



NO: SV-015 **PRODUCT:** W-Series Servo System
DATE: July 2012 **TYPE:** Discontinuation Notice

W-Series Servos R88D-W/R88M-W will be Discontinued March 2013; Migrate to G5-Series Servos R88D-K/R88M-K

Effective March 30, 2013, Omron Automation and Safety will discontinue the W-Series servos that include R88D-W□ servo drivers and R88M-W□ servo motors. The recommended replacement is G5-Series servos that include R88D-K□ servo drivers and R88M-K□ servo motors.

Affected Parts

Product Discontinuation	Recommended Replacement
R88M-W10030H	R88M-K10030H
R88D-WT01H	R88D-KT01H
R88D-WN01H-ML2	R88D-KN01H-ML2
R88M-W3K030H	R88M-K3K030H
R88D-WT30H	R88D-KT30H
R88D-WN30H-ML2	R88D-KN30H-ML2
R88M-W15K015T	R88M-K15K015T
R88D-WT150H	R88D-KT150H

Precautions Using Recommended Replacements

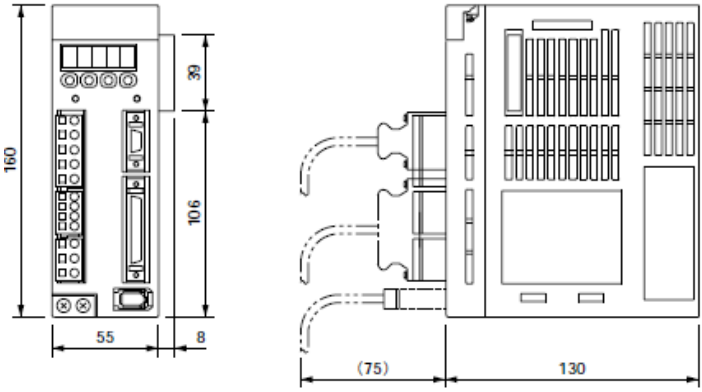
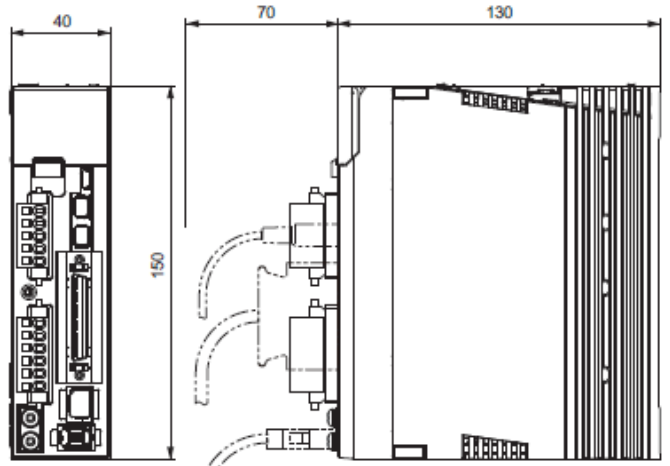
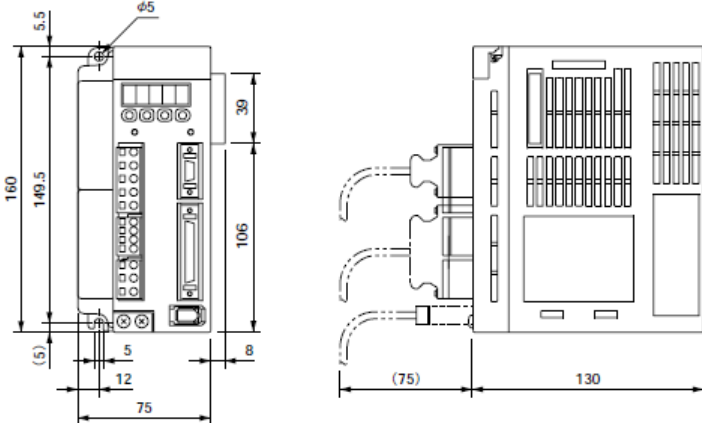
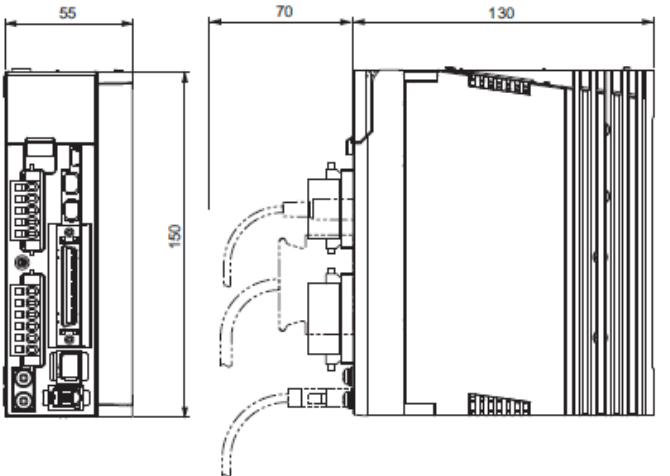
- Please check “Combination Servo Driver and Servomotor” for each recommended Replacement. This information is described at end of this sheet.
- All of the motor, driver and encoder cables need to be changed when using the Recommended Replacement products.
- Some of the recommended replacement products are different in external and mounting dimensions.
- When using the recommended replacement products, parameter settings are required.
- When replacing W-Series servo drivers with MECHATROLINK-II motion network (-ML2), recommend migrating both the servo driver and motion network to EtherCAT for designs that require long-term support.

Detailed Comparison

Body Color

Product discontinuation	Recommended Replacement
R88D-W□: Ivory-White R88M-W□:-Black	R88D-K□: Black R88M-K□ (50-750W: 3000r/min): Metallic R88M-K□ (Others): Black

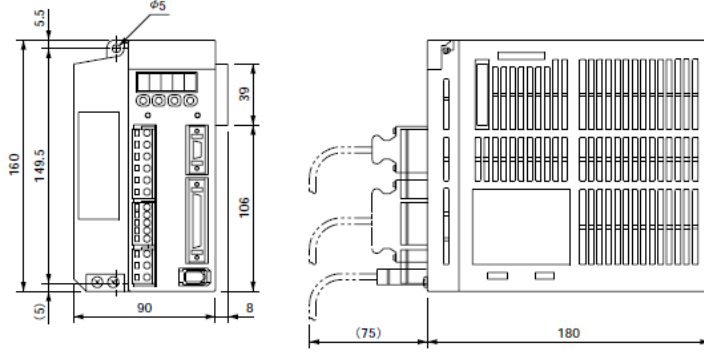
Dimensions [Unit: mm]

<p align="center">Product discontinuation R88D-WT□</p>	<p align="center">Recommended Replacement R88D-KT□</p>
<p>R88D-WTA3HL/-WTA5HL/-WT01HL/ -WTA3H/-WTA5H/-WT01H/-WT02H</p> 	<p>R88D-KTA5L/-KT01L/ -KT01H/-KT02H</p> 
<p>R88D-WT02HL/ -WT04H</p> 	<p>R88D-KT02L/ -KT04H</p> 

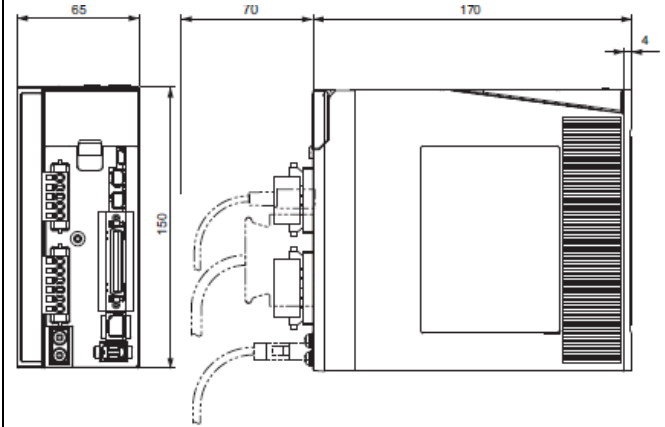
**Product discontinuation
R88D-WT□**

**Recommended Replacement
R88D-KT□**

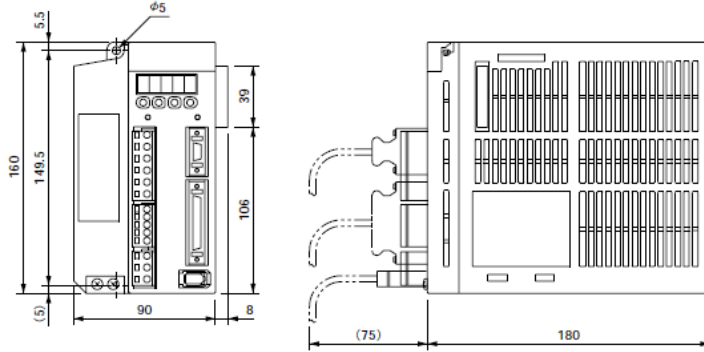
R88D-WT05H/-WT08H



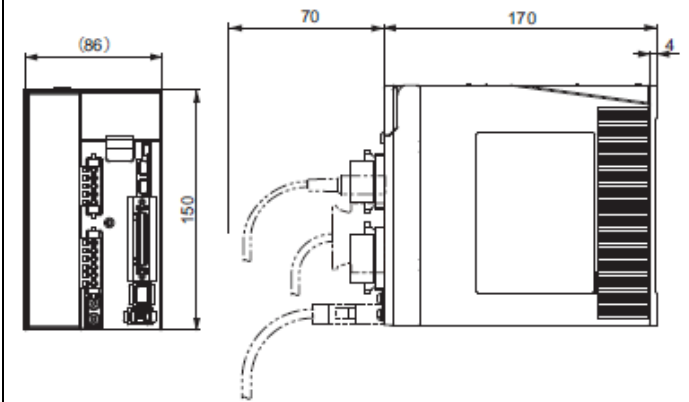
R88D-KT08H



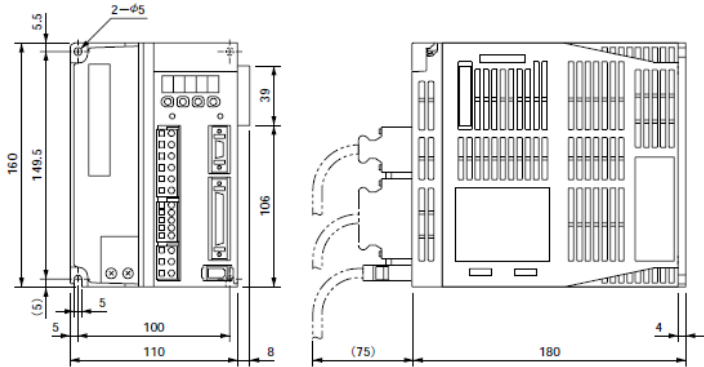
R88D-WT10H



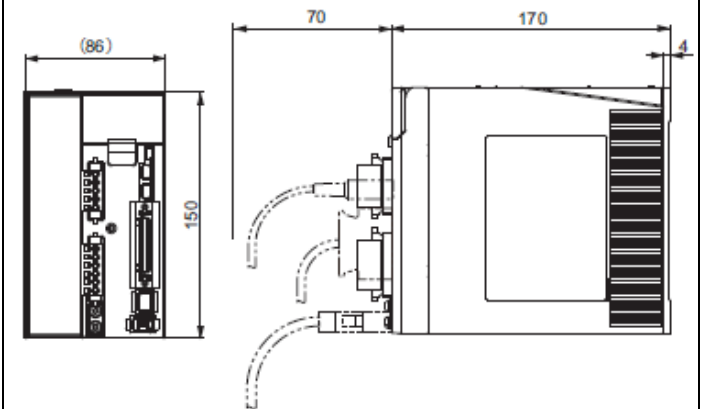
R88D-KT10H



R88D-WT15H



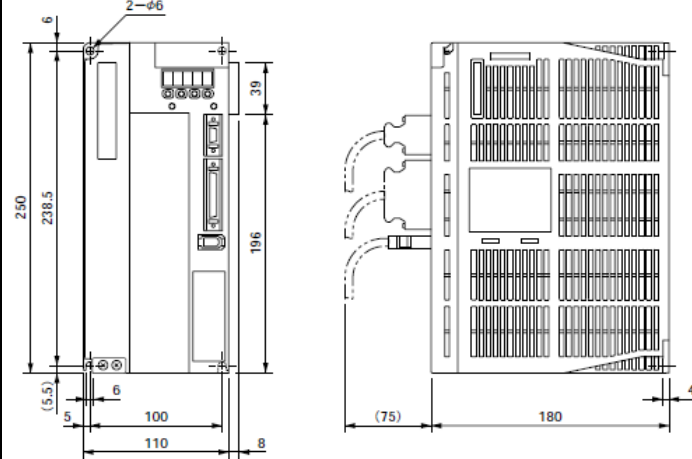
R88D-KT15H



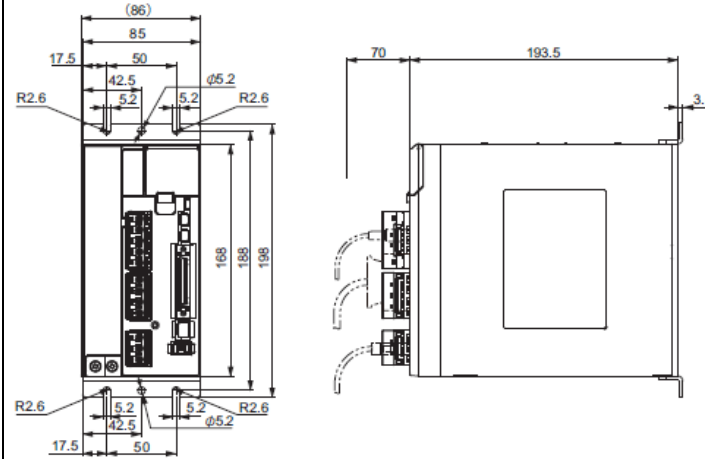
**Product discontinuation
R88D-WT□**

**Recommended Replacement
R88D-KT□**

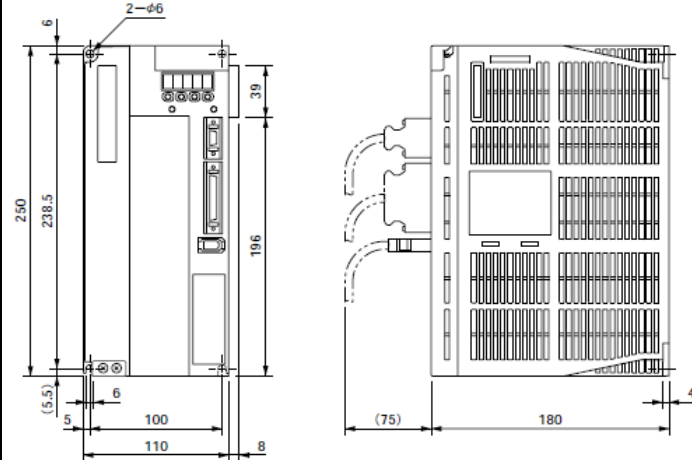
R88D-WT20H



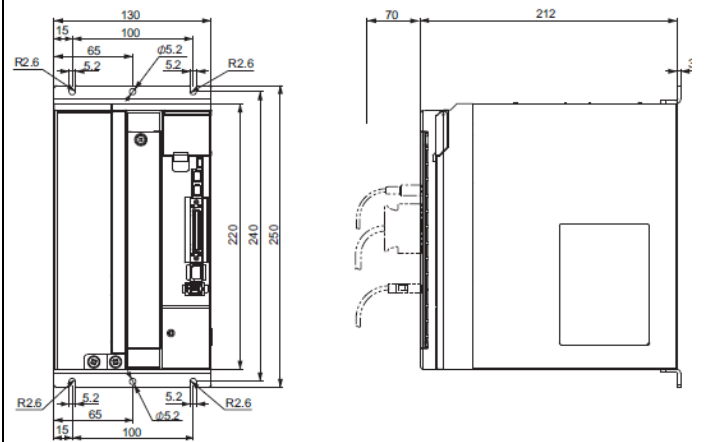
R88D-KT20H



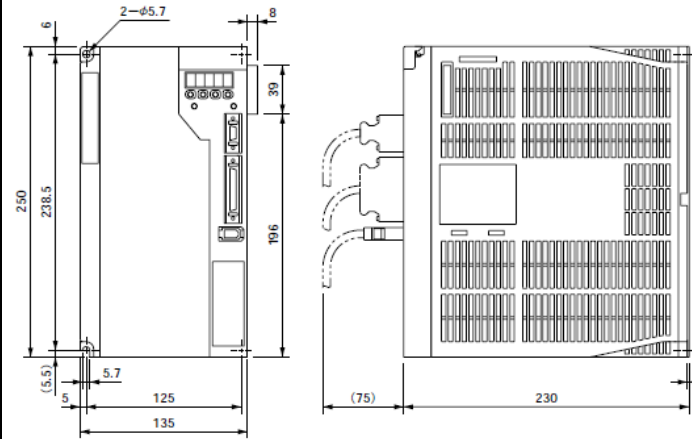
R88D-WT30H



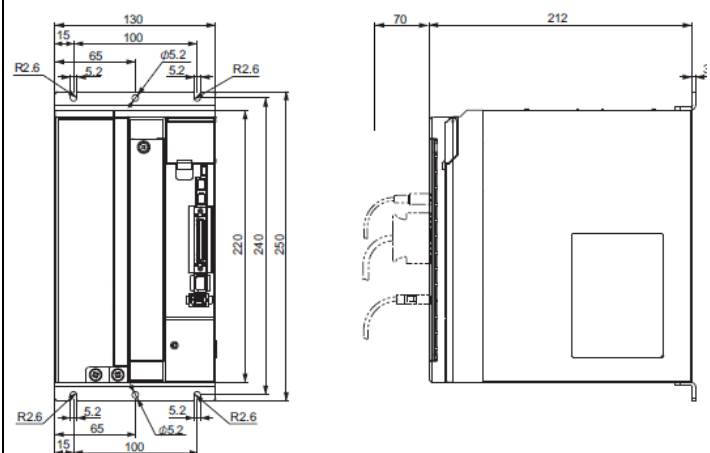
R88D-KT30H



R88D-WT50H



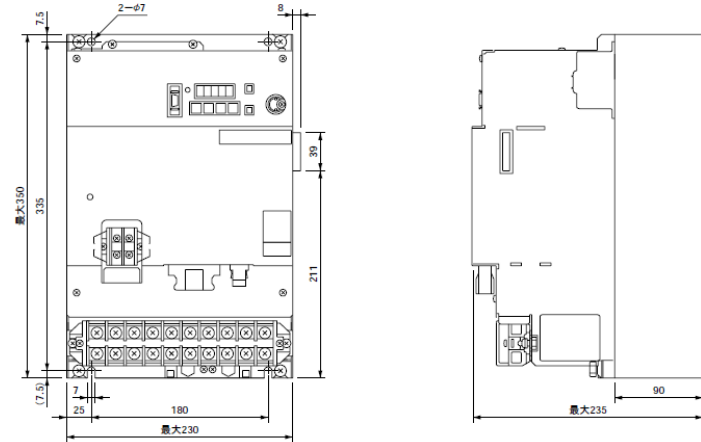
R88D-KT50H



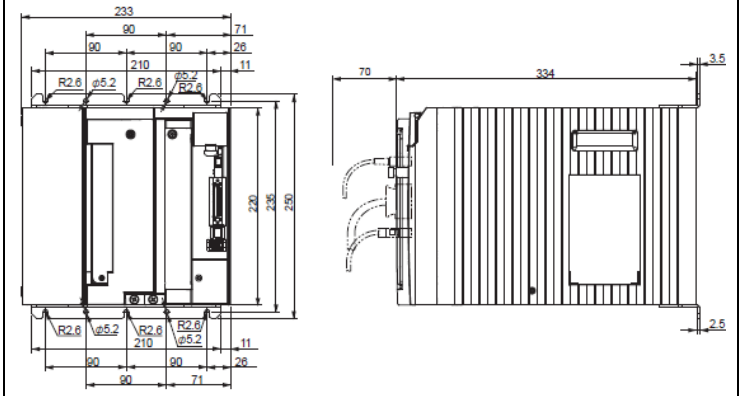
**Product discontinuation
R88D-WT□**

**Recommended Replacement
R88D-KT□**

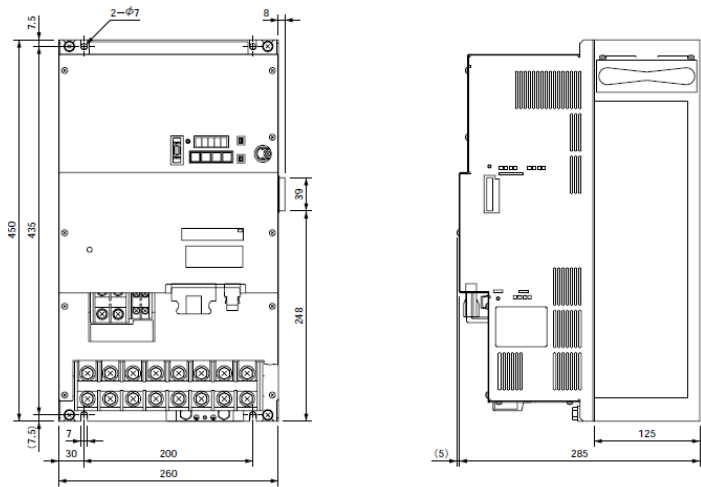
R88D-WT60H/-WT75H



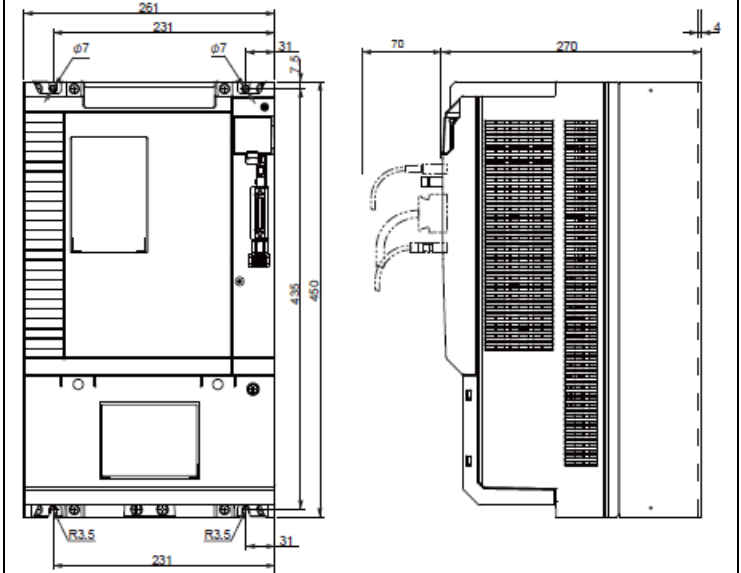
R88D-KT75H



R88D-WT150H



R88D-KT150H

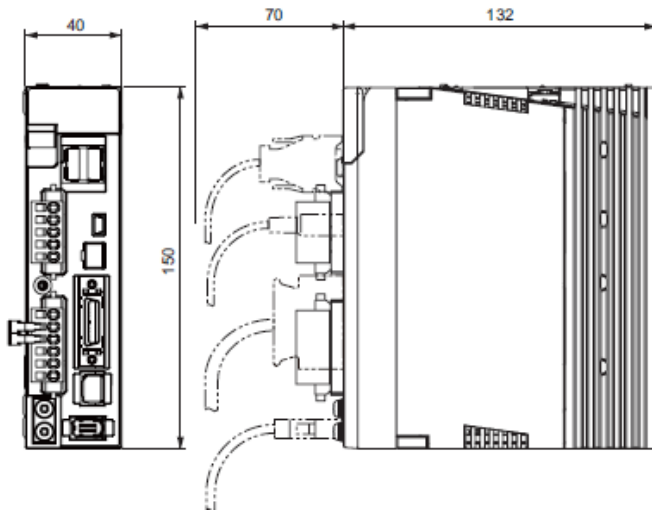
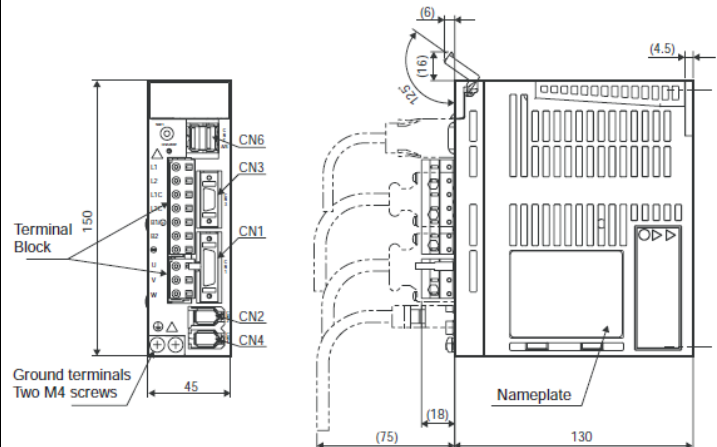


**Product discontinuation
R88D-WN□**

**Recommended Replacement
R88D-KN□**

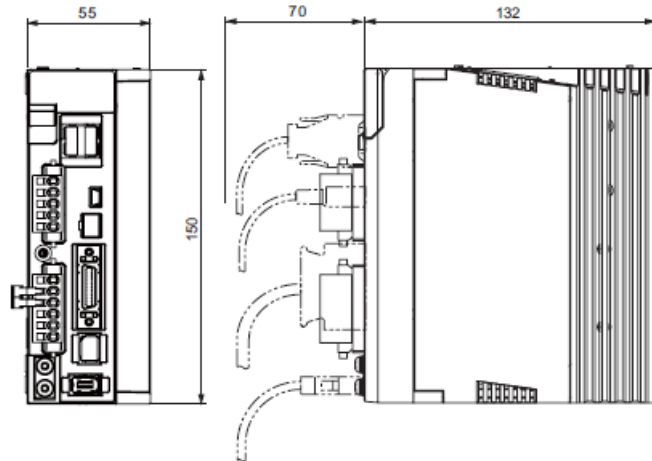
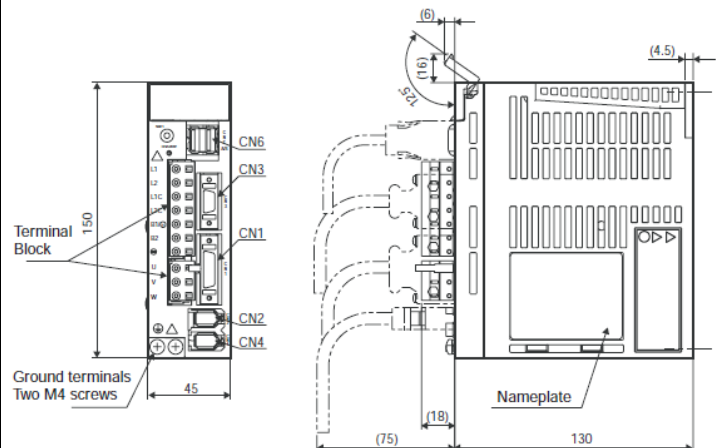
R88D-WNA5L-ML2/-WN01L-ML2/
-WNA5H-ML2/-WN01H-ML2/-WN02H-ML2

R88D-KNA5L-ML2/-KN01L-ML2/
-KN01H-ML2/-KN02H-ML2



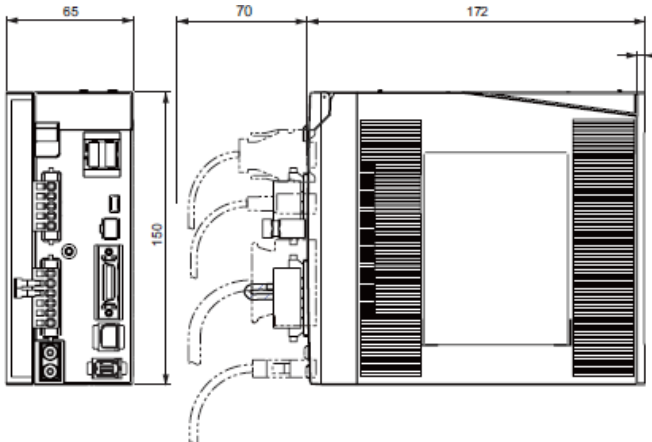
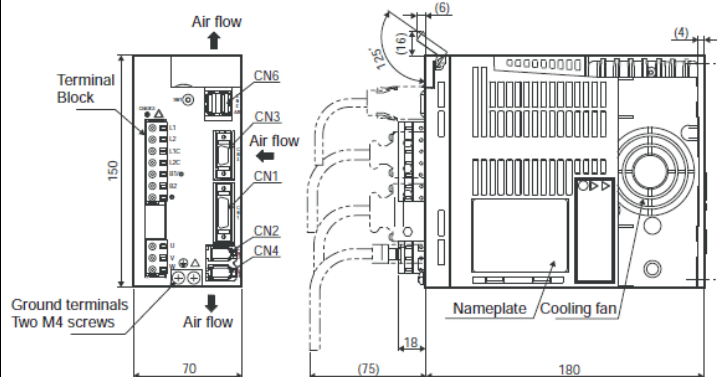
R88D-WN02L-ML2

R88D-KN02L-ML2



R88D-WN04L-ML2

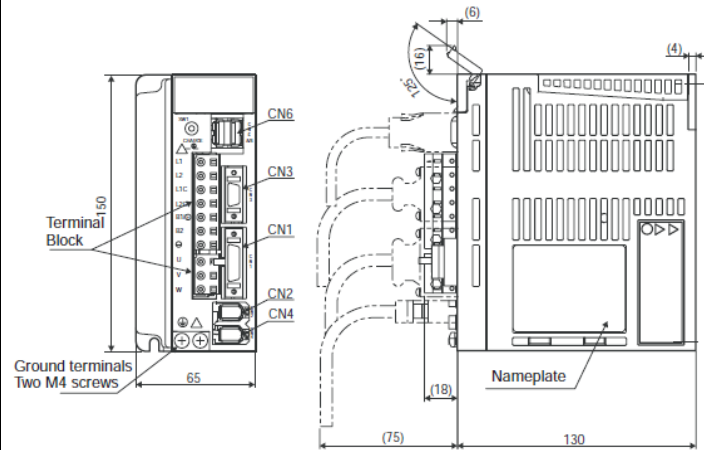
R88D-KN04L-ML2



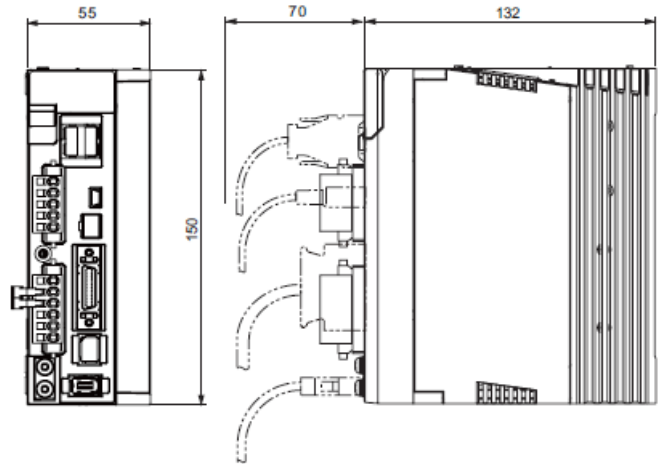
**Product discontinuation
R88D-WN□**

**Recommended Replacement
R88D-KN□**

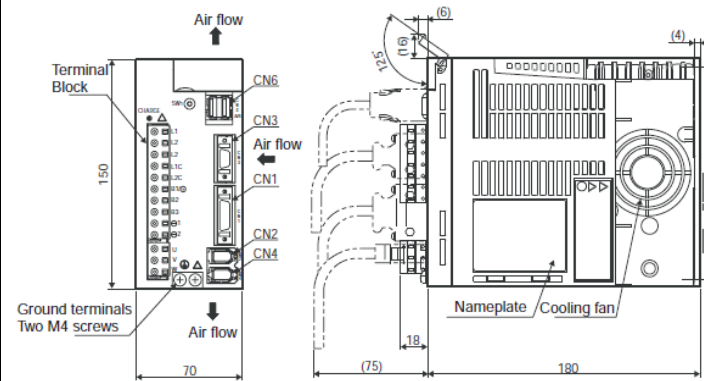
R88D-WN04H-ML2



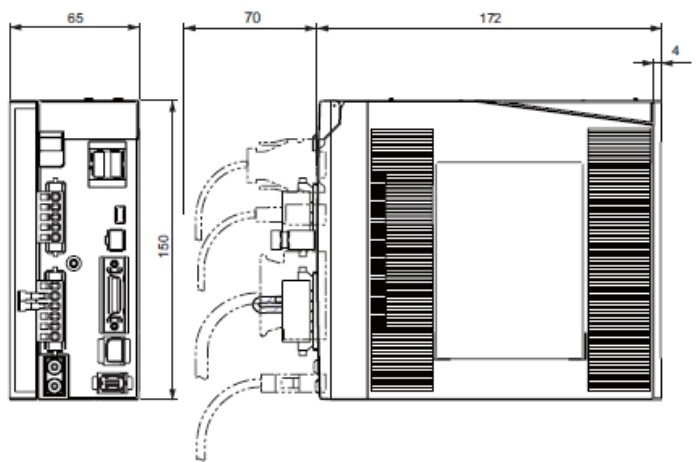
R88D-KN04H-ML2



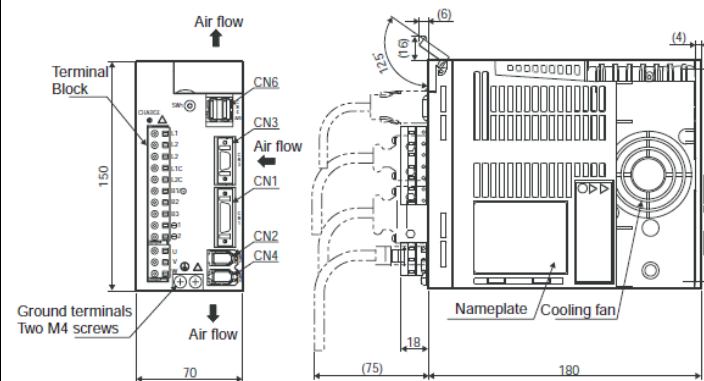
R88D-WN05H-ML2/-WN08H-ML2



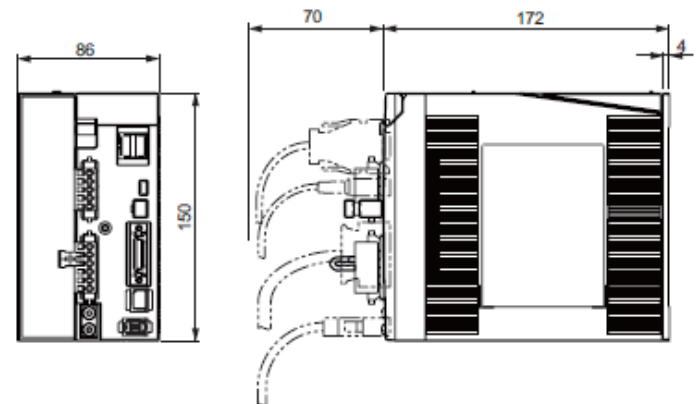
R88D-KN08H-ML2



R88D-WN10H-ML2



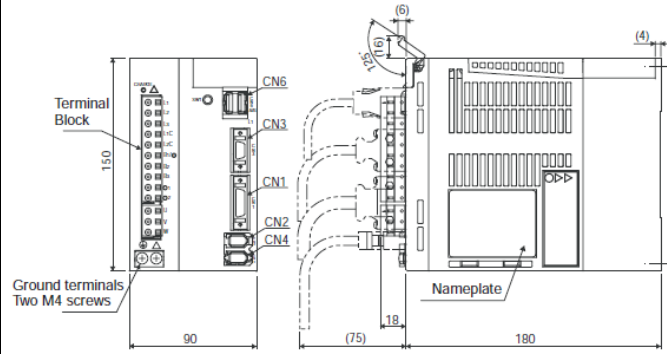
R88D-KN10H-ML2



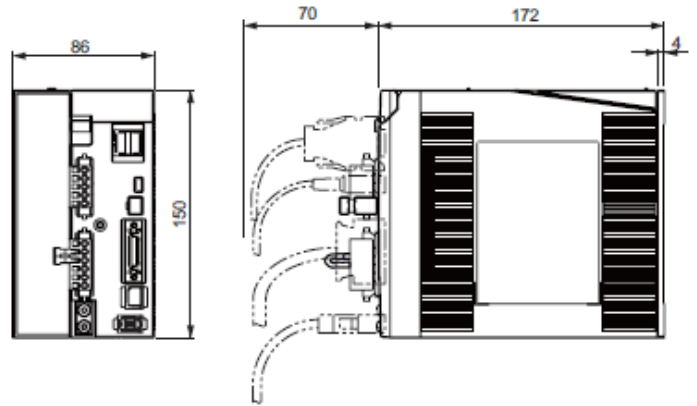
**Product discontinuation
R88D-WN□**

**Recommended Replacement
R88D-KN□**

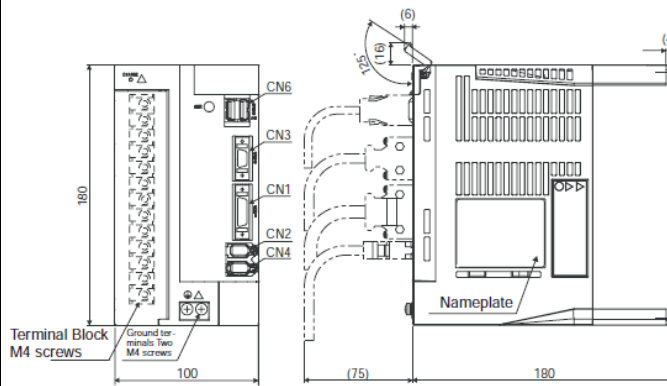
R88D-WN15H-ML2



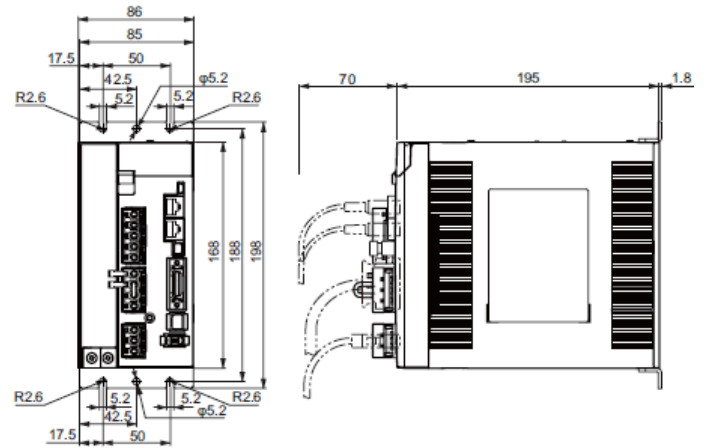
R88D-KN15H-ML2



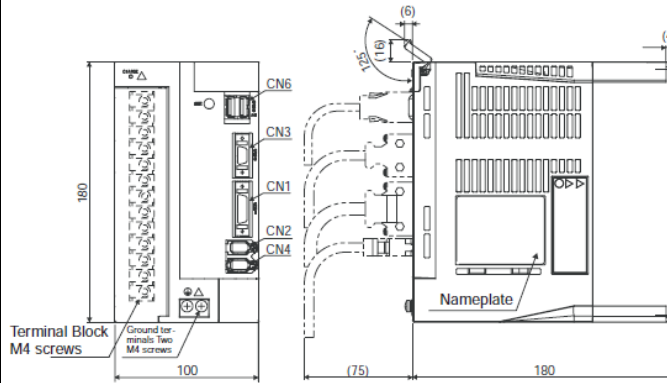
R88D-WN20H-ML2



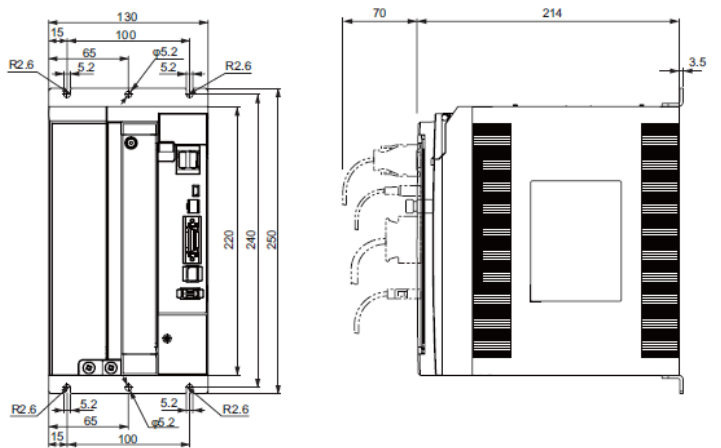
R88D-KN20H-ML2



R88D-WN30H-ML2



R88D-KN30H-ML2

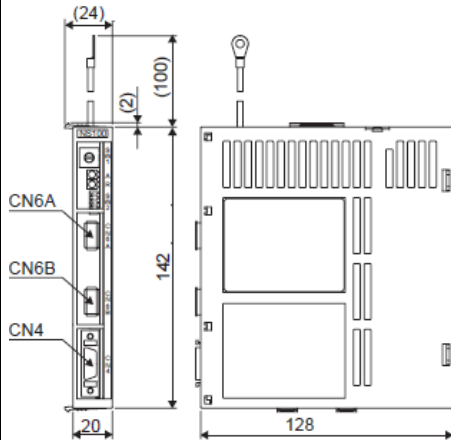


**Product discontinuation
R88D-WT□+FNY-NS115**

**Recommended Replacement
R88D-KN□**

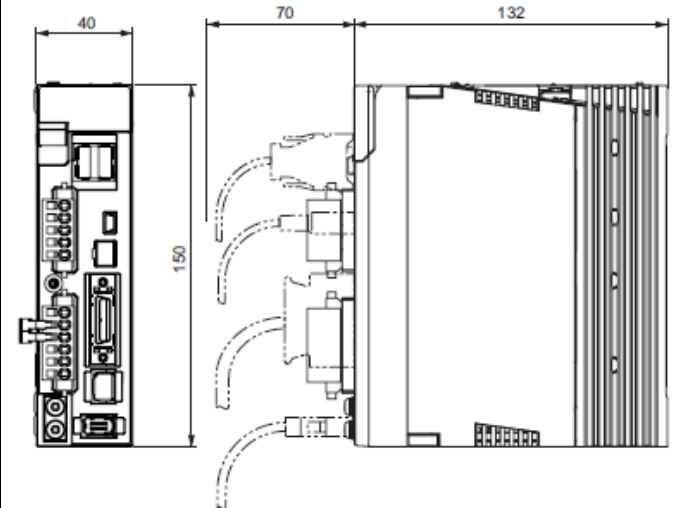
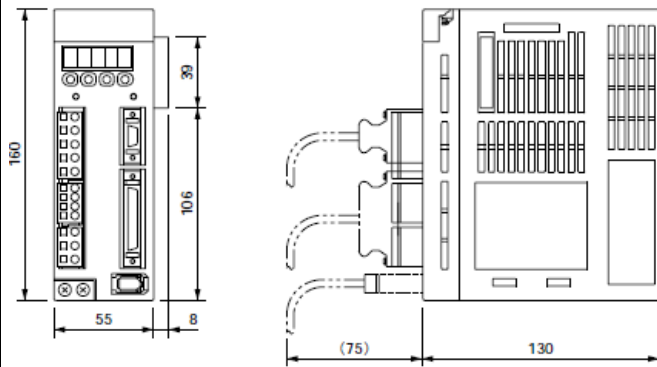
FNY-NS115 (Mount on R88D-WT right side)

Included in R88D-KN□



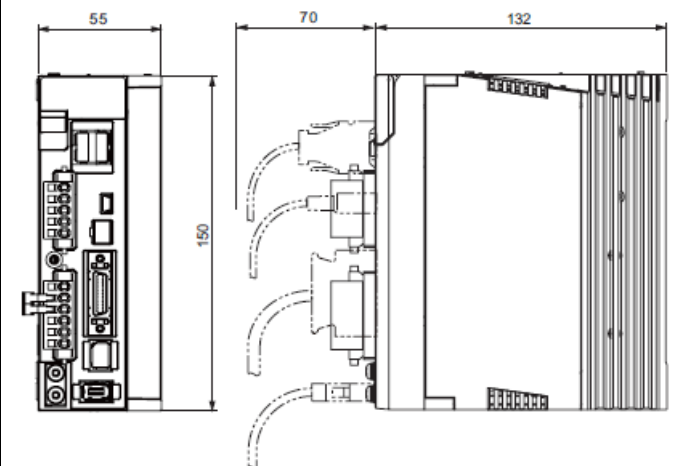
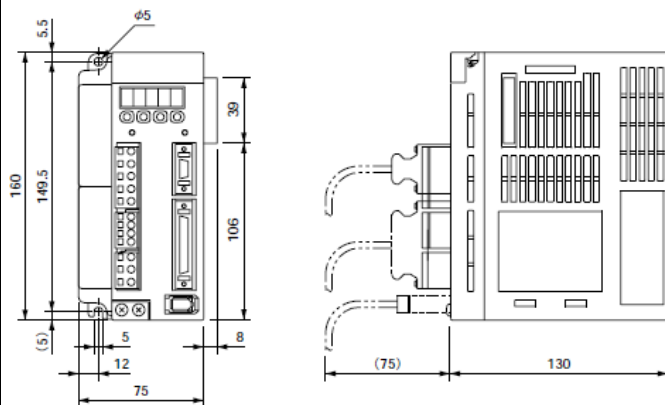
R88D-WTA3HL/-WTA5HL/-WT01HL/
-WTA3H/-WTA5H/-WT01H/-WT02H

R88D-KNA5L-ML2/-KN01L-ML2/
-KN01H-ML2/-KN02H-ML2



R88D-WT02HL/-WT04H

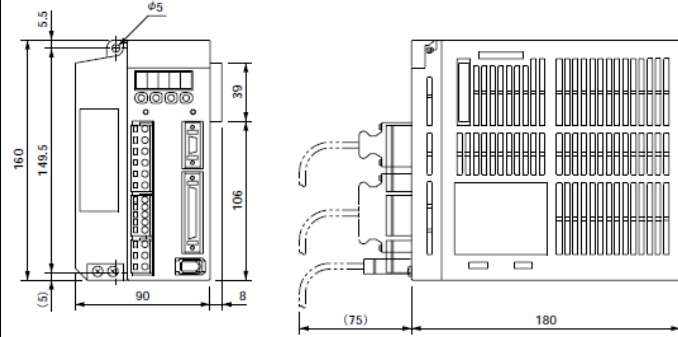
R88D-KN02L-ML2/-KN04H-ML2



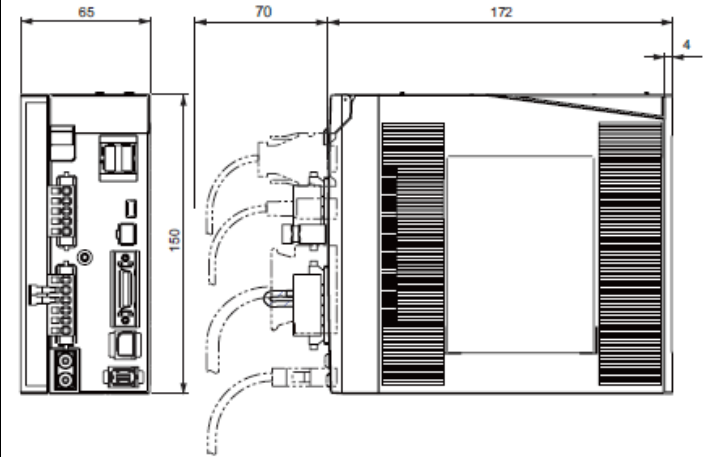
**Product discontinuation
R88D-WT□+FNY-NS115**

**Recommended Replacement
R88D-KN□**

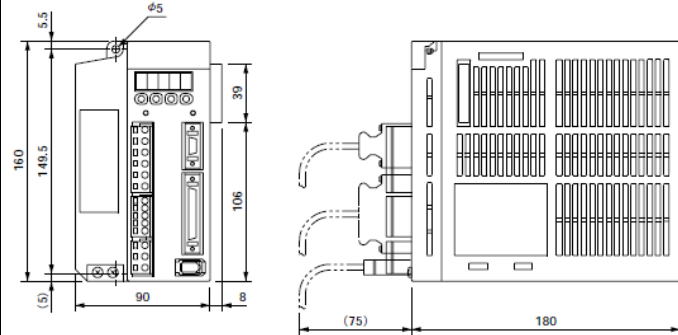
R88D-WT05H/-WT08H



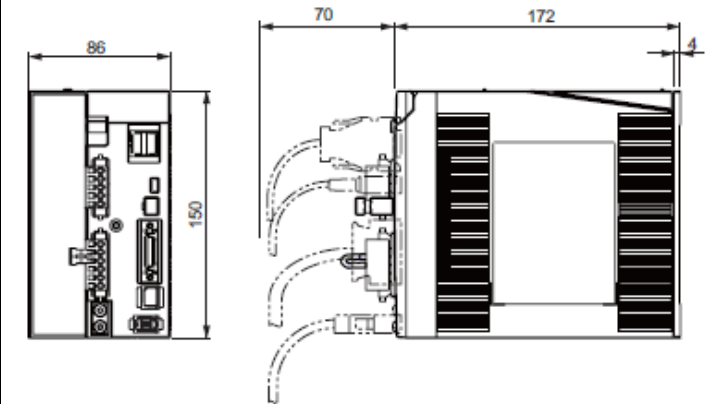
R88D-KN08H-ML2



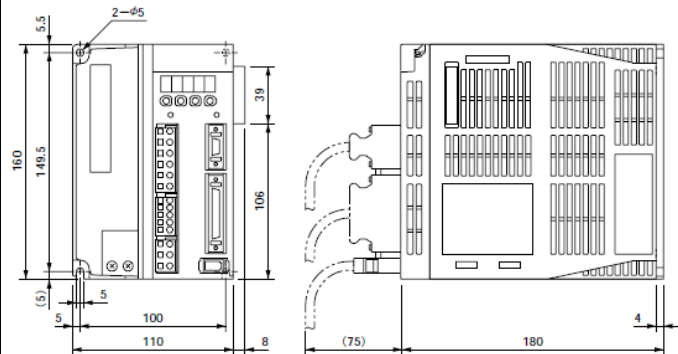
R88D-WT10H



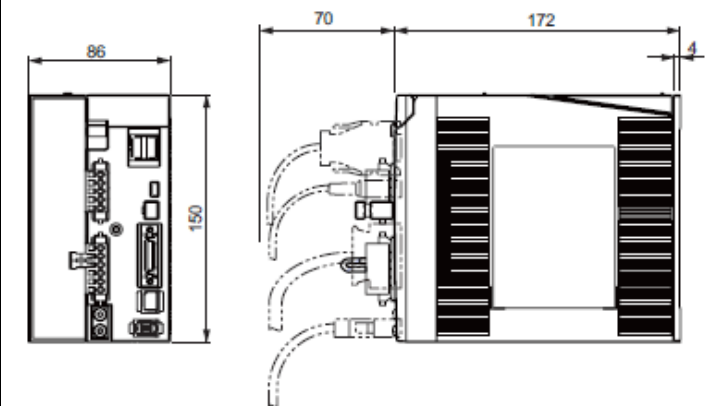
R88D-KN10H-ML2



R88D-WT15H



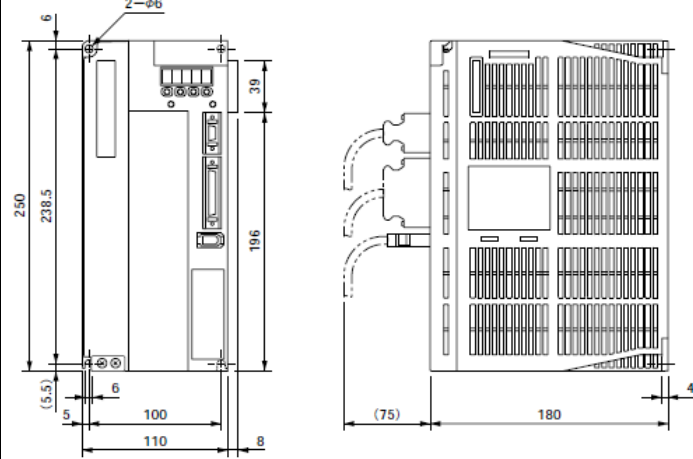
R88D-KN15H-ML2



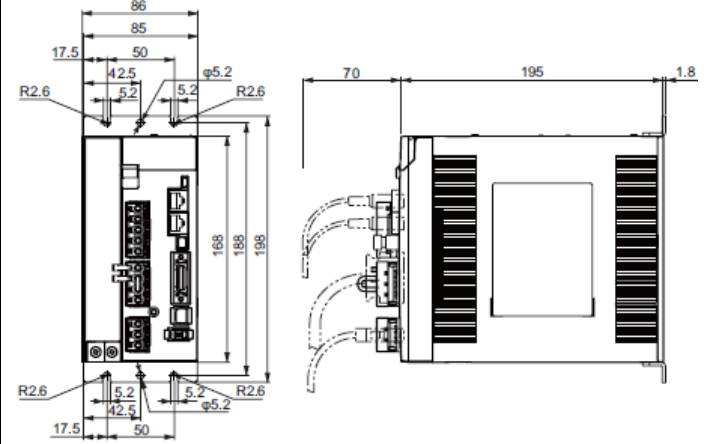
**Product discontinuation
R88D-WT□+FNY-NS115**

**Recommended Replacement
R88D-KN□**

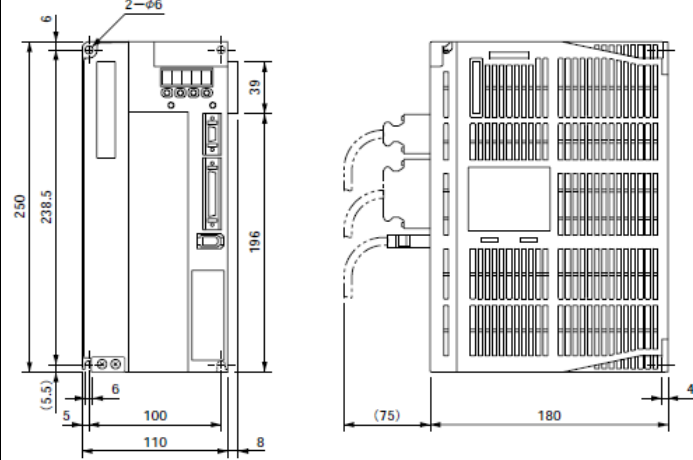
R88D-WT20H



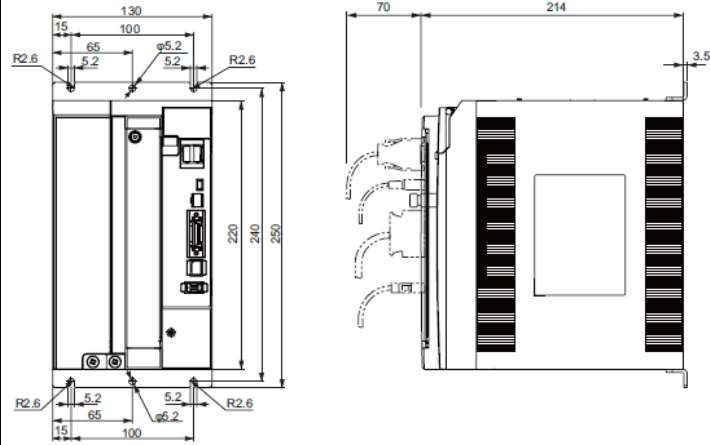
R88D-KN20H-ML2



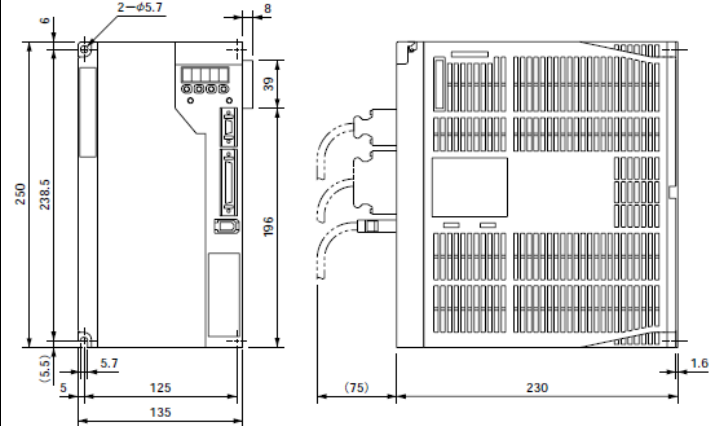
R88D-WT30H



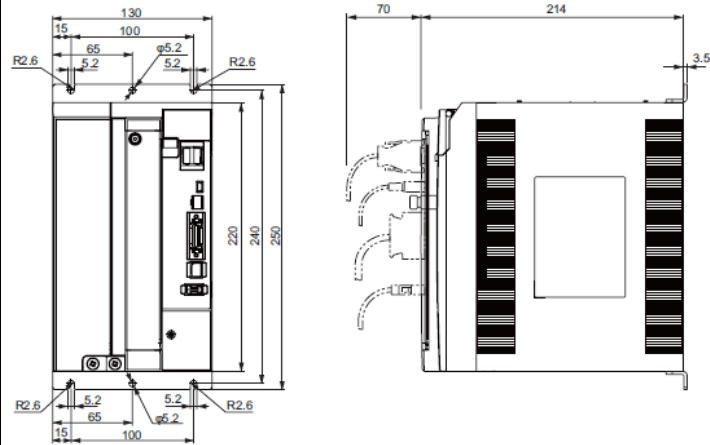
R88D-KN30H-ML2



R88D-WT50H



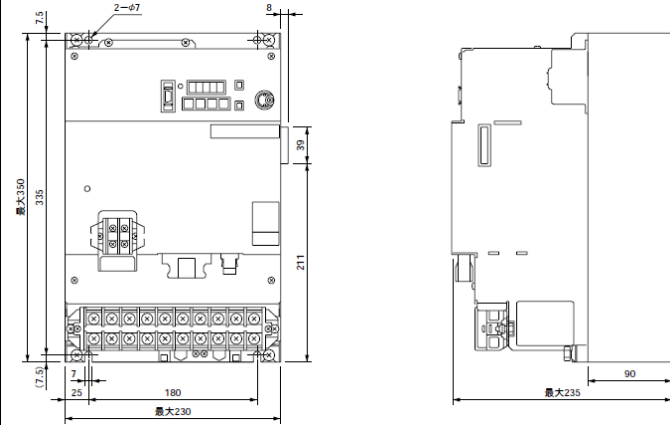
R88D-KN50H-ML2



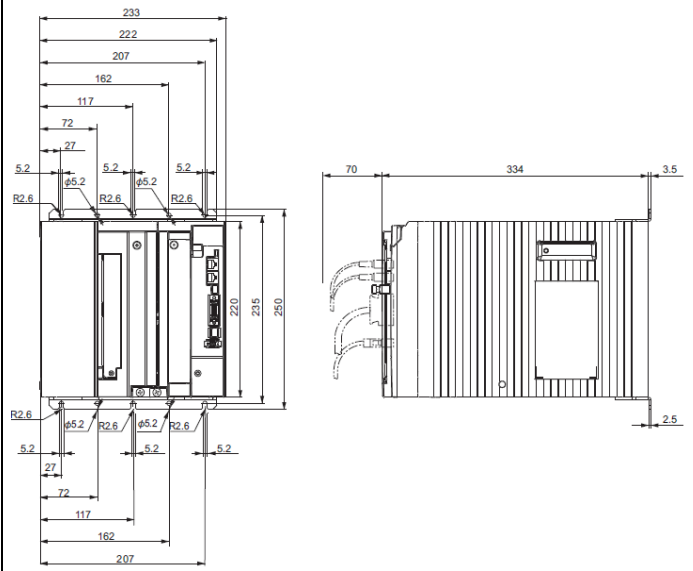
Product discontinuation
R88D-WT□+FNY-NS115

Recommended Replacement
R88D-KN□

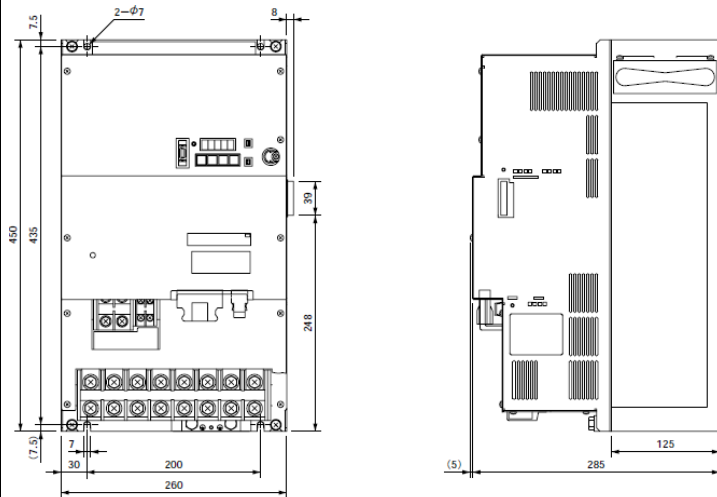
R88D-WT60H/-WT75H



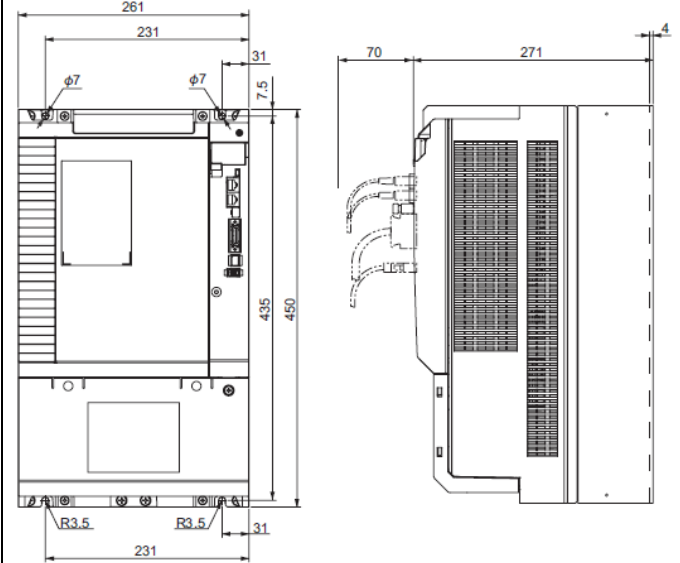
R88D-KN75H-ECT



R88D-WT150H



R88D-KN150H-ECT

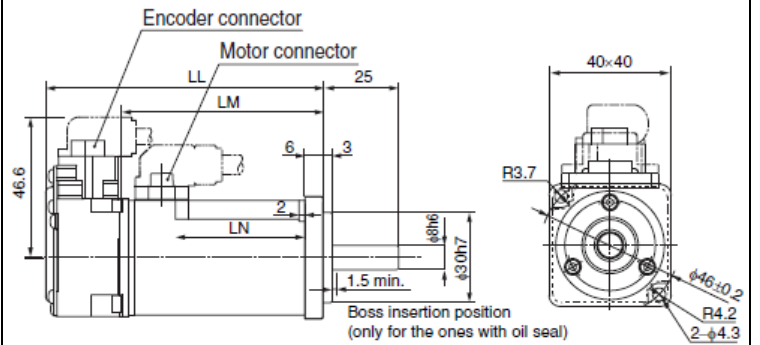
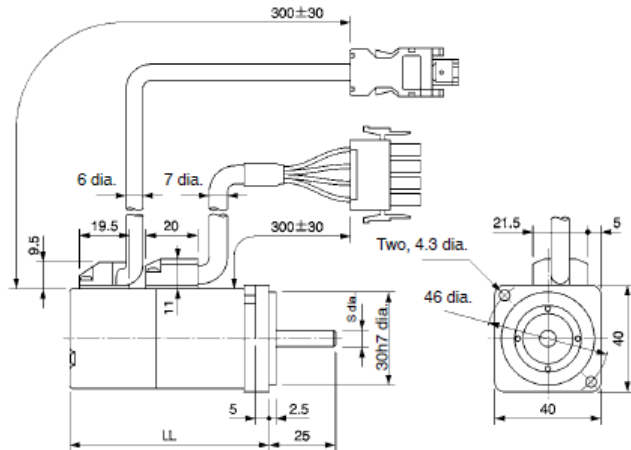


**Product discontinuation
R88M-W□**

**Recommended Replacement
R88M-K□**

R88M-W03030□/-W05030□/-W10030□

R88M-K05030□/-K10030□

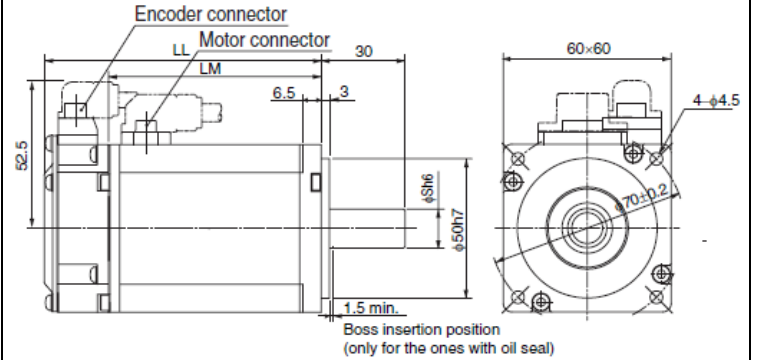
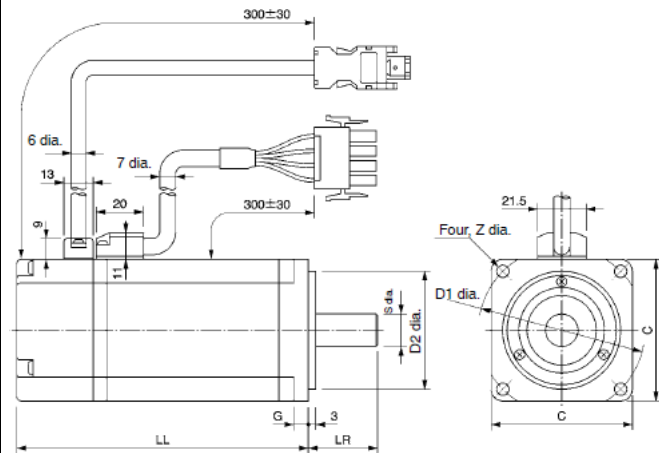


Model	Dimensions (mm)							
	LL	S	b	h	t1	M	ℓ	
R88M-W03030□-□	69.5	6h6	2	2	1.2	M2.5	5	
R88M-W05030□-□	77	6h6	2	2	1.2			
R88M-W10030□-□	94.5	8h6	3	3	1.8	M3	6	

Model	Dimensions (mm)		
	LL	LM	LN
R88M-K05030□	72	48	23
R88M-K10030□	92	68	43

R88M-W20030□/-W40030□/-W75030□

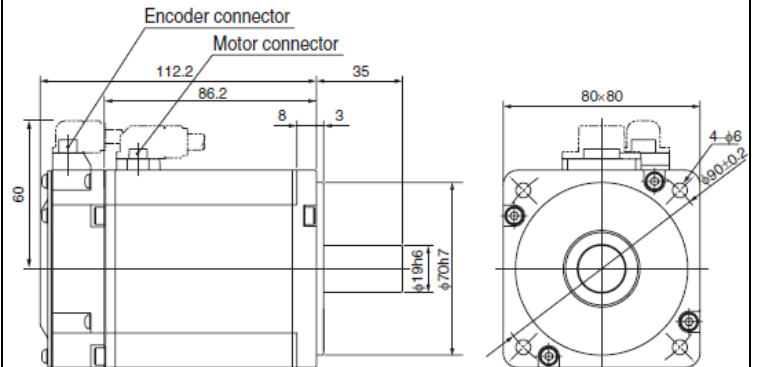
R88M-K20030□/-K40030□



Model	Dimensions (mm)									
	LL	LR	C	D1	D2	G	Z	S	QK	
R88M-W20030□-□	96.5	30	60	70	50h7	6	5.5	14h6	20	
R88M-W40030□-□	124.5	30	60	70	50h7	6	5.5	14h6	20	
R88M-W75030□-□	145	40	80	90	70h7	8	7	16h6	30	

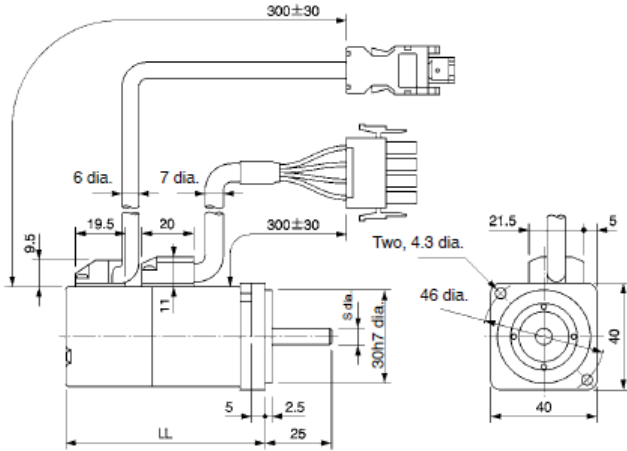
Model	Dimensions (mm)		
	LL	LM	S
R88M-K20030□	79.5	56.5	11
R88M-K40030□	99	76	14

R88M-K75030□



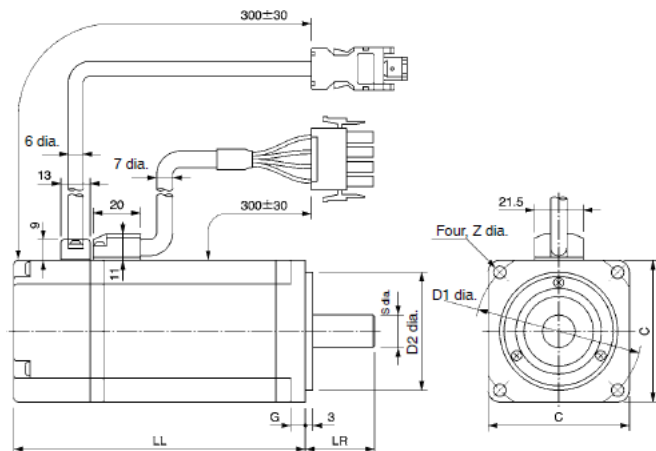
Product discontinuation
R88M-W□

R88M-W03030□-B/-W05030□-B
/-W10030□-B



Model	Dimensions (mm)								
	LL	S	b	h	tt	M	ε		
R88M-W03030□-B□	101	6h6	2	2	1.2	M2.5	5		
R88M-W05030□-B□	108.5	6h6	2	2	1.2				
R88M-W10030□-B□	135	8h6	3	3	1.8	M3	6		

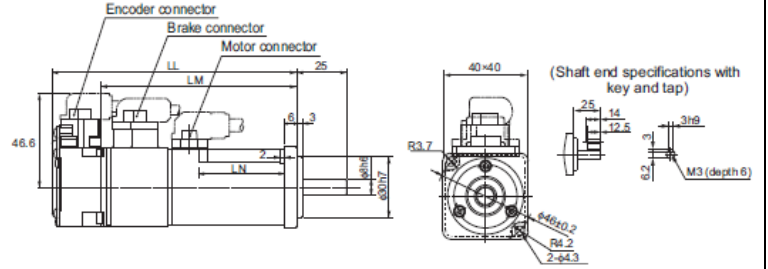
R88M-W20030□-B/-W40030□-B
/-W75030□-B



Model	Dimensions (mm)								
	LL	LR	C	D1	D2	G	Z	S	
R88M-W20030□-□	96.5	30	60	70	50h7	6	5.5	14h6	
R88M-W40030□-□	124.5	30	60	70	50h7	6	5.5	14h6	
R88M-W75030□-□	145	40	80	90	70h7	8	7	16h6	

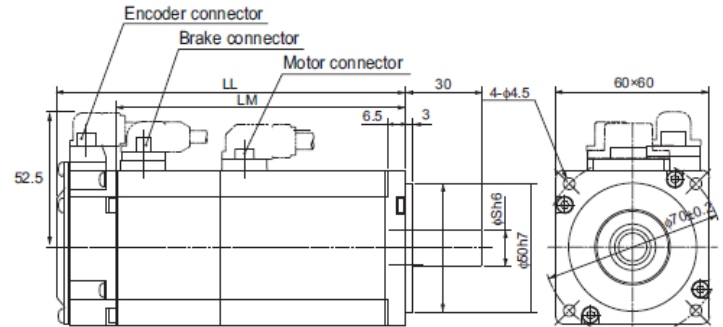
Recommended Replacement
R88M-K□

R88M-K05030□-B /-K10030□-B



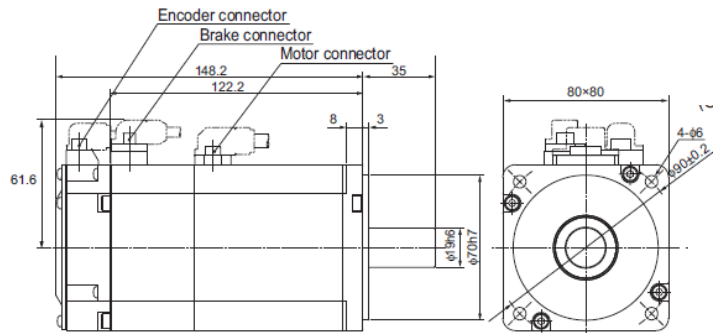
Model	Dimensions (mm)		
	LL	LM	LN
R88M-K05030□-B□	102	78	23
R88M-K10030□-B□	122	98	43

R88M-K20030□B /-K40030□-B



Model	Dimensions (mm)		
	LL	LM	S
R88M-K20030□-B□	116	93	11
R88M-K40030□-B□	135.5	112.5	14

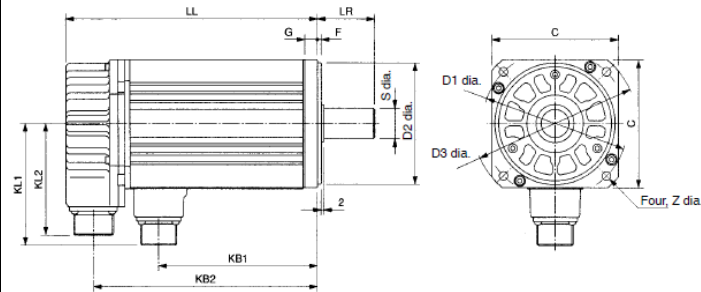
R88M-K75030□-B



**Product discontinuation
R88M-W□**

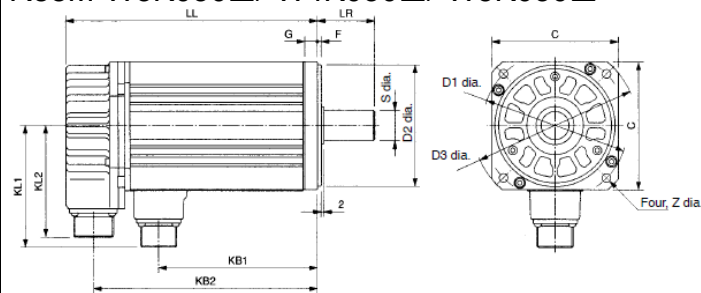
**Recommended Replacement
R88M-K□**

R88M-W1K030□/-W1K530□/-W2K030□



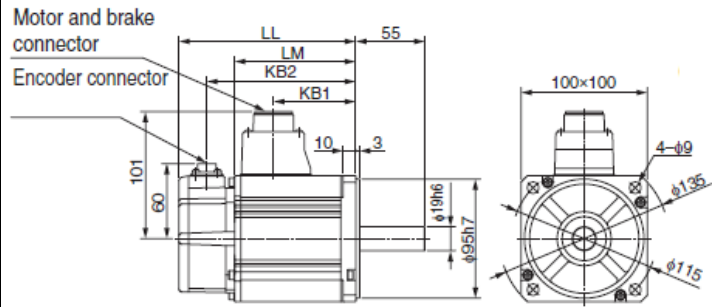
Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W1K030□-□	148	45	76	128	96	88	100	115	95h7	130	3	10	7	24h6
R88M-W1K530□-□	175		102	154										
R88M-W2K030□-□	198		125	177										

R88M-W3K030□/-W4K030□/-W5K030□



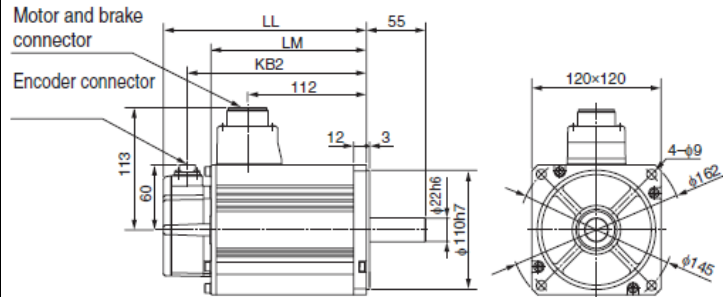
Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W3K030□-□	199	63	124	178	114	88	130	145	110h7	165	6	12	9	28h6
R88M-W4K030□-□	236		161	215										
R88M-W5K030□-□	276		201	255										

R88M-K1K030□/-K1K530□/-K2K030□



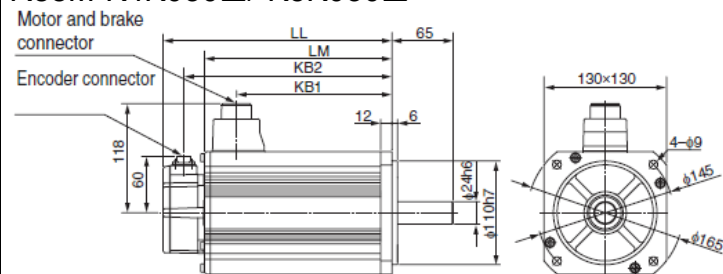
Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K1K030□	141	97	66	119
R88M-K1K530□	159.5	115.5	84.5	137.5
R88M-K2K030□	178.5	134.5	103.5	156.5

R88M-K3K030□



Model	Dimensions (mm)		
	LL	LM	KB2
R88M-K3K030□	190	146	168

R88M-K4K030□/-K5K030□



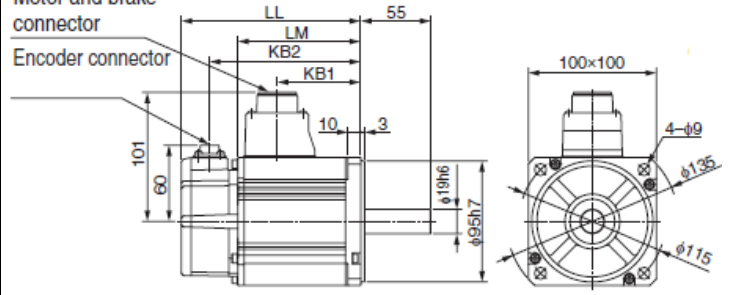
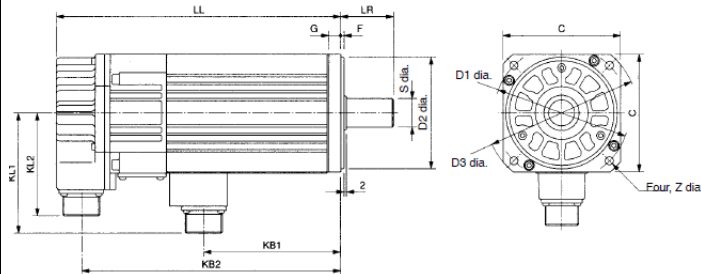
Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K4K030□	208	164	127	186
R88M-K5K030□	243	199	162	221

Product discontinuation
R88M-W□

Recommended Replacement
R88M-K□

R88M-W1K030□-B/-W1K530□-B/
-W2K030□-B

R88M-K1K030□-B/-K1K530□-B/-K2K030□-B
Motor and brake
connector



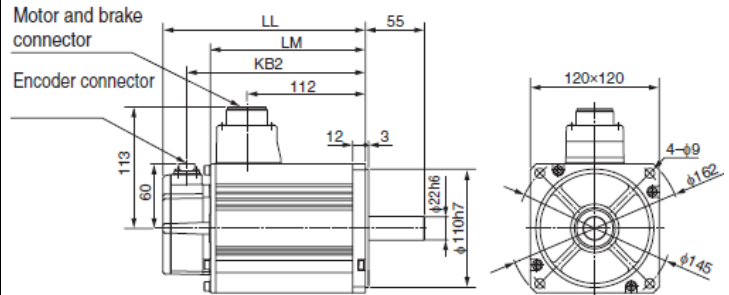
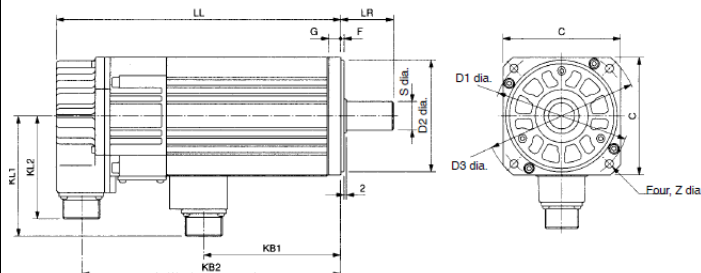
Model	Dimensions (mm)														
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S	QK
R88M-W1K030□-B□	193	45	67	171	102	88	100	115	95h7	130	3	10	7	24h6	32
R88M-W1K530□-B□	219		93	197											
R88M-W2K030□-B□	242		116	220											

Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K1K030□-B□	168	124	66	146
R88M-K1K530□-B□	186.5	142.5	84.5	164.5
R88M-K2K030□-B□	205.5	161.5	103.5	183.5

R88M-W3K030□-B/-W4K030□-B/
-W5K030□-B

R88M-K3K030□-B

Motor and brake
connector

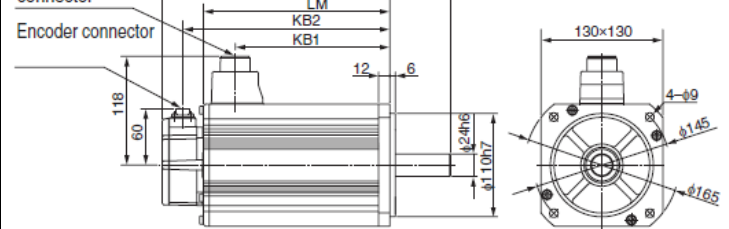


Model	Dimensions (mm)														
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S	QK
R88M-W3K030□-B□	237	63	114	216	119	88	130	145	110h7	165	6	12	9	28h6	50
R88M-W4K030□-B□	274		151	253											
R88M-W5K030□-B□	314		191	293											

Model	Dimensions (mm)		
	LL	LM	KB2
R88M-K3K030□-B□	215	171	193

R88M-K4K030□-B/-K5K030□-B

Motor and brake
connector



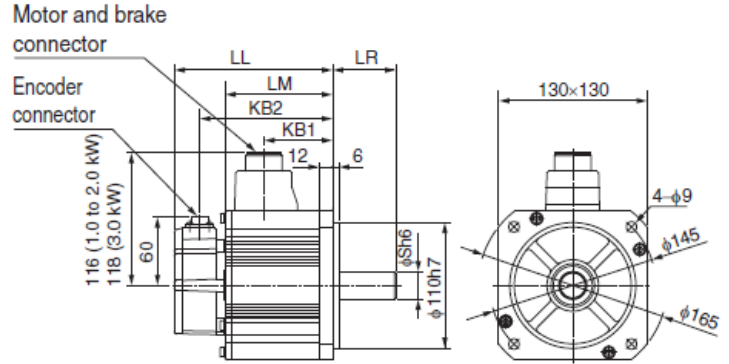
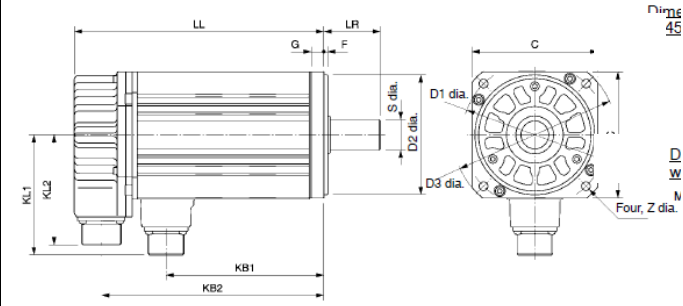
Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K4K030□-B□	233	189	127	211
R88M-K5K030□-B□	268	224	162	246

Product discontinuation
R88M-W□

Recommended Replacement
R88M-K□

R88M-W45015T/-W85015T/
-W1K315T/-W1K815T

R88M-K1K020T/-K1K520T/
-K2K020T/-K3K020T

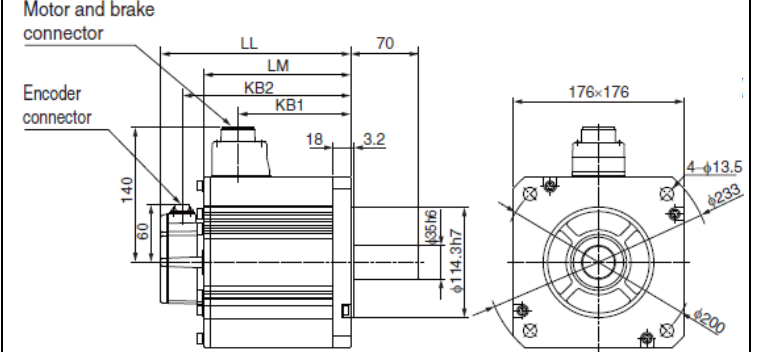
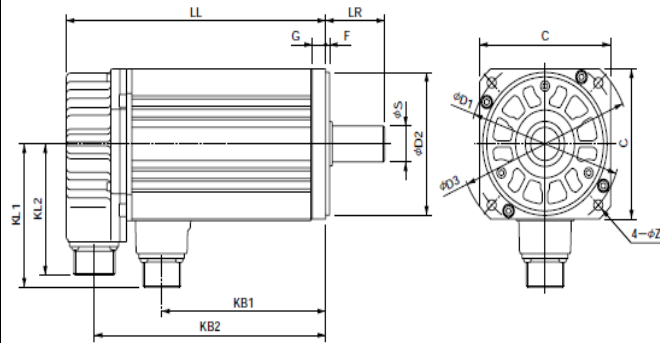


Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W45015T□	138	58	65	117	100	88	130	145	110h7	165	6	12	9	19h6
R88M-W85015T□	161		88	140										22h6
R88M-W1K315T□	185		112	164										
R88M-W1K815T□	166	79	89	144	140	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	35 ^{+0.01} ₀

Model	Dimensions (mm)					
	LL	LR	LM	S	KB1	KB2
R88M-K1K020□	138	55	94	22	60	116
R88M-K1K520□	155.5	55	111.5	22	77.5	133.5
R88M-K2K020□	173	55	129	22	95	151
R88M-K3K020□	208	65	164	24	127	186

R88M-W2K915T/-W4K415T

R88M-K4K020T/-K5K020T

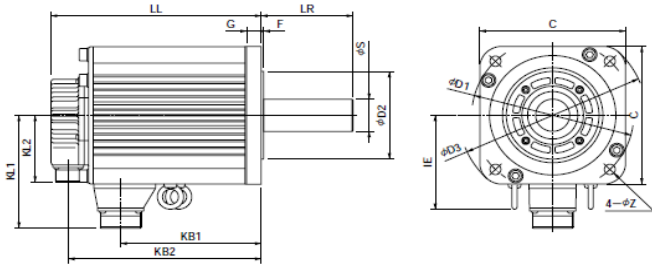


Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
形R88M-W2K915T□	192		115	170	140	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	35 ^{+0.01} ₀
形R88M-W4K415T□	226	79	149	204										

Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K4K020□	177	133	96	155
R88M-K5K020□	196	152	115	174

Product discontinuation
R88M-W□

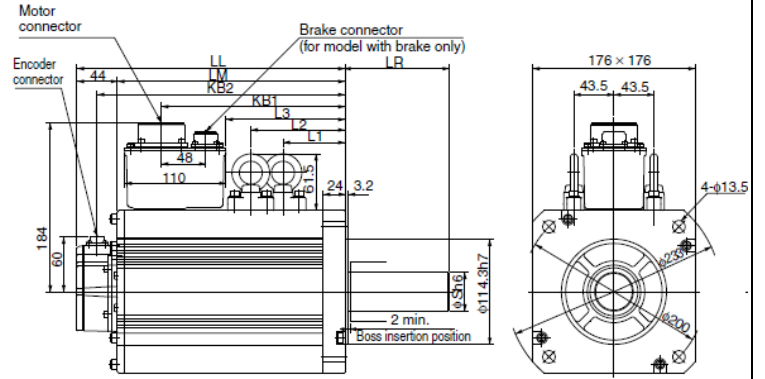
R88M-W5K515T/-W7K515T/
-W11K015T/-W15K015T



Model	Dimensions (mm)														
	LL	LR	KB1	KB2	KL1	KL2	IE	O	D1	D2	D3	F	G	Z	S
R88M-W5K515T-□	260	113	174	238	150	150	123	180	200	114.3 ⁺⁰ _{-0.025}	230	3.2	18	13.5	42h6
R88M-W7K515T-□	334		248	312											
R88M-W11K015T-□	338	118	251	317	168	168	142	220	235	200h7	270	4	18	13.5	42h6
R88M-W15K015T-□	457		343	435			150							20	55 ^{+0.030} _{-0.011}

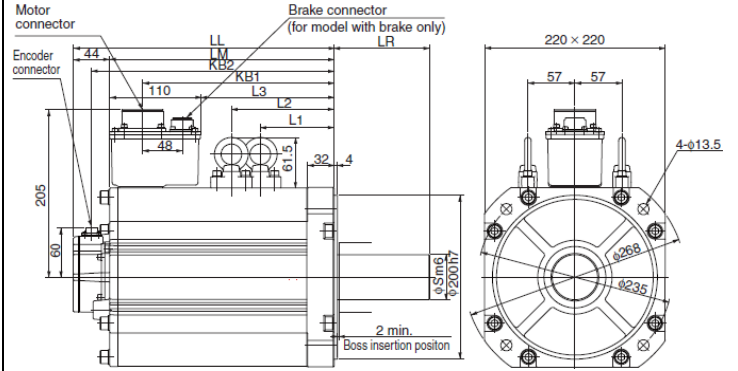
Recommended Replacement
R88M-K□

R88M-K7K515T



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K7K515T□	312	113	268	42	219	290	117.5	117.5	149

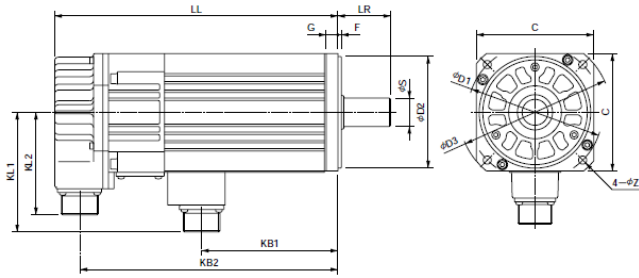
R88M-K11K015T/-K15K015T



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K11K015T□	316	116	272	55	232	294	124.5	124.5	162
R88M-K15K015T□	384	116	340	55	300	362	158.5	158.5	230

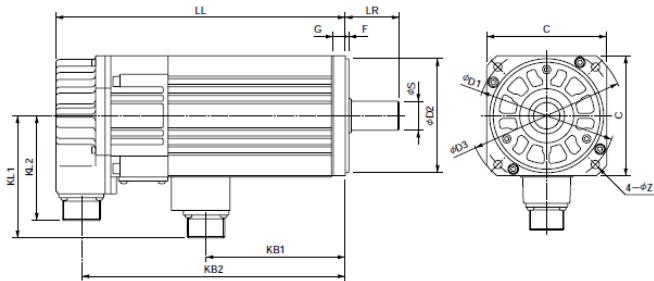
**Product discontinuation
R88M-W□**

R88M-W45015T-B/-W85015T-B/
-W1K315T-B/-W1K815T-B



Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W45015T-B□	176	58	58	154	120	88	130	145	110h7	165	6	12	g	19h6
R88M-W85015T-B□	199		79	177										22h6
R88M-W1K315T-B□	223		103	201										
R88M-W1K815T-B□	217	79	79	195	146	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	35 ^{+0.01} ₀

R88M-W2K915T-B/-W4K415T-B



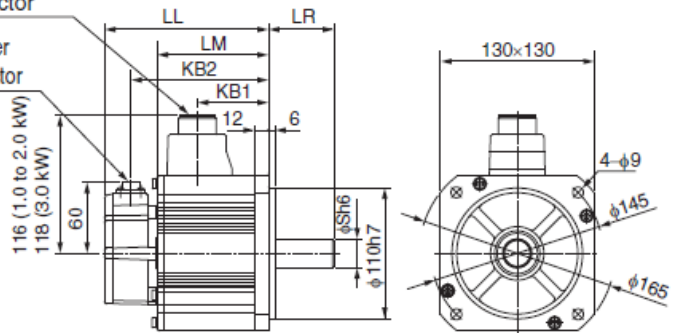
Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
形R88M-W2K915T-B□	243		105	221										
形R88M-W4K415T-B□	277	79	139	255	146	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	35 ^{+0.01} ₀

**Recommended Replacement
R88M-K□**

R88M-K1K020T-B/-K1K520T-B/
-K2K020T-B/-K3K020T-B

Motor and brake
connector

Encoder
connector

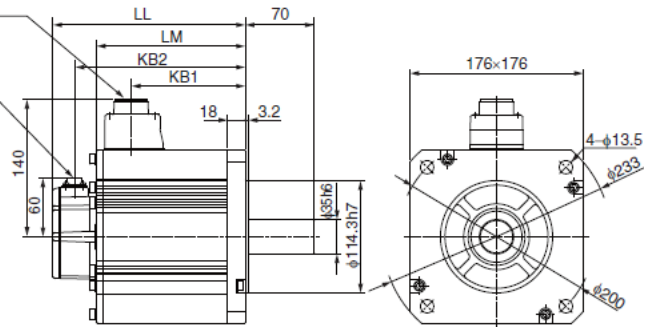


Model	Dimensions (mm)					
	LL	LR	LM	S	KB1	KB2
R88M-K1K020□-B□	163	55	119	22	60	141
R88M-K1K520□-B□	180.5	55	136.5	22	77.5	158.5
R88M-K2K020□-B□	198	55	154	22	95	176
R88M-K3K020□-B□	233	65	189	24	127	211

R88M-K4K020T-B/-K5K020T-B

Motor and brake
connector

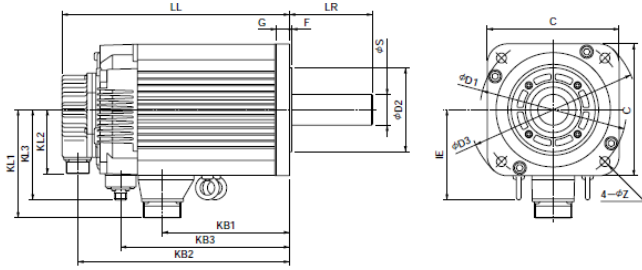
Encoder
connector



Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K4K020□-B□	202	158	96	180
R88M-K5K020□-B□	221	177	115	199

Product discontinuation
R88M-W□

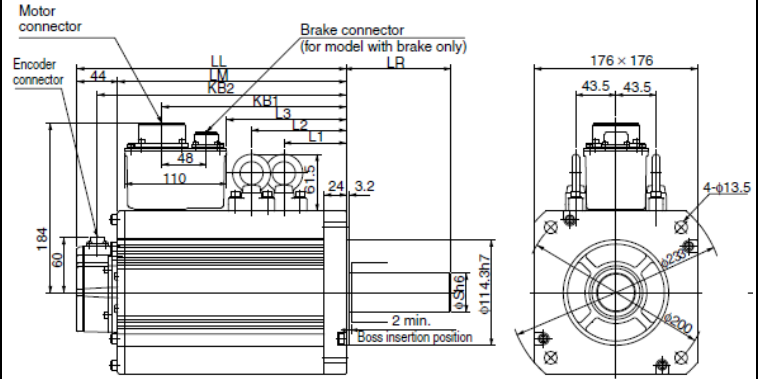
R88M-W5K515T-B/-W7K515T-B/
-W11K015T-B/-W15K015T-B



Model	Dimensions (mm)																
	LL	LR	KB1	KB2	KB3	KL1	KL2	KL3	IE	C	#D1	D2	D3	F	G	Z	S
R88M-W5K515T-B□	311	113	174	209	231	150	88	123	123	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	42h6
R88M-W7K515T-B□	365		248	303	306							114.3 ⁰ _{-0.025}					
R88M-W11K015T-B□	383	118	258	362	315	188	88	142	142	220	235	200h7	270	4	18	13.5	42h6
R88M-W15K015T-B□	519		343	497	415				150								55 ^{+0.030} _{-0.011}

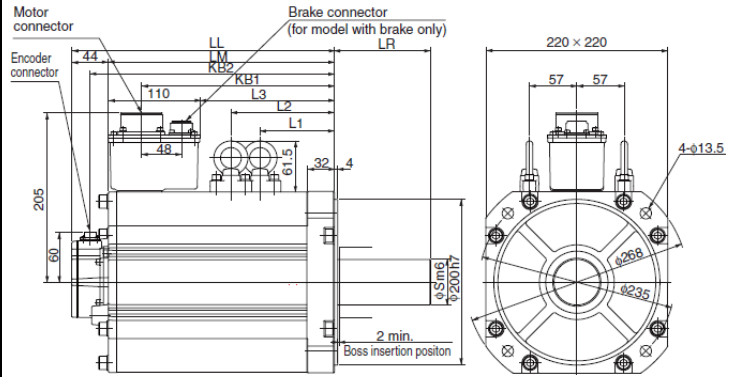
Recommended Replacement
R88M-K□

R88M-K7K515T-B



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K7K515T-B□	337	113	293	42	253	315	117.5	152.5	183

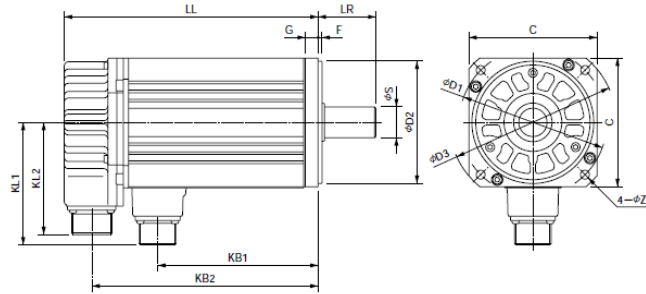
R88M-K11K015T-B/-K15K015T-B



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K11K015T-B□	364	116	320	55	266	342	124.5	159.5	196
R88M-K15K015T-B□	432	116	388	55	334	410	158.5	193.5	264

**Product discontinuation
R88M-W□**

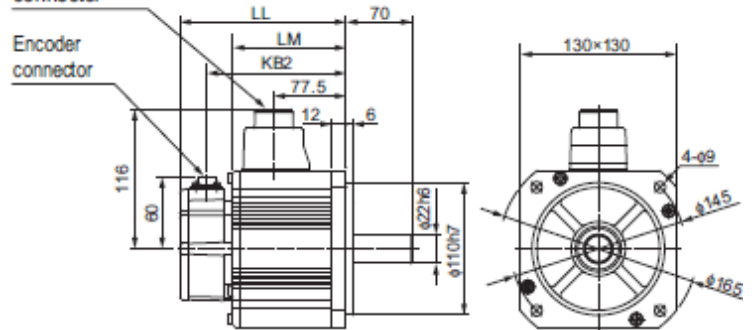
R88M-W30010□/-W60010□ /
-W90010□/-W1K210□/-W2K010□/-W3K010□



Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W30010□-□	138	58	65	117	100	88	130	145	110h7	165	6	12	9	19h6
R88M-W60010□-□	161		88	140										22h6
R88M-W90010□-□	185		112	164										
R88M-W1K210□-□	166	79	89	144	140	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	36 ^{+0.01} ₀
R88M-W2K010□-□	192		115	170										
R88M-W3K010□-□	226		149	204										

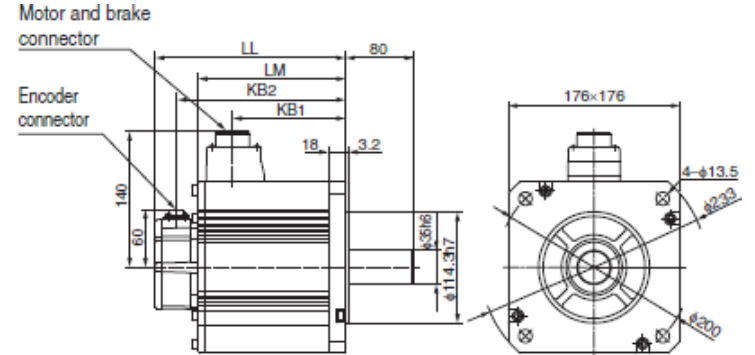
**Recommended Replacement
R88M-K□**

R88M-K90010□
Motor and brake
connector



Model	Dimensions (mm)		
	LL	LM	KB2
R88M-K90010□	155.5	111.5	133.5

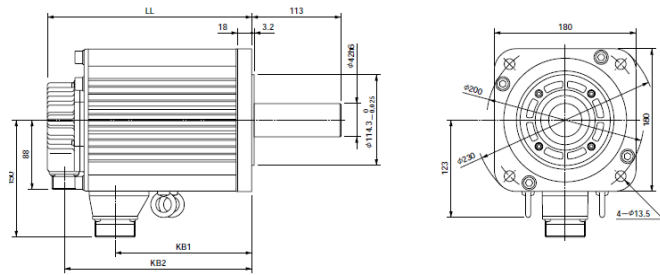
R88M-K2K010□/-K3K010□



Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K2K010□	163.5	119.5	82.5	141.5
R88M-K3K010□	209.5	165.5	128.5	187.5

Product discontinuation
R88M-W□

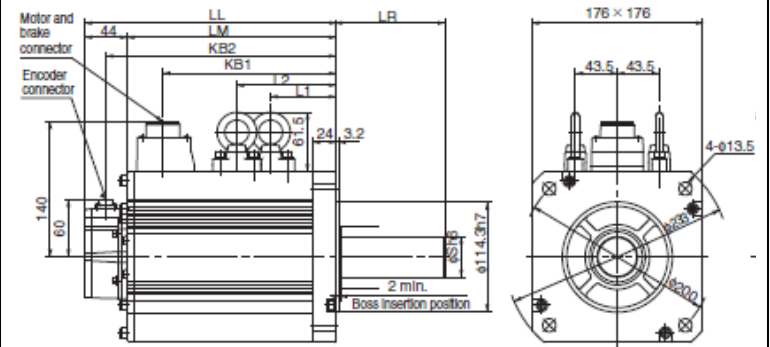
R88M-W4K010□/-W5K510□



Model	Dimensions (mm)		
	LL	KB1	KB2
R88M-W4K010□-□	260	174	238
R88M-W5K010□-□	334	248	312

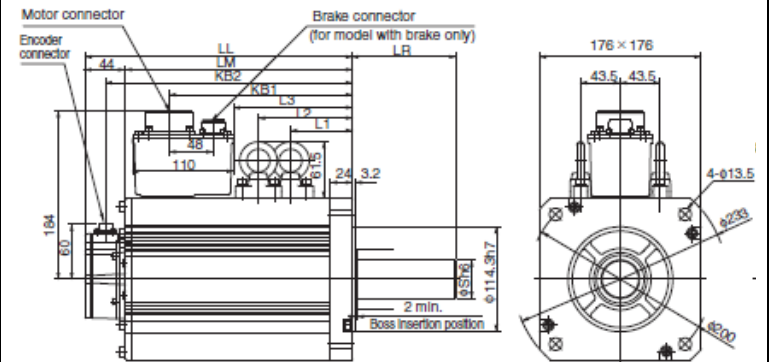
Recommended Replacement
R88M-K□

R88M-K4K510T



Model	Dimensions (mm)							
	LL	LR	LM	S	KB1	KB2	L1	L2
R88M-K4K510T□	266	113	222	42	185	244	98	98

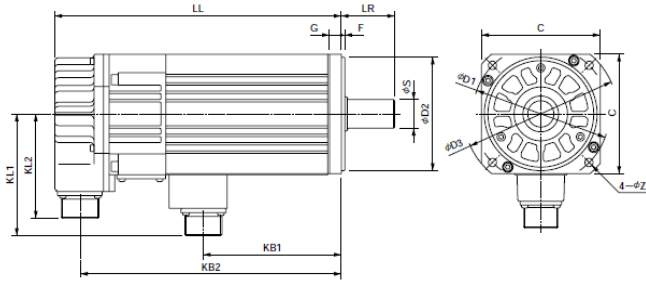
R88M-K6K010T



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K6K010T□	312	113	268	42	219	290	117.5	117.5	149

**Product discontinuation
R88M-W□**

R88M-W30010□-B/-W60010□-B/-W90010□-B/
-W1K210□-B/-W2K010□-B/-W3K010□-B

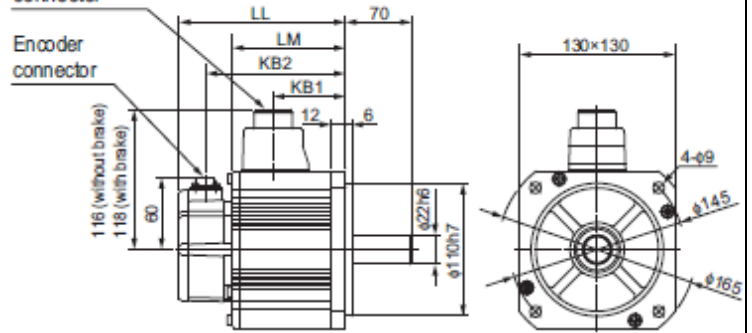


Model	Dimensions (mm)													
	LL	LR	KB1	KB2	KL1	KL2	C	D1	D2	D3	F	G	Z	S
R88M-W30010□-B□	176	58	56	154	120	88	130	145	110h7	105	6	12	9	19h6
R88M-W60010□-B□	199		79	177										22h6
R88M-W90010□-B□	223		103	201										22h6
R88M-W1K210□-B□	217	79	79	195	146	88	180	200	114.3 ⁰ _{-0.025}	230	3.2	18	13.5	35 ⁺ ₀ 0.01
R88M-W2K010□-B□	243		105	221										35 ⁺ ₀ 0.01
R88M-W3K010□-B□	277		139	255										35 ⁺ ₀ 0.01

**Recommended Replacement
R88M-K□**

R88M-K90010□-B

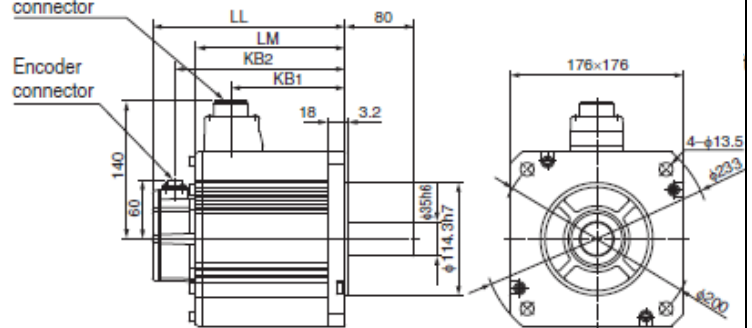
Motor and brake
connector



Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K90010□-B□	180.5	136.5	74.5	158.5

R88M-K2K010□-B/-K3K010□-B

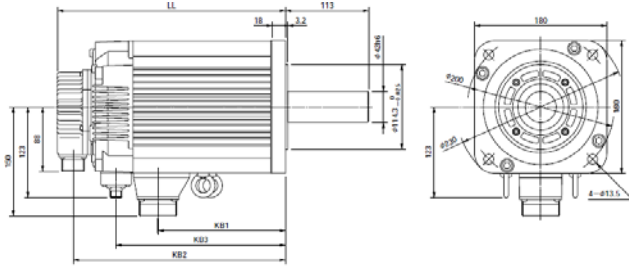
Motor and brake
connector



Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K2K010□-B□	188.5	144.5	82.5	166.5
R88M-K3K010□-B□	234.5	190.5	128.5	212.5

**Product discontinuation
R88M-W□**

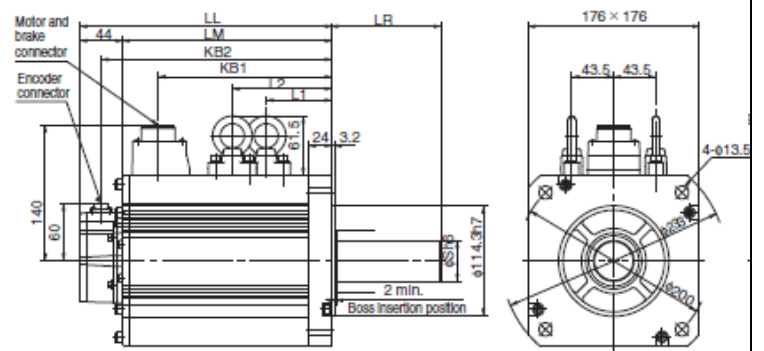
R88M-W4K010□-B/-W5K510□-B



Model	Dimensions (mm)			
	LL	KB1	KB2	KB3
R88M-W4K010□-B□	311	174	289	231
R88M-W5K510□-B□	365	248	363	305

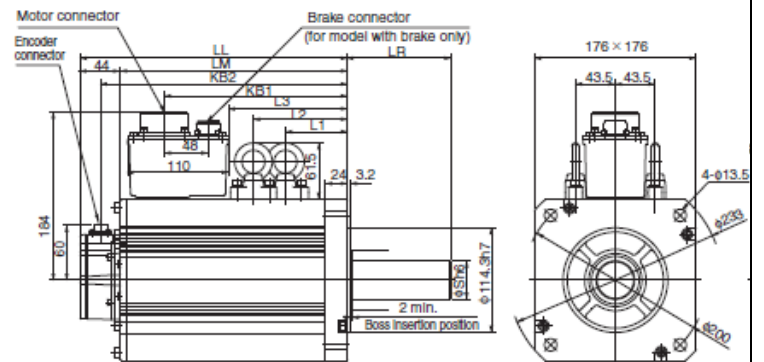
**Recommended Replacement
R88M-K□**

R88M-K4K510T-B



Model	Dimensions (mm)							
	LL	LR	LM	S	KB1	KB2	L1	L2
R88M-K4K510T-B□	291	113	247	42	185	269	98	133

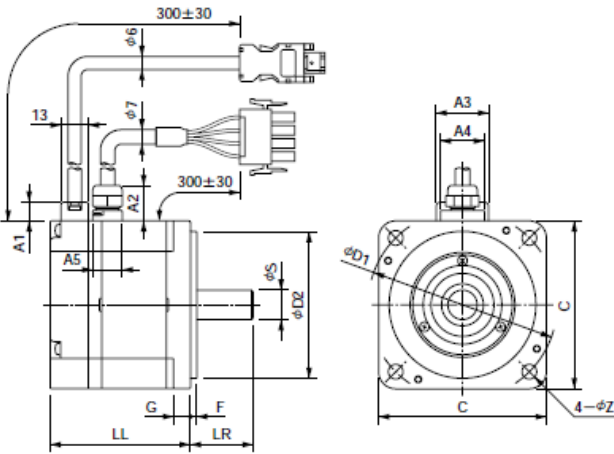
R88M-K6K010T-B



Model	Dimensions (mm)								
	LL	LR	LM	S	KB1	KB2	L1	L2	L3
R88M-K6K010T-B□	337	113	293	42	253	315	117.5	152.5	183

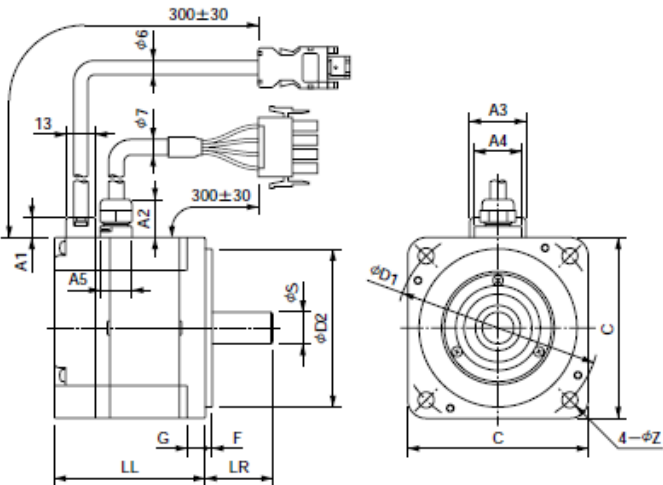
**Product discontinuation
R88M-W□**

R88M-WP10030□/-WP20030□/
-WP40030□



Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP 10030□-□	62	25	60	70	50h7	3	6	5.5	8h6
R88M-WP 20030□-□	67	30	80	90	70h7	3	8	7	14h6
R88M-WP 40030□-□	87								

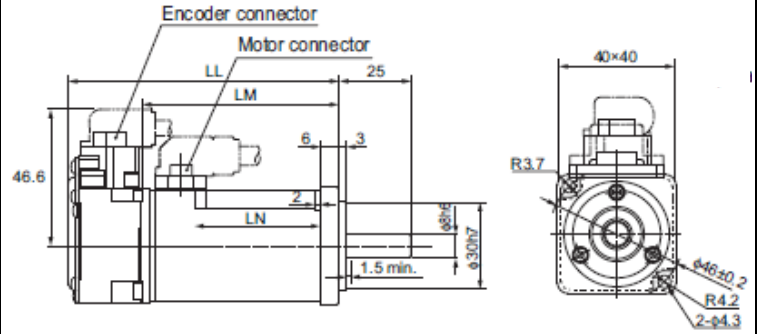
R88M-WP75030□



Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP 75030□-□	86.5	40	120	145	110h7	3.5	10	10	16h6

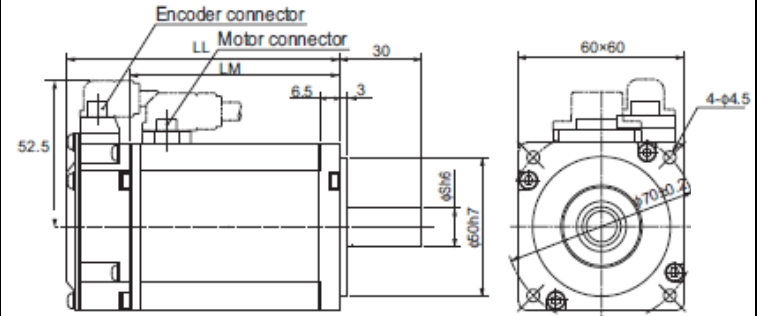
**Recommended Replacement
R88M-K□**

R88M-K10030□



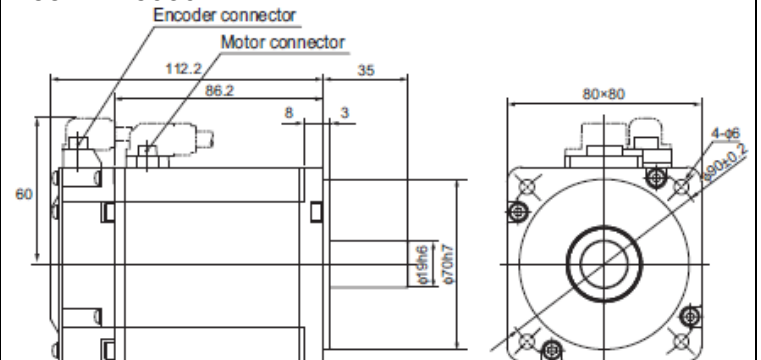
Model	Dimensions (mm)		
	LL	LM	LN
R88M-K10030□	92	68	43

R88M-K20030□/-K40030□



Model	Dimensions (mm)		
	LL	LM	S
R88M-K20030□	79.5	56.5	11
R88M-K40030□	99	76	14

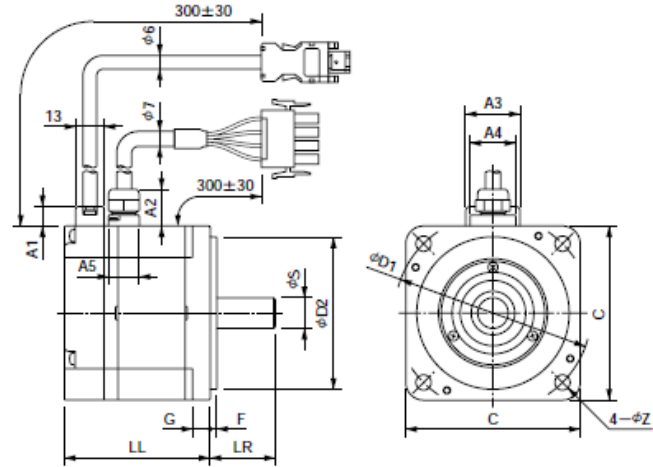
R88M-K75030□



Product discontinuation
R88M-W□

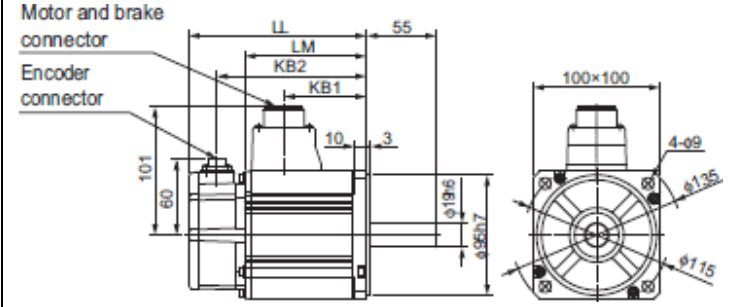
Recommended Replacement
R88M-K□

R88M-WP1K530□



Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP1K530□-□	114.5	40	120	145	110h7	3.5	10	10	19h6

R88M-K1K530□



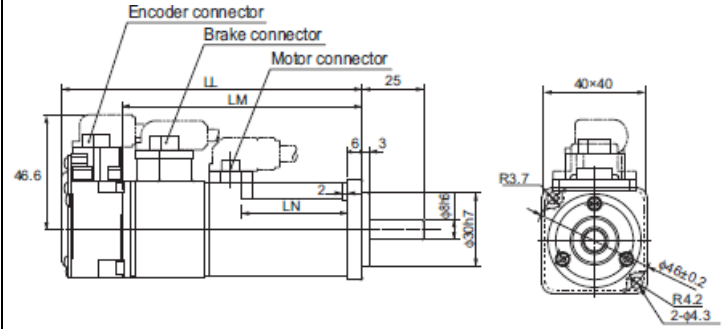
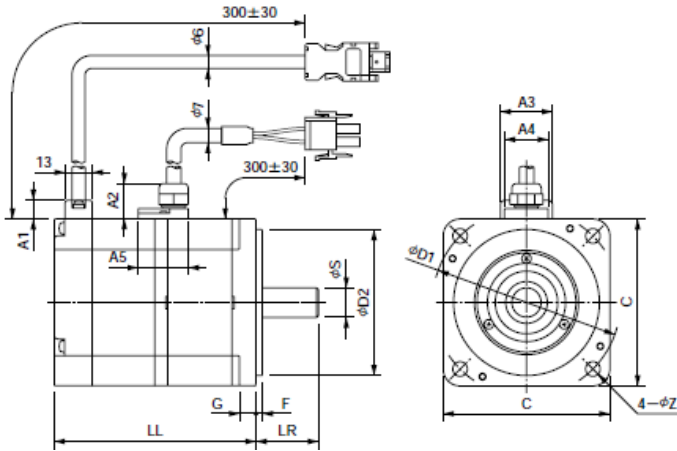
Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K1K530□	159.5	115.5	84.5	137.5

**Product discontinuation
R88M-W□**

**Recommended Replacement
R88M-K□**

R88M-WP10030□-B/-WP20030□-B/
-WP40030□-B

R88M-K10030□-B

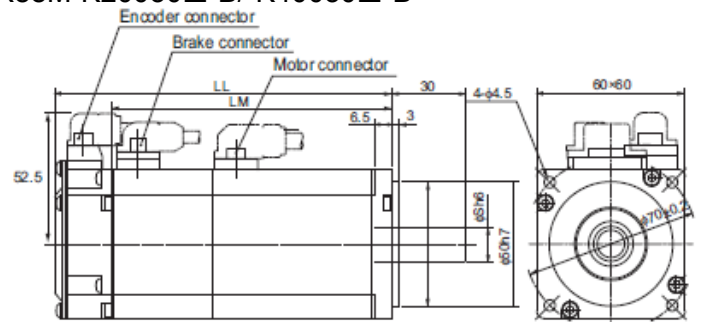
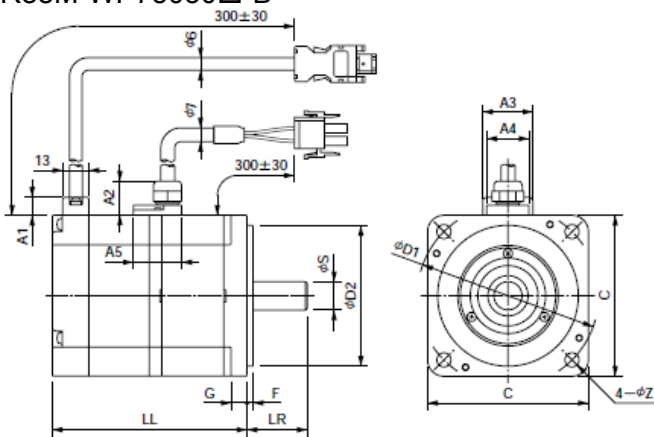


Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP 10030□-B□	91	25	60	70	50h7	3	6	5.5	8h6
R88M-WP 20030□-B□	98.5	30	80	90	70h7	3	8	7	14h6
R88M-WP 40030□-B□	118.5								

Model	Dimensions (mm)		
	LL	LM	LN
R88M-K10030□-B□	122	98	43

R88M-K20030□-B/-K40030□-B

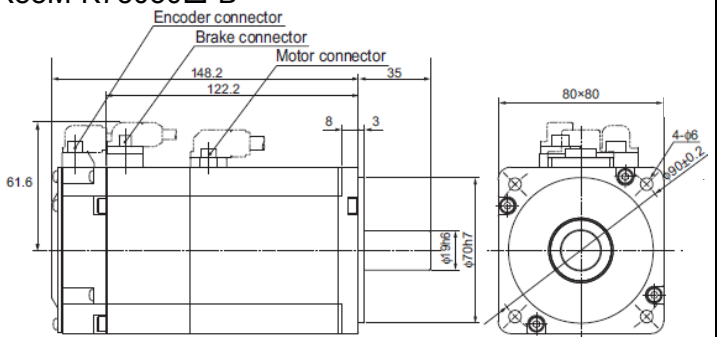
R88M-WP75030□-B



Model	Dimensions (mm)		
	LL	LM	S
R88M-K20030□-B□	116	93	11
R88M-K40030□-B□	135.5	112.5	14

R88M-K75030□-B

Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP 75030□-B□	120	40	120	145	110h7	3.5	10	10	18h6

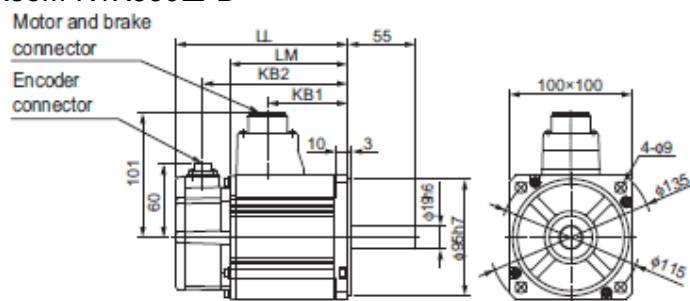
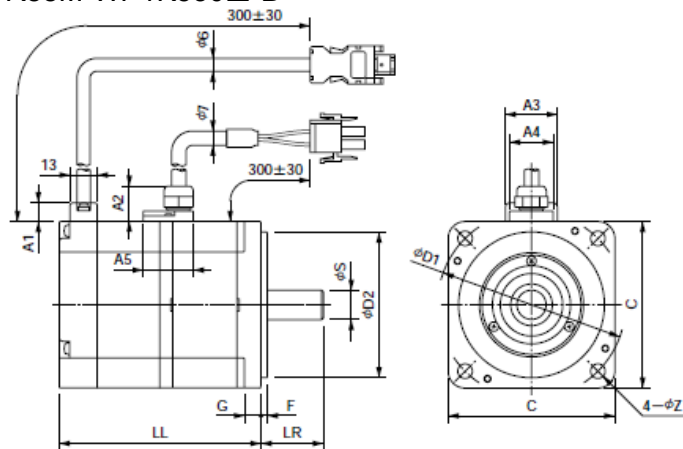


**Product discontinuation
R88M-W□**

**Recommended Replacement
R88M-K□**

R88M-WP1K530□-B

R88M-K1K530□-B



Model	Basic servomotor dimensions								
	LL	LR	C	D1	D2	F	G	Z	S
R88M-WP1K530□-B□	148	40	120	145	110h7	3.5	10	10	19h6

Model	Dimensions (mm)			
	LL	LM	KB1	KB2
R88M-K1K530□-B□	186.5	142.5	84.5	164.5

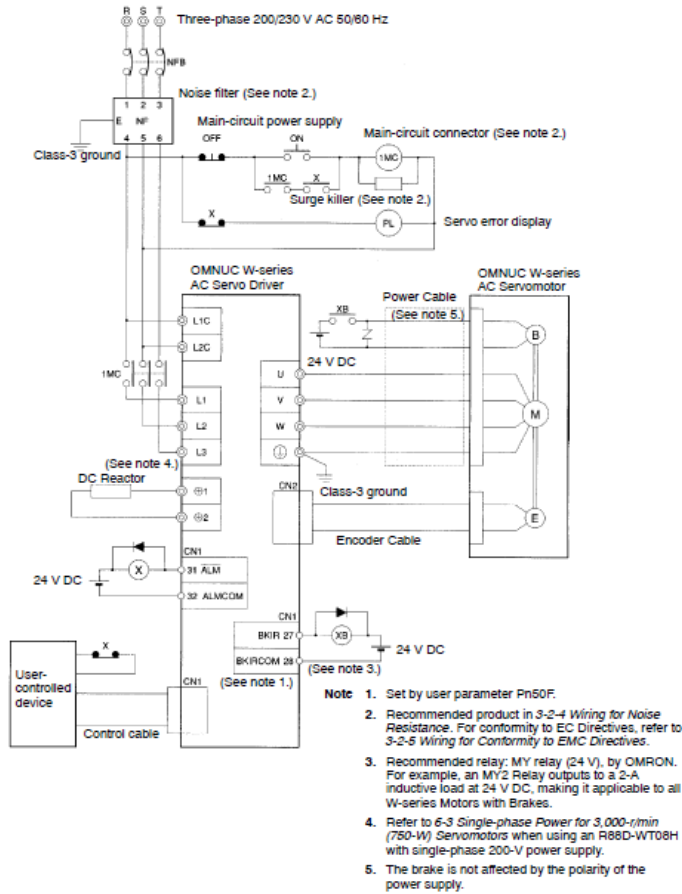
Terminal Arrangement/Wiring

Product discontinuation R88□-W series	Recommended Replacement R88□-K series
<p>● Servo Drive/Servomotor-Wiring</p> <p>■ R88D-WTA3HL/-WTA5HL/-WT01HL /-WT02HL/-WTA3H/-WTA5H/-WT01H /-WT02H/-WT04H</p> <p>Single-phase 100/115 V AC, 50/60 Hz: R88D-WT□□HL Single-phase 200/230 V AC, 50/60 Hz: R88D-WT□□CH</p> <p>Noise filter (See note 2.) Main-circuit power supply OFF ON Main-circuit connector (See note 2.) Class-3 ground Surge killer (See note 2.) Servo error display OMNUC W-series AC Servo Driver OMNUC W-series AC Servomotor Power Cable (See note 4.) 24 V DC DC Reactor Encoder Cable User-controlled device Control cable 24 V DC CN1 31 ALM 32 ALMCOM CN1 BKR 27 BKR/ROOM 28 (See note 1.) (See note 3.)</p> <p>Note</p> <ol style="list-style-type: none"> 1. Set by user parameter Pn50F. 2. Recommended product in 3-2-4 Wiring for Noise Resistance. For conformity to EC Directives, refer to 3-2-5 Wiring for Conformity to EMC Directives. 3. Recommended relay: MY Relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes. 4. The brake is not affected by the polarity of the power supply. 	<p>● Servo Drive/Servomotor-Wiring</p> <p>■ R88D-KTA5L/-KT01L/-KT02L -KT01H/-KT02H/-KT04H</p> <p>Single-phase 100 to 120 VAC, 50/60 Hz: R88D-KT□□L Single-phase 200 to 240 VAC, 50/60 Hz: R88D-KT□□H</p> <p>Noise filter (*1) Main circuit power supply OFF ON Main circuit connector (*1) Ground to 100 Ω or less. Surge suppressor (*1) Servo alarm display OMNUC G5-series AC Servo Drive OMNUC G5-series AC Servomotor Power cables (*3) 24 VDC Regeneration Resistor (*5) User-side control device Control cables 24 VDC CN1 37/ALM 36 ALMCOM CN1 OUTM1 (BKR) 11 OUTM1 COM 20 (2)</p> <p>Note</p> <ol style="list-style-type: none"> *1. Recommended products are listed in 4-3 Wiring Conforming to EMC Directives. *2. Recommended relay: MY relay by OMRON (24-V). For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated inductive load is 2 A (24 VDC). *3. There is no polarity on the brakes. *4. The Built-in Regeneration Resistor (KT04L, KT06H, KT10H and KT15H) shorts B2 and B3. When the amount of regeneration is large, remove the connection between B2 and B3 and connect the Regeneration Resistor between B1 and B2. *5. There is no internal Regeneration Resistor for KTA5L to KT02L, and KT01H to KT04H. When the amount of regeneration is large, connect the necessary Regeneration Resistor between B1 and B2.

Product discontinuation
R88□-W series

● Servo Drive/Servomotor-Wiring

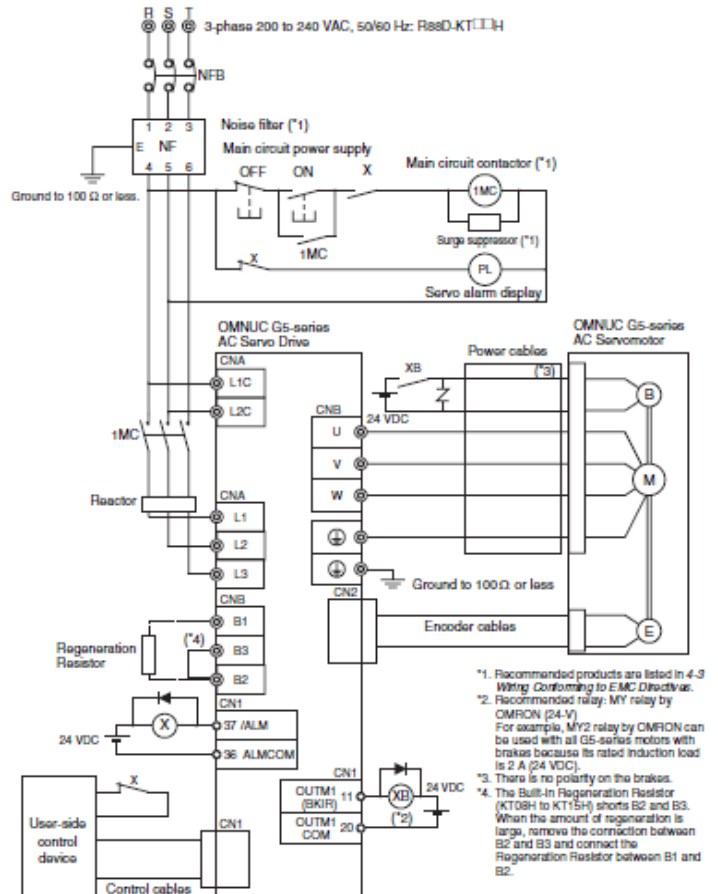
■ R88D-WT05H/-WT08H/-WT10H/-WT15H



Recommended Replacement
R88□-K series

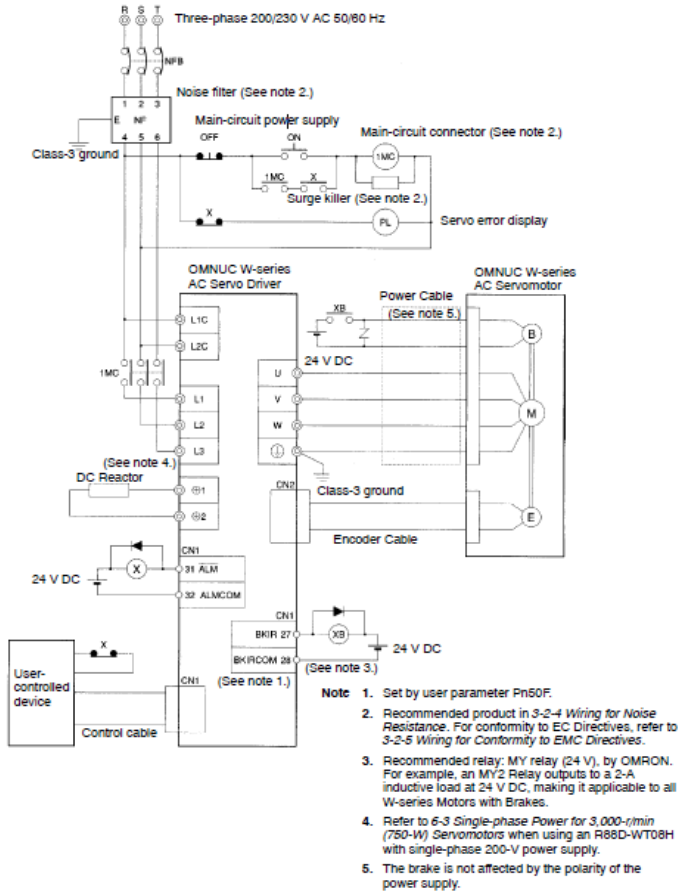
● Servo Drive/Servomotor-Wiring

■ R88D-KT08H/-KT10H/-KT15H



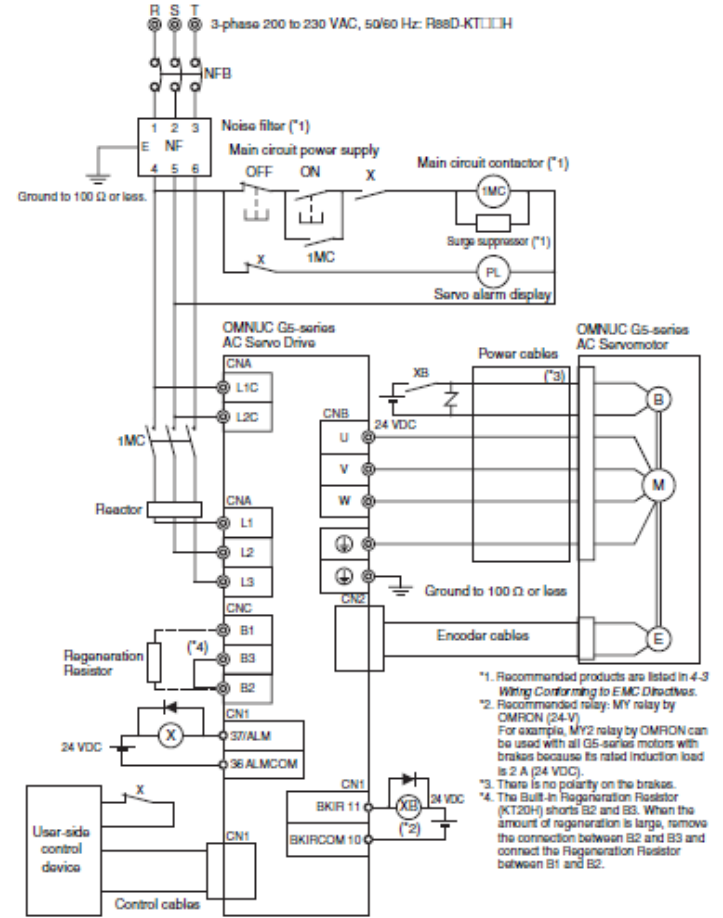
**Product discontinuation
R88□-W series**

● Servo Drive/Servomotor-Wiring
■ R88D-WT15H/-WT20H



**Recommended Replacement
R88□-K series**

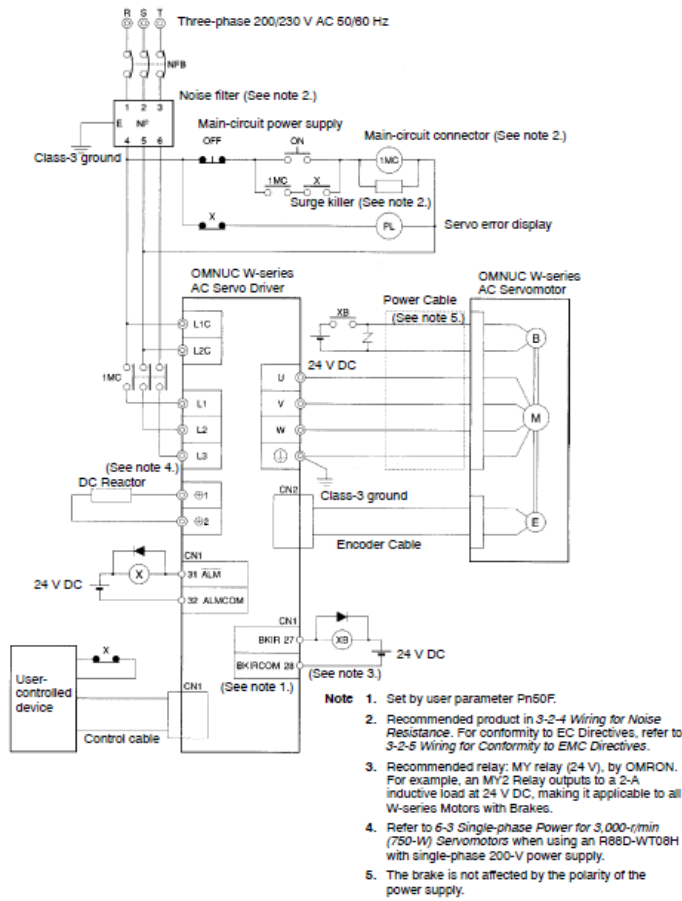
● Servo Drive/Servomotor-Wiring
■ R88D-KT15H/-KT20H



**Product discontinuation
R88□-W series**

● Servo Drive/Servomotor-Wiring

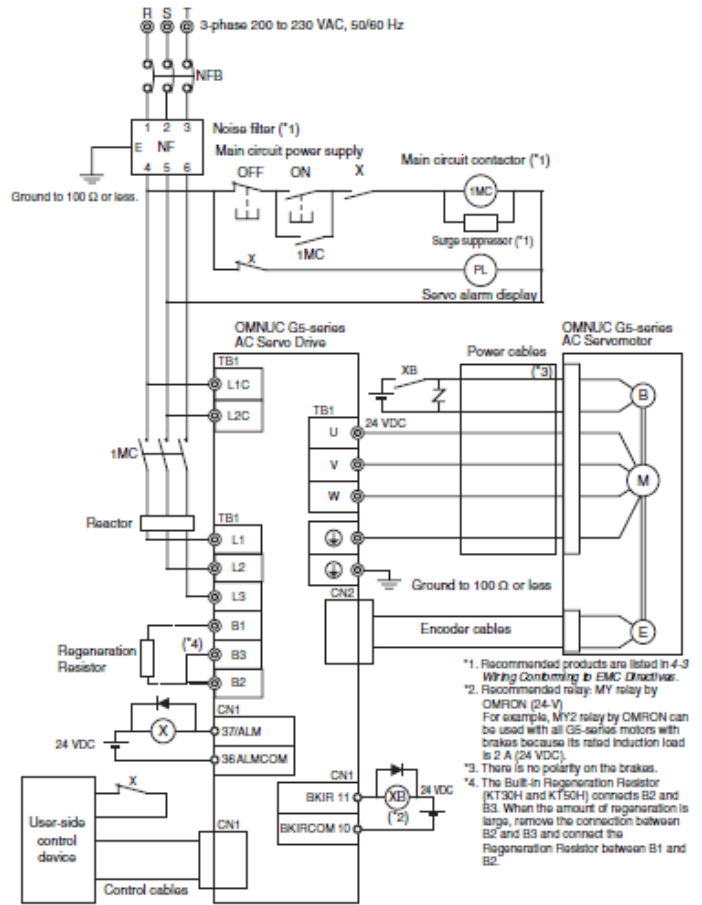
■ R88D-WT15H/-WT20H/-WT30H/-WT50H



**Recommended Replacement
R88□-K series**

● Servo Drive/Servomotor-Wiring

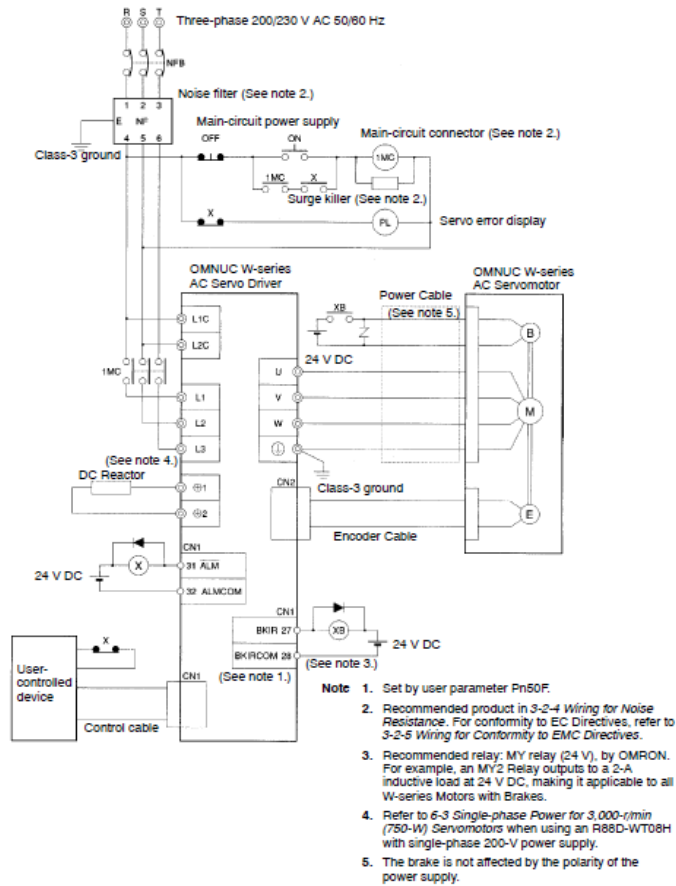
■ R88D-KT30H/-KT50H



**Product discontinuation
R88□-W series**

● Servo Drive/Servomotor-Wiring

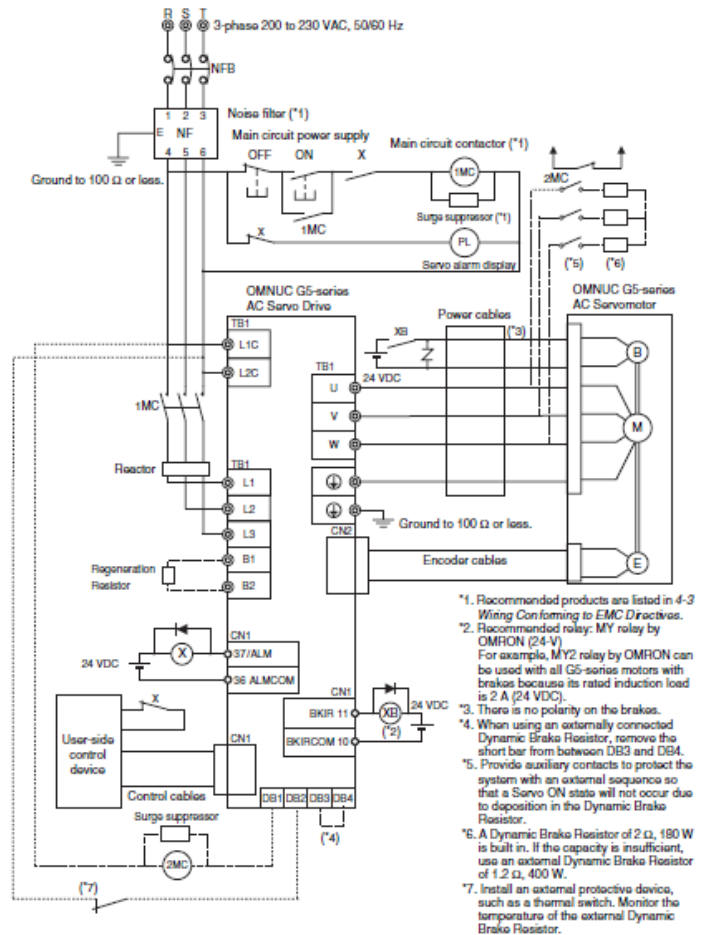
■ R88D-WT60H/-WT75H



**Recommended Replacement
R88□-K series**

● Servo Drive/Servomotor-Wiring

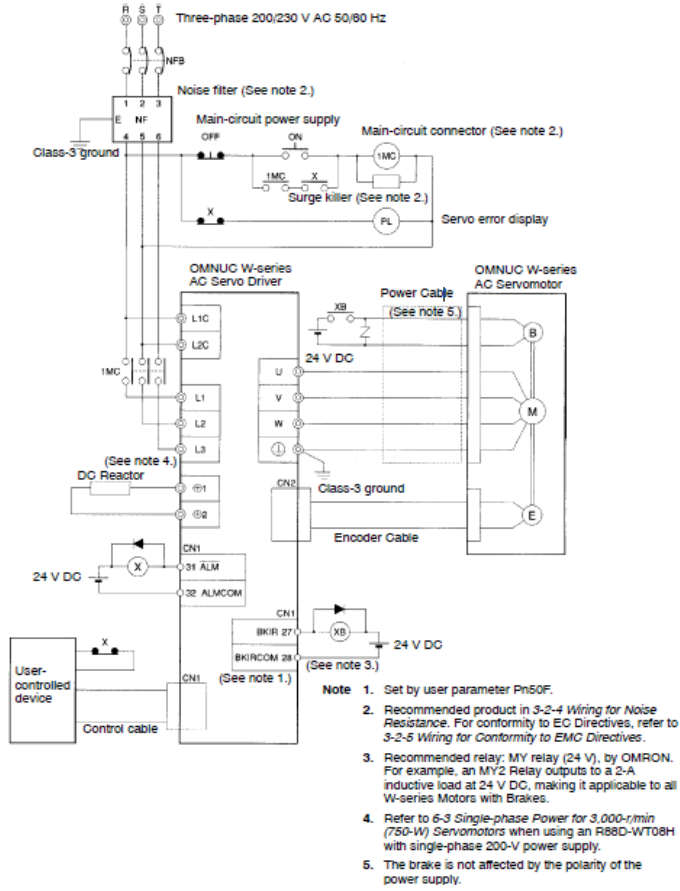
■ R88D-KT75H



**Product discontinuation
R88□-W series**

● Servo Drive/Servomotor-Wiring

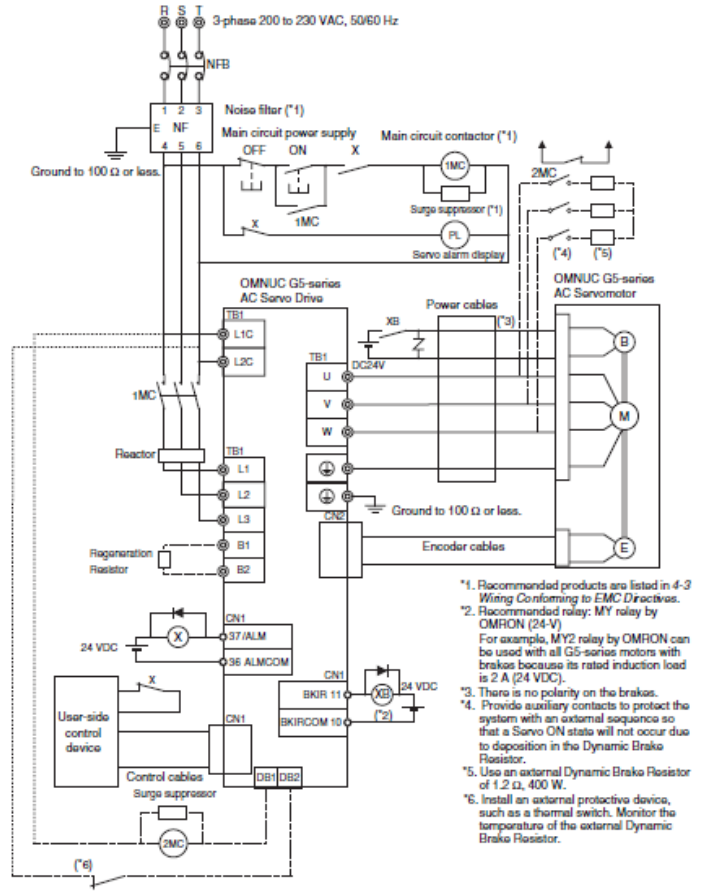
■ R88D-WT150H



**Recommended Replacement
R88□-K series**

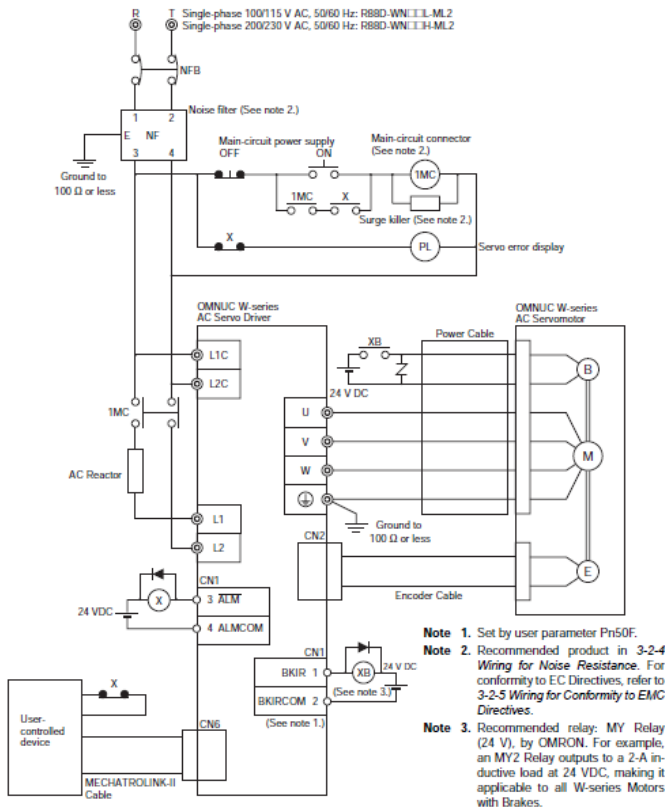
● Servo Drive/Servomotor-Wiring

■ R88D-KT150H



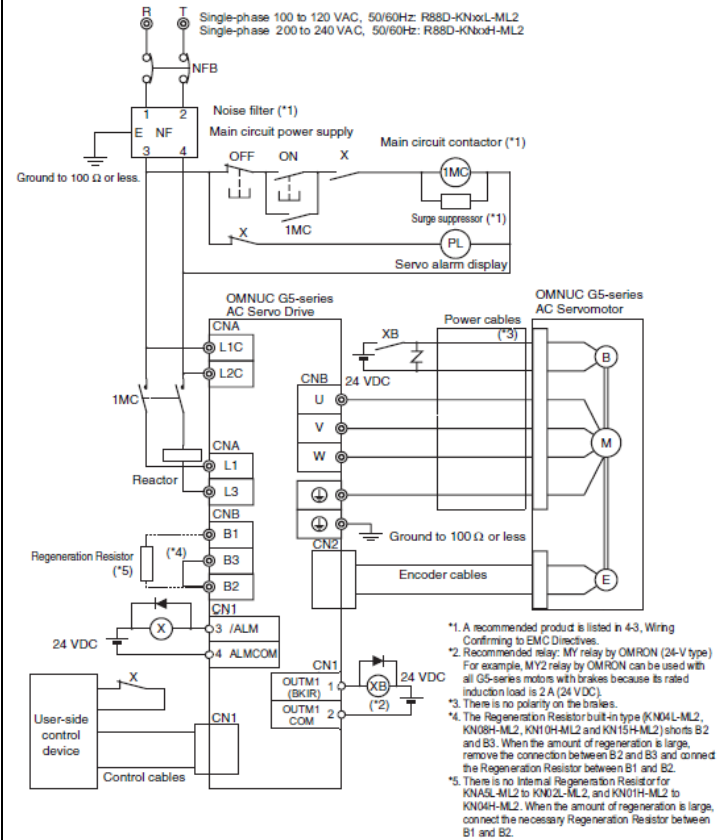
Product discontinuation
R88□-W series

- Servo Drive/Servomotor-Wiring
- R88D-WNA5L-ML2/-WN01L-ML2/
-WN02L-ML2/-WN04L-ML2/
-WNA5H-ML2/-WN01H-ML2/
-WN02H-ML2/-WN04H-ML2



Recommended Replacement
R88□-K series

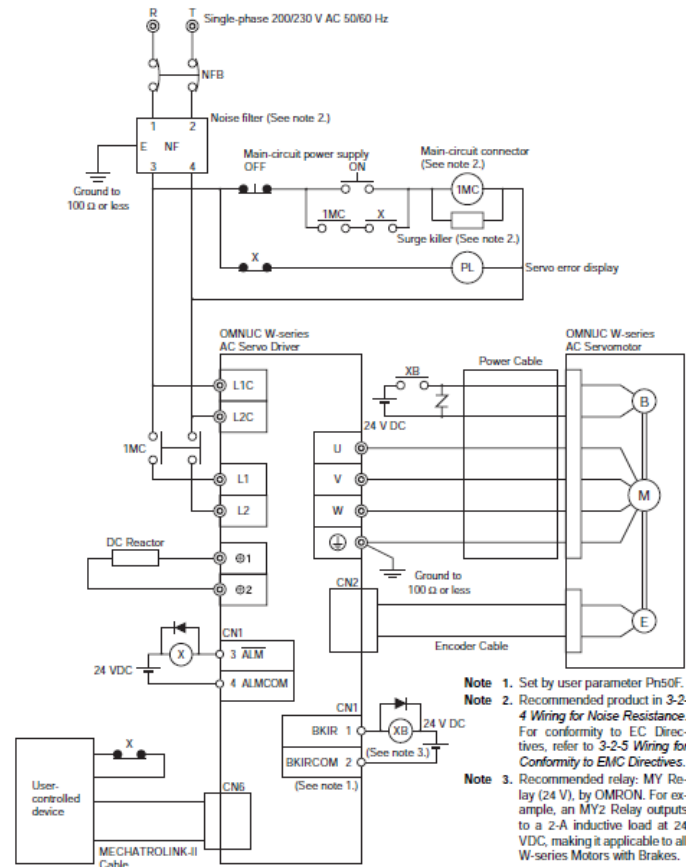
- Servo Drive/Servomotor-Wiring
- R88D-KNA5L-ML2/-KN01L-ML2/
-KN02L-ML2/-KN04L-ML2/
-KN01H-ML2/-KN02H-ML2/
-KT04H-ML2



Product discontinuation
R88□-W series

● Servo Drive/Servomotor-Wiring

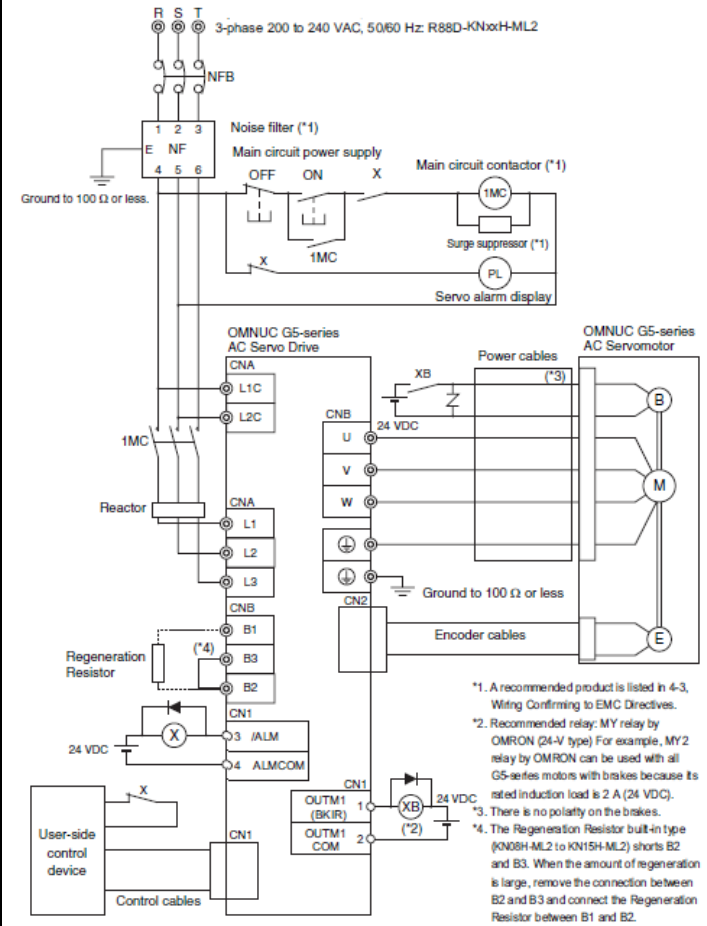
■ R88D-WN08H-ML2



Recommended Replacement
R88□-K series

● Servo Drive/Servomotor-Wiring

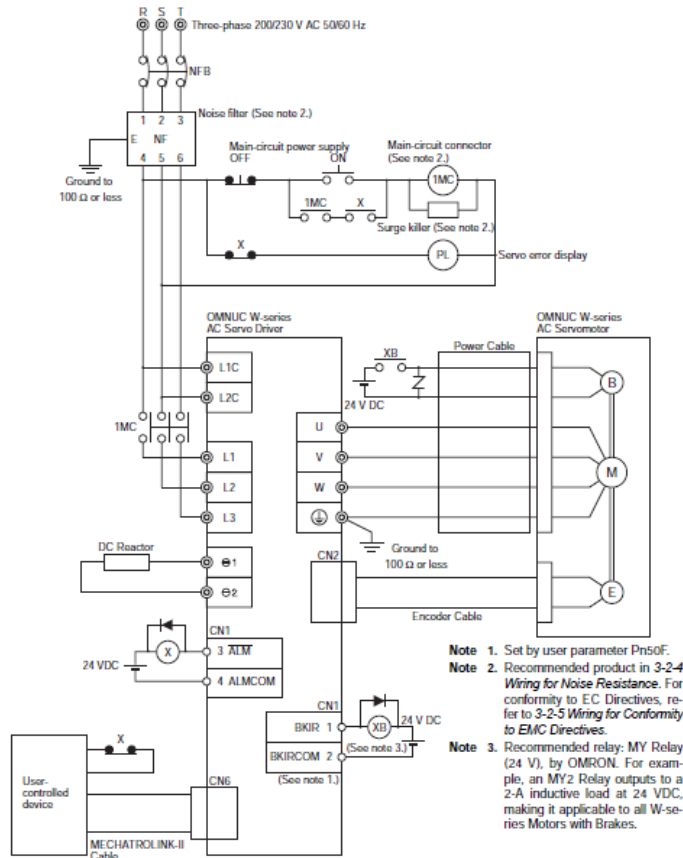
■ R88D-KN08H-ML2



**Product discontinuation
R88[]-W series**

● Servo Drive/Servomotor-Wiring

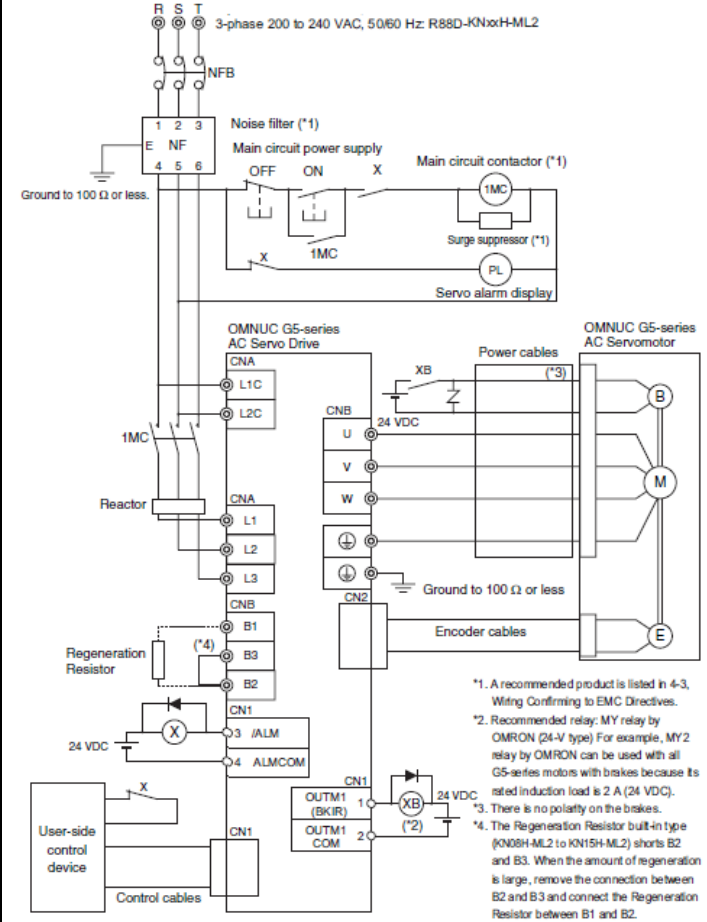
■ R88D-WN05H-ML2/-WN10H-ML2/-WN15H-ML2



**Recommended Replacement
R88[]-K series**

● Servo Drive/Servomotor-Wiring

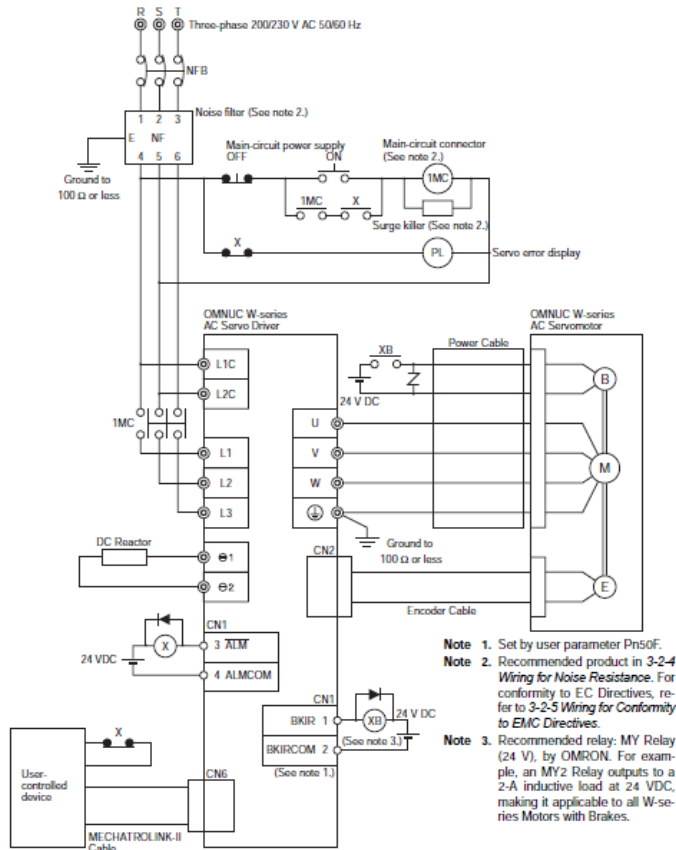
■ R88D-KN10H-ML2/-KN15H-ML2



Product discontinuation
R88□-W series

● Servo Drive/Servomotor-Wiring

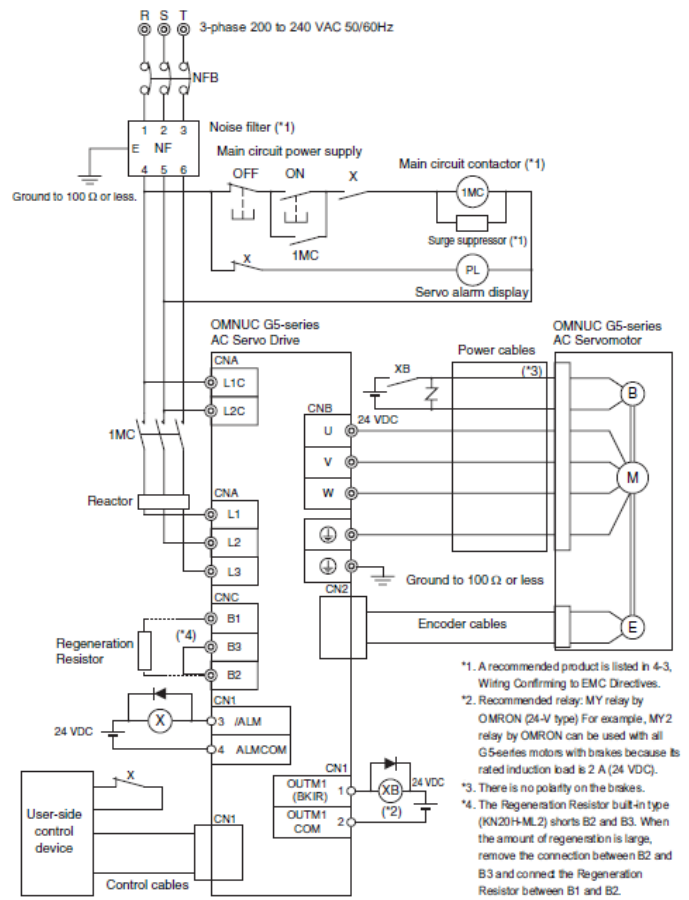
■ R88D-WN15H-ML2/-WN20H-ML2



Recommended Replacement
R88□-K series

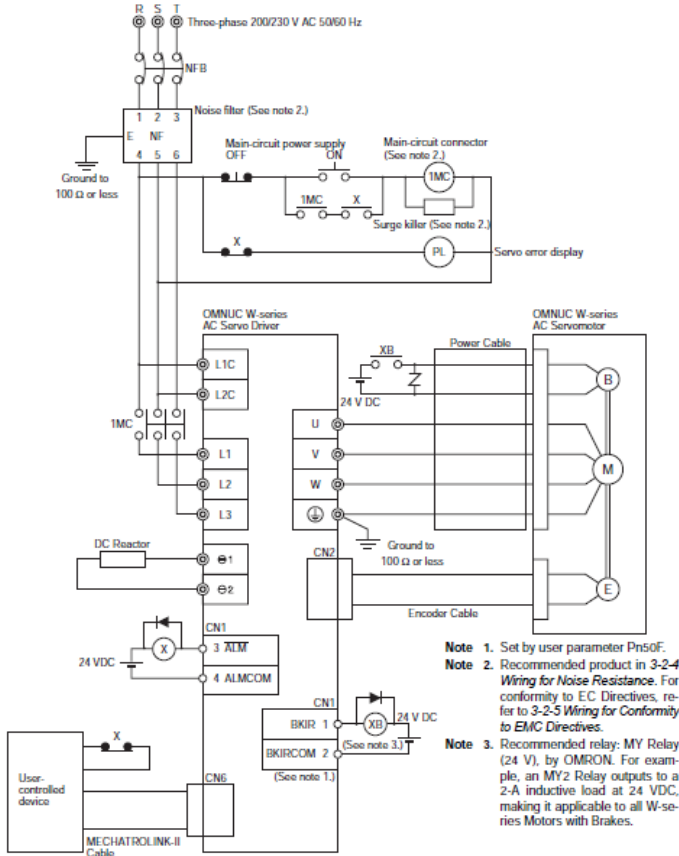
● Servo Drive/Servomotor-Wiring

■ R88D-KN20H-ML2



Product discontinuation
R88□-W series

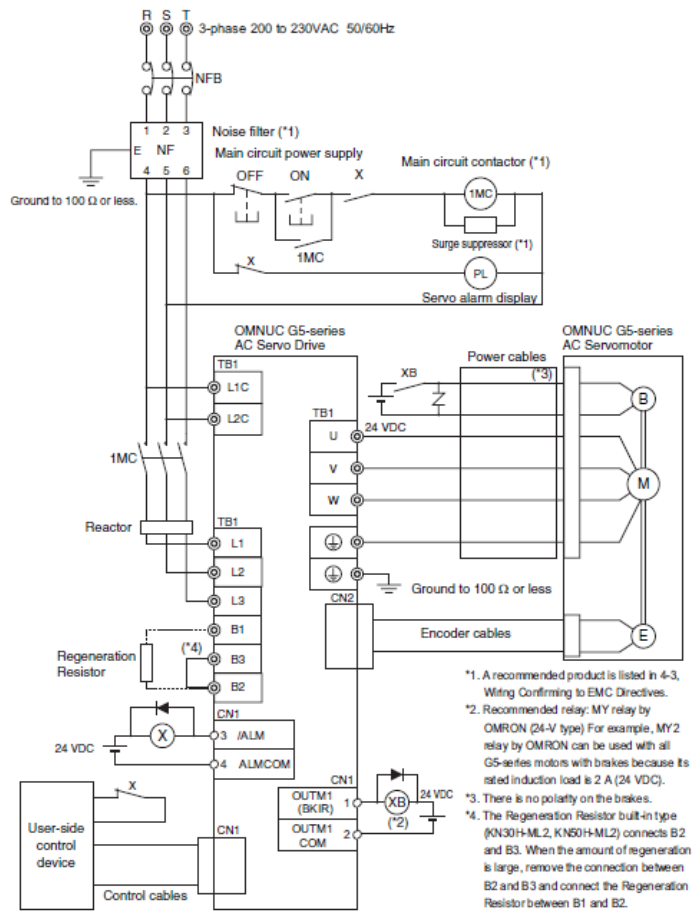
- Servo Drive/Servomotor-Wiring
- R88D-WN30H-ML2



- Note 1.** Set by user parameter Pn50F.
Note 2. Recommended product in 3-2-4 Wiring for Noise Resistance. For conformity to EMC Directives, refer to 3-2-5 Wiring for Conformity to EMC Directives.
Note 3. Recommended relay: MY Relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 VDC, making it applicable to all W-series Motors with Brakes.

Recommended Replacement
R88□-K series

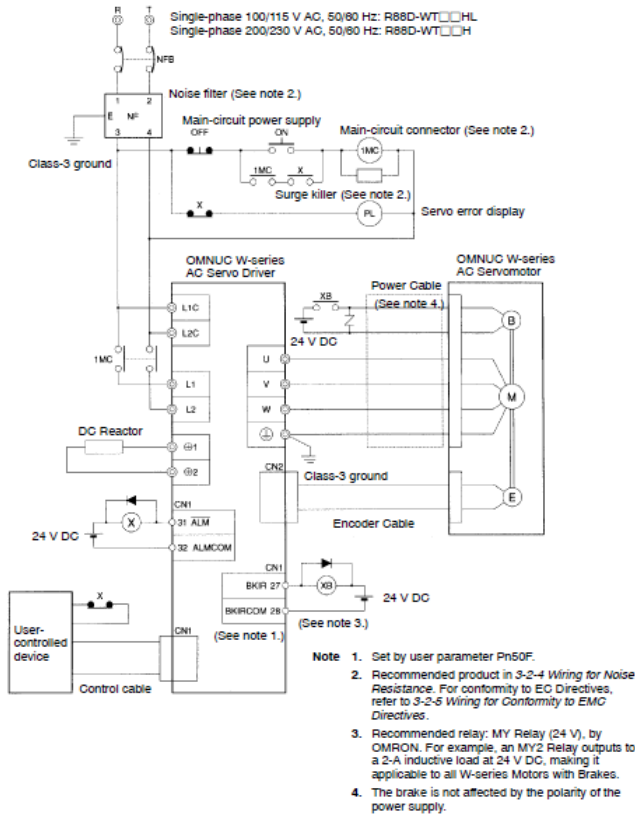
- Servo Drive/Servomotor-Wiring
- R88D-KN30H-ML2



- *1. A recommended product is listed in 4-3, Wiring Confirming to EMC Directives.
*2. Recommended relay: MY relay by OMRON (24-V type) For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated inductive load is 2 A (24 VDC).
*3. There is no polarity on the brakes.
*4. The Regeneration Resistor built-in type (KN30H-ML2, KN60H-ML2) connects B2 and B3. When the amount of regeneration is large, remove the connection between B2 and B3 and connect the Regeneration Resistor between B1 and B2.

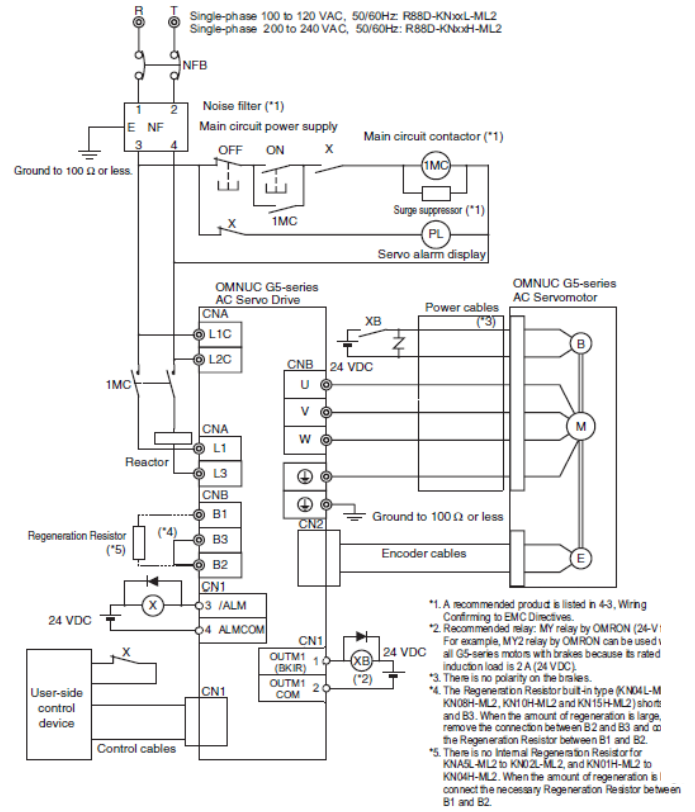
Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

- Servo Drive/Servomotor-Wiring
- FNY-NS115+
- R88D-WTA3HL/-WTA5HL/-WT01HL/-WT02HL/
 -WTA3H/-WTA5H/-WT01H/-WT02H/-WT04H



Recommended Replacement
R88□-K series

- Servo Drive/Servomotor-Wiring
- R88D-KNA5L-ML2/-KN01L-ML2/-KN02L-ML2/
 -KN01H-ML2/-KN02H-ML2/-KN04H-ML2



Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

Recommended Replacement
R88□-K series

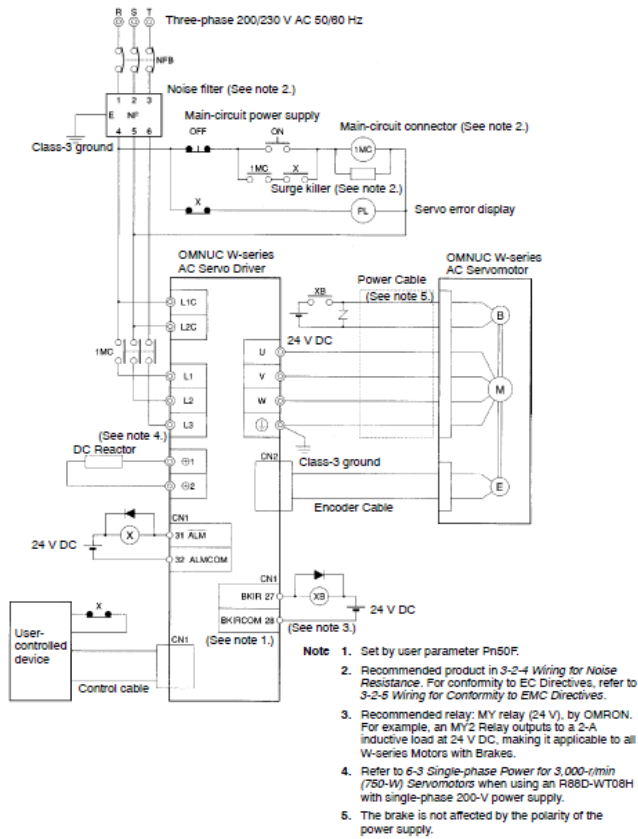
Servo Drive/Servomotor-Wiring

■ **FNY-NS115+**

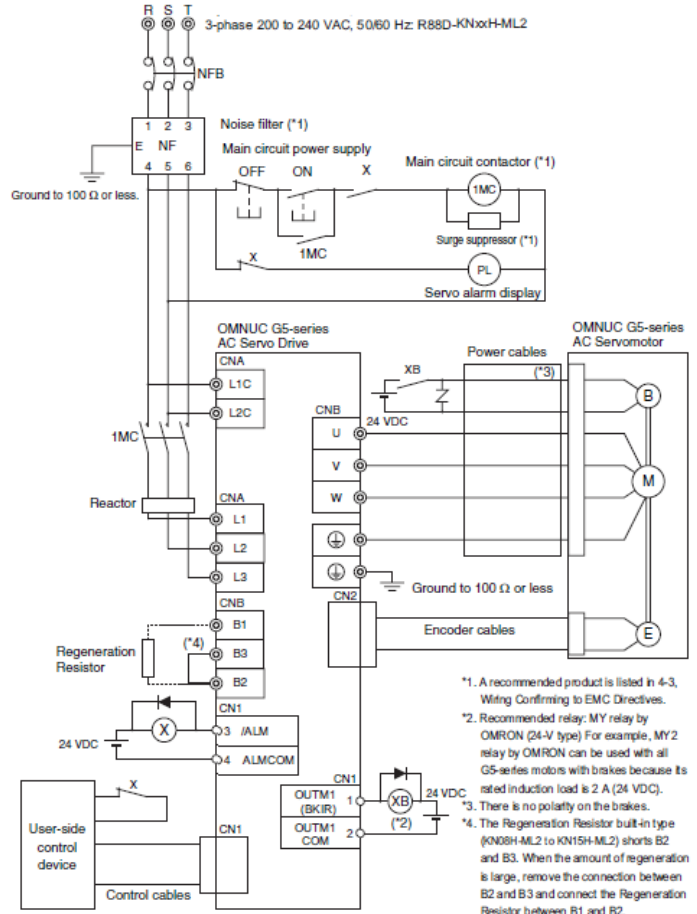
R88D-WT05H/-WT08H/-WT10H/-WT15H

● **Servo Drive/Servomotor-Wiring**

■ **R88D-KN08H-ML2/-KN10H-ML2/-KN15H-ML2**



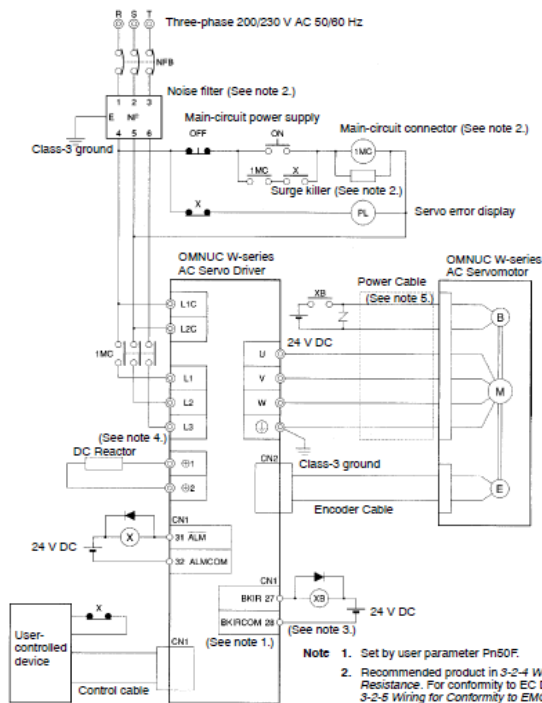
- Note**
1. Set by user parameter Pr50F.
 2. Recommended product in 3-2-4 *Wiring for Noise Resistance*. For conformity to EC Directives, refer to 3-2-5 *Wiring for Conformity to EMC Directives*.
 3. Recommended relay: MY relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes.
 4. Refer to 6-3 *Single-phase Power for 3,000-r/min (750-W) Servomotors* when using an R88D-WT08H with single-phase 200-V power supply.
 5. The brake is not affected by the polarity of the power supply.



- *1. A recommended product is listed in 4-3, *Wiring Confirming to EMC Directives*.
- *2. Recommended relay: MY relay by OMRON (24-V type) For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated inductive load is 2 A (24 VDC).
- *3. There is no polarity on the brakes.
- *4. The Regeneration Resistor built-in type (KN08H-ML2 to KN15H-ML2) shorts B2 and B3. When the amount of regeneration is large, remove the connection between B2 and B3 and connect the Regeneration Resistor between B1 and B2.

Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

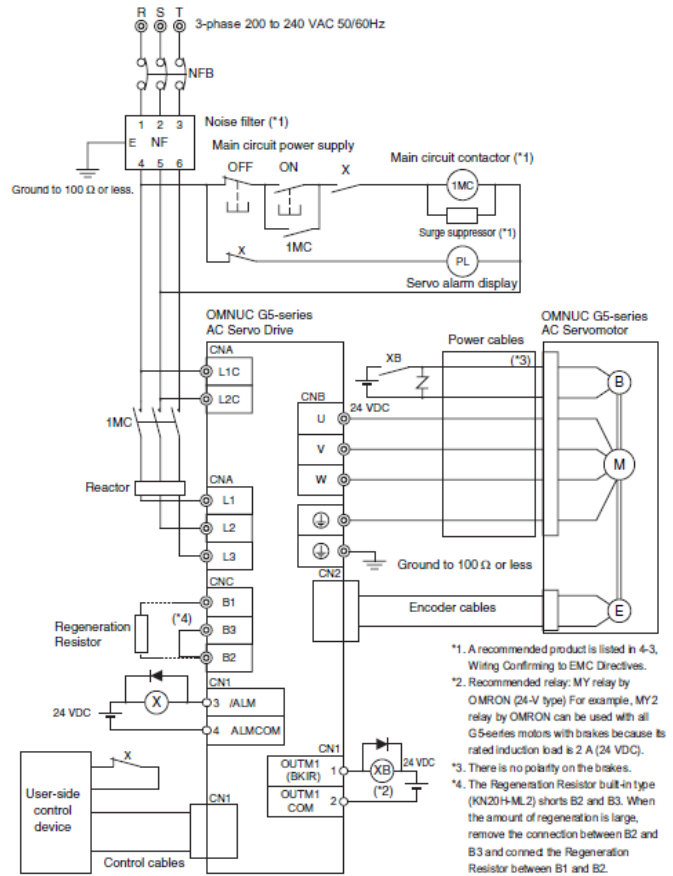
- Servo Drive/Servomotor-Wiring
- FNY-NS115+
- R88D-WT15H/-WT20H



- Note**
1. Set by user parameter Pn50F.
 2. Recommended product in 3-2-4 Wiring for Noise Resistance. For conformity to EC Directives, refer to 3-2-5 Wiring for Conformity to EMC Directives.
 3. Recommended relay: MY relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes.
 4. Refer to 6-3 Single-phase Power for 3,000-r/min (760-W) Servomotors when using an R88D-WT08H with single-phase 200-V power supply.
 5. The brake is not affected by the polarity of the power supply.

Recommended Replacement
R88□-K series

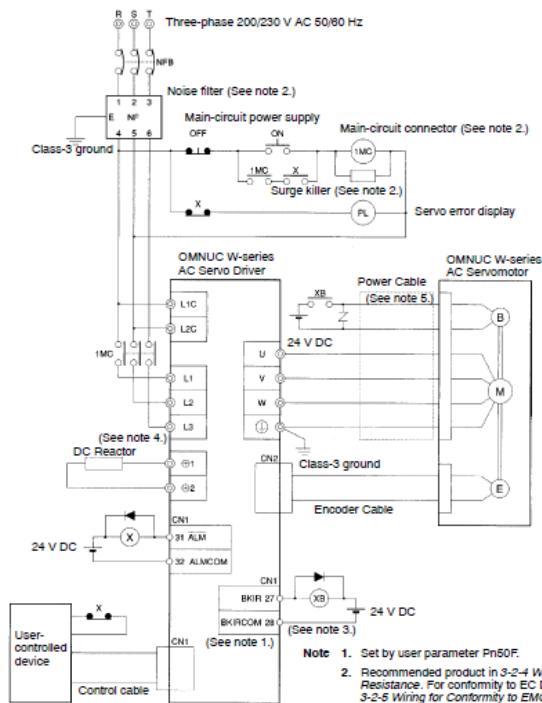
- Servo Drive/Servomotor-Wiring
- R88D-KN20H-ML2



- *1. A recommended product is listed in 4-3, Wiring Confirming to EMC Directives.
 *2. Recommended relay: MY relay by OMRON (24-V type) For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated inductive load is 2 A (24 VDC).
 *3. There is no polarity on the brakes.
 *4. The Regeneration Resistor built-in type (KN20H-ML2) shorts B2 and B3. When the amount of regeneration is large, remove the connection between B2 and B3 and connect the Regeneration Resistor between B1 and B2.

Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

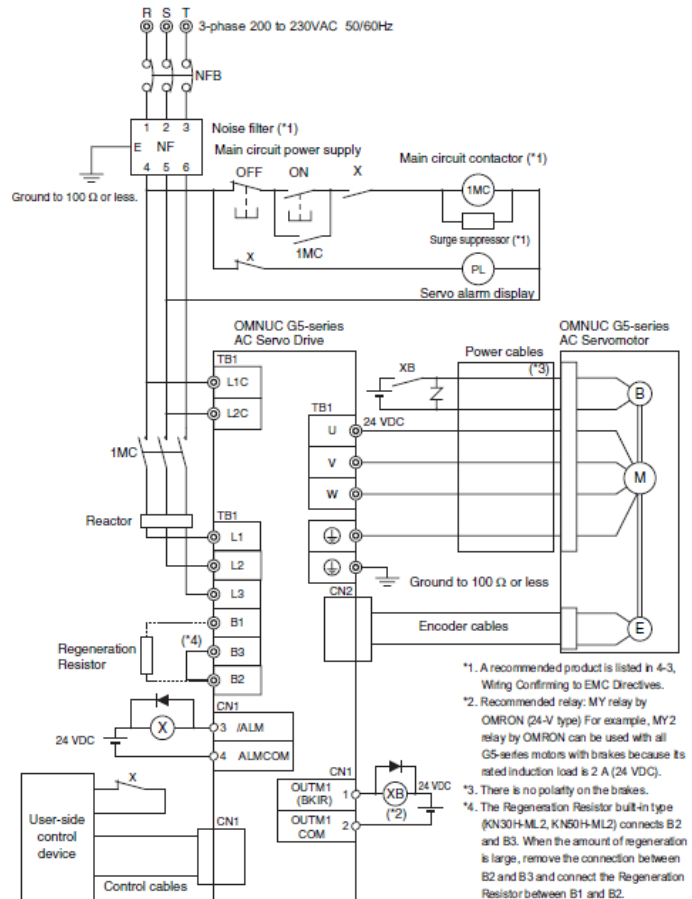
- Servo Drive/Servomotor-Wiring
- FNY-NS115+
- R88D-WT15H/-WT20H/-WT30H/-WT50H



- Note**
1. Set by user parameter Pn50F.
 2. Recommended product in 3-2-4 *Wiring for Noise Resistance*. For conformity to EC Directives, refer to 3-2-5 *Wiring for Conformity to EMC Directives*.
 3. Recommended relay: MY relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes.
 4. Refer to 6-3 *Single-phase Power for 3,000-r/min (760-W) Servomotors* when using an R88D-WT□H with single-phase 200-V power supply.
 5. The brake is not affected by the polarity of the power supply.

Recommended Replacement
R88□-K series

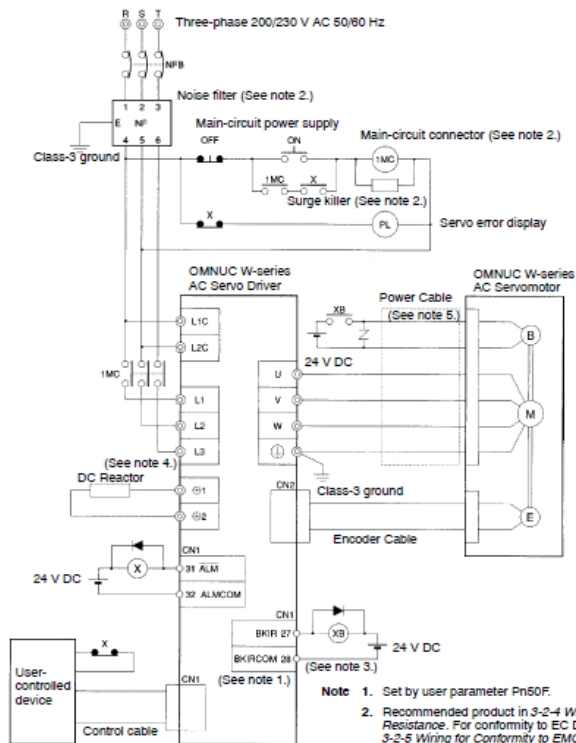
- Servo Drive/Servomotor-Wiring
- R88D-KN30H-ML2/-KN50H-ML2



- *1. A recommended product is listed in 4-3, *Wiring* Confirming to EMC Directives.
- *2. Recommended relay: MY relay by OMRON (24-V type) For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated inductive load is 2 A (24 VDC).
- *3. There is no polarity on the brakes.
- *4. The Regeneration Resistor built-in type (KN30H-ML2, KN50H-ML2) connects B2 and B3. When the amount of regeneration is large, remove the connection between B2 and B3 and connect the Regeneration Resistor between B1 and B2.

Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

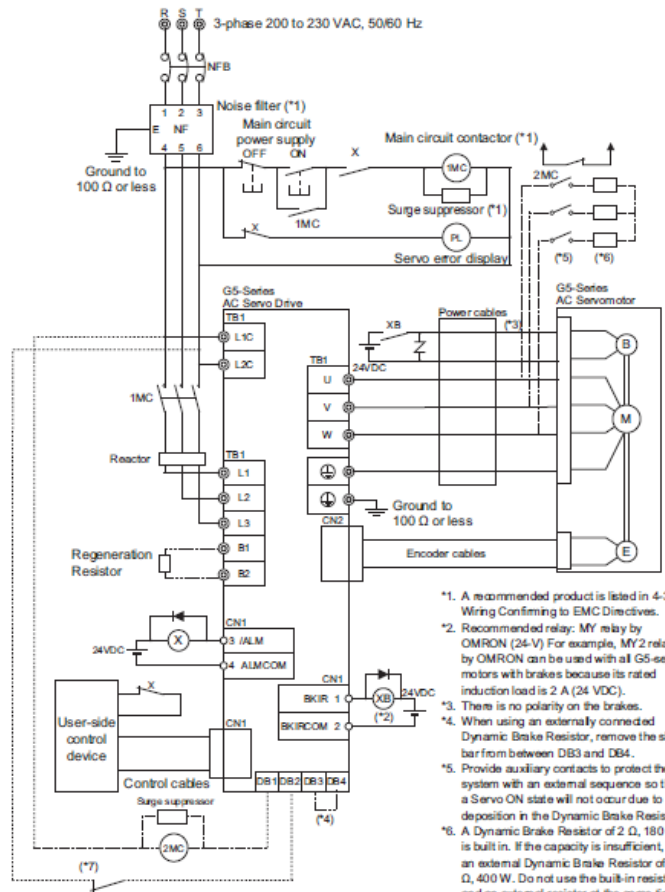
- Servo Drive/Servomotor-Wiring
- FNY-NS115+
- R88D-WT60H/-WT75H



- Note**
1. Set by user parameter Pn50F.
 2. Recommended product in 3-2-4 Wiring for Noise Resistance. For conformity to EC Directives, refer to 3-2-5 Wiring for Conformity to EMC Directives.
 3. Recommended relay: MY relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes.
 4. Refer to 6-3 Single-phase Power for 3,000-r/min (750-W) Servomotors when using an R88D-WT08H with single-phase 200-V power supply.
 5. The brake is not affected by the polarity of the power supply.

Recommended Replacement
R88□-K series

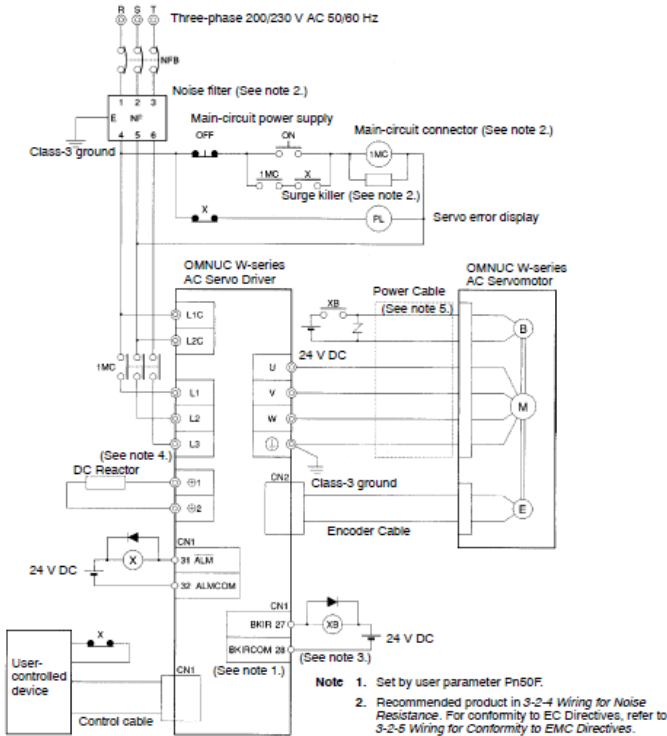
- Servo Drive/Servomotor-Wiring
- R88D-KN75H-ECT



- *1. A recommended product is listed in 4-3, Wiring Confirming to EMC Directives.
- *2. Recommended relay: MY relay by OMRON (24-V). For example, MY2 relay by OMRON can be used with all G5-series motors with brakes because its rated induction load is 2 A (24 VDC).
- *3. There is no polarity on the brakes.
- *4. When using an externally connected Dynamic Brake Resistor, remove the short bar from between DB3 and DB4.
- *5. Provide auxiliary contacts to protect the system with an external sequence so that a Servo ON state will not occur due to disconnection in the Dynamic Brake Resistor.
- *6. A Dynamic Brake Resistor of 2 Ω, 180 W is built in. If the capacity is insufficient, use an external Dynamic Brake Resistor of 1.2 Ω, 400 W. Do not use the built-in resistor and an external resistor at the same time.
- *7. Install an external protective device, such as a temperature fuse. Monitor the temperature of the external Dynamic Brake Resistor.

Product discontinuation
R88D-WT□+FNY-NS115,R88□-W series

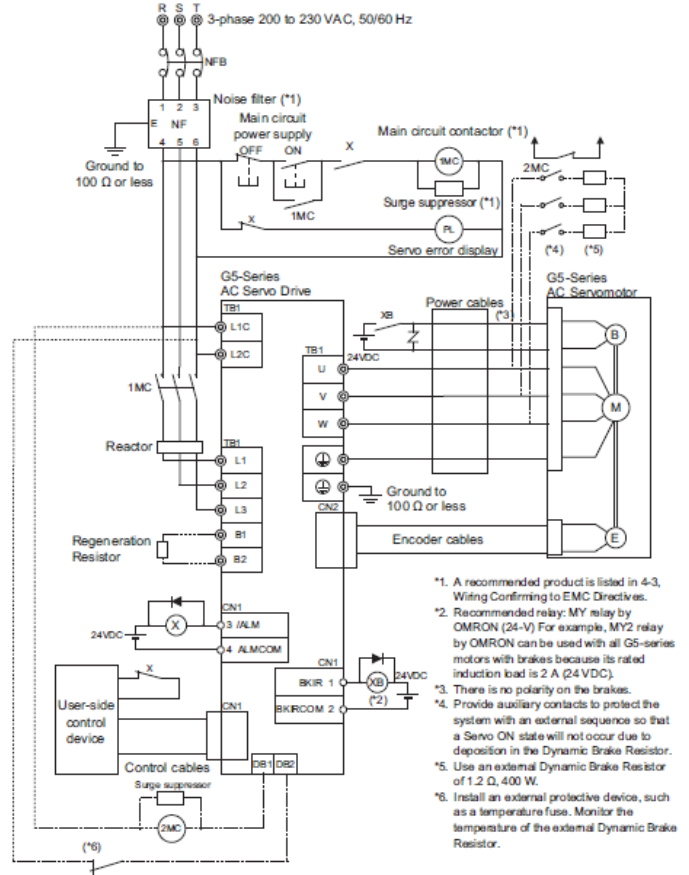
- Servo Drive/Servomotor-Wiring
- FNY-NS115+ R88D-WT150H



- Note**
1. Set by user parameter Pn50F.
 2. Recommended product in 3-2-4 Wiring for Noise Resistance. For conformity to EC Directives, refer to 3-2-5 Wiring for Conformity to EMC Directives.
 3. Recommended relay: MY relay (24 V), by OMRON. For example, an MY2 Relay outputs to a 2-A inductive load at 24 V DC, making it applicable to all W-series Motors with Brakes.
 4. Refer to 6-3 Single-phase Power for 3,000-r/min (750-W) Servomotors when using an R88D-WT08H with single-phase 200-V power supply.
 5. The brake is not affected by the polarity of the power supply.

Recommended Replacement
R88□-K series

- Servo Drive/Servomotor-Wiring
- R88D-KN150H-ECT



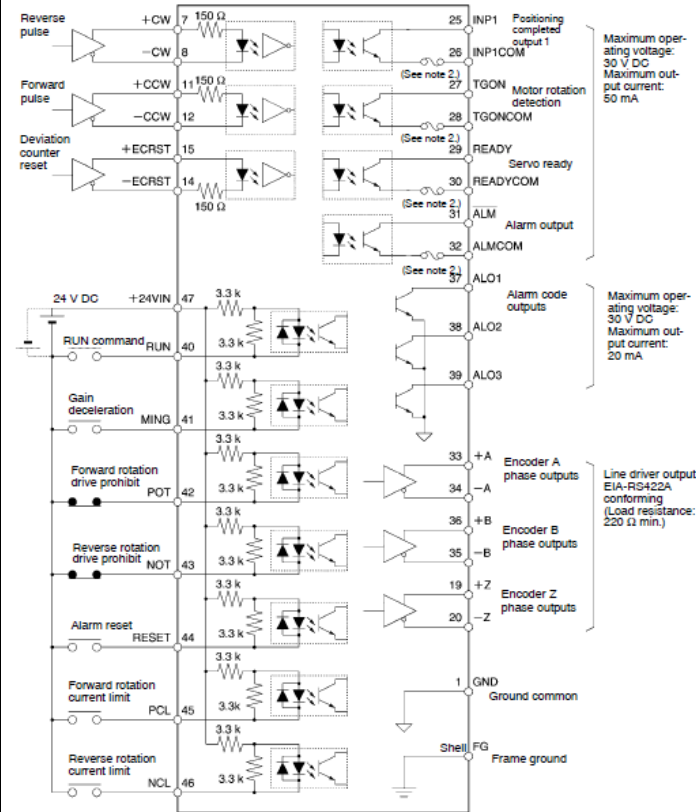
- *1. A recommended product is listed in 4-3, Wiring Confirming to EMC Directives.
- *2. Recommended relay: MY relay by OMRON (24-V) For example, MY2 relay by OMRON can be used with all GS-series motors with brakes because its rated inductive load is 2 A (24 VDC).
- *3. There is no polarity on the brakes.
- *4. Provide auxiliary contacts to protect the system with an external sequence so that a Servo ON state will not occur due to deposition in the Dynamic Brake Resistor.
- *5. Use an external Dynamic Brake Resistor of 1.2 Ω, 400 W.
- *6. Install an external protective device, such as a temperature fuse. Monitor the temperature of the external Dynamic Brake Resistor.

Product discontinuation
R88□-W series

Recommended Replacement
R88□-K series

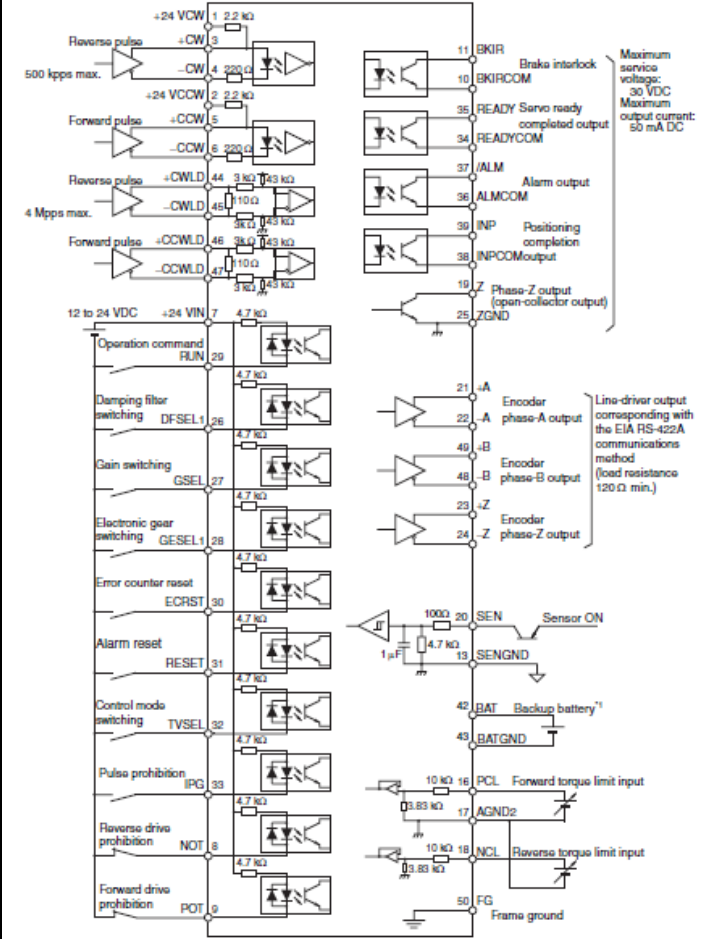
●Control I/Os

■R88D-WT□ (In Position Control)



●Control I/Os

■R88D-KT□ (In Position Control)

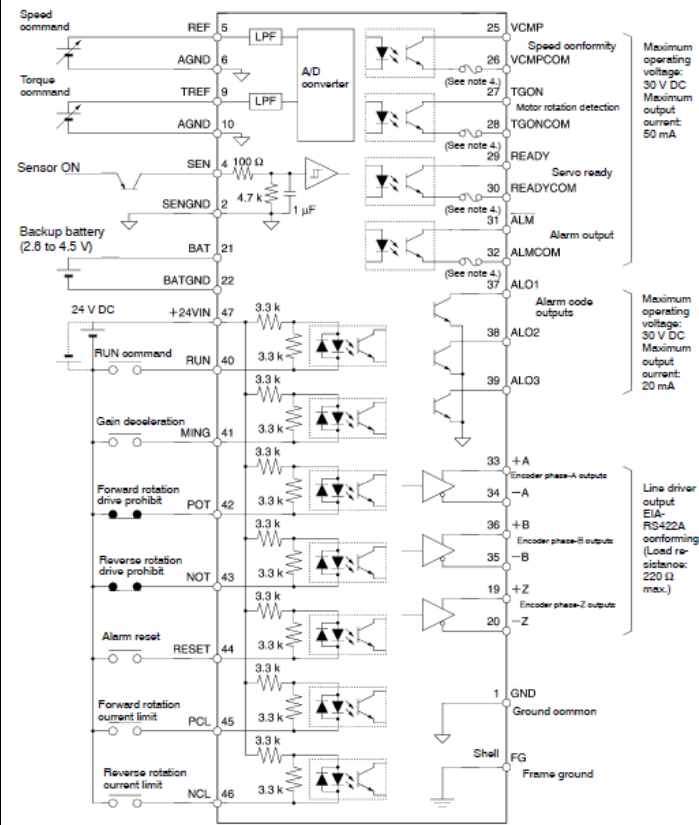


Product discontinuation
R88□-W series

Recommended Replacement
R88□-K series

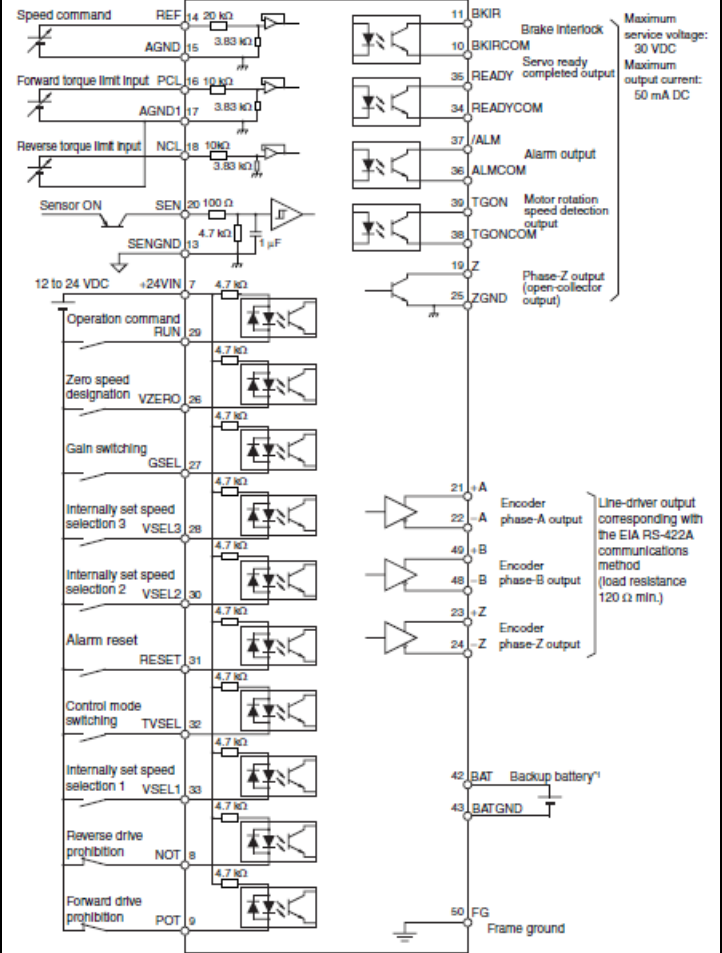
● Control I/Os

■ R88D-WT□ (In Speed Control)



● Control I/Os

■ R88D-KT□ (In Speed Control)

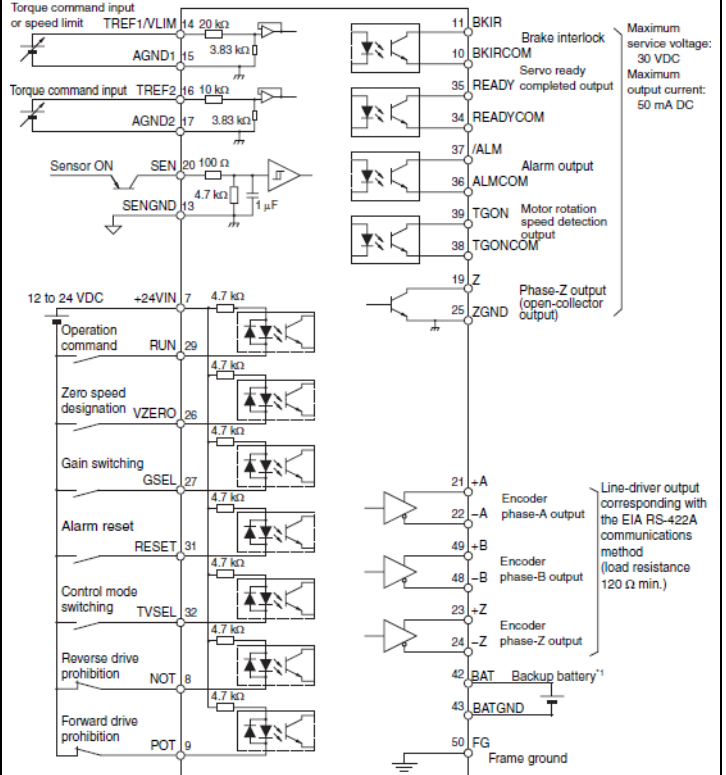
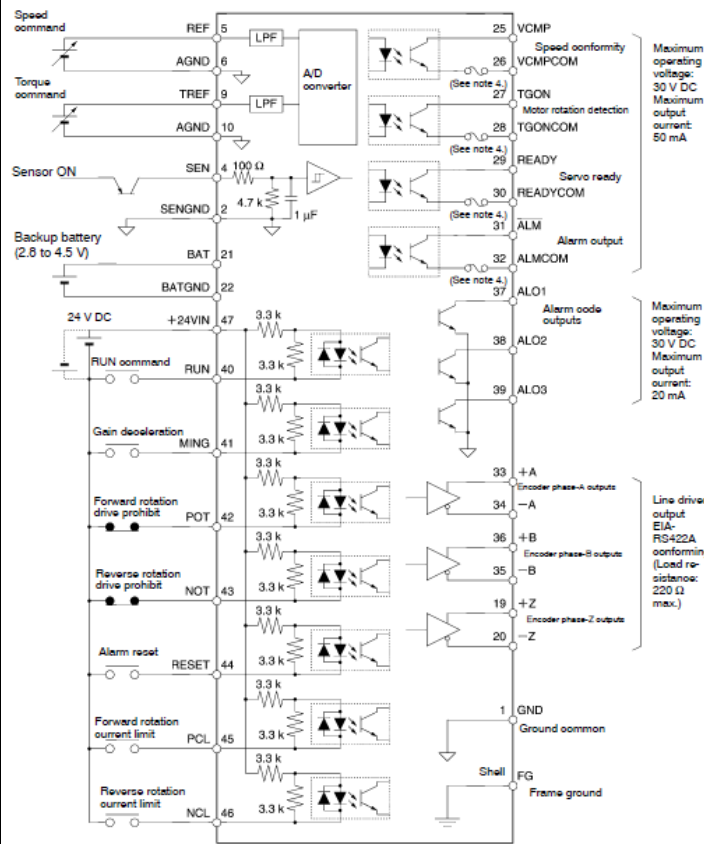


Product discontinuation
R88□-W series

Recommended Replacement
R88□-K series

- Control I/Os
- R88D-WT□ (In Torque Control)

- Control I/Os
- R88D-KT□ (In Torque Control)

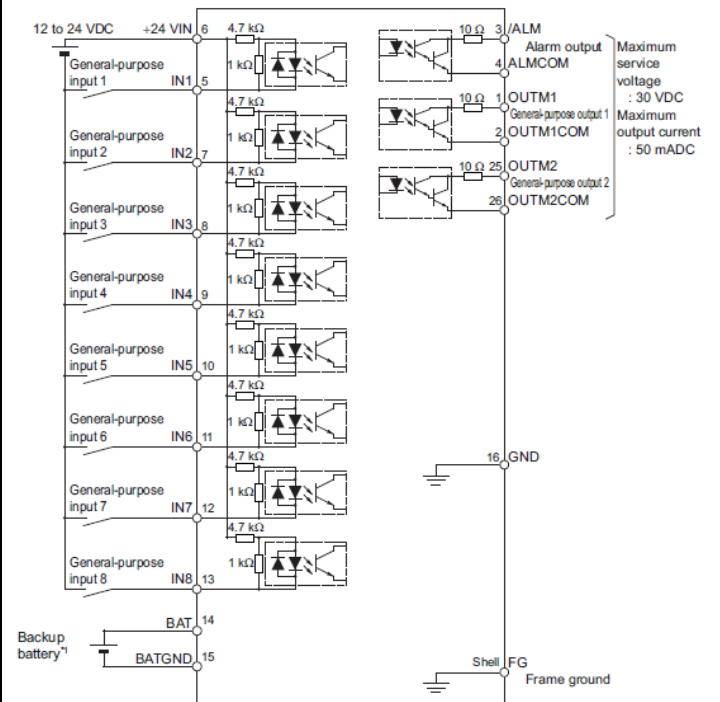
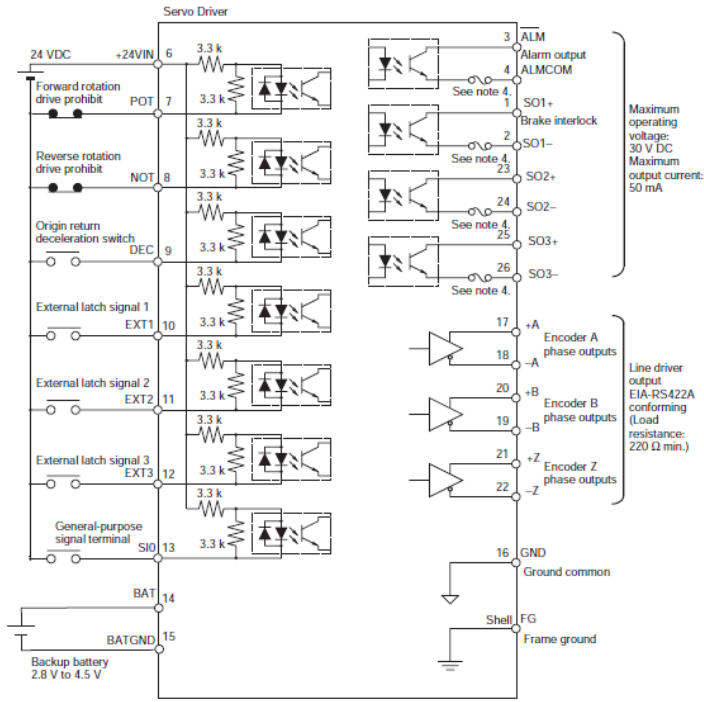


**Product discontinuation
R88□-W series**

**Recommended Replacement
R88□-K series**

- Control I/Os
- R88D-WN□-ML2

- Control I/Os
- R88D-KN□-ML2

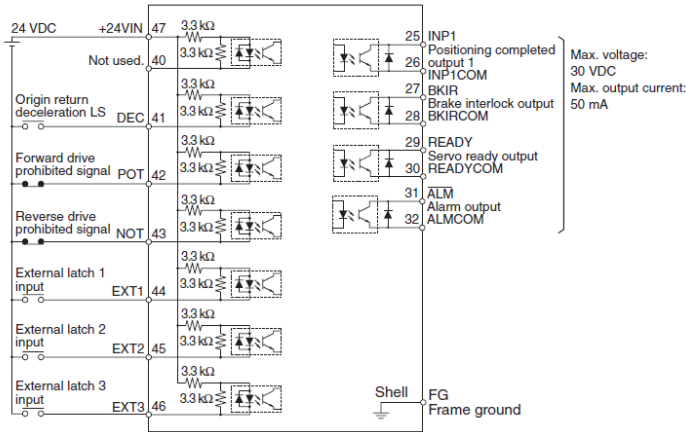


**Product discontinuation
R88□-W series**

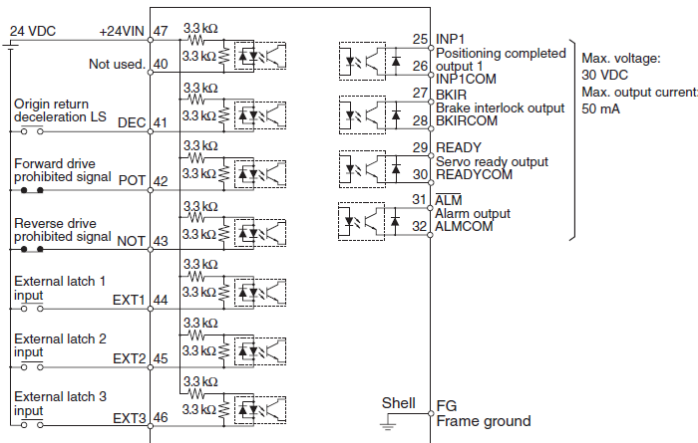
**Recommended Replacement
R88□-K series**

●Control I/Os

■FNY-NS115+R88D-WT□

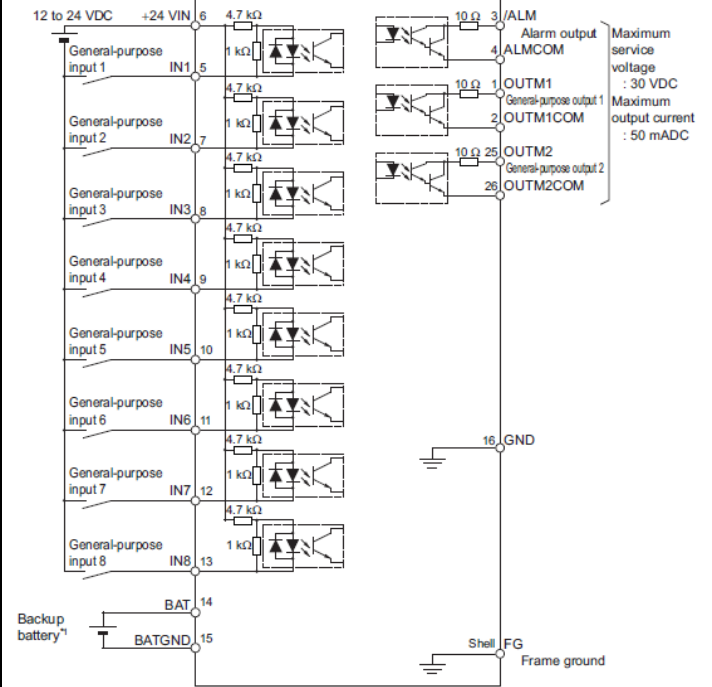


■FNY-NS115+
R88D-WT□

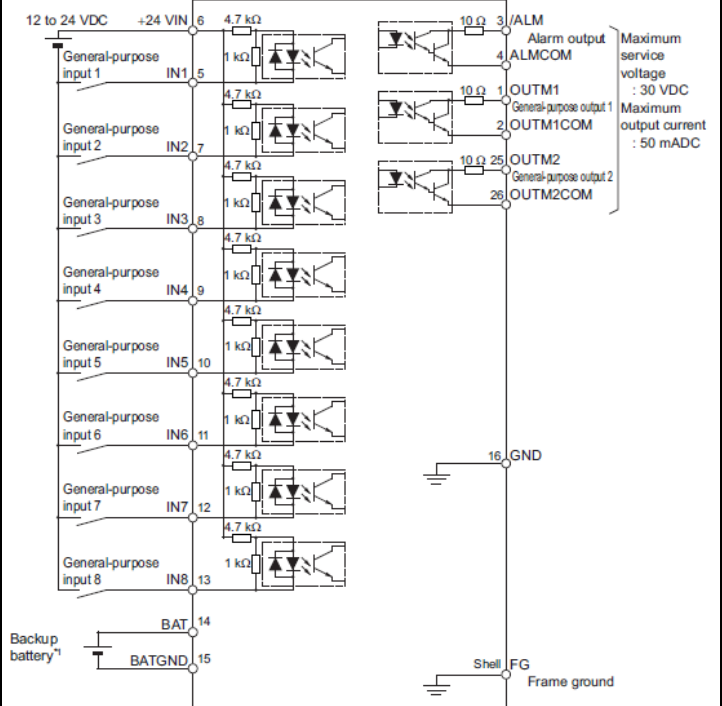


●Control I/Os

■R88D-KN□-ML2



■R88D-KN□-ECT



Rated Performance

Items	Product discontinuation R88D-WT□	Recommended Replacement R88D-KT□
Input voltage	<p>R88D-WT□HL Main circuit: Single-phase AC100/115V, 50/60 Hz Control: Single-phase AC100/115V, 50/60 Hz</p> <p>R88D-WTA3H/-WTA5H/-WT01H/ -WT02H/-WT04H Main circuit: Single-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT05H/-WT08H/-WT10H/-WT15H Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT20H/-WT30H/-WT50H/ -WT60H/-WT75H/-WT150H Main circuit: 3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p>	<p>R88D-KT□L Main circuit: Single-phase AC100-120V, 50/60 Hz Control: Single-phase AC100-120V, 50/60 Hz</p> <p>R88D-KT01H/-KT02H/-KT04H Main circuit: Single-phase, or 3-phase AC200-240V, 50/60Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KT08H/ -KT10H/-KT15H Main circuit: Single-phase, or 3-phase AC200-240V, 50/60 Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KT20H/-KT30H/-KT50H/-KT75H/ -KT150H Main circuit: 3-phase AC200-230V, 50/60 Hz Control: Single-phase AC200-230V, 50/60 Hz</p>
Ambient operating temperature • humidity	0 to +55°C 90%RH or less (No consolidation)	0 to +55°C 90%RH or less (No consolidation)
Ambient storage temperature • humidity	-20 to +85°C 90%RH or less (No consolidation)	-20 to +65°C 90%RH or less (No consolidation)
Insulation resistance	Between power line terminals and case: 0.5 MΩ min. (at 500 VDC)	Between power line terminals and case: 0.5 MΩ min. (at 500 VDC)
Dielectric strength	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz Between each control signal and case: 500 VAC for 1 min	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz
Speed control range	1 : 5000	1 : 5000
Load fluctuation rate	±0.01% max. at 0% to 100% (at rated rotation speed)	±0.01% max. at 0% to 100% (at rated rotation speed)
Voltage fluctuation rate	0% at rated voltage ±10% (at rated rotation speed)	0% at rated voltage ±10% (at rated rotation speed)
Temperature fluctuation rate	±0.1% max. at 0 to 50°C (at rated rotation speed)	±0.01% max. at 0 to 50°C (at rated rotation speed)
Torque control repeatability	±2%	±1%

Items	Product discontinuation R88D-WN□	Recommended Replacement R88D-KN□
Input voltage	<p>R88D-WN□L-ML2 Main circuit: Single-phase AC100/115V, 50/60 Hz Control: Single-phase AC100/115V, 50/60 Hz</p> <p>R88D-WNA5H-ML2/-WN01H-ML2/ -WN02H-ML2/-WN04H-ML2/-WN08H-ML2 Main circuit: Single-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WN05H-ML2/-WN10H-ML2/ -WN15H-ML2 Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WN20H-ML2/ -WN30H-ML2 Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p>	<p>R88D-KN□L-ML2 Main circuit: Single-phase AC100-120V, 50/60 Hz Control: Single-phase AC100-120V, 50/60 Hz</p> <p>R88D-KN01H-ML2/-KN02H-ML2/ -KN04H-ML2/-KN08H-ML2 Main circuit: Single-phase, or 3-phase AC200-240V, 50/60 Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KN10H-ML2/-KN15H-ML2 Main circuit: Single-phase, or 3-phase AC200-240V, 50/60 Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KN20H-ML2/-KN30H-ML2 Main circuit: 3-phase AC200-230V, 50/60 Hz Control: Single-phase AC200-230V, 50/60 Hz</p>
Ambient operating temperature • humidity	0 to +55°C 90%RH or less (No consolidation)	0 to +55°C 90%RH or less (No consolidation)
Ambient storage temperature • humidity	-20 to +85°C 90%RH or less (No consolidation)	-20 to +65°C 90%RH or less (No consolidation)
Insulation resistance	Between power line terminals and case: 0.5 MΩ min. (at 500 VDC)	Between power line terminals and case: 0.5 MΩ min. (at 500 VDC)
Dielectric strength	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz Between each control signal and case: 500 VAC for 1 min	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz

Items	Product discontinuation R88D-WT□+FNY-NS115	Recommended Replacement R88D-KN□
Input voltage	<p>R88D-WT□HL Main circuit: Single-phase AC100/115V, 50/60 Hz Control: Single-phase AC100/115V, 50/60 Hz</p> <p>R88D-WTA3H/-WTA5H/-WT01H/-WT02H/-WT04H Main circuit: Single-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT08H Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT05H/-WT10H/-WT15H Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT20H/-WT30H/-WT50H/-WT60H/-WT75H/-WT150H Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p> <p>R88D-WT60H/-WT75H/-WT150H Main circuit:3-phase AC200/230V, 50/60 Hz Control: Single-phase AC200/230V, 50/60 Hz</p>	<p>R88D-KN□L-ML2 Main circuit: Single-phase AC100-120V, 50/60 Hz Control: Single-phase AC100-120V, 50/60 Hz</p> <p>R88D-KN01H-ML2/-KN02H-ML2/-KN04H-ML2/-KN08H-ML2 Main circuit: Single-phase, or 3-phase AC200-240V, 50/60 Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KN08H-ML2 Main circuit: Single-phase, or 3-phase AC200-240V, 50/60Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KN10H-ML2/-KN15H-ML2 Main circuit: Single-phase, or 3-phase AC200-240V, 50/60Hz Control: Single-phase AC200-240V, 50/60 Hz</p> <p>R88D-KN20H-ML2/-KN30H-ML2/-KN50H-ML2 Main circuit: 3-phase AC200-230V, 50/60 Hz Control: Single-phase AC200-230V, 50/60 Hz</p> <p>R88D-KN75H-ECT/-KN150H-ECT Main circuit: 3-phase AC200-230V, 50/60 Hz Control: Single-phase AC200-230V, 50/60 Hz</p>
Ambient operating temperature humidity	0 to +55°C 90%RH or less (No consolidation)	0 to +55°C 90%RH or less (No consolidation)
Ambient storage temperature humidity	-20 to +85°C 90%RH or less (No consolidation)	-20 to +65°C 90%RH or less (No consolidation)
Insulation resistance	Between power line terminals and case: 0.5 MΩ min. (at 500 V DC)	Between power line terminals and case: 0.5 MΩ min. (at 500 V DC)
Dielectric strength	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz Between each control signal and case: 500 VAC for 1 min	Between power line terminals and case: 1,500 VAC for 1 min at 50/60 Hz

Items	Product discontinuation R88M-W□	Recommended Replacement R88M-K□
Ambient operating temperature/ humidity	0 to +40°C 20 to 80%RH (No consolidation)	0 to +40°C 85%RH or less (No consolidation)
Ambient storage temperature/ humidity	-20 to +60°C 20 to 80%RH (No consolidation)	-20 to +65°C 85%RH or less (No consolidation)
Protective structure	R88M-W□30□ (50-750W): IP55 Excluding around the shaft. R88M-W□30□ (1K-5KW): IP67 Without oil seals: Excluding around the shaft. With oil seals: Including around the shaft. R88M-W□15□: IP67 Without oil seals: Excluding around the shaft. With oil seals: Including around the shaft. R88M-W□10□: IP67 Without oil seals: Excluding around the shaft. With oil seals: Including around the shaft. R88M-WP□30□: IP55 (-W type: IP67) Without oil seals: Excluding around the shaft. With oil seals: Excluding around the shaft. With water-resistance processing: Including around the shaft. Excluding around motor connector and encoder connector connection pins	IP67 (Excluding around shaft, and connection pins of Motor connector and encoder connector)

Items	Product discontinuation R88M-W□	Recommended Replacement R88M-K□
Speed/Position detection	<p>R88M-W□30L/-W□30H (50-750W): Incremental encoder Optical encoder 13-bit (2048 pulses/revolution)</p> <p>R88M-W□30H(1k-5kW): Incremental encoder Optical encoder 17-bit (32,768 pulses/revolution)</p> <p>R88M-W□10: Incremental encoder Optical encoder 17-bit (32,768 pulses/revolution)</p> <p>R88M-WP□30L/-WP□30H: Incremental encoder Optical encoder 13-bit (2048 pulses/revolution)</p> <p>R88M-W□30S/-W□30T(50-750W): Absolute encoder Optical encoder 16-bit (16,384 pulses/revolution)</p> <p>R88M-W□30T(1kW-5kW): Absolute encoder Optical encoder 17-bit (32,768 pulses/revolution)</p> <p>R88M-W□15T: Absolute encoder Optical encoder 17-bit (32,768 pulses/revolution)</p> <p>R88M-W□10T: Absolute encoder Optical encoder 17-bit (32,768 pulses/revolution)</p> <p>R88M-WP□30S/-WP□30T: Absolute encoder Optical encoder 16-bit (16,384 pulses/revolution)</p>	<p>R88M-K□L/-K□H: Incremental encoder Optical encoder 20-bit (262,144 pulses/revolution)</p> <p>R88M-K□JS/-K□T: Absolute encoder Optical encoder 17-bit (32,768 pulses/revolution)</p>

Operating Characteristics

Items	Product discontinuation R88D-W□/R88M-W□	Recommended Replacement R88D-K□/R88M-K□
Max. response frequency (Command pulse response)	R88D-WT□ Line driver: 500kpps Open collector: 200kpps	R88D-KT□ Line driver: 4Mpps Open collector: 500kpps
Speed command input	R88D-WT□: ±2 to ±10V	R88D-KT□ CN1-14,15: ±10V
Torque command input	R88D-WT□: ±1 to ±10V	R88D-KT□ CN1-14,15: ±10V CN1-16,18: ±12V

AC Servomotor/Servo Drive Replacement Models

• Analog/Pulse Input Type

3000 r/min Motor

Input Power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	30W	WTA3HL	W03030L/S	50W	KTA5L	K05030H/T
	50W	WTA5HL	W05030L/S			
	100W	WT01HL	W10030L/S	100W	KT01L	K10030L/S
	200W	WT02HL	W20030L/S	200W	KT02L	K20030L/S
Single-phase AC200V /230V	30W	WTA3H	W03030H/T	50W	KT01H	K05030H/T
	50W	WTA5H	W05030H/T			
	100W	WT01H	W10030H/T	100W	KT01H	K10030H/T
	200W	WT02H	W20030H/T	200W	KT02H	K20030H/T
	400W	WT04H	W40030H/T	400W	KT04H	K40030H/T
	750W	WT08H	W75030H/T	750W	KT08H	K75030H/T
3-phase AC200V /230V	750W	WT08H	W75030H/T	750W	KT08H	K75030H/T
	1.0kW	WT10H	W1K030H/T	1.0kW	KT15H	K1K030H/T
	1.5kW	WT15H	W1K530H/T	1.5kW	KT15H	K1K530H/T
	2.0kW	WT20H	W2K030H/T	2.0kW	KT20H	K2K030H/T
	3.0kW	WT30H	W3K030H/T	3.0kW	KT30H	K3K030H/T
	4.0kW	WT50H	W4K030H/T	4.0kW	KT50H	K4K030H/T
	5.0kW	WT50H	W5K030H/T	5.0kW	KT50H	K5K030H/T

1500 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	450W	WT05H	W45015T	1.0kW	KT10H	K1K020H/T
	850W	WT10H	W85015T	1.5kW	KT15H	K1K520H/T
	1.3kW	WT15H	W1K315T	2.0kW	KT20H	K2K020H/T
	1.8kW	WT20H	W1K815T	3.0kW	KT30H	K3K020H/T
	2.9kW	WT30H	W2K915T	4.0kW	KT50H	K4K020H/T
	4.4kW	WT50H	W4K415T	5.0kW	KT50H	K5K020H/T
	5.5kW	WT60H	W5K515T	7.5kW	KT75H	K7K515T
	7.5kW	WT75H	W7K515T	7.5kW	KT75H	K7K515T
	11kW	WT150H	W11K015T	11kW	KT150H	K11K015T
	15kW	WT150H	W15K015T	15kW	KT150H	K15K015T

1000 r/min Motor

Input Power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	300W	WT05H	W30010H/T	900W	KT15H	K90010H/T
	600W	WT08H	W60010H/T	900W	KT15H	K90010H/T
	900W	WT10H	W90010H/T	900W	KT15H	K90010H/T
	1.2kW	WT15H	W1K210H/T	2.0kW	KT30H	K2K010H/T
	2.0kW	WT20H	W2K010H/T	2.0kW	KT30H	K2K010H/T
	3.0kW	WT30H	W3K010H/T	3.0kW	KT50H	K3K010H/T
	4.0kW	WT50H	W4K010H/T	4.5kW	KT50H	K4K510T
	5.5kW	WT60H	W5K510H/T	6.0kW	KT75H	K6K010T

3000 r/min Motor Flat type

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	100W	WT01HL	WP10030L/S	100W	KT01L	K10030L/S
	200W	WT02HL	WP20030L/S	200W	KT02L	K20030L/S
Single-phase AC200V /230V	100W	WT01H	WP10030H/T	100W	KT01H	K10030H/T
	200W	WT02H	WP20030H/T	200W	KT02H	K20030H/T
	400W	WT04H	WP40030H/T	400W	KT04H	K40030H/T
	750W	WT08H	WP75030H/T	750W	KT08H	K75030H/T
3-phase AC200V /230V	750W	WT08H	WP75030H/T	750W	KT08H	K75030H/T
	1.5kW	WT15H	WP1K530H/T	1.5kW	KT15H	K1K530H/T

● With Built-in MECHATROLINK-II Type

3000 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	50W	WNA5L-ML2	W05030H/T	50W	KNA5L-ML2	K05030H/T
	100W	WN01L-ML2	W10030H/T	100W	KN01L-ML2	K10030L/S
	200W	WN02L-ML2	W20030H/T	200W	KN02L-ML2	K20030L/S
	400W	WN04L-ML2	W40030H/T	400W	KN04H-ML2	K40030L/S
Single-phase AC200V /230V	50W	WNA5H-ML2	W05030H/T	50W	KN01H-ML2	K05030H/T
	100W	WN01H-ML2	W10030H/T	100W	KN01H-ML2	K10030H/T
	200W	WN02H-ML2	W20030H/T	200W	KN02H-ML2	K20030H/T
	400W	WN04H-ML2	W40030H/T	400W	KN04H-ML2	K40030H/T
	750W	WN08H-ML2	W75030H/T	750W	KN08H-ML2	K75030H/T
3-phase AC200V /230V	1.0kW	WN10H-ML2	W1K030H/T	1.0kW	KN15H-ML2	K1K030H/T
	1.5kW	WN15H-ML2	W1K530H/T	1.5kW	KN15H-ML2	K1K530H/T
	2.0kW	WN20H-ML2	W2K030H/T	2.0kW	KN20H-ML2	K2K030H/T
	3.0kW	WN30H-ML2	W3K030H/T	3.0kW	KN30H-ML2	K3K030H/T

1500 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	450W	WN05H-ML2	W45015T	1.0kW	KN10H-ML2	K1K020H/T
	850W	WN10H-ML2	W85015T	1.5kW	KN15H-ML2	K1K520H/T
	1.3kW	WN15H-ML2	W1K315T	2.0kW	KN20H-ML2	K2K020H/T
	1.8kW	WN20H-ML2	W1K815T	3.0kW	KN30H-ML2	K3K020H/T

1000 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	300W	WN05H-ML2	W30010H/T	900W	KN15H-ML2	K90010H/T
	600W	WN10H-ML2	W60010H/T	900W	KN15H-ML2	K90010H/T
	900W	WN10H-ML2	W90010H/T	900W	KN15H-ML2	K90010H/T
	1.2kW	WN15H-ML2	W1K210H/T	2.0kW	KN30H-ML2	K2K010H/T
	2.0kW	WN20H-ML2	W2K010H/T	2.0kW	KN30H-ML2	K2K010H/T
	3.0kW	WN30H-ML2	W3K010H/T	3.0kW	KN50H-ML2	K3K010H/T

3000 r/min Motor Flat type

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	100W	WN01L-ML2	WP10030L/S	100W	KN01L-ML2	K10030L/S
	200W	WN02L-ML2	WP20030L/S	200W	KN02L-ML2	K20030L/S
Single-phase AC200V /230V	100W	WN01H-ML2	WP10030H/T	100W	KN01H-ML2	K10030H/T
	200W	WN02H-ML2	WP20030H/T	200W	KN02H-ML2	K20030H/T
	400W	WN04H-ML2	WP40030H/T	400W	KN04H-ML2	K40030H/T
	750W	WN08H-ML2	WP75030H/T	750W	KN08H-ML2	K75030H/T
3-phase AC200V /230V	1.5kW	WN15H-ML2	WP1K530H/T	1.5kW	KN15H-ML2	K1K530H/T

● MECHATROLINK-II Option Unit

3000 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	30W	WTA3HL	W03030L/S	50W	KNA5L-ML2	K05030H/T
	50W	WTA5HL	W05030L/S			
	100W	WT01HL	W10030L/S	100W	KN01L-ML2	K10030L/S
	200W	WT02HL	W20030L/S	200W	KN02L-ML2	K20030L/S
Single-phase AC200V /230V	30W	WTA3H	W03030H/T	50W	KN01H-ML2	K05030H/T
	50W	WTA5H	W05030H/T			
	100W	WT01H	W10030H/T	100W	KN01H-ML2	K10030H/T
	200W	WT02H	W20030H/T	200W	KN02H-ML2	K20030H/T
	400W	WT04H	W40030H/T	400W	KN04H-ML2	K40030H/T
	750W	WT08H	W75030H/T	750W	KN08H-ML2	K75030H/T
3-phase AC200V /230V	750W	WT08H	W75030H/T	750W	KN08H-ML2	K75030H/T
	1.0kW	WT10H	W1K030H/T	1.0kW	KN15H-ML2	K1K030H/T
	1.5kW	WT15H	W1K530H/T	1.5kW	KN15H-ML2	K1K530H/T
	2.0kW	WT20H	W2K030H/T	2.0kW	KN20H-ML2	K2K030H/T
	3.0kW	WT30H	W3K030H/T	3.0kW	KN30H-ML2	K3K030H/T
	4.0kW	WT50H	W4K030H/T	4.0kW	KN50H-ML2	K4K030H/T
	5.0kW	WT50H	W5K030H/T	5.0kW	KN50H-ML2	K5K030H/T

- When the MECHATROLINK-II option unit (Model: FNY-NS115) is attached on the Servo Driver.

1500 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	450W	WT05H	W45015T	1.0kW	KN10H-ML2	K1K020H/T
	850W	WT10H	W85015T	1.5kW	KN15H-ML2	K1K520H/T
	1.3kW	WT15H	W1K315T	2.0kW	KN20H-ML2	K2K020H/T
	1.8kW	WT20H	W1K815T	3.0kW	KN30H-ML2	K3K020H/T
	2.9kW	WT30H	W2K915T	4.0kW	KN50H-ML2	K4K020H/T
	4.4kW	WT50H	W4K415T	5.0kW	KN50H-ML2	K5K020H/T
	5.5kW	WT60H	W5K515T	7.5kW*	KN75H-ECT	K7K515T
	7.5kW	WT75H	W7K515T	7.5kW*	KN75H-ECT	K7K515T
	11kW	WT150H	W11K015T	11kW*	KN150H-ECT	K11K015T
15kW	WT150H	W15K015T	15kW*	KN150H-ECT	K15K015T	

When the MECHATROLINK-II option unit (Model: FNY-NS115) is attached on the Servo Driver.

* It is necessary to build a network with EtherCAT, instead of MECHATROLINK-II.

1000 r/min Motor

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
3-phase AC200V /230V	300W	WT05H	W30010H/T	900W	KN15H-ML2	K90010H/T
	600W	WT08H	W60010H/T	900W	KN15H-ML2	K90010H/T
	900W	WT10H	W90010H/T	900W	KN15H-ML2	K90010H/T
	1.2kW	WT15H	W1K210H/T	2.0kW	KN30H-ML2	K2K010H/T
	2.0kW	WT20H	W2K010H/T	2.0kW	KN30H-ML2	K2K010H/T
	3.0kW	WT30H	W3K010H/T	3.0kW	KN50H-ML2	K3K010H/T
	4.0kW	WT50H	W4K010H/T	4.5kW	KN50H-ML2	K4K510T
	5.5kW	WT60H	W5K510H/T	6.0kW*	KN75H-ECT	K6K010T

When the MECHATROLINK-II option unit (Model: FNY-NS115) is attached on the Servo Driver.

* It is necessary to build a network with EtherCAT, instead of MECHATROLINK-II.

3000 r/min Motor Flat type

Input power	Product discontinuation			Recommended Replacement		
	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -	Motor capacity	Servo Drive Model R88D -	Servomotor Model R88M -
Single-phase AC100V /115V	100W	WT01HL	WP10030L/S	100W	KN01L-ML2	K10030L/S
	200W	WT02HL	WP20030L/S	200W	KN02L-ML2	K20030L/S
Single-phase AC200V /230V	100W	WT01H	WP10030H/T	100W	KN01H-ML2	K10030H/T
	200W	WT02H	WP20030H/T	200W	KN02H-ML2	K20030H/T
	400W	WT04H	WP40030H/T	400W	KN04H-ML2	K40030H/T
	750W	WT08H	WP75030H/T	750W	KN08H-ML2	K75030H/T
3-phase AC200V /230V	750W	WT08H	WP75030H/T	750W	KN08H-ML2	K75030H/T
	1.5kW	WT15H	WP1K530H/T	1.5kW	KN15H-ML2	K1K530H/T

When the MECHATROLINK-II option unit (Model: FNY-NS115) is attached on the Servo Driver.

3000 r/min Motor

Product discontinuation R88M-	Recommended Replacement R88M-	Applicable inertia (kg · m ²)		Rated torque (N · m)		Momentary maximum Torque (N · m)	
		R88M-W	R88M-K	R88M-W	R88M-K	R88M-W	R88M-K
W03030L/S	K05030 H/T	4.98 E-05	7.50 E-05	0.0955	0.16	0.286	0.48
W05030L/S	K05030 H/T	6.60 E-05	7.50 E-05	0.159	0.16	0.477	0.48
W10030L/S	K10030 L/S	1.09 E-04	1.53 E-04	0.318	0.32	0.955	0.95
W20030L/S	K20030 L/S	3.18 E-04	4.20 E-04	0.637	0.64	1.91	1.91
W03030H/T	K05030 H/T	4.98 E-05	7.50 E-05	0.0955	0.16	0.286	0.48
W05030H/T	K05030 H/T	6.60 E-05	7.50 E-05	0.159	0.16	0.477	0.48
W10030H/T	K10030 H/T	1.09 E-04	1.53 E-04	0.318	0.32	0.955	0.95
W20030H/T	K20030 H/T	3.18 E-04	4.20 E-04	0.637	0.64	1.91	1.91
W40030H/T	K40030 H/T	5.19 E-04	7.80 E-04	1.27	1.3	3.82	3.80
W75030H/T	K75030 H/T	1.34 E-03	1.74 E-03	2.39	2.4	7.16	7.10
W1K030H/T	K1K030 H/T	1.74 E-03	3.05 E-03	3.18	3.18	9.54	9.55
W1K530H/T	K1K530 H/T	2.47 E-03	4.26 E-03	4.90	4.77	14.7	14.3
W2K030H/T	K2K030 H/T	3.19 E-03	5.52 E-03	6.36	6.37	19.1	19.1
W3K030H/T	K3K030 H/T	7.00 E-03	9.75 E-03	9.80	9.55	29.4	28.6
W4K030H/T	K4K030 H/T	9.60 E-03	1.94 E-02	12.6	12.7	37.8	38.2
W5K030H/T	K5K030 H/T	1.23 E-02	2.61 E-02	15.8	15.9	47.6	47.7

1500 r/min Motor

Product discontinuation R88M-	Recommended Replacement R88M-	Applicable inertia (kg · m ²)		Rated torque (N · m)		Momentary maximum Torque(N · m)	
		R88M-W	R88M-K	R88M-W	R88M-K	R88M-W	R88M-K
W45015T	K1K020T	3.62E-03	4.60 E-03	2.84	4.77	8.92	14.3
W85015T	K1K520T	6.95 E-03	6.70 E-03	5.39	7.16	13.8	21.5
W1K315T	K2K020T	1.03 E-02	8.72 E-03	8.34	9.55	23.3	28.6
W1K815T	K3K020T	1.59 E-02	1.29 E-02	11.5	14.3	28.7	43.0
W2K915T	K4K020T	2.30 E-02	3.76 E-02	18.6	19.1	45.1	57.3
W4K415T	K5K020T	3.38 E-02	4.80 E-02	28.4	23.9	71.1	71.6
W5K515T	K7K515T	4.45 E-02	5.05 E-02	35.0	47.8	87.6	119.0
W7K515T	K7K515T	6.25 E-02	5.05 E-02	48.0	70.0	119	119.0
W11K015T	K11K015T	1.41 E-01	1.06 E-01	70.0	70.0	175	175.0
W15K015T	K15K015T	1.58 E-01	1.51 E-01	95.4	95.5	224	224.0

1000 r/min Motor

Product discontinuation R88M-	Recommended Replacement R88M-	Applicable inertia (kg · m ²)		Rated torque (N · m)		Momentary maximum Torque (N · m)	
		R88M-W	R88M-K	R88M-W	R88M-K	R88M-W	R88M-K
W30010 H/T	K90010 H/T	7.24 E-03	6.70 E-03	2.84	8.59	7.17	19.3
W60010 H/T	K90010 H/T	1.39 E-02	6.70 E-03	5.68	8.59	14.1	19.3
W90010 H/T	K90010 H/T	2.05 E-02	6.70 E-03	8.62	8.59	19.3	19.3
W1K210 H/T	K2K010 H/T	3.17 E-02	3.03 E-02	11.5	19.1	28.0	47.7
W2K010 H/T	K2K010 H/T	4.60 E-02	3.03 E-02	19.1	19.1	44.0	47.7
W3K010 H/T	K3K010 H/T	6.75 E-02	4.84 E-02	28.4	28.7	63.7	71.7
W4K010 H/T	K4K510 T	8.90 E-02	7.91 E-02	38.2	43.0	107	107.0
W5K510 H/T	K6K010 T	1.25 E-01	1.01 E-01	52.6	57.3	137	143.0

3000 r/min Motor Flat type

Product discontinuation R88M-	Recommended Replacement R88M-	Applicable inertia (kg · m ²)		Rated torque (N · m)		Momentary maximum Torque(N · m)	
		R88M-W	R88M-K	R88M-W	R88M-K	R88M-W	R88M-K
WP10030L/S	K10030 L/S	1.23E-01	1.53 E-04	0.318	0.32	0.955	0.95
WP20030L/S	K20030 L/S	2.90E-04	4.20 E-04	0.637	0.64	1.91	1.91
WP10030H/T	K10030 H/T	1.23E-01	1.53 E-04	0.318	0.32	0.955	0.95
WP20030H/T	K20030 H/T	2.90E-04	4.20 E-04	0.637	0.64	1.91	1.91
WP40030H/T	K40030 H/T	4.97E-04	7.80 E-04	1.27	1.3	3.82	3.80
WP75030H/T	K75030 H/T	3.15E-03	1.74 E-03	2.39	2.4	7.16	7.10
WP1K530H/T	K1K530 H/T	4.02E-03	4.26 E-03	4.77	4.77	14.3	14.3

● Peripheral Devices R88A-□ Models Discontinuation Dates

Product Name	Model	Date of discontinuation
DeviceNet Option Unit	R88A-NCW152-DRT	Mar, 2020
Parameter Unit	R88A-PR02W	Mar, 2020
Encoder Cable	R88A-CRWC0R3C	Mar, 2020
Encoder Cable	R88A-CRWA003C	Mar, 2020
Encoder Cable	R88A-CRWA005C	Mar, 2020
Encoder Cable	R88A-CRWA010C	Mar, 2020
Encoder Cable	R88A-CRWA015C	Mar, 2020
Encoder Cable	R88A-CRWA020C	Mar, 2020
Encoder Cable	R88A-CRWA030C	Mar, 2020
Encoder Cable	R88A-CRWA040C	Mar, 2020
Encoder Cable	R88A-CRWA050C	Mar, 2020
Encoder Cable	R88A-CRWR0R3D	Mar, 2020
Encoder Cable	R88A-CRWS0R3D	Mar, 2020
Encoder Cable	R88A-CRWH0R3D	Mar, 2020
Encoder Cable	R88A-CRWH0R5M	Mar, 2020
Encoder Cable	R88A-CRWR0R5M1	Mar, 2020
Encoder Cable	R88A-CRWR0R5M2	Mar, 2020
Encoder Cable	R88A-CRWB003N	Mar, 2020
Encoder Cable	R88A-CRWB005N	Mar, 2020
Encoder Cable	R88A-CRWB010N	Mar, 2020
Encoder Cable	R88A-CRWB015N	Mar, 2020
Encoder Cable	R88A-CRWB020N	Mar, 2020
Encoder Cable	R88A-CRWB030N	Mar, 2020
Encoder Cable	R88A-CRWB040N	Mar, 2020
Encoder Cable	R88A-CRWB050N	Mar, 2020
Encoder Cable	R88A-CRWS0R5M	Mar, 2020
Encoder Cable	R88A-CRW001	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA010CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA003CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA005CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA015CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA020CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA030CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA040CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWA050CR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB003NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB005NR	Mar, 2020

Product Name	Model	Date of discontinuation
Encoder Cable (Robot cable)	R88A-CRWB010NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB015NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB020NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB030NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB040NR	Mar, 2020
Encoder Cable (Robot cable)	R88A-CRWB050NR	Mar, 2020
Power Cable	R88A-CAWA003B	Mar, 2020
Power Cable	R88A-CAWA005B	Mar, 2020
Power Cable	R88A-CAWA010B	Mar, 2020
Power Cable	R88A-CAWA015B	Mar, 2020
Power Cable	R88A-CAWA020B	Mar, 2020
Power Cable	R88A-CAWA030B	Mar, 2020
Power Cable	R88A-CAWA040B	Mar, 2020
Power Cable	R88A-CAWA050B	Mar, 2020
Power Cable	R88A-CAWA003S	Mar, 2020
Power Cable	R88A-CAWA005S	Mar, 2020
Power Cable	R88A-CAWA010S	Mar, 2020
Power Cable	R88A-CAWA015S	Mar, 2020
Power Cable	R88A-CAWA020S	Mar, 2020
Power Cable	R88A-CAWA030S	Mar, 2020
Power Cable	R88A-CAWA040S	Mar, 2020
Power Cable	R88A-CAWA050S	Mar, 2020
Power Cable	R88A-CAWB003B	Mar, 2020
Power Cable	R88A-CAWB005B	Mar, 2020
Power Cable	R88A-CAWB010B	Mar, 2020
Power Cable	R88A-CAWB015B	Mar, 2020
Power Cable	R88A-CAWB020B	Mar, 2020
Power Cable	R88A-CAWB030B	Mar, 2020
Power Cable	R88A-CAWB040B	Mar, 2020
Power Cable	R88A-CAWB050B	Mar, 2020
Power Cable	R88A-CAWB003S	Mar, 2020
Power Cable	R88A-CAWB005S	Mar, 2020
Power Cable	R88A-CAWB010S	Mar, 2020
Power Cable	R88A-CAWB015S	Mar, 2020
Power Cable	R88A-CAWB020S	Mar, 2020
Power Cable	R88A-CAWB030S	Mar, 2020
Power Cable	R88A-CAWB040S	Mar, 2020
Power Cable	R88A-CAWB050S	Mar, 2020
Power Cable	R88A-CAWC003B	Mar, 2020
Power Cable	R88A-CAWC005B	Mar, 2020
Power Cable	R88A-CAWC010B	Mar, 2020
Power Cable	R88A-CAWC015B	Mar, 2020
Power Cable	R88A-CAWC020B	Mar, 2020
Power Cable	R88A-CAWC030B	Mar, 2020
Power Cable	R88A-CAWC040B	Mar, 2020
Power Cable	R88A-CAWC050B	Mar, 2020
Power Cable	R88A-CAWC003S	Mar, 2020
Power Cable	R88A-CAWC005S	Mar, 2020
Power Cable	R88A-CAWC010S	Mar, 2020
Power Cable	R88A-CAWC015S	Mar, 2020
Power Cable	R88A-CAWC020S	Mar, 2020
Power Cable	R88A-CAWC030S	Mar, 2020
Power Cable	R88A-CAWC040S	Mar, 2020
Power Cable	R88A-CAWC050S	Mar, 2020
Power Cable	R88A-CAWD003B	Mar, 2020
Power Cable	R88A-CAWD005B	Mar, 2020

Product Name	Model	Date of discontinuation
Power Cable	R88A-CAWD010B	Mar, 2020
Power Cable	R88A-CAWD015B	Mar, 2020
Power Cable	R88A-CAWD020B	Mar, 2020
Power Cable	R88A-CAWD030B	Mar, 2020
Power Cable	R88A-CAWD040B	Mar, 2020
Power Cable	R88A-CAWD050B	Mar, 2020
Power Cable	R88A-CAWD003S	Mar, 2020
Power Cable	R88A-CAWD005S	Mar, 2020
Power Cable	R88A-CAWD010S	Mar, 2020
Power Cable	R88A-CAWD015S	Mar, 2020
Power Cable	R88A-CAWD020S	Mar, 2020
Power Cable	R88A-CAWD030S	Mar, 2020
Power Cable	R88A-CAWD040S	Mar, 2020
Power Cable	R88A-CAWD050S	Mar, 2020
Power Cable	R88A-CAWE003B	Mar, 2020
Power Cable	R88A-CAWE005B	Mar, 2020
Power Cable	R88A-CAWE010B	Mar, 2020
Power Cable	R88A-CAWE015B	Mar, 2020
Power Cable	R88A-CAWE020B	Mar, 2020
Power Cable	R88A-CAWE030B	Mar, 2020
Power Cable	R88A-CAWE040B	Mar, 2020
Power Cable	R88A-CAWE050B	Mar, 2020
Power Cable	R88A-CAWE003S	Mar, 2020
Power Cable	R88A-CAWE005S	Mar, 2020
Power Cable	R88A-CAWE010S	Mar, 2020
Power Cable	R88A-CAWE015S	Mar, 2020
Power Cable	R88A-CAWE020S	Mar, 2020
Power Cable	R88A-CAWE030S	Mar, 2020
Power Cable	R88A-CAWE040S	Mar, 2020
Power Cable	R88A-CAWE050S	Mar, 2020
Power Cable	R88A-CAWF003S	Mar, 2020
Power Cable	R88A-CAWF005S	Mar, 2020
Power Cable	R88A-CAWF010S	Mar, 2020
Power Cable	R88A-CAWF015S	Mar, 2020
Power Cable	R88A-CAWF020S	Mar, 2020
Power Cable	R88A-CAWF030S	Mar, 2020
Power Cable	R88A-CAWF040S	Mar, 2020
Power Cable	R88A-CAWF050S	Mar, 2020
Power Cable	R88A-CAWR0R5S1	Mar, 2020
Power Cable	R88A-CAWR0R5B1	Mar, 2020
Power Cable	R88A-CAWR0R5B2	Mar, 2020
Power Cable	R88A-CAWR0R5B3	Mar, 2020
Power Cable	R88A-CAWR0R5S2	Mar, 2020
Power Cable	R88A-CAWR0R5S3	Mar, 2020
Power Cable	R88A-CAWH0R5S1	Mar, 2020
Power Cable	R88A-CAWH0R5S2	Mar, 2020
Power Cable	R88A-CAWH0R5B1	Mar, 2020
Power Cable	R88A-CAWH0R5B2	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA010BR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA003SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA005SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA010SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA015SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA020SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA030SR	Mar, 2020
Power Cable (Robot cable)	R88A-CAWA040SR	Mar, 2020

Product Name	Model	Date of discontinuation
Control cable	R88A-CPW001S	Mar, 2020
Control cable	R88A-CPW002S	Mar, 2020
Control cable	R88A-CPW001M1	Mar, 2020
Control cable	R88A-CPW001M2	Mar, 2020
Control cable	R88A-CPW002M1	Mar, 2020
Control cable	R88A-CPW002M2	Mar, 2020
Control cable	R88A-CPW003M1	Mar, 2020
Control cable	R88A-CPW003M2	Mar, 2020
Control cable	R88A-CPW005M1	Mar, 2020
Control cable	R88A-CPW005M2	Mar, 2020
Control cable	R88A-CPWH0R3C	Mar, 2020
Control cable	R88A-CPWR0R3A	Mar, 2020
Control cable	R88A-CPWR0R3P	Mar, 2020
Control cable	R88A-CPWM0R3C	Mar, 2020
Control cable	R88A-CTW001N	Mar, 2020
Control cable	R88A-CTW002N	Mar, 2020
Cable for monitor software	R88A-CCW002C	Mar, 2020
Cable for monitor software	R88A-CCW002P2	Mar, 2020
Cable for monitor software	R88A-CCW002P3	Mar, 2020
Cable for monitor software	R88A-CCW002P4	Mar, 2020
Monitor cable	R88A-CMW001S	Mar, 2020
Battery	R88A-BAT01W	Mar, 2020
Battery	R88A-BAT02W	Mar, 2020
Reactor	R88A-PX5059	Mar, 2020
Reactor	R88A-PX5060	Mar, 2020
Reactor	R88A-PX5061	Mar, 2020
Reactor	R88A-PX5062	Mar, 2020
Reactor	R88A-PX5063	Mar, 2020
Reactor	R88A-PX5068	Mar, 2020
Reactor	R88A-PX5069	Mar, 2020
Reactor	R88A-PX5070	Mar, 2020
Reactor	R88A-PX5071	Mar, 2020
Reactor	R88A-PX5052	Mar, 2020
Reactor	R88A-PX5053	Mar, 2020
Reactor	R88A-PX5054	Mar, 2020
Reactor	R88A-PX5056	Mar, 2020
Bracket	R88A-TK01W	Mar, 2020
Bracket	R88A-TK02W	Mar, 2020
Bracket	R88A-TK03W	Mar, 2020
Bracket	R88A-TK05W	Mar, 2020
Bracket	R88A-TK06W	Mar, 2020
Bracket	R88A-TK07W	Mar, 2020
Regenerative resistance	R88A-RR88006	Mar, 2020