PRODUCT NEWS

Correction Reissue

Product Discontinuation Notices

OMRON

July 2, 2012

Servomotors / Servo Drivers

No. 2011098E(3)

Discontinuation Notice of SMARTSTEP A series

REQUEST

There was modification in portion of product discontinuation notices of Product News No.2011098E of March 2011 issue. What we have changed is [Combination Servo Driver and Servomotor] and [List of the discontinuation model].
Please abolish old edition, replace the latest No.2011098E(3).

Product Discontinuation	Recommended Replacement
AC Servo Driver **R7D-AP[]**	AC Servo Driver **R7D-BP[]** **R88D-GT[]**
AC Servomotor **R7M-A[]**	AC Servomotor **R88M-G[]**

Discontinuation date : The end of March, 2012

Note. Discontinuation date of cables : The end of March, 2019

Caution on recommended replacement

It must need to change from SMARTSTEP A series to SMARTSTEP 2 series or G series.

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
R7D-BP[] R88D-GT[] R88M-G[]	*	--	--	--	**	--	--

** : Fully compatible
* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

OMRON Corporation
Industrial Automation Company

No.B-120388

Product Discontinuation and recommended replacement

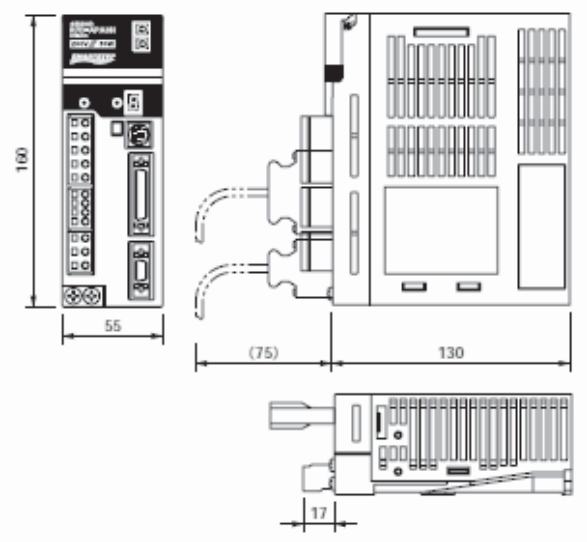
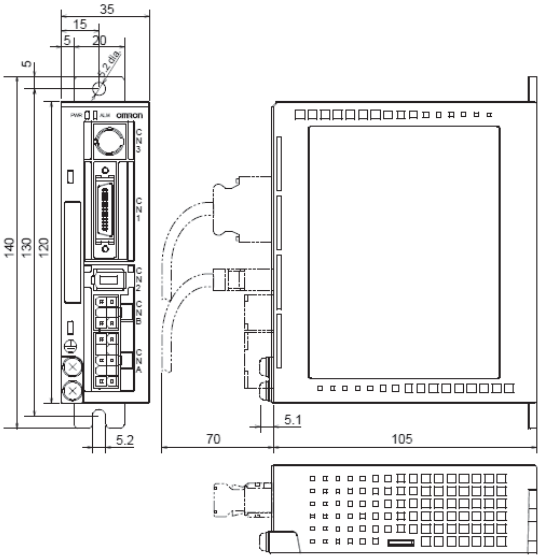
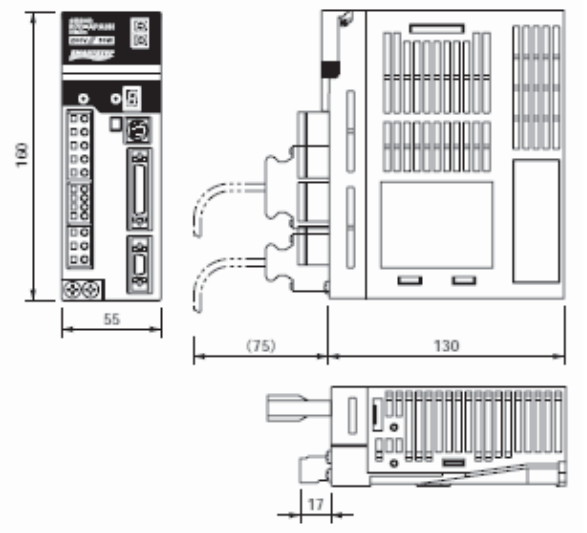
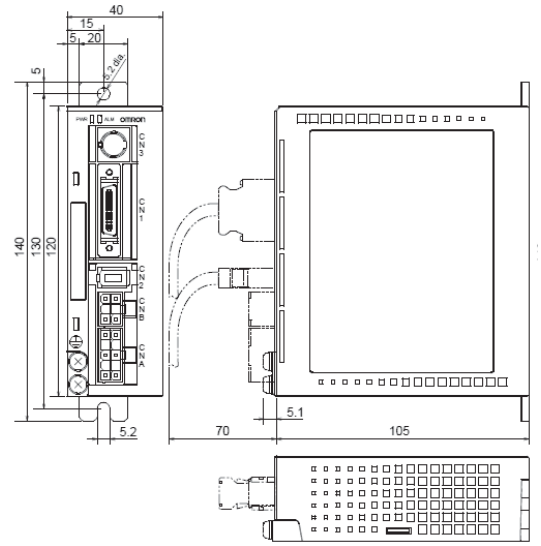
Product discontinuation	Recommended replacement
R7D-AP01H	R7D-BP01H
R7M-A10030	R88M-G10030H
R7M-AP10030	R88M-GP10030H
R7D-AP08H	R88D-GT08H
R7M-A75030	R88M-G75030H
R7M-AP75030	R88M-G75030H

Please check 'List of the discontinuation model' and 'Combination Servo Driver and Servomotor' for each recommended replacement.
This information is described on end of this sheet.

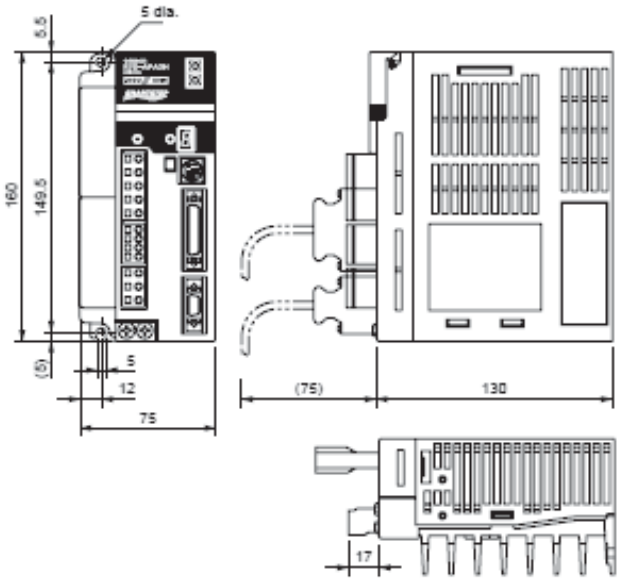
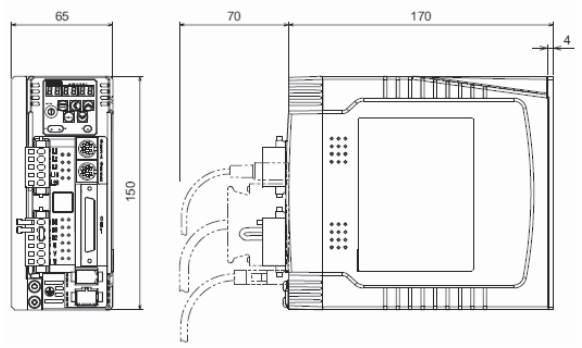
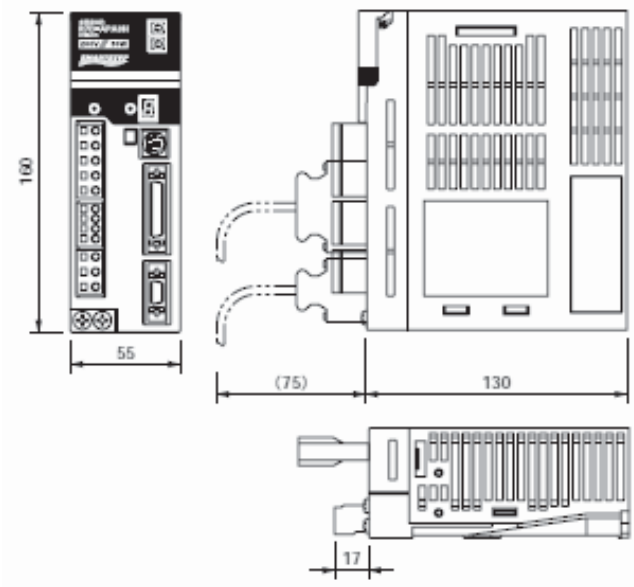
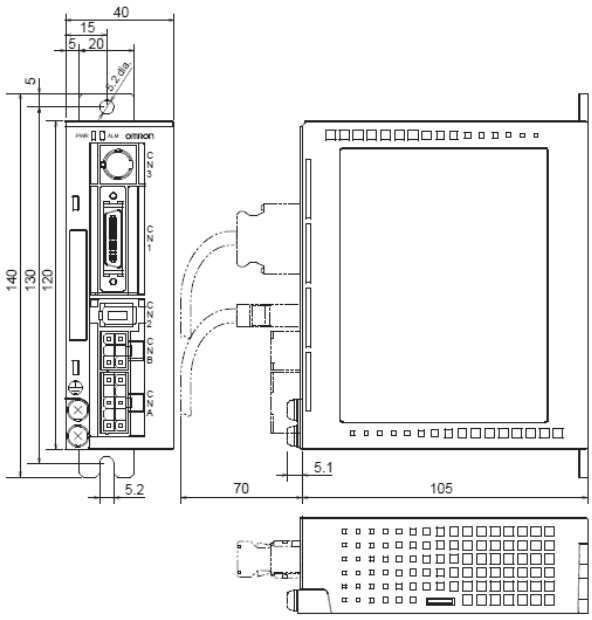
Body color

Product discontinuation	Recommendable replacement
R7D-AP[]: Ivory White R7M-A[]: Black	R7D-BP[]: Ivory White R88D-GT[] : Ivory White R88M-G[] : Metallic

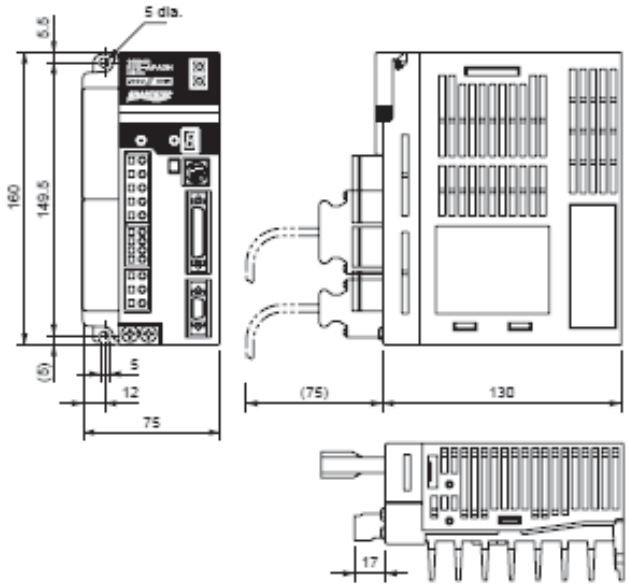
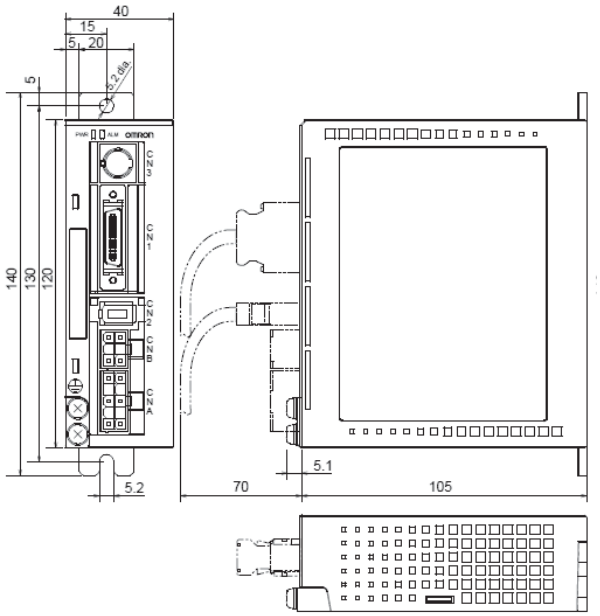
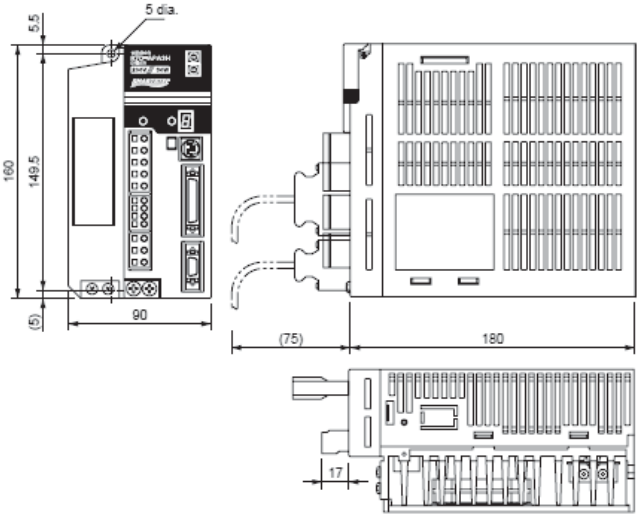
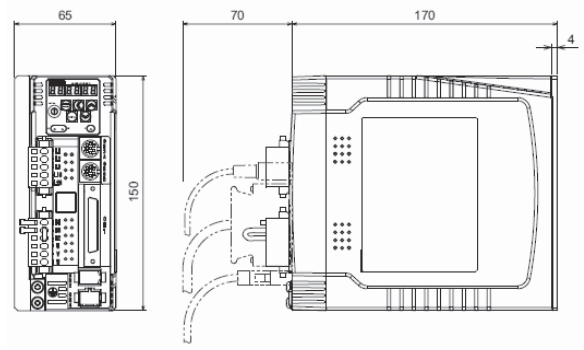
Dimensions

Product discontinuation	Recommendable replacement
R7D-APA3L/-APA5L/-AP01L/ -APA3H/-APA5H-/AP01H	R7D-BPA5L/-BP01L/ -BP01H
	
R7D-AP02L	R7D-BP02L
	

Dimensions

Product discontinuation	Recommendable replacement
R7D-AP04L  	R88D-GT04L 
R7D-AP02H  	R7D-BP02HH 

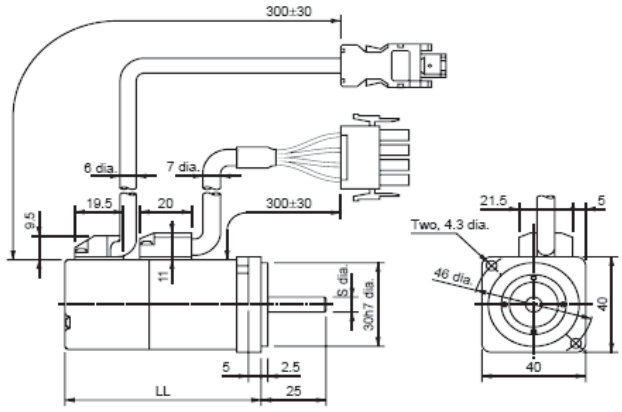
Dimensions

Product discontinuation	Recommendable replacement
R7D-AP04H  	R7D-BP04H 
R7D-AP08H  	R88D-GT08H 

Dimensions

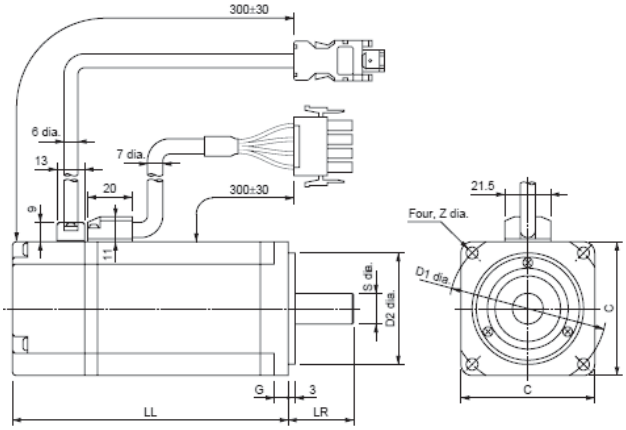
Product discontinuation

R7M-A03030/-A05030/-A10030



Model	Dimensions (mm)				
	LL	S	b	h	t1
R7M-A03030-□	69.5	6h6	2	2	1.2
R7M-A05030-□	77	6h6	2	2	1.2
R7M-A10030-□	94.5	8h6	3	3	1.8

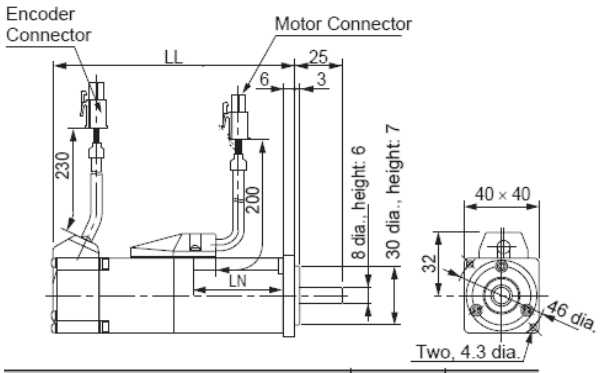
R7M-A20030/-A40030/-A75030



Model	Dimensions (mm)								
	LL	LR	C	D1	D2	G	Z	S	QK
R7M-A20030-□	96.5	30	60	70	50h7	6	5.5	14h6	20
R7M-A40030-□	124.5	30	60	70	50h7	6	5.5	14h6	20
R7M-A75030-□	145	40	80	90	70h7	8	7	16h6	30

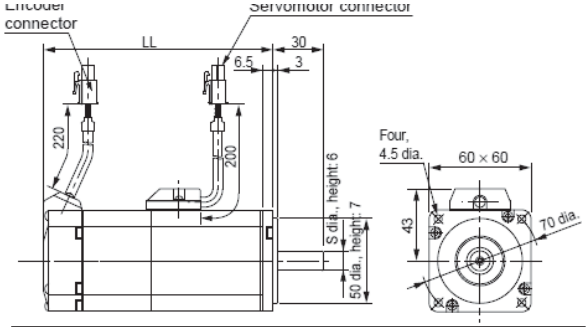
Recommendable replacement

R88M-G05030H/-G10030[]



Model	LL (mm)	LN (mm)
R88M-G05030H	72	26.5
R88M-G10030□ *2	92	46.5

R88M-G20030[]/-G40030[]/-G75030H

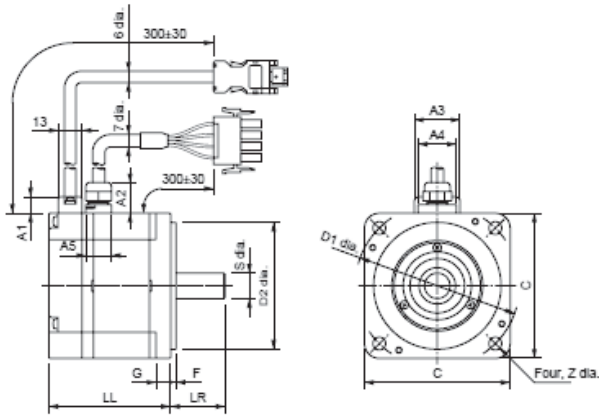


Model	Dimensions (mm)													
	LL	LR	S	D1	D2	C	G	KL1	Z	QK	b	h	M	t1	L
R88M-G20030□	79.5	30	11	70	50	60	6.5	43	4.5	18	4h9	4	M4	2.5	8
R88M-G40030□	99		14							22.5	5h9	5	M5	3	10
R88M-G75030□	112.2	35	19	90	70	80	8	53	6	22	6h9	6		3.5	

Dimensions

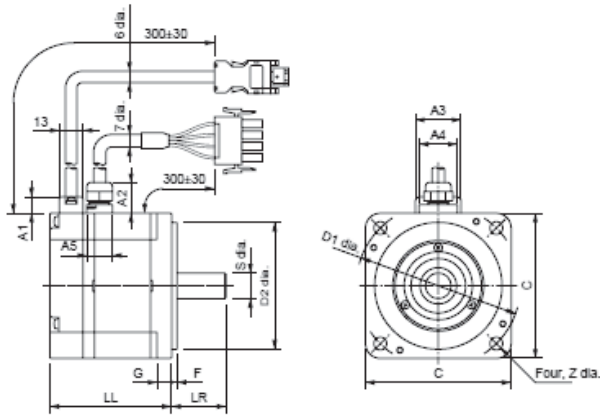
Product discontinuation	Recommendable replacement

R7M-AP10030/-AP20030/-AP40030



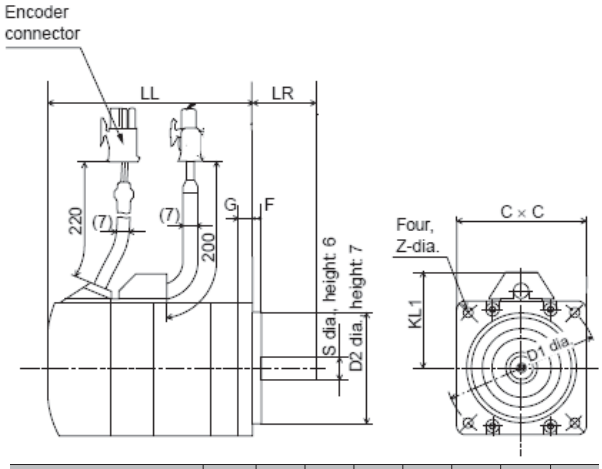
Model	Dimensions (mm)																
	Basic servomotor dimensions								With key (shaft end dimensions)				Cable outlet dimensions				
	LL	LR	C	D1	D2	F	G	Z	S	QK	b	h	t1	A1	A2	A3	A4	A5
R7M-AP10030-□	62	25	60	70	50h7	3	6	5.5	8h6	14	3	3	1.8	9	18	25	21	14
R7M-AP20030-□	67	30	80	90	70h7	3	8	7	14h6	16	5	5	3					
R7M-AP40030-□	87																	

R7M-AP75030



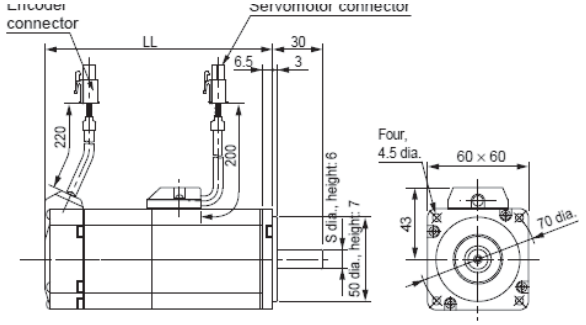
Model	Dimensions (mm)																
	Basic servomotor dimensions								With key (shaft end dimensions)				Cable outlet dimensions				
	LL	LR	C	D1	D2	F	G	Z	S	QK	b	h	t1	A1	A2	A3	A4	A5
R7M-AP75030-□	86.5	40	120	145	110h7	3.5	10	10	16h6	22	5	5	3	9	28	25	38	19

R88M-GP10030[]/-GP20030[]/-GP40030[]



Model	LL	LR	S	D1	D2	C	F	G
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
R88M-GP10030□	60.5	25	8	70	50	60	3	7
R88M-GP20030□	67.5	30	11	90	70	80	5	8
R88M-GP40030□	82.5	30	14	90	70	80	5	8

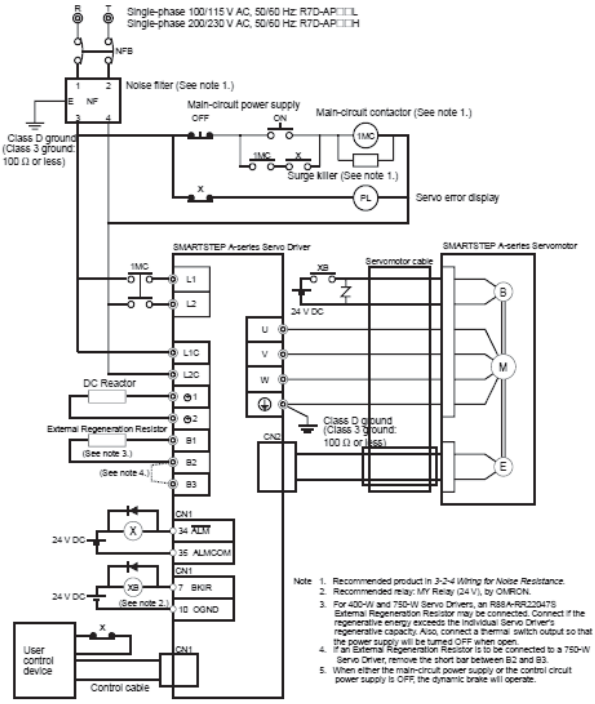
R88M-G75030H

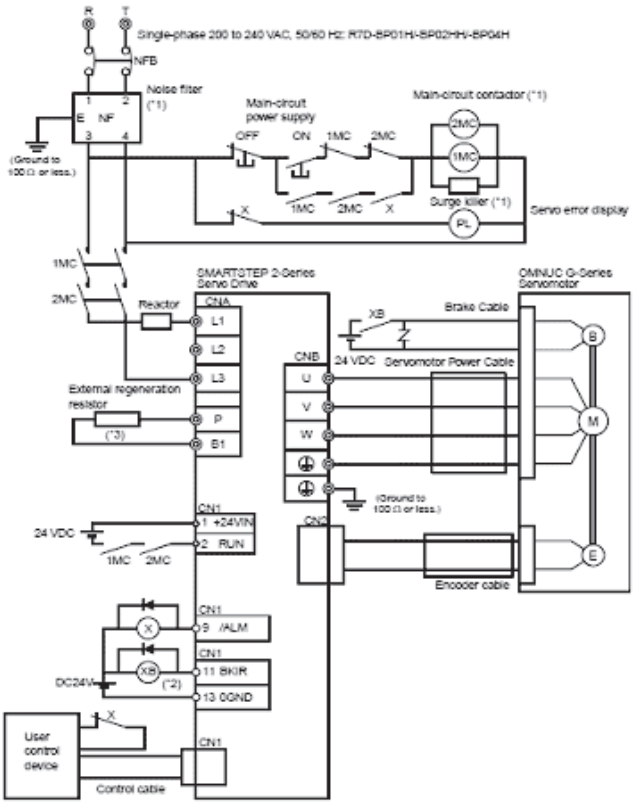


Model	Dimensions (mm)													
	LL	LR	S	D1	D2	C	G	KL1	Z	QK	b	h	M	t1	L
R88M-G75030□	112.2	35	19	90	70	80	8	53	6	22	6h9	6	M5	3.5	10

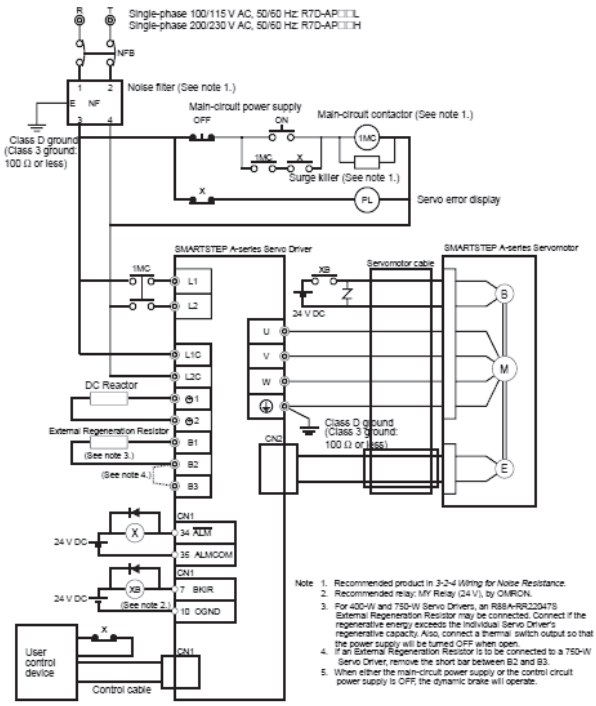
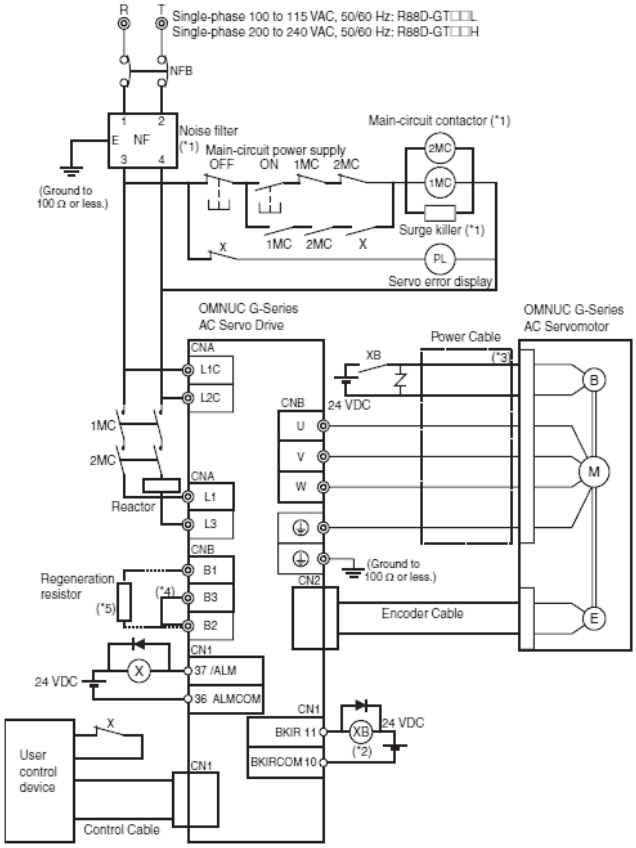
Wire Connection

Product discontinuation	Recommendable replacement
Connecting to Peripheral Device R7D-APA3L/-APA5L/-AP01L/-AP02L -APA3H/-APA5H/-AP01H/-AP02H/-AP04H	**Connecting to Peripheral Device** R7D-BPA5L/-BP01L/-BP02L/ -BP01H/-BP02HH/-BP04H

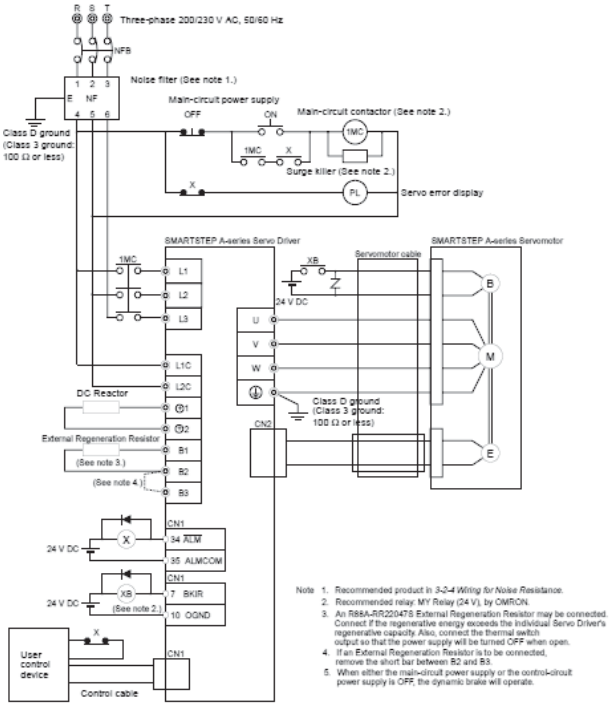
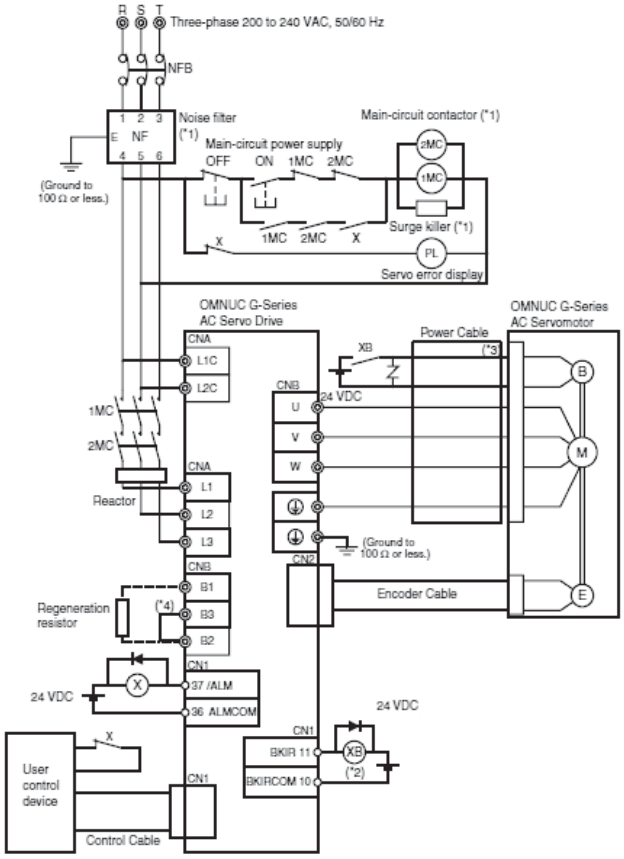




Wire Connection

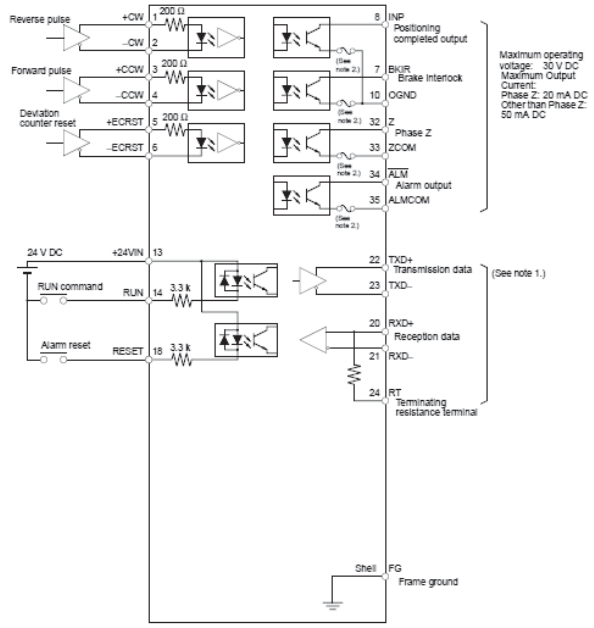
Product discontinuation	Recommendable replacement
Connecting to Peripheral Device R7D-AP04L/-AP08H Single-phase input  	**Connecting to Peripheral Device** R88D-GT04L/-GT08H Single-phase input 

Wire Connection

Product discontinuation	Recommendable replacement
Connecting to Peripheral Device R7D-AP08H Three-phase input  	**Connecting to Peripheral Device** R88D-GT08H Three-phase input 

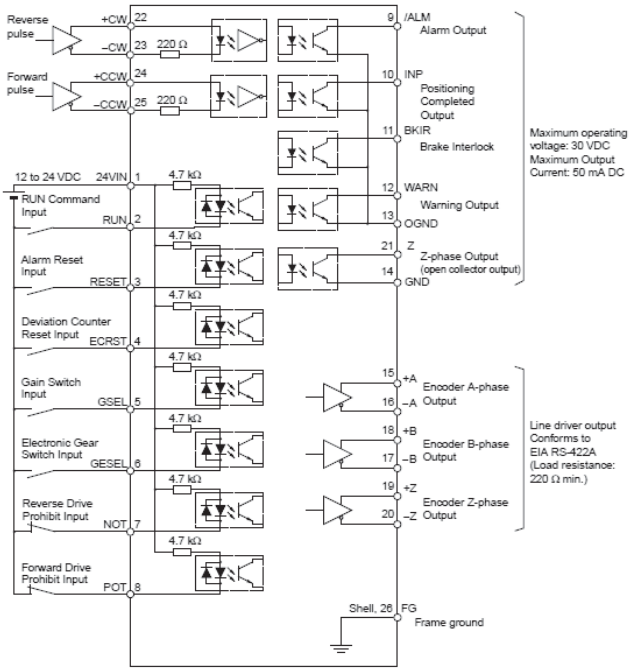
Wire Connection

Product discontinuation	Recommendable replacement
Control I/O Signal Connections and External Signal Processing. R7D-APA3L/-APA5L/-AP01L/-AP02L -APA3H/-APA5H/-AP01H/-AP02H/-AP04H	**Control I/O Signal Connections and External Signal Processing.** R7D-BPA5L/-BP01L/-BP02L/ -BP01H/-BP02HH/-BP04H



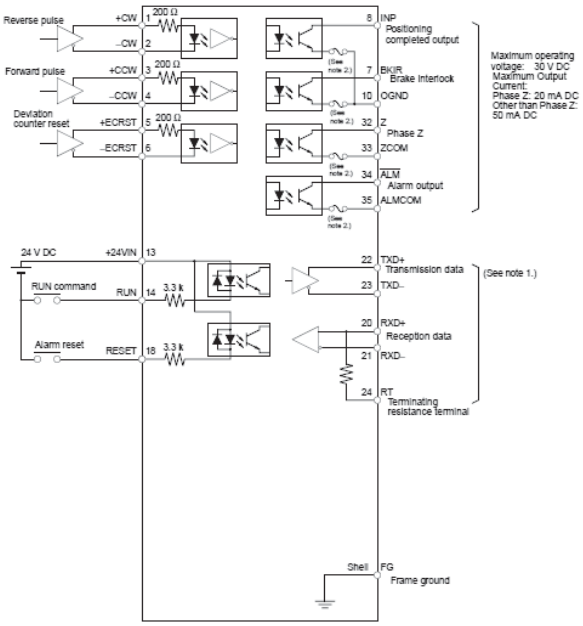
Note 1. Interface for RS-422:
- Applicable line driver: T.I. SN75174, MC3487 or equivalent
- Applicable line receiver: T.I. SN75175, MC3486 or equivalent

Note 2. Automatic-reset fuses are used for output protection. If overcurrent causes the fuse to operate, current will not flow, and after a fixed period of time it will automatically reset.



Wire Connection

Product discontinuation	Recommendable replacement
Connecting to Peripheral Device R7D-AP04L/-AP08H	**Connecting to Peripheral Device** R88D-GT04L/-GT08H



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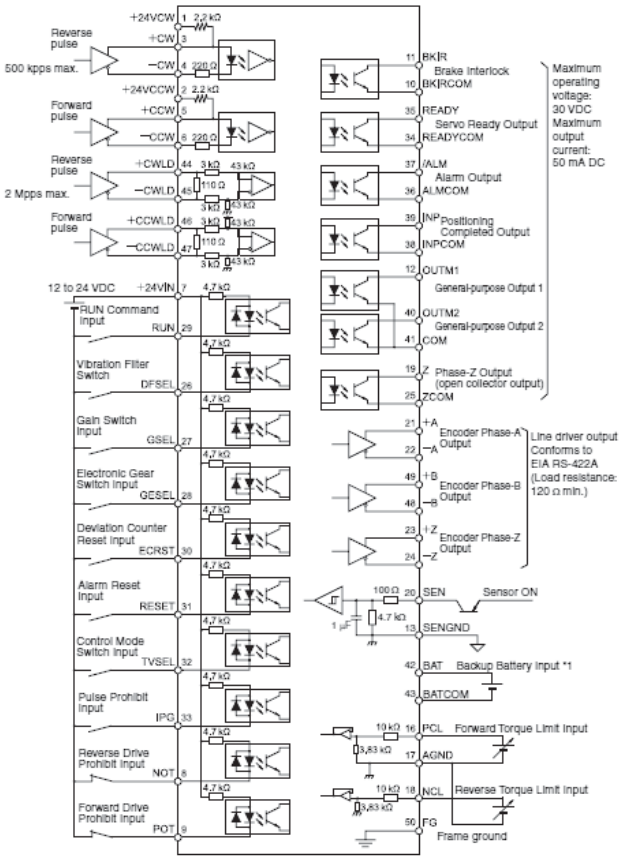
Note 2. Automatic-reset fuses are used for output protection. If overcurrent causes the fuse to operate, current will not flow, and after a fixed period of time it will automatically reset.



Characteristics

Product discontinuation	Recommendable replacement
R7D-AP[]L Input power supply voltage: Main circuit power supply voltage: Single-phase 100 to 115VAC, 50/60Hz Control circuit power supply voltage: Single-phase 100 to 115VAC, 50/60Hz	**R7D-BPA5L/-BP01L/-BP02L** Input power supply voltage: Single-phase 100 to 115VAC, 50/60Hz **R88D-GT04L** Main circuit power supply voltage: Single-phase 100 to 115VAC, 50/60Hz Control circuit power supply voltage: Single-phase 100 to 115VAC, 50/60Hz
R7D-APA3H/-APA5H/ **-AP01H/-AP02H/-AP04H** Input power supply voltage: Main circuit power supply voltage: Single-phase 200 to 230VAC, 50/60Hz Control circuit power supply voltage: Single-phase 200 to 230VAC, 50/60Hz	**R7D-BP01H/-BP02H/-BP04H** Input power supply voltage: Single-phase 200 to 240VAC, 50/60Hz
R7D-AP08H Input power supply voltage: Main circuit power supply voltage: Single-phase and three-phase 200 to 230VAC, 50/60Hz Control circuit power supply voltage: Single-phase 200 to 230VAC, 50/60Hz	**R88D-GT08H** Main circuit power supply voltage: Both single-phase and three-phase 200 to 240VAC, 50/60Hz Control circuit power supply voltage: Single-phase 200 to 240VAC, 50/60Hz
R7D-AP[] Item: Specifications Ambient operating temperature: 0 to 55°C Ambient operating humidity: 90% max. (with no condensation) Ambient storage temperature: –20 to 85°C Ambient storage humidity: 90% max. (with no condensation) Insulation resistance: Between power line terminals and case: 0.5 MΩ min. (at 500 V DC) Dielectric strength: Between power line terminals and case: 1,500 V AC for 1 min at 50/60 Hz; Between each control signal and case: 500 V AC for 1 min	**R7D-BP[]/ R88D-GT[]** Item: Specifications Ambient operating temperature, Ambient operating humidity: 0 to 55°C, 90% RH max. (with no condensation) Ambient storage temperature, Ambient storage humidity: –20 to 65°C, 90% RH max. (with no condensation) Insulation resistance: Between power supply/power line terminals and frame ground: 0.5 MΩ. min. (at 500 VDC) Dielectric strength: Between power supply/power line terminals and frame ground: 1,500 VAC for 1 min at 50/60 Hz; Between each control signal and frame ground: 500 VAC for 1 min

Operation ratings

Product discontinuation	Recommendable replacement
Maximum response frequency for command pulse R7D-AP[] : 250kpps	**Maximum response frequency for command pulse** R7D-BP[] : 500kpps R88D-GT08H Line Driver input : 2Mpps Open-collector input : 500kpps

Combination Servo Driver and Servomotor

Input power voltage	Product discontinuation			Recommended replacement		
	Wattage	Servo Driver R7D	Servomotor R7M	Wattage	Servo Driver	Servomotor R88M
100 to 115VAC	30W	-APA3L	-A03030*	50W	R7D-BPA5L	-G05030H*
	50W	-APA5L	-A05030*	50W	R7D-BPA5L	-G05030H*
	100W	-AP01L	-A10030*	100W	R7D-BP01L	-G10030L*
	200W	-AP02L	-A20030*	200W	R7D-BP02L	-G20030L*
	400W	-AP04L	-A40030*	400W	R88D-GT04L	-G40030L*
	100W	-AP01L	-AP10030*	100W	R7D-BP01L	-GP10030L*
	200W	-AP02L	-AP20030*	200W	R7D-BP02L	-GP20030L*
	400W	-AP04L	-AP40030*	400W	R88D-GT04L	-GP40030L*
200 to 230VAC	30W	-APA3H	-A03030*	50W	R7D-BP01H	-G05030H*
	50W	-APA5H	-A05030*	50W	R7D-BP01H	-G05030H*
	100W	-AP01H	-A10030*	100W	R7D-BP01H	-G10030H*
	200W	-AP02H	-A20030*	200W	R7D-BP02HH	-G20030H*
	400W	-AP04H	-A40030*	400W	R7D-BP04H	-G40030H*
	750W	-AP08H	-A75030*	750W	R88D-GT08H	-G75030H*
	100W	-AP01H	-AP10030*	100W	R7D-BP01H	-GP10030H*
	200W	-AP02H	-AP20030*	200W	R7D-BP02HH	-GP20030H*
	400W	-AP04H	-AP40030*	400W	R7D-BP04H	-GP40030H*
	750W	-AP08H	-AP75030*	750W	R88D-GT08H	-G75030H*

' * ' mark added the servomotor model express shaft end specification and brake option.
Detail information is described in the list of discontinuation model on end of this sheet.

Product discontinuation Servomotor	Recommended replacement Servomotor	Applicable load Inertia (kg· m^2)		Rated torque (N· m)		Momentary maximum torque (N· m)	
		R7M-A	R88M-G	R7M-A	R88M-G	R7M-A	R88M-G
R7M-A03030	R88M-G05030H	5.10 E-05	1.90 E-04	0.095	0.16	0.29	0.48
R7M-A05030	R88M-G05030H	6.60 E-05	1.90 E-04	0.159	0.16	0.48	0.48
R7M-A10030	R88M-G10030[]	1.08 E-04	1.53 E-04	0.318	0.32	0.96	0.95
R7M-A20030	R88M-G20030[]	3.57 E-04	4.20 E-04	0.637	0.64	1.91	1.78
R7M-A40030	R88M-G40030[]	5.61 E-04	7.80 E-04	1.27	1.3	3.82	3.60
R7M-A75030	R88M-G75030H	1.33 E-03	1.74 E-03	2.39	2.4	7.1	7.05
R7M-AP10030	R88M-GP10030L	1.63 E-04	1.80 E-04	0.318	0.32	0.96	0.85
R7M-AP20030	R88M-GP20030L	3.14 E-04	6.80 E-04	0.637	0.64	1.91	1.86
R7M-AP40030	R88M-GP40030[]	5.21 E-04	1.28 E-03	1.27	1.3	3.82	3.60
R7M-AP10030	R88M-GP10030H	1.63 E-04	1.80 E-04	0.318	0.32	0.96	0.90
R7M-AP20030	R88M-GP20030H	3.14 E-04	6.80 E-04	0.637	0.64	1.91	1.82
R7M-AP75030	R88M-G75030H	2.11 E-03	1.74 E-03	2.39	2.4	7.1	7.05

* List of the discontinuation model AC Servomotors / Drivers / Peripheral devices

Servo Drivers : Date of discontinuation March, 2012

Series	Specification		Product Discontinuation
SMARTSTEP A series	100VAC	30W	R7D-APA3L
		50W	R7D-APA5L
		100W	R7D-AP01L
		200W	R7D-AP02L
		400W	R7D-AP04L
	200VAC	30W	R7D-APA3H
		50W	R7D-APA5H
		100W	R7D-AP01H
		200W	R7D-AP02H
		400W	R7D-AP04H
		750W	R7D-AP08H

Servomotors : Date of discontinuation March, 2012

L enters for 100V and H enters for 200V into ' * ' mark of the recommended replacement.

Series	Specification				Product Discontinuation	Recommended replacement
SMART STEP A series	Cylinder type motors	Without Key Straight shaft	Without Brake	30W	R7M-A03030	R88M-G05030H
				50W	R7M-A05030	R88M-G05030H
				100W	R7M-A10030	R88M-G10030*
				200W	R7M-A20030	R88M-G20030*
				400W	R7M-A40030	R88M-G40030*
				750W	R7M-A75030	R88M-G75030H
		With Key Straight shaft	Without Brake	30W	R7M-A03030-S1	R88M-G05030H-S2
				50W	R7M-A05030-S1	R88M-G05030H-S2
				100W	R7M-A10030-S1	R88M-G10030*-S2
				200W	R7M-A20030-S1	R88M-G20030*-S2
				400W	R7M-A40030-S1	R88M-G40030*-S2
				750W	R7M-A75030-S1	R88M-G75030H-S2
		Without Key Straight shaft	With Brake	30W	R7M-A03030-B	R88M-G05030H-B
				50W	R7M-A05030-B	R88M-G05030H-B
				100W	R7M-A10030-B	R88M-G10030*-B
				200W	R7M-A20030-B	R88M-G20030*-B
				400W	R7M-A40030-B	R88M-G40030*-B
				750W	R7M-A75030-B	R88M-G75030H-B
		With Key Straight shaft	With Brake	30W	R7M-A03030-BS1	R88M-G05030H-BS2
				50W	R7M-A05030-BS1	R88M-G05030H-BS2
				100W	R7M-A10030-BS1	R88M-G10030*-BS2
				200W	R7M-A20030-BS1	R88M-G20030*-BS2
				400W	R7M-A40030-BS1	R88M-G40030*-BS2
				750W	R7M-A75030-BS1	R88M-G75030H-BS2
	Flat type motors	Without Key Straight shaft	Without Brake	100W	R7M-AP10030	R88M-GP10030*
				200W	R7M-AP20030	R88M-GP20030*
				400W	R7M-AP40030	R88M-GP40030*
				750W	R7M-AP75030	R88M-G75030H
		With Key Straight shaft	Without Brake	100W	R7M-AP10030-S1	R88M-GP10030*-S2
				200W	R7M-AP20030-S1	R88M-GP20030*-S2
				400W	R7M-AP40030-S1	R88M-GP40030*-S2
				750W	R7M-AP75030-S1	R88M-G75030H-S2
		Without Key Straight shaft	With Brake	100W	R7M-AP10030-B	R88M-GP10030*-B
				200W	R7M-AP20030-B	R88M-GP20030*-B
				400W	R7M-AP40030-B	R88M-GP40030*-B
				750W	R7M-AP75030-B	R88M-G75030H-B
		With Key Straight shaft	With Brake	100W	R7M-AP10030-BS1	R88M-GP10030*-BS2
				200W	R7M-AP20030-BS1	R88M-GP20030*-BS2
				400W	R7M-AP40030-BS1	R88M-GP40030*-BS2
				750W	R7M-AP75030-BS1	R88M-G75030H-BS2

Peripheral devices

Date of discontinuation March, 2012

Product Name	Product Discontinuation
Parameter unit	R7A-PR02A

Date of discontinuation March, 2019

Product Name	Specification		Product Discontinuation
Encoder Cables	Separate Motor Cables	3m	R7A-CRA003C
		5m	R7A-CRA005C
		10m	R7A-CRA010C
		15m	R7A-CRA015C
		20m	R7A-CRA020C
Encoder Cables	Robot Cables	3m	R7A-CRA003CR
		5m	R7A-CRA005CR
		10m	R7A-CRA010CR
		15m	R7A-CRA015CR
		20m	R7A-CRA020CR
Computer Monitor Cable	For DOS/V		R7A-CCA002P2
Computer Monitor Cable	For PC-98		R7A-CCA002P3
Motor Cables (Integrated Encoder and Power Cable)	For Motors without Brakes	1m	R7A-CEA001S
		3m	R7A-CEA003S
		5m	R7A-CEA005S
		10m	R7A-CEA010S
		15m	R7A-CEA015S
		20m	R7A-CEA020S
	For Motors with Brakes	1m	R7A-CEA001B
		3m	R7A-CEA003B
		5m	R7A-CEA005B
		10m	R7A-CEA010B
		15m	R7A-CEA015B
		20m	R7A-CEA020B
Encoder connector (Motor side)			R7A-CNA02R

As of July 2012
In the interest of product improvement, specifications are subject to change without notice.