

Gearmotors General Catalog



HIGH PRECISION REDUCERS FOR SERVO MOTORS

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- P.719 AH2 Type Right Angle Shaft
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Motor Matching / Motor Power Design List

Motor Matching / Motor Power Design List

APG Type

[Notes]

- The tables show below representative examples as of December 2020. The specifications of servo motors are subject to change. When placing an order, be sure to check the dimensions of the servo motor flange you are going to use and the dimensions of the area in which our reducer for servo motor will be installed.
- The tables show below servo motors of standard specifications. For servo motors using an oil seal or other options, be sure to check whether they can be provided with a reducer by reference to the Detailed Dimensions of Input Shaft and Flange Shapes on pages 796 to 798.
- The maximum input speed is 6000 r/min. However, we recommend it at 3000 r/min or below in general operation.
- If you supply a servo motor that needs to be installed to the reducer, we will ship the assembled reducer with the servo motor. Be sure to supply a servo motor without a key for the output shaft. In addition, the reducer will be installed so that the servo motor lead wires will be drawn out from the upper side as a standard specification.
- For more details, please contact your nearest Sales Office or the CS Center.

100 W to 750 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
ABB	BSM-R	200S1	200S1	400S1	—	—
	BSM	100S1	200S2	400S1	—	750S1
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	100S1	200S3	400S3	—	750S3
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	100S1	200S3	400S3	—	750S3
	1S Series R88M-1M (3000 r/min, 100 VAC)	100S1	200S3	400S3	—	—
	1S Series R88M-1M (3000 r/min, 200 VAC)	100S1	200S3	400S3	—	750S3
KEYENCE Corporation	SV Series	100S1	200S2	400S1	—	750S2
	SV2 Series	100S1	200S2	400S1	—	750S2
KOYO ELECTRONICS INDUSTRIES CO., LTD.	KSV-B3	100S1	200S2	400S1	—	750S2
Sanyo Denki Co., Ltd.	R2EA06 (R Series/R2/□60/100 VAC)	—	200S2	—	—	—
	R2AA04 (R Series/R2/□40/200 VAC)	100S1	—	—	—	—
	R2AA06 (R Series/R2/□60/200 VAC)	—	200S2	400S1	—	—
	R2AA08 (R Series/R2/□80/200 VAC)	—	—	—	—	750S1
	R2AA10 (R Series/R2/□100/200 VAC)	—	—	—	—	1000K22
	R5AA06 (R Series/R5/□60/200 VAC)	—	200S2	400S1	—	—
	R5AA08 (R Series/R5/□80/200 VAC)	—	—	—	—	750S1
	R2GA06 (R Series/R2/□60/48 VDC)	—	200S2	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	—	—	—	—	1000K22
	R1AA04 (R Series/R1/□40/200 VAC)	100S1	—	—	—	—
	R1EA04 (R Series/R1/□40/100 VAC)	100S1	—	—	—	—
	R1AA06 (R Series/R1/□60/200 VAC)	—	200S2	400S1	—	—
	R1EA06 (R Series/R1/□60/100 VAC)	—	200S2	—	—	—
R1AA08 (R Series/R1/□80/200 VAC)	—	—	—	—	750S1	
CKD Nikki Denso Co., Ltd.	NA80 Series	—	200S2	400S1	750S2	750S2
Shibaura Machine Co., Ltd.	VLBSV-ZA (3000 min ⁻¹)	—	—	—	750S2	—
Tamagawa Seiki Co., Ltd.	TS4607, TSM3202, TSM4202	—	200S2	—	—	—
	TS4609, TSM3204, TSM4204	—	—	400S1	—	—
	TS4614, TSM3304, TSM4304	—	—	—	—	750S2
	TS4613, TSM3303, TSM4303	100S1	200S2	400S1	750S2	750S2
Delta Electronics, Inc.	ECMA-C*04 (□40)	100S1	—	—	—	—
	ECMA-C*06 (□60)	—	200S2	400S1	—	—
	ECMA-C*08 (□80)	—	—	—	—	750S2
	ECMA-C-H	—	—	400S1	—	750S2
	ECM-A3L-C*040 (□40)	100S1	—	—	—	—
	ECM-A3L-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3L-C*080 (□80)	—	—	—	—	750S2
	ECM-A3H-C*040 (□40)	100S1	—	—	—	—
	ECM-A3H-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3H-C*080 (□80)	—	—	—	—	750S2
	ECM-B3L-C*040 (□40)	100S1	—	—	—	—
	ECM-B3M-C*060 (□60)	—	200S2	400S1	—	—
	ECM-B3M-C*080 (□80)	—	—	—	—	750S2
Panasonic Corporation	MSME (MINAS A5 Series)	—	200S3	400S3	—	750S3
	MHMD (MINAS A5 Series)	—	200S3	400S3	—	750S3
	MMSF (MINAS A6 Series □80 mm or less)	—	200S3	400S3	—	750S3
	MHMF (MINAS A6 Series □80 mm or less)	100S1	200S2	400S3	—	750S3

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
Hitachi Industrial Equipment Systems Co., Ltd.	ADMA Series	100S1	200S2	400S1	—	—
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	100S1	200S2	400S1	—	750S1
	GYS (ALPHA7 Series)	100S1	200S2	400S1	—	750S1
	GYB (ALPHA7 Series)	—	200S2	400S1	—	750S2
Mitsubishi Electric Corporation	HG-KR (J4 Series, JN Series)	100S1	200S2	400S1	—	750S2
	HG-MR (J4 Series)	100S1	200S2	400S1	—	750S2
	HF-KN (JN Series)	100S1	200S2	400S1	—	—
	HK-KT_W (□40) (J5 Series)	100S1	—	—	—	—
	HK-KT_W (□60) (J5 Series)	—	200S2	400S1	—	—
	HK-KT_W (□80) (J5 Series)	—	—	—	—	750S2
	MM-GKR (Sensor-less Servo Series)	100S1	200S2	400S1	—	750S2
YASKAWA Electric Corporation	SGMAV (Σ-V Series)	100S1	200S2	400S1	—	750S2
	SGMJV (Σ-V Series)	100S1	200S2	400S1	—	750S2
	SGM7J (Σ-7 Series)	100S1	200S2	400S1	—	750S2
	SGM7A (Σ-7 Series)	100S1	200S2	400S1	—	750S2

■ 1000 W to 1500 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		1000	1200	1300	1400	1500
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	—	—	—	—	1500K21
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	1000K21	—	—	—	1500K21
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	1000K21	—	—	—	1500K21
	1S Series R88M-1L (3000 r/min, 200 VAC)	1000K21	—	—	—	1500K21
	1S Series R88M-1L (3000 r/min, 400 VAC)	1000K21	—	—	—	1500K21
Sanyo Denki Co., Ltd.	R2AA10 (R Series/R2/□100/200 VAC)	1000K22	—	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	1000K22	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	—	—	—	—	—
	VLBST (3000 min ⁻¹)	—	—	—	1500K31	—
Delta Electronics, Inc.	ECMA-C*10 (□100)	1000K22	—	—	—	—
	ECMC-C	1000K22	—	—	—	—
Panasonic Corporation	MSME (MINAS A5 Series)	1000K21	—	—	—	1500K21
	MSMF (MINAS A6 Series □100 mm or less)	1000K21	—	—	—	1500K21
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	1000K23	—	—	—	1500K23
	GYC (ALPHA5 Series)	—	—	—	—	1500K33
	GYS (ALPHA7 Series)	1000K23	—	—	—	1500K23
Mitsubishi Electric Corporation	HG-RR (J4 Series)	1000K23	—	—	—	1500K23
YASKAWA Electric Corporation	SGMSV (Σ-V Series)	1000K13	—	—	—	1500K13
	SGM7A (Σ-7 Series)	—	—	—	—	1500K13

Motor Matching /
Motor Power Design List

APC/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AFC Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

1600 W to 3000 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)					
		1600	1800	2000	2400	2500	3000
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	—	—	2000K21	—	—	—
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	—	—	2000K21	—	—	—
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	—	—	2000K21	—	—	—
	1S Series R88M-1L (3000 r/min, 200 VAC)	—	—	2000K21	—	—	3000K32
	1S Series R88M-1L (3000 r/min, 400 VAC)	—	—	2000K21	—	—	3000K32
Sanyo Denki Co., Ltd.	R2AA10 (R Series/R2/□100/200 VAC)	—	—	—	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	—	—	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	—	2000K31	—	3000K33	—	—
	VLBST (3000 min ⁻¹)	—	2000K31	—	3000K33	—	—
Delta Electronics, Inc.	ECMA-C*10 (□100)	—	—	2000K22	—	—	—
	ECMA-C*13 (□130)	—	—	—	—	—	3000K33
Panasonic Corporation	MSME (MINAS A5 Series)	—	—	2000K21	—	—	—
	MSMF (MINAS A6 Series □100 mm or less)	—	—	2000K21	—	—	—
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	—	—	2000K23	—	—	3000K34
	GYC (ALPHA5 Series)	—	—	2000K33	—	—	—
	GYS (ALPHA7 Series)	—	—	2000K23	—	—	3000K34
Mitsubishi Electric Corporation	HG-RR (J4 Series)	—	—	2000K23	—	—	—
YASKAWA Electric Corporation	SGMSV (Σ-V Series)	—	—	2000K13	—	3000K13	3000K34
	SGM7A (Σ-7 Series)	—	—	2000K13	—	3000K13	3000K34

200 W to 2000 W, Motor Rated Speed Below 3000 r/min (Note 1)

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)						
			200	375	500	600	800	850	1000
ABB	BSM	2000	—	—	—	—	—	—	1500K32
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	—	—	—	—	—	—	1500K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC)	2000	—	—	—	—	—	—	1500K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC)	2000	—	—	—	—	—	—	1500K32
	1S Series R88M-1M (2000 r/min, 200 VAC)	2000	—	—	—	—	—	—	1500K32 2000K32
	1S Series R88M-1M (2000 r/min, 400 VAC)	2000	—	—	—	1000K21	—	—	1500K32 2000K32
Sanyo Denki Co., Ltd.	R2AA13	2000	—	—	—	—	—	—	—
	R2CA13 (R Series/R2/□130/400 VAC)	2000	—	—	—	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	—	—	—	—	—	—	2000K31
	VLBST (1500 min ⁻¹)	1500	—	—	—	—	2000K31	—	2000K31
Delta Electronics, Inc.	ECMA-E*13 (□130)	2000	—	—	—	—	—	—	1500K32
	ECMA-F	1500	—	—	—	—	—	2000K32	—
	ECMA-G	1000	—	—	—	2000K32	—	—	—
	ECMC-E(□130)	2000	—	—	—	—	—	—	1500K32
	ECMC-F	1500	—	—	—	—	—	2000K32	—
	ECM-B3M-E*13 (□130)	2000	—	—	—	—	—	—	1500K32
Panasonic Corporation	MDME (MINAS A5 Series)	2000	—	—	—	—	—	—	1500K32
	MDMF (MINAS A6 Series □130 mm or more)	2000	—	—	—	—	—	—	1500K32
	MGMF (MINAS A6 Series □130 mm or more)	1500	—	—	—	—	—	2000K32	—
Fuji Electric Co., Ltd.	GYG (ALPHA5 Series)	2000	—	—	—	—	—	—	1500K32
	GYG (ALPHA7 Series)	2000	—	—	—	—	—	—	1500K32
Mitsubishi Electric Corporation	HG-SR 2000 r/min (J4 Series)	2000	—	—	—	—	—	—	1500K33
	HK-KT_4_W (□60) (J5 Series)	1500	400S1	—	—	—	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	750S2	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	2000	—	—	—	—	—	—	1500K33
	HK-ST_W (□130) (J5 Series)	1500	—	—	—	—	—	—	2000K33
	HK-ST_4_W (□130) (J5 Series)	1000	—	—	—	2000K33	—	3000K33	3000K33
	HG-SR 1000 r/min (J4 Series)	1000	—	—	1500K33	—	—	3000K33	—

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)					
			1200	1300	1500	1750	1800	2000
ABB	BSM	2000	—	—	3000K32	—	—	3000K32
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	—	—	3000K32	—	—	3000K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC)	2000	—	—	3000K32	—	—	3000K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC)	2000	—	—	3000K32	—	—	3000K32
	1S Series R88M-1M (2000 r/min, 200 VAC)	2000	—	—	3000K32	—	—	3000K32
	1S Series R88M-1M (2000 r/min, 400 VAC)	2000	—	—	3000K32	—	—	3000K32
Sanyo Denki Co., Ltd.	R2AA13	2000	2000K32	—	—	—	3000K32	3000K34
	R2CA13 (R Series/R2/□130/400 VAC)	2000	2000K32	—	—	—	3000K32	3000K34
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	—	—	3000K33	—	—	—
	VLBST (1500 min ⁻¹)	1500	—	—	3000K33	—	—	—
Delta Electronics, Inc.	ECMA-E*13 (□130)	2000	—	—	3000K32	—	—	3000K32
	ECMA-F	1500	—	3000K32	—	—	—	—
	ECMA-G	1000	—	—	—	—	—	—
	ECMC-E(□130)	2000	—	—	3000K32	—	—	3000K32
	ECMC-F	1500	—	3000K32	—	—	—	—
	ECM-B3M-E*13 (□130)	2000	—	—	3000K32	—	—	3000K32
Panasonic Corporation	MDME (MINAS A5 Series)	2000	—	—	3000K32	—	—	3000K32
	MDMF (MINAS A6 Series □130 mm or more)	2000	—	—	3000K32	—	—	3000K32
	MGMF (MINAS A6 Series □130 mm or more)	1500	—	3000K32	—	—	—	—
Fuji Electric Co., Ltd.	GYG (ALPHA5 Series)	2000	—	—	3000K32	—	—	3000K32
	GYG (ALPHA7 Series)	2000	—	—	3000K32	—	—	—
Mitsubishi Electric Corporation	HG-SR 2000 r/min (J4 Series)	2000	—	—	3000K33	—	—	—
	HK-KT_4_W (□60) (J5 Series)	1500	—	—	—	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	2000	—	—	—	3000K33	—	3000K33
	HK-ST_W (□130) (J5 Series)	1500	—	—	—	—	—	—
	HK-ST_4_W (□130) (J5 Series)	1000	—	—	—	—	—	—
	HG-SR 1000 r/min (J4 Series)	1000	—	—	—	—	—	—

Note 1: If the rated speed of the servo motor is below 3000 r/min, be careful with the continuous rated torque of the servo motor.
 Select a reducer whose continuous rated input torque is higher than the continuous rated torque of the servo motor.
 Please refer to page 839 for the continuous rated input torques of reducers.

Motor Matching /
Motor Power Design List

APG/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AFC Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

AFC Type

[Notes]

- The tables show below representative examples as of December 2020. The specifications of servo motors are subject to change. When placing an order, be sure to check the dimensions of the servo motor flange you are going to use and the dimensions of the area in which our reducer for servo motor will be installed.
- The tables show below servo motors of standard specifications. For servo motors using an oil seal or other options, be sure to check whether they can be provided with a reducer by reference to the Detailed Diagrams of Input Shaft and Flange Shapes on pages 803 to 805.
- The maximum input speed is 5000 r/min. We recommend it at 3000 r/min or below in general operation.
- If you supply a servo motor that needs to be installed to the reducer, we will ship the reducer assembled with the servo motor. Be sure to supply a servo motor without a key for the output shaft. In addition, the reducer will be installed so that the servo motor lead wires will be drawn out from the lower side as a standard specification.
- For more details, please contact your nearest Sales Office or the CS Center.

100 W to 750 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	100S1	200S3	400S3	—	750S3
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	100S1	200S3	400S3	—	750S3
	1S Series R88M-1M (3000 r/min, 100 VAC)	100S1	200S3	400S3	—	—
	1S Series R88M-1M (3000 r/min, 200 VAC)	100S1	200S3	400S3	—	750S3
KEYENCE Corporation	SV Series	100S1	200S2	400S1	—	750S2
	SV2 Series	100S1	200S2	400S1	—	750S2
KOYO ELECTRONICS INDUSTRIES CO., LTD.	KSV-B3	100S1	200S2	400S1	—	750S2
Sanyo Denki Co., Ltd.	R2EA06 (R Series/R2/□60/100 VAC)	—	200S2	—	—	—
	R2AA06 (R Series/R2/□60/200 VAC)	—	200S2	400S1	—	—
	R2AA08 (R Series/R2/□80/200 VAC)	—	—	—	—	750S1
	R2AA10 (R Series/R2/□100/200 VAC)	—	—	—	—	1000K22
	R5AA06 (R Series/R5/□60/200 VAC)	—	200S2	400S1	—	—
	R5AA08 (R Series/R5/□80/200 VAC)	—	—	—	—	750S1
	R2GA06 (R Series/R2/□60/48 VDC)	—	200S2	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	—	—	—	—	1000K22
	R1AA06 (R Series/R1/□60/200 VAC)	—	200S2	400S1	—	—
	R1EA06 (R Series/R1/□60/100 VAC)	—	200S2	—	—	—
CKD Nikki Denso Co., Ltd.	NA80 Series	100S1	200S2	400S1	750S2	750S2
	VLBSV-ZA (3000 min ⁻¹)	100S1	200S2	400S1	750S2	750S2
Tamagawa Seiki Co.,Ltd.	TS4603, TSM3104, TSM4104	100S1	—	—	—	—
	TS4607, TSM3202, TSM4202	—	200S2	—	—	—
	TS4609, TSM3204, TSM4204	—	—	400S1	—	—
	TS4614, TSM3304, TSM4304	—	—	—	—	750S2
	TS4613, TSM3303, TSM4303	—	—	—	750S2	—
Delta Electronics, Inc.	ECMA-C*06 (□60)	—	200S2	400S1	—	—
	ECMA-C*08 (□80)	—	—	—	—	750S2
	ECMA-C-H	—	—	400S1	—	750S2
	ECM-A3L-C*040 (□40)	100S1	—	—	—	—
	ECM-A3L-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3L-C*080 (□80)	—	—	—	—	750S2
	ECM-A3H-C*040 (□40)	100S1	—	—	—	—
	ECM-A3H-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3H-C*080 (□80)	—	—	—	—	750S2
	ECM-B3L-C*040 (□40)	100S1	—	—	—	—
	ECM-B3M-C*060 (□60)	—	200S2	400S1	—	—
ECM-B3M-C*080 (□80)	—	—	—	—	750S2	
Panasonic Corporation	MSME (MINAS A5 Series)	100S3 (Note 1)	200S3	400S3	—	750S3
	MHMD (MINAS A5 Series)	—	200S3	400S3	—	750S3
	MSMF (MINAS A6 Series)	100S3 (Note 1)	200S3	400S3	—	750S3
	MHMF (MINAS A6 Series)	100S1	200S3	400S3	—	750S3

Note 1: The dimensions of the square flange of the servo motor and the dimensions of the servo motor mounting square flange are different.

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
Hitachi Industrial Equipment Systems Co., Ltd.	ADMA Series	100S1	200S2	400S1	—	750S2
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	100S1	200S2	400S1	—	750S1
	GYS (ALPHA7 Series)	100S1	200S2	400S1	—	750S1
	GYB (ALPHA7 Series)	—	200S2	400S1	—	750S2
Mitsubishi Electric Corporation	HG-KR (J4 Series, JN Series)	100S1	200S2	400S1	—	750S2
	HG-MR (J4 Series)	100S1	200S2	400S1	—	750S2
	HF-KN Series (JN Series)	100S1	200S2	400S1	—	—
	HK-KT_W (□40) (J5 Series)	100S1	—	—	—	—
	HK-KT_W (□60) (J5 Series)	—	200S2	400S1	—	—
	HK-KT_W (□80) (J5 Series)	—	—	—	—	750S2
	MM-GKR (Sensor-less Servo Series)	100S1	200S2	400S1	—	750S2
YASKAWA Electric Corporation	SGMAV (Σ-V Series)	100S1	200S2	400S1	—	750S2
	SGMJV (Σ-V Series)	100S1	200S2	400S1	—	750S2
	SGM7J (Σ-7 Series)	100S1	200S2	400S1	—	750S2
	SGM7A (Σ-7 Series)	100S1	200S2	400S1	—	750S2

■ 1000 W to 1500 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		1000	1200	1300	1400	1500
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	1000K61	—	—	—	2000K21
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	—	—	—	—	2000K21
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	—	—	—	—	2000K21
	1S Series R88M-1L (3000 r/min, 200 VAC)	—	—	—	—	2000K21
	1S Series R88M-1L (3000 r/min, 400 VAC)	—	—	—	—	2000K21
Sanyo Denki Co., Ltd.	R2AA10 (R Series/R2/□100/200 VAC)	1000K22	—	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	1000K22	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	—	—	—	—	—
	VLBST (3000 min ⁻¹)	—	—	—	—	—
Panasonic Corporation	MSME (MINAS A5 Series)	—	—	—	—	2000K21
	MSMF (MINAS A6 Series)	—	—	—	—	2000K21
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	1000K23	—	—	—	2000K23
	GYC (ALPHA5 Series)	—	—	—	—	2000K33
	GYS (ALPHA7 Series)	1000K23	—	—	—	2000K23
Mitsubishi Electric Corporation	HG-RR (J4 Series)	1000K23	—	—	—	2000K23
	HK-KT_W (□90) (J5 Series)	1000K61	—	—	—	—
YASKAWA Electric Corporation	SGMSV (Σ-V Series)	1000K13	—	—	—	2000K13
	SGM7A (Σ-7 Series)	—	—	—	—	2000K13
	SGM7P (Σ-7 Series)	—	—	—	—	2000K41

Motor Matching /
Motor Power Design List

APG/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AFC Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

■ 1600 W to 3000 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)					
		1600	1800	2000	2400	2500	3000
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	—	—	2000K21	—	—	3000K52
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	—	—	2000K21	—	—	—
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	—	—	2000K21	—	—	—
	1S Series R88M-1L (3000 r/min, 200 VAC)	—	—	2000K21	—	—	3000K32
	1S Series R88M-1L (3000 r/min, 400 VAC)	—	—	2000K21	—	—	3000K32
Sanyo Denki Co., Ltd.	R2AA10 (R Series/R2/□100/200 VAC)	—	—	—	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	—	—	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	—	2000K31	—	3000K33	—	3000K75
	VLBST (3000 min ⁻¹)	—	2000K31	—	3000K33	—	—
Panasonic Corporation	MSME (MINAS A5 Series)	—	—	2000K21	—	—	3000K32
	MSMF (MINAS A6 Series)	—	—	2000K21	—	—	3000K32
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	—	—	2000K23	—	—	—
	GYC (ALPHA5 Series)	—	—	2000K33	—	—	—
	GYS (ALPHA7 Series)	—	—	2000K23	—	—	—
Mitsubishi Electric Corporation	HG-RR (J4 Series)	—	—	2000K23	—	—	—
	HK-KT_W (□90) (J5 Series)	—	—	—	—	—	—
YASKAWA Electric Corporation	SGMSV (Σ-V Series)	—	—	2000K13	—	3000K13	—
	SGM7A (Σ-7 Series)	—	—	2000K13	—	3000K13	—
	SGM7P (Σ-7 Series)	—	—	—	—	—	—

■ 200 W to 2000 W, Motor Rated Speed Below 3000 r/min (Note 1)

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)						
			200	375	500	600	800	850	900
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	—	—	—	—	—	—	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC)	2000	—	—	—	—	—	—	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC)	2000	—	—	—	—	—	—	—
	1S Series R88M-1M (2000 r/min, 200 VAC)	2000	—	—	—	—	—	—	—
	1S Series R88M-1M (2000 r/min, 400 VAC)	2000	—	—	—	—	—	—	—
	1S Series R88M-1M (1000 r/min, 200 VAC)	1000	—	—	—	—	—	—	3000K32
Sanyo Denki Co., Ltd.	1S Series R88M-1M (1000 r/min, 400 VAC)	1000	—	—	—	—	—	—	3000K32
	R2AA13	2000	—	—	—	—	—	—	—
	R2CA13 (R Series/R2/□130/400 VAC)	2000	—	—	—	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	—	—	—	—	—	—	—
	VLBST (1500 min ⁻¹)	1500	—	—	—	—	2000K31	—	—
Panasonic Corporation	MDME (MINAS A5 Series)	2000	—	—	—	—	—	—	—
	MHMF (MINAS A5 Series)	2000	—	—	—	—	—	—	—
	MDMF (MINAS A6 Series)	2000	—	—	—	—	—	—	—
	MHMF (MINAS A6 Series)	2000	—	—	—	—	—	—	—
	MGMF (MINAS A6 Series)	1500	—	—	—	—	—	—	2000K32
Mitsubishi Electric Corporation	HG-SR 2000 r/min (J4 Series)	2000	—	—	—	—	—	—	—
	HK-KT_4_W (□60) (J5 Series)	1500	400S1	—	—	—	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	750S2	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	2000	—	—	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	1500	—	—	—	—	—	—	—
	HK-ST_W (□176) (J5 Series)	2000	—	—	—	—	—	—	—
	HK-ST_4_W (□130) (J5 Series)	1000	—	—	—	2000K33	—	3000K33	—
	HG-SR 1000 r/min (J4 Series)	1000	—	—	2000K33	—	—	3000K33	—

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)						
			1000	1200	1300	1500	1750	1800	2000
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	2000K32	—	—	3000K32	—	—	3000K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC)	2000	2000K32	—	—	3000K32	—	—	3000K32
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC)	2000	2000K32	—	—	3000K32	—	—	3000K32
	1S Series R88M-1M (2000 r/min, 200 VAC)	2000	2000K32	—	—	3000K32	—	—	3000K32
	1S Series R88M-1M (2000 r/min, 400 VAC)	2000	2000K32	—	—	3000K32	—	—	3000K32
	1S Series R88M-1M (1000 r/min, 200 VAC)	1000	—	—	—	—	—	—	—
	1S Series R88M-1M (1000 r/min, 400 VAC)	1000	—	—	—	—	—	—	—
Sanyo Denki Co., Ltd.	R2AA13	2000	—	2000K32	—	—	—	3000K32	3000K34
	R2CA13 (R Series/R2/□130/400 VAC)	2000	—	2000K32	—	—	—	3000K32	3000K34
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	2000K31	—	—	3000K33	—	—	—
	VLBST (1500 min ⁻¹)	1500	2000K31	—	—	3000K33	—	—	—
Panasonic Corporation	MDME (MINAS A5 Series)	2000	2000K32	—	—	3000K32	—	—	3000K32
	MHMF (MINAS A5 Series)	2000	2000K32	—	—	3000K32	—	—	—
	MDMF (MINAS A6 Series)	2000	2000K32	—	—	3000K32	—	—	3000K32
	MHMF (MINAS A6 Series)	2000	2000K32	—	—	3000K32	—	—	—
	MGMF (MINAS A6 Series)	1500	—	—	3000K32	—	—	—	—
Mitsubishi Electric Corporation	HG-SR 2000 r/min (J4 Series)	2000	2000K33	—	—	3000K33	—	—	3000K75
	HK-KT_4_W (□60) (J5 Series)	1500	—	—	—	—	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	—	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	2000	2000K33	—	—	—	3000K33	—	3000K33
	HK-ST_W (□130) (J5 Series)	1500	2000K33	—	—	—	—	—	—
	HK-ST_W (□176) (J5 Series)	2000	—	—	—	—	—	—	3000K75
	HK-ST_4_W (□130) (J5 Series)	1000	3000K33	—	—	—	—	—	—
	HG-SR 1000 r/min (J4 Series)	1000	—	—	—	—	—	—	—

Note 1: If the rated speed of the servo motor is below 3000 r/min, be careful with the continuous rated torque of the servo motor.
 Select a reducer whose continuous rated input torque is higher than the continuous rated torque of the servo motor.
 Please refer to page 839 for the continuous rated input torques of reducers.

Motor Matching /
Motor Power Design List

APG/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AFC Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

AG3/AH2/AF3 Types

[Notes]

- The tables show below representative examples as of December 2020. The specifications of servo motors are subject to change. When placing an order, be sure to check the dimensions of the servo motor flange you are going to use and the dimensions of the area in which our reducer for servo motor will be installed.
- The tables show below servo motors of standard specifications. For servo motors using an oil seal or other options, be sure to check whether they can be provided with a reducer by reference to the Detailed Diagrams of Input Shaft and Flange Shapes on pages 799 to 801 and pages 806 to 810.
- In the case of a servo motor whose maximum speed exceeds 3000 r/min, we recommend its speed of 3000 r/min or below.
- Select a 2000 W class reducer for 1000 W and 1500 W servo motors.
- If you supply a servo motor that needs to be installed to the reducer, we will ship the reducer assembled with the servo motor. Be sure to supply a servo motor without a key for the output shaft. In addition, the reducer will be installed so that the servo motor lead wires will be drawn out from the lower side in the case of the AF3S and the AF3F or from the upper side in the case of other types as a standard specification.
- Reducers for the ADME Series of Hitachi Industrial Equipment Systems Co., Ltd. will be custom-made.
For more details, please contact your nearest Sales Office or the CS Center.

100 W to 2000 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	100S1	200S3	400S3	—	750S3
	G Series R88M-G (Flat Type 3000 r/min)	100F3	—	—	—	—
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	100S1	200S3	400S3	—	750S3
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	—	—	—	—	—
	1S Series R88M-1M (3000 r/min, 100 VAC)	100S1	200S3	400S3	—	—
	1S Series R88M-1M (3000 r/min, 200 VAC)	100S1	200S3	400S3	—	750S3
	1S Series R88M-1L (3000 r/min, 200 VAC)	—	—	—	—	—
	1S Series R88M-1L (3000 r/min, 400 VAC)	—	—	—	—	—
	SV Series	100S1	200S2	400S1	—	750S2
	SV2 Series	100S1	200S2	400S1	—	750S2
KEYENCE Corporation	SV Series	100S1	200S2	400S1	—	750S2
KOYO ELECTRONICS INDUSTRIES CO., LTD.	KSV-B3	100S1	200S2	400S1	—	750S2
	R2EA06 (R Series/R2/□60/100 VAC)	100F1	200S2	—	—	—
	R2AA04 (R Series/R2/□40/200 VAC)	100S1	—	—	—	—
	R2AA06 (R Series/R2/□60/200 VAC)	100F1	200S2	400S1	—	—
	R2AA08 (R Series/R2/□80/200 VAC)	—	200F2	400F1	—	750S1
	R2AA10 (R Series/R2/□100/200 VAC)	—	—	—	—	1000K22
	R5AA06 (R Series/R5/□60/200 VAC)	—	200S2	400S1	—	—
	R5AA08 (R Series/R5/□80/200 VAC)	—	—	—	—	750S1
	R2GA06 (R Series/R2/□60/48 VAC)	100F1	200S2	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	—	—	—	—	1000K22
	R1AA04 (R Series/R1/□40/200 VAC)	100S1	—	—	—	—
	R1EA04 (R Series/R1/□40/100 VAC)	100S1	—	—	—	—
	R1AA06 (R Series/R1/□60/200 VAC)	—	200S2	400S1	—	—
	R1EA06 (R Series/R1/□60/100 VAC)	—	200S2	—	—	—
R1AA08 (R Series/R1/□80/200 VAC)	—	—	—	—	750S1	
CKD Nikki Denso Co., Ltd.	NA80 Series	—	200S2	400S1	750S2	750S2
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	—	—	—	—	—
	VLBSV-ZA (3000 min ⁻¹)	100S1	200S2	400S1	750S2	750S2
	VLBST (3000 min ⁻¹)	—	—	—	—	—
Tamagawa Seiki Co.,Ltd.	TS4607, TSM3202, TSM4202	—	200S2	—	—	—
	TS4611	—	200F2	—	—	—
	TS4609, TSM3204, TSM4204	—	—	400S1	—	—
	TS4612	—	—	400F1	—	—
	TS4614, TSM3304, TSM4304	—	—	—	—	750S2
	TS4813	—	—	—	—	—
	TS4613, TSM3303, TSM4303	—	—	—	750S2	—
	ECMA-C*04 (□40)	100S1	—	—	—	—
ECMA-C*06 (□60)	—	200S2	400S1	—	—	
ECMA-C*08 (□80)	—	—	400F1	—	750S2	
ECMA-C*10 (□100)	—	—	—	—	—	
ECMA-C-H	—	—	400S1	—	750S2	
Delta Electronics, Inc.	ECM-A3L-C*040 (□40)	100S1	—	—	—	—
	ECM-A3L-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3L-C*080 (□80)	—	—	400F1	—	750S2
	ECMC-C	—	—	—	—	—
	ECM-A3H-C*040 (□40)	100S1	—	—	—	—
	ECM-A3H-C*060 (□60)	—	200S2	400S1	—	—
	ECM-A3H-C*080 (□80)	—	—	400F1	—	750S2
	ECM-B3L-C*040 (□40)	100S1	—	—	—	—
	ECM-B3M-C*060 (□60)	—	200S2	400S1	—	—
	ECM-B3M-C*080 (□80)	—	—	400F1	—	750S2
	ECM-B3M-C*040 (□40)	—	—	—	—	—
	ECM-B3M-C*060 (□60)	—	200S2	400S1	—	750S2
ECM-B3M-C*080 (□80)	—	—	400F1	—	750S2	
Panasonic Corporation	MSME (MINAS A5 Series)	100S3 (Note 1)	200S3	400S3	—	750S3
	MHMD (MINAS A5 Series)	—	200S3	400S3	—	750S3
	MSMF (MINAS A6 Series)	100S3 (Note 1)	200S3	400S3	—	750S3
	MQMF (MINAS A6 Series)	100F3	200F3	400F3	—	—
	MHMF (MINAS A6 Series)	100S1	200S3	400S3	—	750S3

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		100	200	400	600	750
Hitachi Industrial Equipment Systems Co., Ltd.	ADMA Series	100S1	200S2	400S1	—	750S2 (Note 1)
FANUC Corporation	Please refer to the appendix table on page 685.					
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	100S1	200S2	400S1	—	750S1
	GYC (ALPHA5 Series)	100F1	200F2	400F1	—	—
	GYS (ALPHA7 Series)	100S1	200S2	400S1	—	750S1
	GYB (ALPHA7 Series)	—	200S2	400S1	—	750S2

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)			
		1000 (Note 2)	1500	1800	2000
OMRON Corporation	G Series R88M-G (Cylinder Type 3000 r/min)	—	2000K21	—	2000K21
	G Series R88M-G (Flat Type 3000 r/min)	—	—	—	—
	G5 Series R88M-K (Cylinder Type 3000 r/min, 100 VAC/200 VAC)	1000K21	2000K21	—	2000K21
	G5 Series R88M-K (Cylinder Type 3000 r/min, 400 VAC)	1000K21	2000K21	—	2000K21
	1S Series R88M-1M (3000 r/min, 100 VAC)	—	—	—	—
	1S Series R88M-1M (3000 r/min, 200 VAC)	—	—	—	—
	1S Series R88M-1L (3000 r/min, 200 VAC)	1000K21	2000K21	—	2000K21
	1S Series R88M-1L (3000 r/min, 400 VAC)	1000K21	2000K21	—	2000K21
KEYENCE Corporation	SV Series	—	—	—	—
	SV2 Series	—	—	—	—
Sanyo Denki Co., Ltd.	R2EA06 (R Series/R2/□60/100 VAC)	—	—	—	—
	R2AA04 (R Series/R2/□40/200 VAC)	—	—	—	—
	R2AA06 (R Series/R2/□60/200 VAC)	—	—	—	—
	R2AA08 (R Series/R2/□80/200 VAC)	—	—	—	—
	R2AA10 (R Series/R2/□100/200 VAC)	1000K22	—	—	—
	R5AA06 (R Series/R5/□60/200 VAC)	—	—	—	—
	R5AA08 (R Series/R5/□80/200 VAC)	—	—	—	—
	R2GA06 (R Series/R2/□60/48 VAC)	—	—	—	—
	R2CA10 (R Series/R2/□100/400 VAC)	1000K22	—	—	—
	R1AA04 (R Series/R1/□40/200 VAC)	—	—	—	—
	R1EA04 (R Series/R1/□40/100 VAC)	—	—	—	—
	R1AA06 (R Series/R1/□60/200 VAC)	—	—	—	—
	R1EA06 (R Series/R1/□60/100 VAC)	—	—	—	—
	R1AA08 (R Series/R1/□80/200 VAC)	—	—	—	—
CKD Nikki Denso Co., Ltd.	NA80 Series	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (3000 min ⁻¹)	1000K31	—	2000K31	—
	VLBSV-ZA (3000 min ⁻¹)	—	—	—	—
	VLBST (3000 min ⁻¹)	—	—	2000K31	—
Tamagawa Seiki Co.,Ltd.	TS4607, TSM3202, TSM4202	—	—	—	—
	TS4611	—	—	—	—
	TS4609, TSM3204, TSM4204	—	—	—	—
	TS4612	—	—	—	—
	TS4614, TSM3304, TSM4304	—	—	—	—
	TS4813	1000K22	—	—	—
	TS4613, TSM3303, TSM4303	—	—	—	—
Delta Electronics, Inc.	ECMA-C*04 (□40)	—	—	—	—
	ECMA-C*06 (□60)	—	—	—	—
	ECMA-C*08 (□80)	—	—	—	—
	ECMA-C*10 (□100)	1000K22(Note 3)	—	—	—
	ECMA-C-H	—	—	—	—
	ECM-A3L-C*040 (□40)	—	—	—	—
	ECM-A3L-C*060 (□60)	—	—	—	—
	ECM-A3L-C*080 (□80)	—	—	—	—
	ECMC-C	1000K22(Note 3)	—	—	—
	ECM-A3H-C*040 (□40)	—	—	—	—
	ECM-A3H-C*060 (□60)	—	—	—	—
	ECM-A3H-C*080 (□80)	—	—	—	—
	ECM-B3L-C*040 (□40)	—	—	—	—
ECM-B3M-C*060 (□60)	—	—	—	—	
ECM-B3M-C*080 (□80)	—	—	—	—	
Panasonic Corporation	MSME (MINAS A5 Series)	1000K21	2000K21	—	2000K21
	MHMD (MINAS A5 Series)	—	—	—	—
	MSMF (MINAS A6 Series)	1000K21	2000K21	—	2000K21
	MQMF (MINAS A6 Series)	—	—	—	—
	MHMF (MINAS A6 Series)	—	—	—	—
Hitachi Industrial Equipment Systems Co., Ltd.	ADMA Series	—	—	—	—
FANUC Corporation	Please refer to the appendix table on page 685.				
Fuji Electric Co., Ltd.	GYS (ALPHA5 Series)	1000K23	2000K23	—	2000K23
	GYC (ALPHA5 Series)	1000K33	2000K33	—	2000K33
	GYS (ALPHA7 Series)	1000K23	2000K23	—	2000K23
	GYB (ALPHA7 Series)	—	—	—	—

Note 1: The dimensions of the square flange of the servo motor and the dimensions of the servo motor mounting square flange are different.
 Note 2: The motor power is applicable only to concentric right angle hollow bore type and concentric right angle shaft type (AF3 Type). Please be cautious.

Motor Matching /
Motor Power Design List

APG/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AFC Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

■ 100 W to 2000 W, Motor Rated Speed 3000 r/min

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)			
		100	200	400	600
Mitsubishi Electric Corporation	HG-KR (J4 Series, JN Series)	100S1	200S2	400S1	—
	HG-MR (J4 Series)	100S1	200S2	400S1	—
	HG-RR (J4 Series)	—	—	—	—
	HF-KN (JN Series)	100S1	200S2	400S1	—
	HK-KT_W (□40) (J5 Series)	100S1	—	—	—
	HK-KT_W (□60) (J5 Series)	100F1	200S2	400S1	—
	HK-KT_W (□80) (J5 Series)	—	200F2	400F1	—
	MM-GKR (Sensor-less Servo Series)	100S1	200S2	400S1	—
YASKAWA Electric Corporation	SGMAV (Σ-V Series)	100S1	200S2	400S1	—
	SGMJV (Σ-V Series)	100S1	200S2	400S1	—
	SGM7J (Σ-7 Series)	100S1	200S2	400S1	—
	SGM7A (Σ-7 Series)	100S1	200S2	400S1	—
	SGM7P (Σ-7 Series)	100F1	200F2	400F1	—

Manufacturer (In order of Japanese syllabary)	Type	Motor Power (W)				
		750	1000 (Note 1)	1500	1800	2000
Mitsubishi Electric Corporation	HG-KR (J4 Series, JN Series)	750S2	—	—	—	—
	HG-MR (J4 Series)	750S2	—	—	—	—
	HG-RR (J4 Series)	—	1000K23	2000K23	—	2000K23
	HF-KN (JN Series)	—	—	—	—	—
	HK-KT_W (□40) (J5 Series)	—	—	—	—	—
	HK-KT_W (□60) (J5 Series)	—	—	—	—	—
	HK-KT_W (□80) (J5 Series)	750S2	—	—	—	—
	MM-GKR (Sensor-less Servo Series)	750S2	—	—	—	—
YASKAWA Electric Corporation	SGMAV (Σ-V Series)	750S2	—	—	—	—
	SGMJV (Σ-V Series)	750S2	—	—	—	—
	SGM7J (Σ-7 Series)	750S2	—	—	—	—
	SGM7A (Σ-7 Series)	750S2	—	—	—	—
	SGM7P (Σ-7 Series)	750F2	—	—	—	—

■ 100 W to 1200 W, Motor Rated Speed Below 3000 r/min (Note 2)

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)				
			100	200	300	375	500
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	—	—	—	—	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC Input)	2000	—	—	—	—	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC Input)	2000	—	—	—	—	—
	1S Series R88M-1M (2000 r/min, 200 VAC Input)	2000	—	—	—	—	—
	1S Series R88M-1M (2000 r/min, 400 VAC Input)	2000	—	—	—	—	—
Sanyo Denki Co., Ltd.	R2AA13	2000	—	—	—	—	—
	R2CA13 (R Series/R2/□130/400 VAC)	2000	—	—	—	—	—
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	—	—	—	—	1000K31
	VLBST (1500 min ⁻¹)	1500	—	—	—	—	—
Delta Electronics, Inc.	ECMA-E*13 (□130)	2000	—	—	—	—	1000K32(Note 1)
	ECMA-F	1500	—	—	—	—	1000K32(Note 1)
Panasonic Corporation	MDME (MINAS A5 Series)	2000	—	—	—	—	—
	MHMF (MINAS A5 Series)	2000	—	—	—	—	—
	MDMF (MINAS A6 Series)	2000	—	—	—	—	—
	MHMF (MINAS A6 Series)	2000	—	—	—	—	—
	MGMF (MINAS A6 Series)	1500	—	—	—	—	—
Hitachi Industrial Equipment Systems Co., Ltd.	ADME Series	2000	—	—	—	—	—
Mitsubishi Electric Corporation	HG-SR 2000 r/min Series (J4 Series)	2000	—	—	—	—	—
	HK-KT_4_W (□60) (J5 Series)	1500	—	400S1	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	—	—	750S2	—
	HK-ST_W (□130) (J5 Series)	2000	—	—	—	—	1000K33 (Note 3)
	HK-ST_W (□130) (J5 Series)	1500	—	—	—	—	1000K33 (Note 3)
	HK-ST_4_W (□130) (J5 Series)	1000	—	—	1000K33 (Note 3)	—	—
	HG-SR 1000 r/min (J4 Series)	1000	—	—	—	—	2000K33
	HG-SR 2000 r/min Series (J4 Series)	2000	—	—	—	—	1000K33 (Note 3)
YASKAWA Electric Corporation	SGM7G 1500 r/min (Σ-7 Series)	1500	—	—	—	—	—

Motor Matching / Motor Power Design List

Manufacturer (In order of Japanese syllabary)	Type	Motor Rated Speed (r/min)	Motor Power (W)					
			550	600	800	850	1000	1200
OMRON Corporation	G Series R88M-G (Cylinder Type 2000 r/min)	2000	—	—	—	—	2000K32	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 200 VAC Input)	2000	—	—	—	—	2000K32	—
	G5 Series R88M-K (Cylinder Type 2000 r/min, 400 VAC Input)	2000	—	—	—	—	2000K32	—
	1S Series R88M-1M (2000 r/min, 200 VAC Input)	2000	—	—	—	—	2000K32	—
	1S Series R88M-1M (2000 r/min, 400 VAC Input)	2000	—	1000K21 (Note 1)	—	—	2000K32	—
Sanyo Denki Co., Ltd.	R2AA13	2000	—	—	—	—	—	2000K32
	R2CA13 (R Series/R2/□130/400 VAC)	2000	1000K32	—	—	—	—	2000K32
Shibaura Machine Co., Ltd.	VLBSV (1500 min ⁻¹)	1500	—	—	—	—	2000K31	—
	VLBST (1500 min ⁻¹)	1500	—	—	2000K31	—	2000K31	—
Delta Electronics, Inc.	ECMA-E*13 (□130)	2000	—	—	—	—	—	—
	ECMA-F	1500	—	—	—	—	—	—
Panasonic Corporation	MDME (MINAS A5 Series)	2000	—	—	—	—	2000K32	—
	MHMF (MINAS A5 Series)	2000	—	—	—	—	2000K32	—
	MDMF (MINAS A6 Series)	2000	—	—	—	—	2000K32	—
	MHMF (MINAS A6 Series)	2000	—	—	—	—	2000K32	—
	MGMF (MINAS A6 Series)	1500	—	—	—	2000K32	—	—
Hitachi Industrial Equipment Systems Co., Ltd.	ADME Series	2000	—	—	—	—	2000F33 (Note 3)	—
Mitsubishi Electric Corporation	HG-SR 2000 r/min Series (J4 Series)	2000	—	—	—	—	2000K33	—
	HK-KT_4_W (□60) (J5 Series)	1500	—	—	—	—	—	—
	HK-KT_4_W (□80) (J5 Series)	1500	—	—	—	—	—	—
	HK-ST_W (□130) (J5 Series)	2000	—	—	—	—	2000K33	—
	HK-ST_W (□130) (J5 Series)	1500	—	—	—	—	2000K33	—
	HK-ST_4_W (□130) (J5 Series)	1000	—	2000K33	—	—	—	—
	HG-SR 1000 r/min (J4 Series)	1000	—	—	—	—	—	—
	HG-SR 2000 r/min Series (J4 Series)	2000	—	—	—	—	2000K33	—
YASKAWA Electric Corporation	SGM7G 1500 r/min (Σ-7 Series)	1500	—	—	—	2000F33	—	—

Note 1: Reducers of the 1000 W class (power design code: 1000K21, 1000K23, etc.) are available only for concentric right angle hollow bore type and concentric right angle shaft type reducers (AF3S Type/AF3F Type) of 1 arc min and 3 arc min specifications. Please be cautious.

Note 2: If the rated speed of the servo motor is below 3000 r/min, be careful with the continuous rated torque of the servo motor.

Select a reducer whose continuous rated input torque is higher than the continuous rated torque of the servo motor.
Please refer to page 839 for the continuous rated input torques of reducers.

Note 3: The motor power is applicable only to concentric right angle hollow bore type and concentric right angle shaft type reducers (AF3 Type). Please be cautious.

Motor Matching List for Motors of FANUC Corporation

[Notes]

- Only straight shaft servo motors can be equipped with a reducer. The power design codes in are available only for backlash 1 arc min and 3 arc min specifications.
- In the case of a servo motor whose rated speed or maximum speed exceeds 3000 r/min, we recommend it speed of 3000 r/min or below.
- If you supply a servo motor that needs to be installed to the reducer, we will ship the reducer assembled with the servo motor.
- For more details, please contact your nearest Sales Office or the CS Center.

Manufacturer	Type	Power Design Code
FANUC Corporation	βis0.2/5000	100S1
	βis0.3/5000	100S1
	βis0.4/5000	200S5
	βis0.5/6000	200S5
	βis1/6000	400S1
	βis4/4000	750S6
	βis8/3000	2000F31
	βis12/2000, βis12/3000	2000F33
	ais8/4000, ais8/6000	2000F31

Motor Matching /
Motor Power Design List

APG/AG3 Type
Parallel Shaft

AH2 Type
Right Angle Shaft

AF3 Type
Right Angle Hollow Bore/
Right Angle Shaft

AF3 Type
Concentric Right Angle Hollow Bore/
Concentric Right Angle Shaft

Technical Documentation

MEMO

Motor Matching / Motor Power Design List	APG/AG3 Type Parallel Shaft	AH2 Type Right Angle Shaft	AFC Type Right Angle Hollow Bore/ Right Angle Shaft	AF3 Type Concentric Right Angle Hollow Bore/ Concentric Right Angle Shaft	Technical Documentation
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