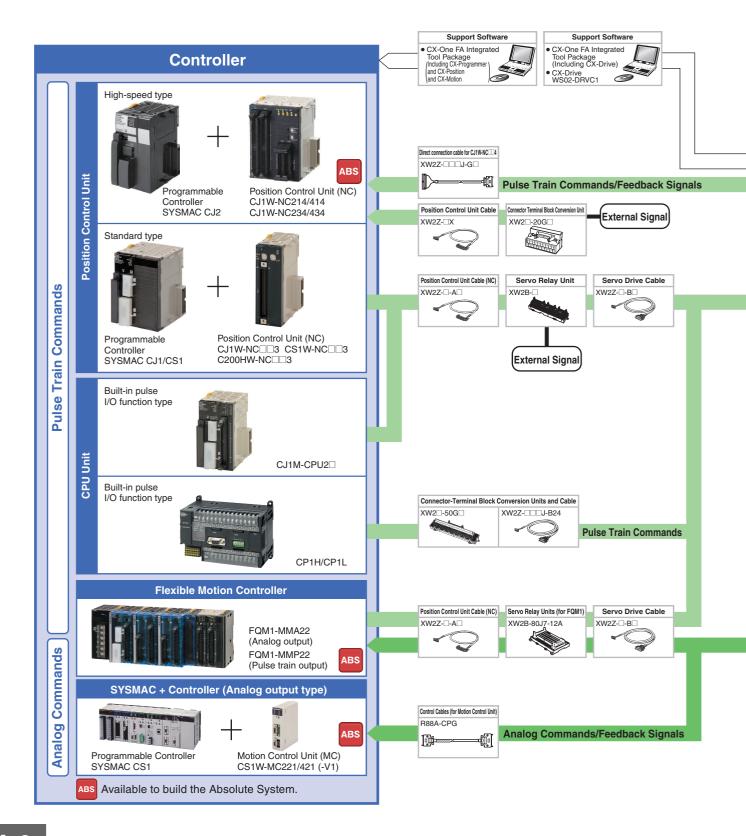
Incremental output: When the controller power supply is turned ON, operation is always started from the origin. A 17-bit resolution is provided on models with incremental outputs.

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alculated in realtime and the result is used

R88M-K/R88D-KT

System Configuration



The Preeminent Servo That Revolutionizes Motion Controll

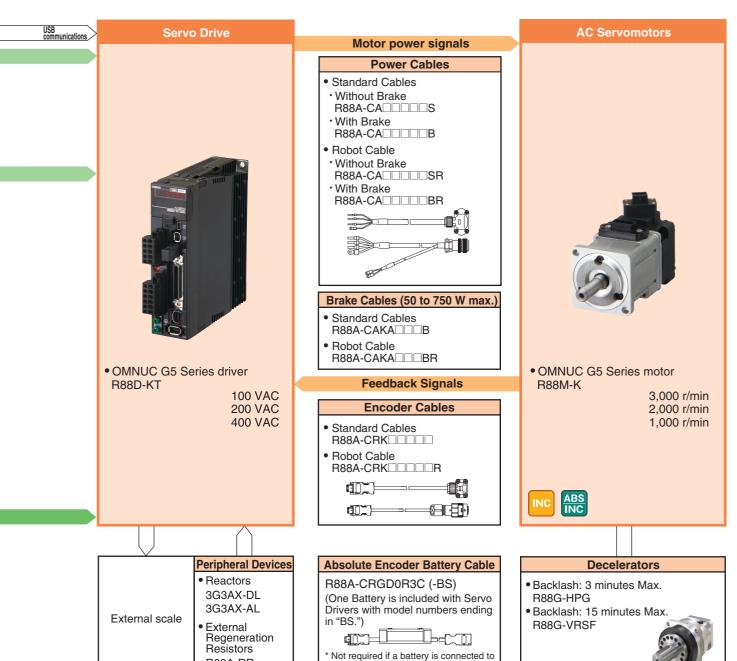
- Industry Top-class Tracking Performance.
 Speed Response Frequency of 2 kHz.
- Best Positioning Accuracy.
 Featuring a 20-bit high-resolution incremental encoder.
- High-precision Positioning.
 Fully Closed Loop Control Is a Standard Feature.
- Conforms to the Latest International Standards.
 Safety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

R88A-RR



Product configuration list

Refer to the Ordering Information.



the control connector (CN1).

Ordering Information

Product name	AC Servomotor/Drive OMNUC G5-series	
Interpreting Mo	del NumbersB-	2
■ Servomo	rive Model Numbers otor Model Numbers anding Decelerator Model Numbers h = 3' Max./Backlash = 15' Max.)	
Table of Servon	otor VariationsB-	4
Ordering Inform	ationB-	5
Gene	vesB-5 ral-purpose Inputs IATROLINK-II Communications	
Decelerators Accessories	B-6 (Backlash = 3' Max./Backlash = 15' Max.)B-11 and CablesB-13	
(Stand	ion Cables (Power Cables§Brake Cables§Encoder Cables) dard Cables) vt Cables)	
~	al Devices I Regeneration Resistors§Reactors§Mounting Brackets) Software (CX-One/CX-Drive)	
Combination tal	bleB-2	0
■ Servomo	rive and Servomotor Combinations otor and Decelerator Combinations er Combinations ombinations	
About Manuals.	B-2	8
Read and Under	rstand this Catalog	

 $\label{eq:mechatrolink} \verb§+MECHATROLINK-II| is a registered trademark of the MECHATROLINK Members Association.$

Interpreting Model Numbers

Servo Drive Model Numbers

R88D-K N 01 H -ML2

(2) (3) (4)

No	Item	Symbol	Specifications				
(1)	OMNUC G5-series Servo Drive						
(2)	Drive Type	Т	Analog input/Pulse train input type				
(2)	Drive Type	N	Communication type				
		A5	50 W				
		01	100 W				
		02	200 W				
		04	400 W				
	Applicable	08	750 W				
(3)	Servomotor	10	1 W				
	Capacity	15	1.5 kW				
		20	2 kW				
		30	3 kW				
		40	4 kW				
		50	5 W				
		L	100 VAC				
(4)	Power Supply Voltage	Н	200 VAC				
	tonage	F	400 VAC				
(F)	Notwork type	Blank	General-purpose Inputs				
(5)	Network type	-ML2	MECHATROLINK-II Communications				

Servomotor Model Numbers

R88M-K □ 750 30 H -BO S2

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

No	Item	Symbol	Specifications					
(1)		OMNUC C	35-series Servomotor					
(0)	(2) Motor Type		Cylinder type					
(2)	Motor Type	_	-					
		050	50 W					
		100	100 W					
		200	200 W					
		400	400 W					
		600	600 W					
	Applicable	750	750 W					
(3)	Servomotor	900	900 W					
	Capacity	1K0	1 kW					
		1K5	1.5 kW					
		2K0	2 kW					
		3K0	3 kW					
		4K0	4 kW					
		5K0	5 kW					
		10	1,000 r/min					
(4)	Rated Rotation Speed	20	2,000 r/min					
	Speed	30	3,000 r/min					
		F	400 VAC (with incremental encoder specifications)					
		Н	200 VAC (with incremental encoder specifications)					
(E)	Applied Voltage	L	100 VAC (with incremental encoder specifications)					
(5)	Applied Voltage	С	400 VAC (with absolute encoder specifications) ABS/INC					
		Т	200VAC (with absolute encoder specifications)					
		S	100 VAC (with absolute encoder specifications) ABS/INC					
		Blank	Straight shaft					
(6)	Ontion	В	With brake					
(6)	Option	0	With oil seal					
		S2	With key and tap					
Note:	INC incremental encoder: 20hit							

Note: INC incremental encoder: 20bit

ABS/INC incremental encoder: 17bit, absolute encoder: 17bit

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

Backlash = 3' Max.

R88G-HPG 14A 05 100 S B J

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

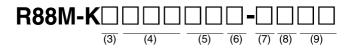
Carrier Servomotors Backlash = 3' Max.	No	Item	Symbol	Specifications
Canability Capacity Capacity	(1)	C□ S		
Case Flange Size Number Number		G□-36		
Case Flange Size 20A				
Sumber				
SZA	(2)			
Composition Composition Composition		Number		
(3) Gear Ratio (3) Gear Ratio (3) Gear Ratio (3) Gear Ratio (4) Applicable Servomotor Capacity (5) Motor Type (6) Backlash (7) Option (3) Gear Ratio (4) Sear Ratio (5) 1/5 (only frame number 65A) 1/21 (except frame number 65A) 1/25 (only frame number 65A) 1/33 1/33 45 1/45 050 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 Blank Straight shaft (7) Option (8) Blank Straight shaft				
(3) Gear Ratio (3) Gear Ratio (3) Gear Ratio (4) Applicable Servomotor Capacity (5) Motor Type (6) Backlash (6) Backlash (7) Option (1) 1/10 (only frame number 65A) 1/1/12 (only frame number 65A) 1/1/12 (only frame number 65A) 1/1/12 (only frame number 65A) 1/20 (only frame number 65A) 1/21 (except frame number 65A) 20 1/25 (only frame number 65A) 21 1/25 (only frame number 65A) 23 1/33 45 1/45 050 50 W 100 100 W 200 200 W 400 400 W 750 750 W 900 900 W 1KO 1 kW 1K5 1.5 kW 2KO 2 kW 3KO 3 kW 4KO 4 kW 4KS 4.5 kW 5KO 5 kW Blank 3,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors Blank Straight shaft				
(3) Gear Ratio 11				
(3) Gear Ratio 12				` '
(3) Gear Ratio 20				· · · · · · · · · · · · · · · · · · ·
21				, ,
25	(3)	Gear Ratio	_	, ,
33				, , ,
Applicable Servomotor Capacity AF			_	
Applicable Servomotor Capacity Applicable Servomotor Capacity Akbor Type September Servomotor Capacity Akbor Type September Servomotor Capacity Akbor Type Servomotor Capacity Applicable Servomotor Capacity Applicable Servomotor Applicable Servomotor Applicable Servomotor Applicable Servomotor Applicable Servomotor Applicable Applicable Servomotor Applicable Appl				1.7.7
100			45	1/45
Applicable Servomotor Capacity			050	50 W
Applicable Servomotor Capacity 1K0			100	100 W
Applicable 900 900 W 900 W 1K0 1 kW 1K5 1.5 kW 2K0 2 kW 3K0 3 kW 4K5 4.5 kW 5K0 5 kW 5K0 5 kW 8 2,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors 6 Backlash B Backlash 3 Max 1 1 1 1 1 1 1 1 1			200	200 W
(4) Applicable Servomotor Capacity 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 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			400	400 W
(4) Servomotor Capacity 1K0 1kW 1k5 1.5 kW 2K0 2 kW 3K0 3 kW 4K0 4K5 4.5 kW 5K0 5 kW Blank 3,000-r/min cylindrical servomotors S 2,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors Backlash B Backlash = 3' Max (7) Option			750	750 W
(4) Servomotor Capacity 1K0 1 kW 1K5 1.5 kW 2K0 2 kW 3K0 3 kW 4K0 4 kW 4K5 4.5 kW 5K0 5 kW 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		Applicable	900	900 W
2K0	(4)	Servomotor	1K0	1 kW
3K0		Capacity	1K5	1.5 kW
4K0			2K0	2 kW
4K5			3K0	3 kW
SK0 5 kW			4K0	4 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			4K5	4.5 kW
(5) Motor Type 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			5K0	5 kW
S 2,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors (6) Backlash B Backlash = 3' Max (7) Option S 2,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors S 2,000-r/min cylindrical servomotors			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 S 2,000-r/min cylindrical servomotors T 1,000-r/min cylindrical servomotors S 2,000-r/min cylindrical servomotors	(5)		-	-
(6) Backlash B Backlash = 3' Max (7) Option Blank Straight shaft	(5)	iviotor Type	S	2,000-r/min cylindrical servomotors
(7) Option Blank Straight shaft			Т	1,000-r/min cylindrical servomotors
(7) Option	(6)	Backlash	В	Backlash = 3' Max
J With key and tap	(T)	0 "	Blank	Straight shaft
	(/)	Option	J	With key and tap

Backlash = 15' Max.

R88G-VRSF 09 B 100

No	Item	Symbol	Specifications
(1)	G□-Se		ecelerator for motors Backlash = 15' Max.
		05	1/5
(0)	Gear Batio	09	1/9
(2)	Gear Hallo	15	1/15
		25	1/25
		В	□52
(3)	Flange Size Number	С	□78
		D	□98
		050	50 W
	Applicable	100	100 W
(4)	Servomotor	200	200 W
	Capacity	400	400 W
		750	750 W
(E)	Motor Tuno	Blank	3,000-r/min cylindrical servomotors
(5)	Motor Type	-	_
(6)	Backlash	С	Backlash = 15' Max
(7)	Option	J	With key (without tap)

Table of Servomotor Variations



(3)	(4)	(5)				(6)			(7)	(8)	(9)
					Δ	pplied	Voltag	e		With b	orake /				
	Applicable		Model	INC	INC	INC	ABS	ABS	ABS	Withou	t brake	Models oil se		Shaft	type
Туре	Servomotor	Rotation speed	mode.	400	200	100	400	200	100	-	В	00	Juio		
	Capacity			F	Н	L	С	Т	s	Blank	With brake	Blank	0	Blank	S2
	50 W		R88M-K05030 *		√			√		V	√	V	V	√	V
	100 W		R88M-K10030		√	√		√	√	V	√	√	V	√	√
	200 W		R88M-K20030		√	√		√	√	√	√	√	\checkmark	√	V
	400 W		R88M-K40030		√	√		√	√	V	√	\checkmark	\checkmark	√	V
	750 W		R88M-K75030	√	√		V	√		V	√	√	V	√	V
	1 kW	3,000 r/min	R88M-K1K030	√	√		V	√		V	√	\checkmark	\checkmark	√	V
	1.5 kW		R88M-K1K530	√	√		V	√		V	√	√	V	√	V
	2 kW		R88M-K2K030	1	√		V	√		1	√	√	V	√	V
	3 kW		R88M-K3K030	√	√		V	√		V	√	√	V	√	V
	4 kW		R88M-K4K030	1	√		V	V		1	√	√	√	√	V
Cylinder	5 kW		R88M-K5K030	1	√		V	V		1	√	√	√	√	√
Cyllilder	400 W		R88M-K40020	√			V			V	√	√	V	√	V
	600 W		R88M-K60020	√			V			V	√	√	V	√	V
	1 kW		R88M-K1K020	1	√		V	V		1	√	√	√	√	√
	1.5 kW	0.000 */min	R88M-K1K520	√	√		V	√		V	√	√	V	√	V
	2 kW	2,000 r/min	R88M-K2K020	1	√		V	V		1	√	√	√	√	√
	3 kW		R88M-K3K020	1	√		V	V		1	√	√	V	√	V
	4 kW		R88M-K4K020	V	√		V	V		V	V	√	√	√	V
	5 kW		R88M-K5K020	1	√		V	V		1	√	√	V	√	V
	900 W	1,000 r/min	R88M-K90010	√	√		1	V		V	√	√	$\sqrt{}$	√	V
	2 kW		R88M-K2K010	√	√		V	√		V	√	√	\checkmark	√	V
	3 kW		R88M-K3K010	V	√		V	V		1	√	√	V	√	√
Blank: Cylinder type	example 030: 30 W 100: 100 W 1K0: 1 kW	10: 1,000 r/min 20: 2,000 r/min 30: 3,000 r/min		H: 200 VAC (with incremental encoder) INC L: 100 VAC (with incremental encoder) INC C: 400 VAC (with absolute encoder) ABS/INC T: 200 VAC (with absolute encoder) ABS/INC 2		Blank: Withou brake B: 24 VD With b	С	Blank: Withou seals O: With seals		Blank: Straigh S2: With ke					

^{*} R88M-K05030H-□, R88M-K05030T-□, can be used for Power Supply Voltage of 100/200VAC.

Ordering Information

AC Servo Drives

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

Specifi	ications				
Power Supply Voltage	Applicable Servomotor Capacity	Model			
	50 W	R88D-KTA5L			
Single-phase	100 W	R88D-KT01L			
100 VAC	200 W	R88D-KT02L			
	400 W	R88D-KT04L			
	100 W	R88D-KT01H			
Single-	200 W	R88D-KT02H			
phase/three-	400 W	R88D-KT04H			
phase	750 W	R88D-KT08H			
200 VAC	1 kW	R88D-KT10H			
	1.5 kW	R88D-KT15H			
	2 kW	R88D-KT20H			
Three-phase 200 VAC	3 kW	R88D-KT30H			
200 1710	5 kW	R88D-KT50H			
	600 W	R88D-KT06F			
	1 kW	R88D-KT10F			
Three-phase	1.5 kW	R88D-KT15F			
400 VAC	2 kW	R88D-KT20F			
	3 kW	R88D-KT30F			
	5 kW	R88D-KT50F			

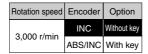
MECHATROLINK-II Communications Coming Soon

Specif	ications				
Power Supply Voltage	Applicable Servomotor Capacity	Model			
	50 W	R88D-KNA5L-ML2			
Single-phase	100 W	R88D-KN01L-ML2			
100 VAC	200 W	R88D-KN02L-ML2			
	400 W	R88D-KN04L-ML2			
	100 W	R88D-KN01H-ML2			
Single-	200 W	R88D-KN02H-ML2			
phase/three-	400 W	R88D-KN04H-ML2			
phase	750 W	R88D-KN08H-ML2			
200 VAC	1 kW	R88D-KN10H-ML2			
	1.5 kW	R88D-KN15H-ML2			
	2 kW	R88D-KN20H-ML2			
Three-phase 200 VAC	3 kW	R88D-KN30H-ML2			
200 1710	5 kW	R88D-KN50H-ML2			
	600 W	R88D-KN06F-ML2			
	1 kW	R88D-KN10F-ML2			
Three-phase	1.5 kW	R88D-KN15F-ML2			
400 VAC	2 kW	R88D-KN20F-ML2			
	3 kW	R88D-KN30F-ML2			
	5 kW	R88D-KN50F-ML2			

Servomotors

<Cylinder Type>

● 3,000-r/min servomotors



<u>NEW</u>

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

Specifications

Voltage

Rated output

50 W

100 W

NEW

Model

With incremental encoder Straight shaft with key and tap

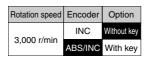
Without oil seals

R88M-K05030H-S2

R88M-K10030L-S2

		Model
Specificat	ions	With incremental encoder
		Straight shaft without key
Voltage	Rated output	Without oil seals
	50 W	R88M-K05030H
100 V	100 W	R88M-K10030L
100 V	200 W	R88M-K20030L
	400 W	R88M-K40030L
	50 W	R88M-K05030H
	100 W	R88M-K10030H
	200 W	R88M-K20030H
	400 W	R88M-K40030H
	750 W	R88M-K75030H
200 V	1 kW	R88M-K1K030H
	1.5 kW	R88M-K1K530H
	2 kW	R88M-K2K030H
	3 kW	R88M-K3K030H
	4 kW	R88M-K4K030H
	5 kW	R88M-K5K030H
	750 W	R88M-K75030F
	1 kW	R88M-K1K030F
	1.5 kW	R88M-K1K530F
400 V	2 kW	R88M-K2K030F
	3 kW	R88M-K3K030F
	4 kW	R88M-K4K030F
	5 kW	R88M-K5K030F
	50 W	R88M-K05030H-B
400 1/	100 W	R88M-K10030L-B
100 V	200 W	R88M-K20030L-B
	400 W	R88M-K40030L-B
	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
200 V	1 kW	R88M-K1K030H-B
	1.5 kW	R88M-K1K530H-B
	2 kW	R88M-K2K030H-B
	3 kW	R88M-K3K030H-B
	4 kW	R88M-K4K030H-B
	5 kW	R88M-K5K030H-B
	750 W	R88M-K75030F-B
	1 kW	R88M-K1K030F-B
	1.5 kW	R88M-K1K530F-B
400 V	2 kW	R88M-K2K030F-B
	3 kW	R88M-K3K030F-B
	4 kW	R88M-K4K030F-B
	5 kW	R88M-K5K030F-B

	100 V					
	100 V	200 W	R88M-K20030L-S2			
		400 W	R88M-K40030L-S2			
		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			
ake	200 V	1 kW	R88M-K1K030H-S2			
t pr		1.5 kW	R88M-K1K530H-S2			
Without brake		2 kW	R88M-K2K030H-S2			
₹		3 kW	R88M-K3K030H-S2			
		4 kW	R88M-K4K030H-S2			
		5 kW	R88M-K5K030H-S2			
		750 W	R88M-K75030F-S2			
		1 kW	R88M-K1K030F-S2			
		1.5 kW	R88M-K1K530F-S2			
	400 V	2 kW	R88M-K2K030F-S2			
		3 kW	R88M-K3K030F-S2			
		4 kW	R88M-K4K030F-S2			
		5 kW	R88M-K5K030F-S2			
		50 W	R88M-K05030H-BS2			
	100 V	100 W	R88M-K10030L-BS2			
		200 W	R88M-K20030L-BS2			
		400 W	R88M-K40030L-BS2			
		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			
ē	200 V	1 kW	R88M-K1K030H-BS2			
bra		1.5 kW	R88M-K1K530H-BS2			
With brake		2 kW	R88M-K2K030H-BS2			
>		3 kW	R88M-K3K030H-BS2			
		4 kW	R88M-K4K030H-BS2			
		5 kW	R88M-K5K030H-BS2			
		750 W	R88M-K75030F-BS2			
		1 kW	R88M-K1K030F-BS2			
		1.5 kW	R88M-K1K530F-BS2			
	400 V	2 kW	R88M-K2K030F-BS2			
		3 kW	R88M-K3K030F-BS2			
		4 kW	R88M-K4K030F-BS2			
		5 kW	R88M-K5K030F-BS2			



<u>NEW</u>

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

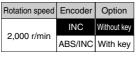
NEW

Without brake	Voltage	Rated output	With absolute encoder Straight shaft without key Without oil seals
orake		output	
orake		output	Without oil seals
rake	100 V	50 W	
rake	100 V		R88M-K05030T
rake	100 V	100 W	R88M-K10030S
rake		200 W	R88M-K20030S
rake		400 W	R88M-K40030S
ırake		50 W	R88M-K05030T
rake		100 W	R88M-K10030T
orake		200 W	R88M-K20030T
rake		400 W	R88M-K40030T
rake		750 W	R88M-K75030T
Ë	200 V	1 kW	R88M-K1K030T
		1.5 kW	R88M-K1K530T
ייסר		2 kW	R88M-K2K030T
Wit		3 kW	R88M-K3K030T
		4 kW	R88M-K4K030T
		5 kW	R88M-K5K030T
		750 W	R88M-K75030C
		1 kW	R88M-K1K030C
		1.5 kW	R88M-K1K530C
	400 V	2 kW	R88M-K2K030C
		3 kW	R88M-K3K030C
		4 kW	R88M-K4K030C
		5 kW	R88M-K5K030C
		50 W	R88M-K05030T-B
		100 W	R88M-K10030S-B
	100 V	200 W	R88M-K20030S-B
		400 W	R88M-K40030S-B
		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
g.	200 V	1 kW	## Without oil seals ## R88M-K05030T ## R88M-K10030S ## R88M-K20030S ## R88M-K40030S ## R88M-K40030T ## R88M-K40030T ## R88M-K20030T ## R88M-K20030T ## R88M-K40030T ## R88M-K1K030T ## R88M-K1K030T ## R88M-K3K030T ## R88M-K3K030T ## R88M-K3K030T ## R88M-K3K030T ## R88M-K1K530C ## R88M-K1K530C ## R88M-K3K030C ## R88M-K3K030C ## R88M-K4K030C ## R88M-K4K030C ## R88M-K4K030C ## R88M-K3K030C ## R88M-K3K030C ## R88M-K3K030C ## R88M-K4030C-B ## R88M-K10030S-B ## R88M-K10030S-B ## R88M-K20030S-B ## R88M-K20030T-B ## R88M-K20030T-B ## R88M-K20030T-B ## R88M-K10030T-B ## R
brake		1.5 kW	R88M-K1K530T-B
‡		2 kW	R88M-K2K030T-B
₹		3 kW	
		4 kW	R88M-K4K030T-B
		5 kW	R88M-K5K030T-B
		750 W	
		1 kW	R88M-K1K030C-B
		1.5 kW	R88M-K1K530C-B
	400 V	2 kW	
		3 kW	
		4 kW	
		5 kW	

Note: Mo	dels with oil	seals are also	available.

			Model	
Specifications		ions	With absolute encoder	
	-		Straight shaft withkey and tap	
	Voltage	Rated output	Without oil seals	
		50 W	R88M-K05030T-S2	
	400 V	100 W	R88M-K10030S-S2	
	100 V	200 W	W R88M-K20030S-S2 W R88M-K40030S-S2 W R88M-K40030S-S2 W R88M-K10030T-S2 W R88M-K20030T-S2 W R88M-K40030T-S2 W R88M-K16030T-S2 W R88M-K16030T-S2 W R88M-K16030T-S2 W R88M-K26030T-S2 W R88M-K36030T-S2 W R88M-K46030T-S2 W R88M-K56030T-S2 W R88M-K16030T-S2 W R88M-K16030C-S2 W R88M-K16030C-S2 W R88M-K26030C-S2 W R88M-K36030C-S2 W R88M-K46030C-S2 W R88M-K56030T-BS2 W R88M-K40030S-BS2 W R88M-K40030S-BS2 W R88M-K40030S-BS2 W R88M-K40030T-BS2 W R88M-K40030T-BS2	
		400 W	R88M-K40030S-S2	
		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	
ake	200 V	1 kW	R88M-K1K030T-S2	
Without brake		1.5 kW	R88M-K1K530T-S2	
Jou		2 kW	R88M-K2K030T-S2	
¥		3 kW	R88M-K3K030T-S2	
		4 kW	R88M-K4K030T-S2	
		5 kW	R88M-K5K030T-S2	
		750 W	R88M-K75030C-S2	
		1 kW	R88M-K1K030C-S2	
		1.5 kW	R88M-K1K530C-S2	
	400 V	2 kW	R88M-K2K030C-S2	
		3 kW	R88M-K3K030C-S2	
		4 kW	R88M-K4K030C-S2	
		5 kW	R88M-K5K030C-S2	
		50 W	R88M-K05030T-BS2	
		100 W	R88M-K10030S-BS2	
	100 V	200 W	R88M-K20030S-BS2	
		400 W	R88M-K40030S-BS2	
		50 W	R88M-K05030T-BS2	
		100 W	R88M-K10030T-BS2	
		200 W	R88M-K20030T-BS2	
		400 W	R88M-K40030T-BS2	
		750 W	### Without oil seals W	
ê	200 V	1 kW		
brake		1.5 kW	R88M-K1K530T-BS2	
₹		2 kW	R88M-K2K030T-BS2	
≥		3 kW	R88M-K3K030T-BS2	
		4 kW	R88M-K4K030T-BS2	
		5 kW	R88M-K5K030T-BS2	
		750 W	R88M-K75030C-BS2	
		1 kW	R88M-K1K030C-BS2	
		1.5 kW	R88M-K1K530C-BS2	
	400 V	2 kW	R88M-K2K030C-BS2	
		3 kW	R88M-K3K030C-BS2	
		4 kW	R88M-K4K030C-BS2	
		5 kW	R88M-K5K030C-BS2	

● 2,000-r/min servomotors



NEW

ABS/INC With key		INC With key	<u>INE VV</u>
			Model
	Specificat	ions	With incremental encoder
			Straight shaft without key
	Voltage	Rated output	Without oil seals
		1 kW	R88M-K1K020H
		1.5 kW	R88M-K1K520H
	200 V	2 kW	R88M-K2K020H
	200 V	3 kW	R88M-K3K020H
		4 kW	### Without oil seals ### R88M-K1K020H ### R88M-K1K520H ### R88M-K2K020H ### R88M-K3K020H ### R88M-K3K020H ### R88M-K4K020H ### R88M-K5K020H ### R88M-K5K020H ### R88M-K5K020H ### R88M-K40020F ### R88M-K1K020F ### R88M-K1K020F ### R88M-K1K520F ### R88M-K2K020F ### R88M-K3K020F ### R88M-K3K020F ### R88M-K3K020F ### R88M-K3K020F ### R88M-K1K020H-B ### R88M-K1K020H-B ### R88M-K1K020H-B ### R88M-K2K020H-B ### R88M-K2K020H-B ### R88M-K3K020H-B
Without brake		5 kW	R88M-K5K020H
ţ.	400 V	400 W	R88M-K40020F
οc		600 W	R88M-K60020F
₹		1 kW	R88M-K1K020F
		1.5 kW	R88M-K1K520F
		2 kW	R88M-K2K020F
		3 kW	R88M-K3K020F
		4 kW	R88M-K4K020F
		5 kW	R88M-K5K020F
		1 kW	R88M-K1K020H-B
		1.5 kW	R88M-K1K520H-B
	200 V	2 kW	With incremental encoder
	200 V	3 kW	
		4 kW	
ê		5 kW	R88M-K5K020H-B
bral		400 W	R88M-K40020F-B
With brake		600 W	R88M-K60020F-B
≥		1 kW	R88M-K1K020F-B
	400 V	1.5 kW	R88M-K1K520F-B
	400 V	2 kW	R88M-K2K020F-B
		3 kW	R88M-K3K020F-B

R88M-K4K020F-B

R88M-K5K020F-B

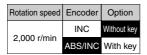
5 kW Note: Models with oil seals are also available.

4 kW

Rotation speed	Encoder	Option
0.000 / 1	INC	Without key
2,000 r/min	ABS/INC	With key

NEW

			Model
Specifications		ions	With incremental encoder
			Straight shaft with key and tap
	Voltage	Rated output	Without oil seals
		1 kW	R88M-K1K020H-S2
		1.5 kW	R88M-K1K520H-S2
	200 V	2 kW	R88M-K2K020H-S2
	200 V	3 kW	R88M-K3K020H-S2
		4 kW	R88M-K4K020H-S2
Without brake		5 kW	R88M-K5K020H-S2
t br		400 W	R88M-K40020F-S2
Pou		600 W	R88M-K60020F-S2
ΝĒ		1 kW	R88M-K1K020F-S2
	400 V	1.5 kW	R88M-K1K520F-S2
		2 kW	R88M-K2K020F-S2
		3 kW	R88M-K3K020F-S2
		4 kW	R88M-K4K020F-S2
		5 kW	R88M-K5K020F-S2
		1 kW	R88M-K1K020H-BS2
		1.5 kW	R88M-K1K520H-BS2
	200 V	2 kW	R88M-K2K020H-BS2
	200 V	3 kW	R88M-K3K020H-BS2
		4 kW	R88M-K4K020H-BS2
ê		5 kW	R88M-K5K020H-BS2
With brake		400 W	R88M-K40020F-BS2
듄		600 W	R88M-K60020F-BS2
≥		1 kW	R88M-K1K020F-BS2
	400 V	1.5 kW	R88M-K1K520F-BS2
	400 V	2 kW	R88M-K2K020F-BS2
		3 kW	R88M-K3K020F-BS2
		4 kW	R88M-K4K020F-BS2
		5 kW	R88M-K5K020F-BS2



<u>NEW</u>

			Model
Specifications		tions	With absolute encoder
			Straight shaft without key
	Voltage	Rated output	Without oil seals
		1 kW	R88M-K1K020T
		1.5 kW	R88M-K1K520T
	200 V	2 kW	R88M-K2K020T
	200 V	3 kW	R88M-K3K020T
		4 kW	R88M-K4K020T
ake		5 kW	R88M-K5K020T
Without brake		400 W	R88M-K40020C
		600 W	R88M-K60020C
₹		1 kW	R88M-K1K020C
	400 V	1.5 kW	R88M-K1K520C
	400 V	2 kW	R88M-K2K020C
		3 kW	R88M-K3K020C
		4 kW	R88M-K4K020C
		5 kW	R88M-K5K020C
		1 kW	R88M-K1K020T-B
		1.5 kW	R88M-K1K520T-B
	200 V	2 kW	R88M-K2K020T-B
	200 V	3 kW	R88M-K3K020T-B
		4 kW	R88M-K4K020T-B
ê		5 kW	With absolute encoder Straight shaft without key Without oil seals R88M-K1K020T R88M-K1K520T R88M-K2K020T R88M-K3K020T R88M-K3K020T R88M-K4K020T R88M-K4K020C R88M-K4K020C R88M-K1K020C R88M-K1K520C R88M-K1K520C R88M-K1K520C R88M-K1K520C R88M-K1K520C R88M-K1K520C R88M-K1K520C R88M-K3K020C R88M-K4K020C R88M-K1K020T-B R88M-K1K520T-B R88M-K1K520T-B R88M-K3K020T-B R88M-K3K020T-B R88M-K4K020T-B R88M-K4K020T-B R88M-K4K020C-B R88M-K4K020C-B R88M-K4K020C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K1K520C-B R88M-K3K020C-B
bra		400 W	R88M-K40020C-B
With brake		600 W	R88M-K60020C-B
≥		1 kW	R88M-K1K020C-B
	400 V	1.5 kW	R88M-K1K520C-B
	400 V	2 kW	R88M-K2K020C-B
		3 kW	R88M-K3K020C-B
		4 kW	R88M-K4K020C-B
		5 kW	With absolute encoder Straight shaft without key Without oil seals R88M-K1K020T R88M-K1K520T R88M-K2K020T R88M-K3K020T R88M-K4K020T R88M-K4K020T R88M-K4K020C R88M-K4K020C R88M-K4K020C R88M-K1K020C R88M-K1K020C R88M-K3K020C R88M-K3K020C R88M-K4K020C R88M-K4K020C R88M-K4K020C R88M-K5K020C R88M-K5K020C R88M-K1K520T-B R88M-K1K520T-B R88M-K1K520T-B R88M-K1K020T-B R88M-K4K020T-B R88M-K4K020C-B R88M-K4K020C-B R88M-K4K020C-B
Note:	Models wi	th oil seals	are also available.

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

<u>NEW</u>

			Model
Specifications		ions	With absolute encoder
			Straight shaft with key and tap
	Voltage	Rated output	Without oil seals
		1 kW	R88M-K1K020T-S2
		1.5 kW	R88M-K1K520T-S2
	200 V	2 kW	R88M-K2K020T-S2
	200 V	3 kW	R88M-K3K020T-S2
		4 kW	R88M-K4K020T-S2
Without brake		5 kW	R88M-K5K020T-S2
t br		400 W	R88M-K40020C-S2
οc		600 W	R88M-K60020C-S2
¥.		1 kW	R88M-K1K020C-S2
	400 V	1.5 kW	R88M-K1K520C-S2
	400 V	2 kW	R88M-K2K020C-S2
		3 kW	R88M-K3K020C-S2
		4 kW	R88M-K4K020C-S2
		5 kW	R88M-K5K020C-S2
		1 kW	R88M-K1K020T-BS2
		1.5 kW	R88M-K1K520T-BS2
	200 V	2 kW	R88M-K2K020T-BS2
	200 V	3 kW	R88M-K3K020T-BS2
		4 kW	R88M-K4K020T-BS2
ē		5 kW	R88M-K5K020T-BS2
bra		400 W	R88M-K40020C-BS2
With brake		600 W	R88M-K60020C-BS2
>		1 kW	R88M-K1K020C-BS2
	400 V	1.5 kW	R88M-K1K520C-BS2
	400 V	2 kW	R88M-K2K020C-BS2
		3 kW	R88M-K3K020C-BS2
		4 kW	R88M-K4K020C-BS2
		5 kW	R88M-K5K020C-BS2

● 1,000-r/min servomotors



NEW

-			
			Model
	Specificat	ions	With incremental encoder
	Voltage Rated output		Straight shaft without key
			Without oil seals
Without brake		900 W	R88M-K90010H
	200 V	2 kW	R88M-K2K010H
		3 kW	R88M-K3K010H
	400 V	900 W	R88M-K90010F
₹		2 kW	R88M-K2K010F
		3 kW	R88M-K3K010F
		900 W	R88M-K90010H-B
e	200 V	2 kW	R88M-K2K010H-B
bra		3 kW	R88M-K3K010H-B
With brake		900 W	R88M-K90010F-B
≥	400 V	2 kW	R88M-K2K010F-B
		3 kW	R88M-K3K010F-B

Note: Models with oil seals are also available.

Rotation speed	Encoder	Option
4 000 -/	INC	Without key
1,000 r/min	ABS/INC	With key

NEW

			Model
	Specificat	ions	With incremental encoder
			Straight shaft with key and tap
	Voltage	Rated output	Without oil seals
		900 W	R88M-K90010H-S2
ake	200 V	2 kW	R88M-K2K010H-S2
Without brake		3 kW	R88M-K3K010H-S2
υoι	400 V	900 W	R88M-K90010F-S2
₹		2 kW	R88M-K2K010F-S2
		3 kW	R88M-K3K010F-S2
	200 V	900 W	R88M-K90010H-BS2
ē		2 kW	R88M-K2K010H-BS2
With brake		3 kW	R88M-K3K010H-BS2
	400 V	900 W	R88M-K90010F-BS2
		2 kW	R88M-K2K010F-BS2
		3 kW	R88M-K3K010F-BS2

Note: Models with oil seals are also available.

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

NEW

			Model	
	Specificat	ions	With absolute encoder	
			Straight shaft without key	
•	Voltage Rated output		Without oil seals	
		900 W	R88M-K90010T	
ake	200 V	2 kW	R88M-K2K010T	
t br		3 kW	R88M-K3K010T	
υοι	400 V	900 W	R88M-K90010C	
Without brake		2 kW	R88M-K2K010C	
		3 kW	R88M-K3K010C	
		900 W	R88M-K90010T-B	
ē	200 V	2 kW	R88M-K2K010T-B	
With brake		3 kW	R88M-K3K010T-B	
	400 V	900 W	R88M-K90010C-B	
		2 kW	R88M-K2K010C-B	
		3 kW	R88M-K3K010C-B	

Note: Models with oil seals are also available.

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

NEW

			Model
	Specificat	ions	With absolute encoder
			Straight shaft with key and tap
	Voltage	Rated output	Without oil seals
		900 W	R88M-K90010T-S2
ake	200 V	2 kW	R88M-K2K010T-S2
Without brake		3 kW	R88M-K3K010T-S2
Jou	400 V	900 W	R88M-K90010C-S2
₹		2 kW	R88M-K2K010C-S2
-		3 kW	R88M-K3K010C-S2
	200 V	900 W	R88M-K90010T-BS2
ē		2 kW	R88M-K2K010T-BS2
With brake		3 kW	R88M-K3K010T-BS2
	400 V	900 W	R88M-K90010C-BS2
		2 kW	R88M-K2K010C-BS2
		3 kW	R88M-K3K010C-BS2

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

Backlash = 3' Max <Cylinder Type>

● 3,000-r/min servomotors

Straight shaft without key

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

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

● 2,000-r/min servomotors

Straight shaft without key

Motor capacity	Gear Ratio	Model (Straight shaft)
	1/5	R88G-HPG32A052K0B
	1/11	R88G-HPG32A112K0B
400 W	1/21	R88G-HPG32A211K5B
	1/33	R88G-HPG32A33600SB <u>NEW</u>
	1/45	R88G-HPG32A45400SB <u>NEW</u>
	1/5	R88G-HPG32A052K0B
	1/11	R88G-HPG32A112K0B
600 W	1/21	R88G-HPG32A211K5B
	1/33	R88G-HPG32A33600SB <u>NEW</u>
	1/45	R88G-HPG50A451K5B
	1/5	R88G-HPG32A053K0B
	1/11	R88G-HPG32A112K0SB
1 kW	1/21	R88G-HPG32A211K0SB
	1/33	R88G-HPG50A332K0SB
	1/45	R88G-HPG50A451K0SB
	1/5	R88G-HPG32A053K0B
1 5 1/1/	1/11	R88G-HPG32A112K0SB
1.5 kW	1/21	R88G-HPG50A213K0B
	1/33	R88G-HPG50A332K0SB
	1/5	R88G-HPG32A053K0B
2 kW	1/11	R88G-HPG32A112K0SB
2 KVV	1/21	R88G-HPG50A213K0B
	1/33	R88G-HPG50A332K0SB
	1/5	R88G-HPG32A054K0B
0.1444	1/11	R88G-HPG50A115K0B
3 kW	1/21	R88G-HPG50A213K0SB
	1/25	R88G-HPG65A253K0SB
	1/5	R88G-HPG50A055K0SB
4 124	1/11	R88G-HPG50A115K0SB
4 kW	1/20	R88G-HPG65A205K0SB
	1/25	R88G-HPG65A255K0SB
	1/5	R88G-HPG50A055K0SB
E IAM	1/11	R88G-HPG50A115K0SB
5 kW	1/20	R88G-HPG65A205K0SB
	1/25	R88G-HPG65A255K0SB

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

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.

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)		
	1/5	R88G-HPG32A053K0B		
900 W	1/11	R88G-HPG32A112K0SB		
900 W	1/21	R88G-HPG50A213K0B		
	1/33	R88G-HPG50A332K0SB		
	1/5	R88G-HPG32A052K0TB		
2 kW	1/11	R88G-HPG50A112K0TB		
∠ KVV	1/21	R88G-HPG50A212K0TB		
	1/25	R88G-HPG65A255K0SB		
	1/5	R88G-HPG50A055K0SB		
3 kW	1/11	R88G-HPG50A115K0SB		
3 KVV	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

Backlash = 15' Max <Cylinder Type>

● 3,000-r/min servomotors

Straight shaft with key

	1		
Motor capacity	Gear Ratio	Model (Straight shaft)	
	1/5	R88G-VRSF05B100CJ	
50 W	1/9	R88G-VRSF09B100CJ	
50 W	1/15	R88G-VRSF15B100CJ	
	1/25	R88G-VRSF25B100CJ	
	1/5	R88G-VRSF05B100CJ	
100 W	1/9	R88G-VRSF09B100CJ	
100 00	1/15	R88G-VRSF15B100CJ	
	1/25	R88G-VRSF25B100CJ	
	1/5	R88G-VRSF05B200CJ	
200 W	1/9	R88G-VRSF09C200CJ	
200 W	1/15	R88G-VRSF15C200CJ	
	1/25	R88G-VRSF25C200CJ	
	1/5	R88G-VRSF05C400CJ	
400 W	1/9	R88G-VRSF09C400CJ	
400 W	1/15	R88G-VRSF15C400CJ	
	1/25	R88G-VRSF25C400CJ	
	1/5	R88G-VRSF05C750CJ	
750 W	1/9	R88G-VRSF09D750CJ	
750 W	1/15	R88G-VRSF15D750CJ	
	1/25	R88G-VRSF25D750CJ	

Accessories and Cables

■ Connection Cables (Power Cables, Brake Cables, Encoder Cables) <Standard Cables>

Power cable

Our relation to		Without brake	With brake
Specifications	-	Model	Model
	3 m	R88A-CAKA003S <u>NEW</u>	
	5 m	R88A-CAKA005S <u>NEW</u>	Note: There are separate connectors for
	10 m	R88A-CAKA010S <u>NEW</u>	power and brakes for 3,000-r/min
[100 V/200 V]	15m	R88A-CAKA015S <u>NEW</u>	Servomotors of 50 to 750W. When a
3,000-r/min Servomotors of 50 to 750 W	20 m	R88A-CAKA020S <u>NEW</u>	Servomotor with a brake is used, it is necessary to use both a PowerCable
	30 m	R88A-CAKA030S <u>NEW</u>	for Servomotors without brakes and
	40 m	R88A-CAKA040S <u>NEW</u>	Power cable.
	50 m	R88A-CAKA050S <u>NEW</u>	
	3 m	R88A-CAGB003S	R88A-CAGB003B
	5 m	R88A-CAGB005S	R88A-CAGB005B
[200 V]	10 m	R88A-CAGB010S	R88A-CAGB010B
3,000-r/min Servomotors of 1 to 2 kW	15 m	R88A-CAGB015S	R88A-CAGB015B
2,000-r/min Servomotors of 1 to 2 kW	20 m	R88A-CAGB020S	R88A-CAGB020B
1,000-r/min Servomotors of 900 W	30 m	R88A-CAGB030S	R88A-CAGB030B
	40 m	R88A-CAGB040S	R88A-CAGB040B
	50 m	R88A-CAGB050S	R88A-CAGB050B
	3 m	R88A-CAGB003S	R88A-CAKF003B <u>NEW</u>
	5 m	R88A-CAGB005S	R88A-CAKF005B <u>NEW</u>
[400 V]	10 m	R88A-CAGB010S	R88A-CAKF010B <u>NEW</u>
3,000-r/min Servomotors of 750 W to 2 kW	15 m	R88A-CAGB015S	R88A-CAKF015B <u>NEW</u>
2,000-r/min Servomotors of 400 W to 2 kW	20 m	R88A-CAGB020S	R88A-CAKF020B <u>NEW</u>
1,000-r/min Servomotors of 900 W	30 m	R88A-CAGB030S	R88A-CAKF030B <u>NEW</u>
	40 m	R88A-CAGB040S	R88A-CAKF040B <u>NEW</u>
	50 m	R88A-CAGB050S	R88A-CAKF050B <u>NEW</u>
	3 m	R88A-CAGD003S	R88A-CAGD003B
	5 m	R88A-CAGD005S	R88A-CAGD005B
[200 V] [400 V]	10 m	R88A-CAGD010S	R88A-CAGD010B
3,000-r/min Servomotors of 3 to 5 kW	15 m	R88A-CAGD015S	R88A-CAGD015B
2,000-r/min Servomotors of 3 to 5 kW	20 m	R88A-CAGD020S	R88A-CAGD020B
1,000-r/min Servomotors of 2 to 3 kW	30 m	R88A-CAGD030S	R88A-CAGD030B
	40 m	R88A-CAGD040S	R88A-CAGD040B
	50 m	R88A-CAGD050S	R88A-CAGD050B

Brake Cable

Specifications		Standard Cables		
		Model		
	3 m	R88A-CAKA003B <u>NEW</u>		
	5 m	R88A-CAKA005B <u>NEW</u>		
[100 V][200 V]	10 m	R88A-CAKA010B <u>NEW</u>		
3,000-r/min	15 m	R88A-CAKA015B <u>NEW</u>		
Servomotors of	20 m	R88A-CAKA020B <u>NEW</u>		
50 to 750 W	30 m	R88A-CAKA030B <u>NEW</u>		
	40 m	R88A-CAKA040B <u>NEW</u>		
	50 m	R88A-CAKA050B <u>NEW</u>		

Encoder Cable

Specifications		Standard Cables
Specification	15	Model
	3 m	R88A-CRKA003C <u>NEW</u>
	5 m	R88A-CRKA005C <u>NEW</u>
	10 m	R88A-CRKA010C <u>NEW</u>
[100 V/200 V] 3,000-r/min	15 m	R88A-CRKA015C <u>NEW</u>
Servomotors of 50 to 750 W	20 m	R88A-CRKA020C <u>NEW</u>
30 to 730 W	30 m	R88A-CRKA030C <u>NEW</u>
	40 m	R88A-CRKA040C <u>NEW</u>
	50 m	R88A-CRKA050C <u>NEW</u>
[200 V]	3 m	R88A-CRKC003N <u>NEW</u>
3,000-r/min Servomotors of 1	5 m	R88A-CRKC005N <u>NEW</u>
to 5 kW [400 V]	10 m	R88A-CRKC010N <u>NEW</u>
3,000-r/min	15 m	R88A-CRKC015N <u>NEW</u>
Servomotors of 750 W to 5 kW	20 m	R88A-CRKC020N <u>NEW</u>
[200 V] [400 V] 2,000-r/min	30 m	R88A-CRKC030N <u>NEW</u>
Servomotors	40 m	R88A-CRKC040N <u>NEW</u>
1,000-r/min Servomotors	50 m	R88A-CRKC050N <u>NEW</u>

<Robot Cables>

Power cable

Cunsifications		Without brake	With brake
Specifications		Model	Model
	3 m	R88A-CAKA003SR <u>NEW</u>	
	5 m	R88A-CAKA005SR <u>NEW</u>	Note: There are separate connectors for
	10 m	R88A-CAKA010SR <u>NEW</u>	power and brakes for 3,000-r/min
[100 V/200 V]	15 m	R88A-CAKA015SR <u>NEW</u>	Servomotors of 50 to 750W. When a Servomotor with a brake is used, it is
3,000-r/min Servomotors of 50 to 750 W	20 m	R88A-CAKA020SR <u>NEW</u>	necessary to use both a PowerCable
	30 m	R88A-CAKA030SR <u>NEW</u>	for Servomotors without brakes and
	40 m	R88A-CAKA040SR <u>NEW</u>	Power cable.
	50 m	R88A-CAKA050SR <u>NEW</u>	
	3 m	R88A-CAGB003SR	R88A-CAGB003BR
	5 m	R88A-CAGB005SR	R88A-CAGB005BR
[200 V]	10 m	R88A-CAGB010SR	R88A-CAGB010BR
3,000-r/min Servomotors of 1 to 2 kW	15 m	R88A-CAGB015SR	R88A-CAGB015BR
2,000-r/min Servomotors of 1 to 2 kW	20 m	R88A-CAGB020SR	R88A-CAGB020BR
1,000-r/min Servomotors of 900 W	30 m	R88A-CAGB030SR	R88A-CAGB030BR
	40 m	R88A-CAGB040SR	R88A-CAGB040BR
	50 m	R88A-CAGB050SR	R88A-CAGB050BR
	3 m	R88A-CAGB003SR	R88A-CAKF003BR <u>NEW</u>
	5 m	R88A-CAGB005SR	R88A-CAKF005BR <u>NEW</u>
[400 V]	10 m	R88A-CAGB010SR	R88A-CAKF010BR <u>NEW</u>
3,000-r/min Servomotors of 750 W to 2 kW	15 m	R88A-CAGB015SR	R88A-CAKF015BR <u>NEW</u>
2,000-r/min Servomotors of 400 W to 2 kW	20 m	R88A-CAGB020SR	R88A-CAKF020BR <u>NEW</u>
1,000-r/min Servomotors of 900 W	30 m	R88A-CAGB030SR	R88A-CAKF030BR <u>NEW</u>
	40 m	R88A-CAGB040SR	R88A-CAKF040BR <u>NEW</u>
	50 m	R88A-CAGB050SR	R88A-CAKF050BR <u>NEW</u>
	3 m	R88A-CAGD003SR	R88A-CAGD003BR
	5 m	R88A-CAGD005SR	R88A-CAGD005BR
[200 V] [400 V]	10 m	R88A-CAGD010SR	R88A-CAGD010BR
3,000-r/min Servomotors of 3 to 5 kW	15 m	R88A-CAGD015SR	R88A-CAGD015BR
2,000-r/min Servomotors of 3 to 5 kW	20 m	R88A-CAGD020SR	R88A-CAGD020BR
1,000-r/min Servomotors of 2 to 3 kW	30 m	R88A-CAGD030SR	R88A-CAGD030BR
	40 m	R88A-CAGD040SR	R88A-CAGD040BR
	50 m	R88A-CAGD050SR	R88A-CAGD050BR

Brake Cable

Specifications		Robot Cables	
		Model	
	3 m	R88A-CAKA003BR <u>NEW</u>	
	5 m	R88A-CAKA005BR <u>NEW</u>	
[100 V] [200 V] 3,000-r/min Servomotors of 50 to 750 W	10 m	R88A-CAKA010BR <u>NEW</u>	
	15 m	R88A-CAKA015BR <u>NEW</u>	
	20 m	R88A-CAKA020BR <u>NEW</u>	
	30 m	R88A-CAKA030BR <u>NEW</u>	
	40 m	R88A-CAKA040BR <u>NEW</u>	
	50 m	R88A-CAKA050BR <u>NEW</u>	

Encoder Cable

Specifications		Robot Cables	
		Model	
	3 m	R88A-CRKA003CR <u>NEW</u>	
	5 m	R88A-CRKA005CR <u>NEW</u>	
[400]//000]/I	10 m	88A-CRKA010CR <u>NEW</u>	
[100 V/200 V] 3,000-r/min	15 m	R88A-CRKA015CR <u>NEW</u>	
Servomotors of 50 to 750 W	20 m	R88A-CRKA020CR <u>NEW</u>	
30 to 730 W	30 m	R88A-CRKA030CR <u>NEW</u>	
	40 m	R88A-CRKA040CR <u>NEW</u>	
	50 m	R88A-CRKA050CR <u>NEW</u>	
[200 V]	3 m	R88A-CRKC003NR <u>NEW</u>	
3,000-r/min Servomotors of 1	5 m	R88A-CRKC005NR <u>NEW</u>	
to 5 kW [400 V]	10 m	R88A-CRKC010NR <u>NEW</u>	
3,000-r/min	15 m	R88A-CRKC015NR <u>NEW</u>	
Servomotors of 750 W to 5 kW [200 V] [400 V]	20 m	R88A-CRKC020NR <u>NEW</u>	
	30 m	R88A-CRKC030NR <u>NEW</u>	
2,000-r/min Servomotors	40 m	R88A-CRKC040NR <u>NEW</u>	
1,000-r/min Servomotors	50 m	R88A-CRKC050NR NEW	

■ Cable/Connector

Absolute Encoder Battery Cable

Name	Length	model
Absolute Encoder Battery Cable (Battery not included)	0.3 m	R88A-CRGD0R3C
Absolute Encoder Battery Cable (One R88A-BAT01G Battery included)	0.3 m	R88A-CRGD0R3C-BS

Absolute Encoder Backup Battery

Specifications	Model
2,000 mA • 3.6 V	R88A-BAT01G

Servo Drive Connectors (General-purpose Input)

Name	Connects to	Model
Control I/O Connector	CN1	R88A-CNU11C

Analog Monitor Cable

Name	Length	Model		
Analog Monitor Cable	1 m	R88A-CMK001S <u>NEW</u>		

Servo Drive Connectors (common)

Name	Connects to	Model
Encoder Connector	CN2	R88A-CNW01R
External Scale Connector	CN4	R88A-CNK41L NEW
Safety Connector	CN8	R88A-CNK81S NEW

Servo Drive Connectors (MECHATROLINK-II Communications)

Name	Connects to	Model
Control I/O Connector	CN1	R88A-CNU01C

Servomotor Connector

Name	Applicable Servomotor Capacity	Model
	[100 V/200 V]	R88A-CNK02R NEW
Servomotor Connector for Encoder Cable	3,000 r/min (50 to 750 W) [100 V/200 V]	
	3,000 r/min (1 to 5 kW) [400 V]	R88A-CNK04R <u>NEW</u>
Power Cable Connector	3,000 r/min, 2,000 r/min, 1,000 r/min	R88A-CNK11A <u>NEW</u>
	(750 W max.)	
Brake Cable Connector	(750 W max.)	R88A-CNK11B NEW

■ Control Cables

● General-purpose Inputs (Analog input/Pulse train input type) Connection Cables (for CN1)

Specifications		The number	1	Model
Name	Unit	of axes	Length	Woder
			1 m	XW2Z-100J-G9
		for 1 axis	5 m	XW2Z-500J-G9
Position Control Unit (High-speed type)	CJ1W-NC234/434		10 m	XW2Z-10MJ-G9
or Line-driver output	CJ I W-NC234/434		1 m	XW2Z-100J-G1
		for 2 axis	5 m	XW2Z-500J-G1
			10 m	XW2Z-10MJ-G1
	CJ1W-NC214/NC414	for 1 axis	1 m	XW2Z-100J-G13
Position Control Unit (High-speed type)		ior i axis	3 m	XW2Z-300J-G13
or Open collector output		for 2 axis	1 m	XW2Z-100J-G5
			3 m	XW2Z-300J-G5
	CS1W-MC221 (-V1)	for 1 axis	1 m	R88A-CPG001M1
			2 m	R88A-CPG002M1
			3 m	R88A-CPG003M1
Control Cables			5 m	R88A-CPG005M1
or Motion Control Unit	CS1W-MC421 (-V1)		1 m	R88A-CPG001M2
		for 2 axis	2 m	R88A-CPG002M2
		IUI Z AXIS	3 m	R88A-CPG003M2
			5 m	R88A-CPG005M2
General-purpose Control Cables with	0-bl f 0 0	-	1 m	R88A-CPG001S
Connector on One End	Cables for General-purpose Controllers		2 m	R88A-CPG002S

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

Name		Specifications	Model	
			Length 0.5 m	XW2Z-C50X
			Length 1.0 m	XW2Z-100X
	Connection		Length 2.0 m	XW2Z-200X
Connector Terminal Block Cables Connector Terminal Block Conversion Unit	Normal wiring	Length 3.0 m	XW2Z-300X	
		Length 5.0 m	XW2Z-500X	
		Length 10.0 m	XW2Z-010X	
	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	

Control Cables (for Connector Terminal Block/CN1)

Name	Specifications	Model	
Connector Terminal Block Cables		Length 1.0 m	XW2Z-100J-B24
Connector Terminal Block Cables		Length 2.0 m	XW2Z-200J-B24
	Conversion Unit for General-purpose Controllers (M3 screws)	Through type	XW2B-50G4
Connector Terminal Block Conversion Unit	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

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 CJ1M-CPU21/CPU22/CPU23	for 1 axis	XW2B-20J6-8A
1 01 03 1W-0F 02 1/0F 022/0F023	for 2 axis	XW2B-40J6-9A
For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	for 2 axis	XW2B-80J7-12A
For CQM1H-PLB21	for 1 axis	XW2B-20J6-3B

Servo Relay Unit cable (for Servo Drive/CN1)

Specifications	Length	Model
Position Control Unit: For CJ1W-NC 3 For CS1W/C200HW-NC	1 m	XW2Z-100J-B25
(XW2B-20J6-1B, XW2B-40J6-2B) For CQM1H-PLB21 (XW2B-20J6-3B)	2 m	XW2Z-200J-B25
For CJ1M-CPU21/CPU22/CPU23	1 m	XW2Z-100J-B31
(XW2B-20J6-8A, XW2B-40J6-9A)	2 m	XW2Z-200J-B31
For FQM1-MMA22 (Analog output)	1 m	XW2Z-100J-B27
(XW2B-80J7-12A)	2 m	XW2Z-200J-B27
For FQM1-MMP22 (Pulse train output)	1 m	XW2Z-100J-B26
(XW2B-80J7-12A)	2 m	XW2Z-200J-B26

Servo Relay Unit cable (Position Control Unit)

Specifications		The number of axes	Length	Model
CJ1W line-driver output type		for 1 avia		XW2Z-050J-A18
For CJ1W-NC133 (XW2B-20J6-1B)	for 1 axis	1 m	XW2Z-100J-A18	
CJ1W line-driver output type		for 2 axis	0.5 m	XW2Z-050J-A19
For CJ1W-NC233/NC433 (XW2B-40J6-	·2B)	IUI Z dxIS	1 m	XW2Z-100J-A19
CS1W line-driver output type		for 1 axis	0.5 m	XW2Z-050J-A10
For CS1W-NC133 (XW2B-20J6-1B)		IOI I axis	1 m	XW2Z-100J-A10
CS1W line-driver output type		for 2 axis	0.5 m	XW2Z-050J-A11
or CS1W-NC233/NC433 (XW2B-40J6	-2B)	101 2 4313	1 m	XW2Z-100J-A11
CJ1W open collector output type		for 1 axis	0.5 m	XW2Z-050J-A14
For CJ1W-NC113 (XW2B-20J6-1B)		TOT T AXIS	1 m	XW2Z-100J-A14
CJ1W open collector output type		for 2 axis	0.5 m	XW2Z-050J-A15
For CJ1W-NC213/NC413 (XW2B-40J6-	·2B)	TOT E UNIO	1 m	XW2Z-100J-A15
CS1W/C200HW open collector output to For CS1W-NC113	ype	for 1 axis	0.5 m	XW2Z-050J-A6
For C200HW-NC113 (XW2B-20J6-1B)		ioi i axis	1 m	XW2Z-100J-A6
CS1W/C200HW open collector output type For CS1W-NC213/NC413		for 2 axis	0.5 m	XW2Z-050J-A7
For C200HW-NC213/NC413 (XW2B-40	J6-2B)	IOI Z AXIS	1 m	XW2Z-100J-A7
CJ1M open collector output type		for 1 axis	0.5 m	XW2Z-050J-A33
or CJ1M-CPU21/CPU22/CPU23 XW2B-20J6-8A, XW2B-40J6-9A)			1 m	XW2Z-100J-A33
	General-		0.5 m	XW2Z-050J-A28
	purpose I/O	for 2 axis	1 m	XW2Z-100J-A28
For FQM1-MMA22 (Analog output)	(26 pin)		2 m	XW2Z-200J-A28
XW2B-80J7-12A)	0		0.5 m	XW2Z-050J-A31
	Special I/O (40 pin)	for 2 axis	1 m	XW2Z-100J-A31
	(10 piii)		2 m	XW2Z-200J-A31
	General-		0.5 m	XW2Z-050J-A28
	purpose I/O	for 2 axis	1 m	XW2Z-100J-A28
or FQM1-MMP22 (Pulse train output)	(26 pin)		2 m	XW2Z-200J-A28
XW2B-80J7-12A)	Canadal I/O		0.5 m	XW2Z-050J-A30
	Special I/O (40 pin)	for 2 axis	1 m	XW2Z-100J-A30
	(40 pin)		2 m	XW2Z-200J-A30
For CQM1H-PLB21		for 1 axis	0.5 m	XW2Z-050J-A3
(XW2B-20J6-3B)	וטו ו מגוס	1 m	XW2Z-100J-A3	

MECHATROLINK-II Communications

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

Name		Model	Yaskawa model number	
Name		Length	(OMRON model number)	raskawa model number
		0.5 m	FNY-W6003-A5	JEPMC-W6003-A5
		1.0 m	FNY-W6003-01	JEPMC-W6003-01
MECHATROLINK-II Cables (with ring core and USB connector on both ends)		3.0 m	FNY-W6003-03	JEPMC-W6003-03
		5.0 m	FNY-W6003-05	JEPMC-W6003-05
(Will Tilling Colo and Cob Colinicator on St	our orido)	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.)

Control Cables

Name			Model
	Specifications		
Connector Terminal Block Cables		Length 1.0 m	XW2Z-100J-B33
Connector Terminal Block Cables		Length 2.0 m	XW2Z-200J-B33
	Conversion Unit for General-purpose Controllers (M3 screws)	Through type	XW2B-20G4
Connector Terminal Block	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

■ 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-RR22047S
500 W 20 Ω	R88A-RR50020S

Reactors

Specifica	Model		
General-purpose Inputs	MECHATROLINK-II Communications	Wodei	
R88D-KTA5L/-KT01H	R88D-KNA5L-ML2/-KN01H-ML2	3G3AX-DL2002	
R88D-KT01L/-KT02H	R88D-KN01L-ML2/-KN02H-ML2	3G3AX-DL2004	
R88D-KT02L/-KT04H	R88D-KN02L-ML2/-KN04H-ML2	3G3AX-DL2007	
R88D-KT04L/-KT08H/-KT10H	R88D-KN04L-ML2/-KN08H-ML2/ -KN10H-ML2	3G3AX-DL2015	
R88D-KT15H	R88D-KN15H-ML2	3G3AX-DL2022	
R88D-KT08H/-KT10H/-KT15H/-KT06F/ -KT10F/-KT15F	R88D-KN08H-ML2/-KN10H-ML2/ -KN15H-ML2	3G3AX-DL2025	
R88D-KT20H/-KT30H/-KT20F/-KT30F	R88D-KN20H-ML2/-KN30H-ML2	3G3AX-AL2055	
R88D-KT50H/-KT50F	R88D-KN50H-ML2	3G3AX-AL2110	

Mounting Brackets (L Brackets for Rack Mounting)

Specificati	Model	
General-purpose Inputs	Woder	
R88D-KTA5L/-KT01L/-KT01H/-KT02H	R88D-KNA5L-ML2/-KN01L-ML2/ -KN01H-ML2/-KN02H-ML2	R88A-TK01K <u>NEW</u>
R88D-KT02L/-KT04H	R88D-KN02L-ML2/-KN04H-ML2	R88A-TK02K NEW
R88D-KT04L/-KT08H	R88D-KN04L-ML2/-KN08H-ML2	R88A-TK03K NEW
R88D-KT10H/KT15H	R88D-KN10H-ML2/-KN15H-ML2	R88A-TK04K NEW

■ Support Software (CX-One/CX-Drive)

		Specifications			
Product name			Number of licenses	Media	Model
CX-One FA Integrated Tool Package Ver. 3.□		The CX-One is a package that integrates Support Software for OMRON PLCs and components. CX-One runs on the following OS. OS: Windows 2000 (Service Pack 3 or higher), XP, or	1 license	CD	CXONE-AL01C-V3
		Vista CX-One Ver.3.□ includes CX-Drive Ver.1.□. For details, refer to the CX-One catalog (Cat. No. R134).	T HOCHSC	DVD	CXONE-AL01D-V3
		ing model numbers).		
	CX-Drive Ver.1.□	Application software to set and control data for Inverters and Servos. OS: Windows 2000 (Service Pack 3 or higher), XP, or Vista	1 license	CD	WS02-DRVC1

^{*1.} Site licenses are available for the CX-One (3, 10, 30, or 50 licenses).
*2. Before ordering the software on a DVD, be sure that your computer and drive are compatible with the DVD format.

Combination table

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

<Cylinder Type>

● 3,000-r/min servomotors

Dawer Cumply	Servo Drive	e Model Numbers		Servomotor Model Nun	nbers
Power Supply Voltage	General-purpose Inputs	MECHATROLINK-II	Output	With incremental encoder	With absolute encoder
	R88D-KTA5L	R88D-KNA5L-ML2	50 W	R88M-K05030H-□	R88M-K05030T-□
Single-phase	R88D-KT01L	R88D-KN01L-ML2	100 W	R88M-K10030L-□	R88M-K10030S-□
100 to 115 VAC	R88D-KT02L	R88D-KN02L-ML2	200 W	R88M-K20030L-□	R88M-K20030S-□
	R88D-KT04L	R88D-KN04L-ML2	400 W	R88M-K40030L-□	R88M-K40030S-□
	R88D-KT01H	R88D-KN01H-ML2	50 W	R88M-K05030H-□	R88M-K05030T-□
	R88D-KT01H	R88D-KN01H-ML2	100 W	R88M-K10030H-□	R88M-K10030T-□
Single-phase/	R88D-KT02H	R88D-KN02H-ML2	200 W	R88M-K20030H-□	R88M-K20030T-□
three-phase	R88D-KT04H	R88D-KN04H-ML2	400 W	R88M-K40030H-□	R88M-K40030T-□
200 to 240 VAC	R88D-KT08H	R88D-KN08H-ML2	750 W	R88M-K75030H-□	R88M-K75030T-□
	R88D-KT15H	R88D-KN15H-ML2	1 kW	R88M-K1K030H-□	R88M-K1K030T-□
	R88D-KT15H	R88D-KN15H-ML2	1.5 kW	R88M-K1K530H-□	R88M-K1K530T-□
	R88D-KT20H	R88D-KN20H-ML2	2 kW	R88M-K2K030H-□	R88M-K2K030T-□
Three-phase	R88D-KT30H	R88D-KN30H-ML2	3 kW	R88M-K3K030H-□	R88M-K3K030T-□
200 to 240 VAC	R88D-KT50H	R88D-KN50H-ML2	4 kW	R88M-K4K030H-□	R88M-K4K030T-□
	R88D-KT50H	R88D-KN50H-ML2	5 kW	R88M-K5K030H-□	R88M-K5K030T-□
	R88D-KT10F	R88D-KN10F-ML2	750 W	R88M-K75030F-□	R88M-K75030C-□
	R88D-KT15F	R88D-KN15F-ML2	1 kW	R88M-K1K030F-□	R88M-K1K030C-□
	R88D-KT15F	R88D-KN15F-ML2	1.5 kW	R88M-K1K530F-□	R88M-K1K530C-□
Three-phase 400 to 480 VAC	R88D-KT20F	R88D-KN20F-ML2	2 kW	R88M-K2K030F-□	R88M-K2K030C-□
יייייייייייייייייייייייייייייייייייייי	R88D-KT30F	R88D-KN30F-ML2	3 kW	R88M-K3K030F-□	R88M-K3K030C-□
	R88D-KT50F	R88D-KN50F-ML2	4 kW	R88M-K4K030F-□	R88M-K4K030C-□
	R88D-KT50F	R88D-KN50F-ML2	5 kW	R88M-K5K030F-□	R88M-K5K030C-□

● 2,000-r/min servomotors

Power Supply	Servo Drive	e Model Numbers		Servomotor Model Nun	nbers
Voltage	General-purpose Inputs	MECHATROLINK-II	Output	With incremental encoder	With absolute encoder
Single-phase/	R88D-KT10H	R88D-KN10H-ML2	1 kW	R88M-K1K020H-□	R88M-K1K020T-□
three-phase 200 to 240 VAC	R88D-KT15H	R88D-KN15H-ML2	1.5 kW	R88M-K1K520H-□	R88M-K1K520T-□
	R88D-KT20H	R88D-KN20H-ML2	2 kW	R88M-K2K020H-□	R88M-K2K020T-□
Three-phase	R88D-KT30H	R88D-KN30H-ML2	3 kW	R88M-K3K020H-□	R88M-K3K020T-□
200 to 240 VAC	R88D-KT50H	R88D-KN50H-ML2	4 kW	R88M-K4K020H-□	R88M-K4K020T-□
	R88D-KT50H	R88D-KN50H-ML2	5 kW	R88M-K5K020H-□	R88M-K5K020T-□
	R88D-KT06F	R88D-KN06F-ML2	400 W	R88M-K40020F-□	R88M-K40020C-□
	R88D-KT06F	R88D-KN06F-ML2	600 W	R88M-K60020F-□	R88M-K60020C-□
	R88D-KT10F	R88D-KN10F-ML2	1 kW	R88M-K1K020F-□	R88M-K1K020C-□
Three-phase	R88D-KT15F	R88D-KN15F-ML2	1.5 kW	R88M-K1K520F-□	R88M-K1K520C-□
400 to 480 VAC	R88D-KT20F	R88D-KN20F-ML2	2 kW	R88M-K2K020F-□	R88M-K2K020C-□
	R88D-KT30F	R88D-KN30F-ML2	3 kW	R88M-K3K020F-□	R88M-K3K020C-□
	R88D-KT50F	R88D-KN50F-ML2	4 kW	R88M-K4K020F-□	R88M-K4K020C-□
	R88D-KT50F	R88D-KN50F-ML2	5 kW	R88M-K5K020F-□	R88M-K5K020C-□

● 1,000-r/min servomotors

Power Supply	Servo Driv	e Model Numbers	Servomotor Model Numbers			
Voltage	General-purpose Inputs	MECHATROLINK-II	Output	With incremental encoder	With absolute encoder	
Single-phase/	R88D-KT15H	R88D-KN15H-ML2	900 W	R88M-K90010H-□	R88M-K90010T-□	
Three-phase	R88D-KT30H	R88D-KN30H-ML2	2 kW	R88M-K2K010H-□	R88M-K2K010T-□	
200 to 240 VAC	R88D-KT50H	R88D-KN50H-ML2	3 kW	R88M-K3K010H-□	R88M-K3K010T-□	
	R88D-KT15F	R88D-KN15F-ML2	900 W	R88M-K90010F-□	R88M-K90010C-□	
Three-phase 400 to 480 VAC	R88D-KT30F	R88D-KN30F-ML2	2 kW	R88M-K2K010F-□	R88M-K2K010C-□	
	R88D-KT50F	R88D-KN50F-ML2	3 kW	R88M-K3K010F-□	R88M-K3K010C-□	

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-HPG11B09050BU (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- HPG32A33750FB□ (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- HPG32A33750FB□	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-HPG32A053K0B (Also used with R88M-K5K020)	R88G-HPG32A112K0SB (Also used with R88M-K2K020)	R88G-HPG50A213K0B (Also used with R88M-K3K030)	R88G-HPG50A332K0SB (Also used with R88M- K2K020)
R88M-K2K010□	R88G-HPG32A052K0TB□	R88G-HPG50A112K0TB□	R88G-HPG65A205K0SB (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)

Controller Combinations

Servo Relay Units and Cables

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

osition Control Unit Position Control Unit Cable		Se	rvo Relay Unit	Servo Drive Cable		
CQM1H-PLB21		XW2Z-□□□J-A3	X	N2B-20J6-3B		
CS1W-NC113		VIAIOZ ==== 1.40		W2B-20J6-1B		
C200HW-NC113 XW2Z-□□□J-A6			^	WZB-20J0-1B		
CS1W-NC213						
CS1W-NC413		XW2Z-□□□J-A7	V.	W2B-40J6-2B		
C200HW-NC213		AVV2Z-LLLJ-A7	^	W2B-40J0-2B		
C200HW-NC413						
CS1W-NC133		XW2Z-□□□J-A10	X	W2B-20J6-1B	XW2Z-□□□J-B25	
CS1W-NC233	,	XW2Z-□□□J-A11	V.	W2B-40J6-2B	XVV2ZJ-B23	
CS1W-NC433	Π .	AVVZZ-LILIJ-ATT	^	W2B-40J0-2B		
CJ1W-NC113		XW2Z-□□□J-A14	X	W2B-20J6-1B		
CJ1W-NC213	VM07 000 LA45		V.	W2B-40J6-2B		
CJ1W-NC413	Π .	XW2Z-□□J-A15		W2B-40J0-2B		
CJ1W-NC133		XW2Z-□□□J-A18	X	W2B-20J6-1B		
CJ1W-NC233	,	XW2Z-□□□J-A19 XW2B-40J6-2B				
CJ1W-NC433	☐ ·	AVV2Z-11111-A19	^	W2B-40J0-2B		
CJ1M-CPU21			For 1 axis	XW2B-20J6-8A		
CJ1M-CPU22	7	XW2Z-□□□J-A33)(III 0 10 10 0 1	XW2Z-□□□J-B31	
CJ1M-CPU23			For 2 axis	XW2B-40J6-9A		
FQM1-MMP22	General- purpose I/O	XW2Z-□□□J-A28			XW2Z-□□□J-B26	
	Special I/O	XW2Z-□□□J-A30	VI.	V2B-80J7-12A		
FQM1-MMA22	General- purpose I/O	Υ(Λ/2/- 1-Δ/28		V2D-8UJ/-12A	XW2Z-□□□J-B27	
	Special I/O	XW2Z-□□□J-A31				

Note: 1. Insert the cable length into the boxes in the model number ($\Box\Box\Box$). 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).

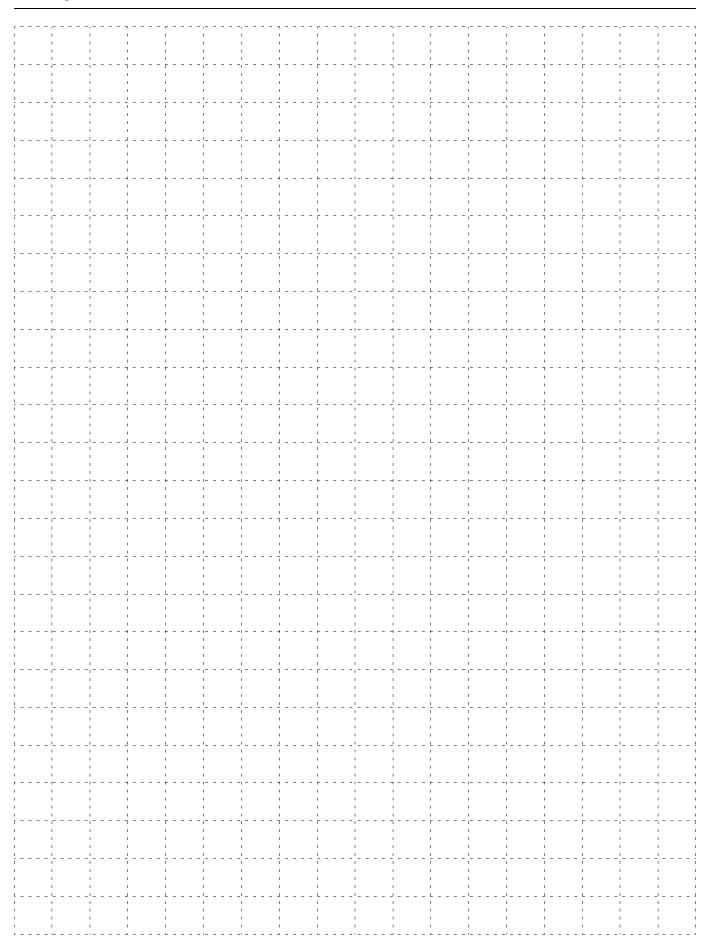
Specifications	The number of axes	Model
For CJ1W-NC214/-NC414 (open collector output type)	1 axis	XW2Z-□□□J-G13
For CJ1W-NC214/-NC414 (open collector output type)	2 axis	XW2Z-□□□J-G5
For CJ1W-NC234/-NC434 (line-driver output type)	1 axis	XW2Z-□□□J-G9
For CJ1W-NC234/-NC434 (line-driver output type)	2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

Motion Control Unit Cables

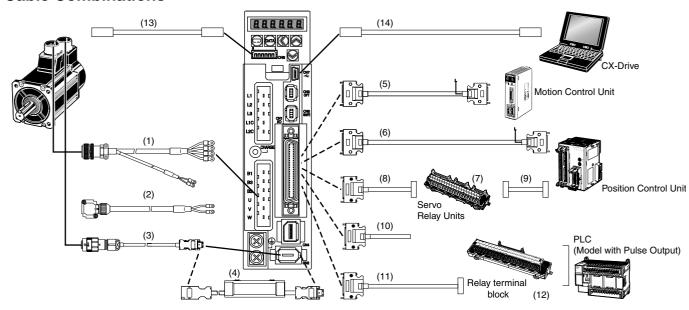
There are special cables for 1-axis and 2-axis Motion Control Unit operation. Select the appropriate cable for the number of axes to be connected.

Motion Control Unit		Cable	Remarks		
CS1W-MC221-V1	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.		
CS1W-MC421-V1	For 2 axis		Example model number for 2-m 1-axis cable: R88A-CPG002M1		

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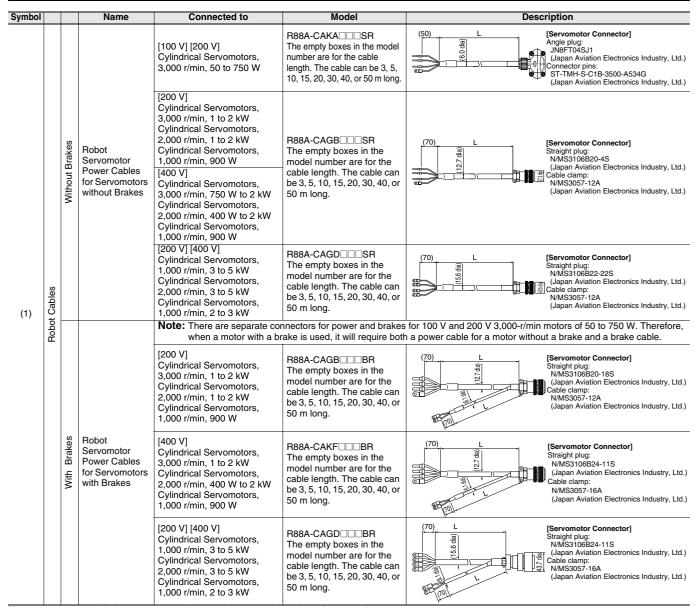


Cable Combinations



Servomotor Power Cables (For CNB)

Symbol			Name	Connected to	Model	Description
				[100 V] [200 V] Cylindrical Servomotors, 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.	(50) L [Servomotor Connector] Angle plug: JN8FT04SJ1 (Japan Aviation Electronics Industry, Ltd.) ST-TMH-S-C1B-3500-A534G (Japan Aviation Electronics Industry, Ltd.)
		Without Brakes	Standard Servomotor Power Cables for Servomotors without Brakes	[200 V] Cylindrical Servomotors, 3,000 r/min, 1 to 2 kW Cylindrical Servomotors, 2,000 r/min, 1 to 2 kW Cylindrical Servomotors, 1,000 r/min, 900 W [400 V] Cylindrical Servomotors, 3,000 r/min, 750 W to 2 kW Cylindrical Servomotors, 2,000 r/min, 400 W to 2 kW Cylindrical Servomotors, 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.	(70) L [Servomotor Connector] Straight plug: N/MS3106B20-4S (Japan Aviation Electronics Industry, Ltd.) N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.)
(1)	l Cables			[200 V] [400 V] Cylindrical Servomotors, 3,000 r/min, 3 to 5 kW Cylindrical Servomotors, 2,000 r/min, 3 to 5 kW Cylindrical Servomotors, 1,000 r/min, 2 to 3 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.	(70) L [Servomotor Connector] Straight plug: N/MS3106B22-22S (Japan Aviation Electronics Industry, Ltd.) (Japan Aviation Electronics Industry, Ltd.) (Japan Aviation Electronics Industry, Ltd.)
(1)	Standard			•	•	s for 100 V and 200 V 3,000-r/min motors of 50 to 750 W. Therefore, a power cable for a motor without a brake and a brake cable.
	Sta			[200 V] Cylindrical Servomotors, 3,000 r/min, 1 to 2 kW Cylindrical Servomotors, 2,000 r/min, 1 to 2 kW Cylindrical Servomotors, 1,000 r/min, 900 W	R88A-CAGB DB 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.	(70) L Straight plug: N/MS3106B20-18S (Japan Aviation Electronics Industry, Ltd. Cable clamp: N/MS3057-12A (Japan Aviation Electronics Industry, Ltd.
		With Brakes	Standard Servomotor Power Cables for Servomotors with Brakes	[400 V] Cylindrical Servomotors, 3,000 r/min, 1 to 2 kW Cylindrical Servomotors, 2,000 r/min, 400 W to 2 kW Cylindrical Servomotors, 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.	(70) L Straight plug: N/MS3106B24-11S (Japan Aviation Electronics Industry, Ltd Cable clamp: N/MS3057-16A (Japan Aviation Electronics Industry, Ltd
				[200 V] [400 V] Cylindrical Servomotors, 3,000 r/min, 3 to 5 kW Cylindrical Servomotors, 2,000 r/min, 3 to 5 kW Cylindrical Servomotors, 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

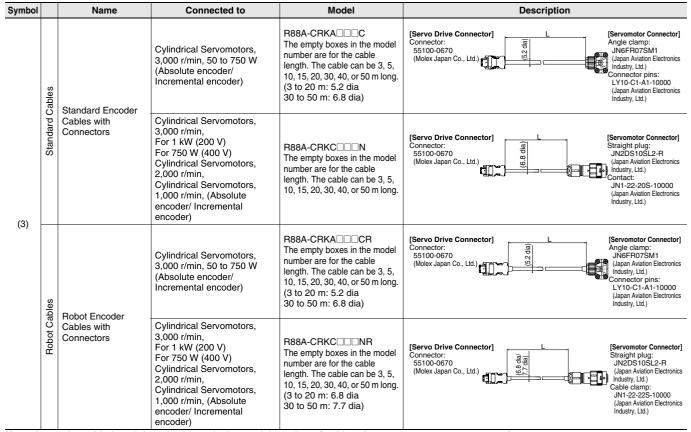


Note: Insert the cable length into the boxes in the model number of cables. (3 m: 003, 5 m: 005, 10 m: 010)

Brake Cables

Symbol		Name	Connected to	Model	Description
(2)	Standard Cables	Brake Cables (Standard Cables)	[100 V] [200 V] Cylindrical Servomotors, 3,000 r/min, 50 to 750 W	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)	(70) L [Servomotor Connector] Angle plug: JN4FT02SJ1-R (Japan Aviation Electronics Industry, Ltd.) Connector pins: ST-TMH-S-C1B-3500-(A534G) (Japan Aviation Electronics Industry, Ltd.)
(2)	Robot Cables	Brake Cables (Robot Cables)	[100 V] [200 V] Cylindrical Servomotors, 3,000 r/min, 50 to 750 W	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)	(70) L [Servomotor Connector] Angle plug: JN4FT02SJ1-R (Japan Aviation Electronics Industry, Ltd.) Connector pins: ST-TMH-S-C1B-3500-(A534G) (Japan Aviation Electronics Industry, Ltd.)

Encoder Cables (for CN2)



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 not included	0.3 m	R88A-CRGD0R3C	43.5 300 43.5	
	Battery Cable	One R88A-BAT01G Battery included.	0.3 m	R88A-CRGD0R3C-BS	t = 12 Battery holder $t = 12$	
	Absolute Encoder Backup Battery	-		R88A-BAT01G	-	

Control Cables (for CN1)

Symbol		Name	Connected to		Model
(5)		Control Cables for Motion Control Units	Motion Control Units (for all SYSMAC CS1/C200H)	For 1 axis/ For 2 axis	R88A-CPG \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	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.
(6)	Control C		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.
(6)			Open collector output type (High-speed type) for CJ1W-NC214/D88NC414	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/D88NC414	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.

Symbol		Na	me	Connected to		Model
				Position Control Unit: For CJ1W-NC113/NC133 For CS1W-NC113/NC133 (For C200HW-NC113)	For 1 axis	XW2B-20J6-1B
(7)		Servo Relay Units		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
				5 0 1111 0 D 110 1/0 D 1100/0 D 1100	For 1 axis	XW2B-20J6-8A
				For CJ1M-CPU21/CPU22/CPU23	For 2 axis	XW2B-40J6-9A
				For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	For 2 axis	XW2B-80J7-12A
			_	For CQM1H-PLB21	For 1 axis	XW2B-20J6-3B
				Position Control Unit: For CJ1W-NC□□3, CS1W/C200HW-NC□□□ (XW2B-20J6-1B, XW2B-40J6-2B) For CQM1H-PLB21 (XW2B-20J6-3B)		XW2Z-□□□J-B25 The empty boxes in the model number are for the cable length. The cable can be 1, or 2 m long.
(8)			Servo Relay Unit Cables for	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.
(0)		Cappe	Servo Drives	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.
	on Cables			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.
	s/Connecti		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.
	Servo Relay Units/Connection Cables			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.
	Serv	Connection Cables		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.
(9)				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.
			CS1W/C200HW open collector output type for CS1W-NC113 For 1 axis for C200HW-NC113		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.	
				CS1W/C200HW open collector output type for CS1W-NC213/NC413 for C200HW-NC213/NC413	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.
				CSW/C200HW open collector output type for CJ1M-CPU21/CPU22/CPU23	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.

Symbol		Nan	ne		Connected to		Model
(9)	Servo Relay Units/Connection Cables	Connection Cables	Servo Relay Unit Cables for Position Control Units	For FQM1-MMA22 (Analog output) For FQM1-MMP22 (Pulse train output)	General-purpose I/O (26 pin)	For 2 axis	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-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
				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 CQM1H-PLB21 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 1 m long.	
(10)	General-purpose Control Cables with Connector on One End			Cables for General-purpose Controllers			R88A-CPG The empty boxes in the model number are for the cable length. The cable can be 0.5, or 1 m long.
(11)	For Connector Terminal Block		Connector Terminal Block Cables	Cables 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.	
(12)				Conversion Unit for General-purpose Controllers (M3 screws)	Through type		XW2B-50G4
			Connector- Terminal Block Conversion Units	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

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

Monitor Connector (for CN5)

Symbol	Name	Lengths	Model
(13)	Analog Monitor Cable	1 m	R88A-CMK001S

Communications Connector (for CN7)

Symbol	Name	Description		
(14)	USB communications cable	General purpose USB cable can be used		

Connectors

Connectors	Name	Model
CN1	Control I/O Connector	R88A-CNU11C
CN2	Encoder Connector	R88A-CNW01R
CN4	External scale connector	R88A-CNK41L
CN8	Safety connector	R88A-CNK81S

Servomotor Connector

Connectors	Name	Connected to	Model
		3,000 r/min, 50 to 750 W	R88A-CNK02R
-	Motor connector for encoder cable	3,000 r/min, 50 to 750 W (200 V)/750 W to 5 kW (400 V) 2,000 r/min, 1,000 r/min	R88A-CNK04R
_	Power cable connector	750 W max. (100 V/200 V)	R88A-CNK11A
_	Brake cable connector	750 W max. (100 V/200 V)	R88A-CNK11B

About Manuals

Please read the relevant manuals of OMNUC G5-Series

English Cat. No.	Japanese Cat. No.	Туре	Name
1571	SBCE-357	R88D-KT/R88M-K	OMNUC G5-SERIES AC SERVOMOTOR AND SERVO DRIVE USER'S MANUAL
W453	SBCE-337	CXONE-AL□C/D-V□ WS02-DRVC01	CX-Drive OPERATION MANUAL

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Related product catalog



Programmable Controller SYSMAC CJ Series Position Control Units (High-Speed type)

CJ1W-NC214/414 CJ1W-NC234/434

Cat. No. R156



AC Servomotors/ Servo Drives

OMNUC G

Cat. No. 1814



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Note: Do not use this document to operate the Unit.

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