

2.6 Model designation and output power

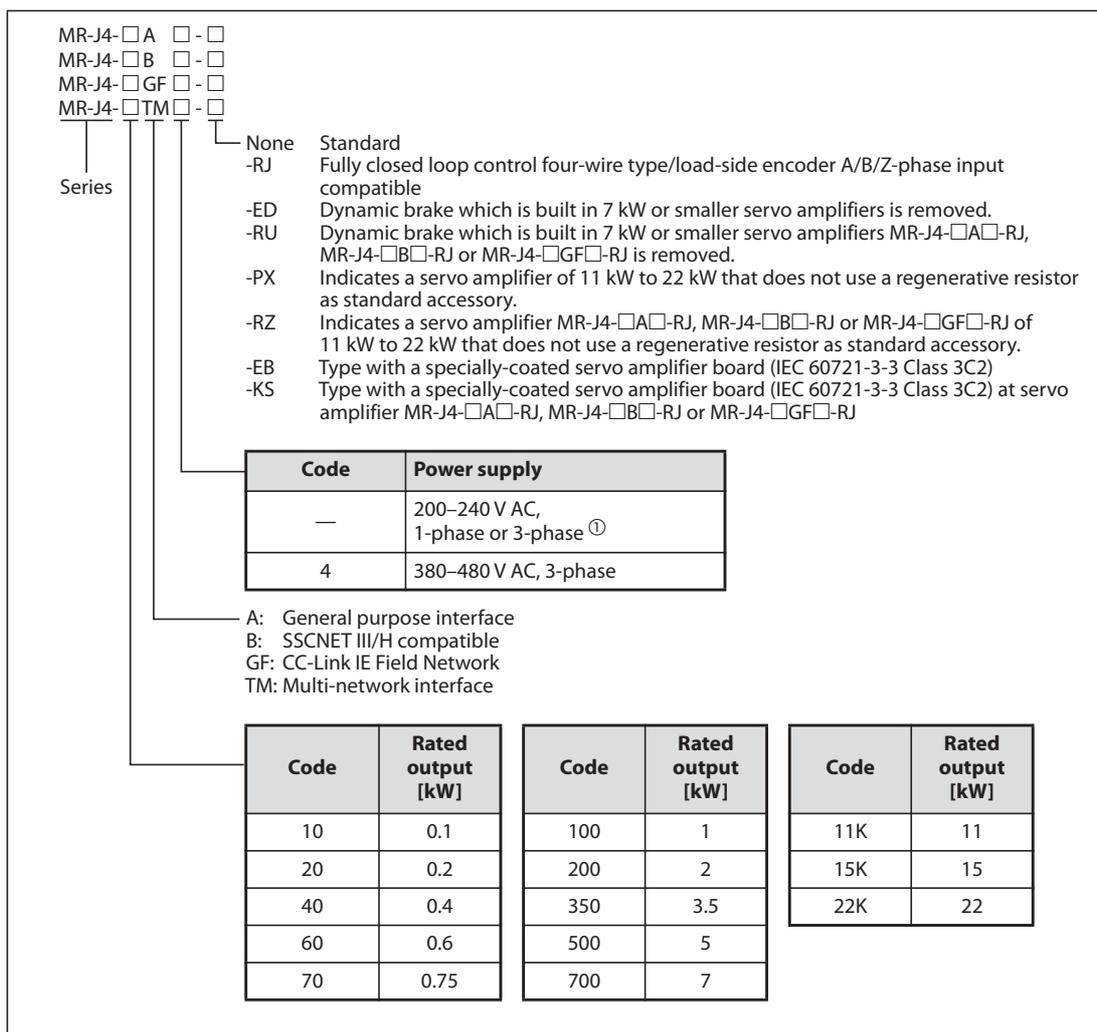


Fig. 2-6: Model designation and rated output of the servo amplifiers for one axis

① Servo amplifiers up to MR-J4-200A, MR-J4-200B, MR-J4-200GF or MR-J4-200TM (included), can be connected 1-phase.

When using 1-phase 200–240 V AC power supply, operate the servo amplifier MR-J4-100A, MR-J4-200A, MR-J4-100B, MR-J4-200B, MR-J4-100GF, MR-J4-200GF, MR-J4-100TM and MR-J4-200TM at 75% or smaller effective load ratio.

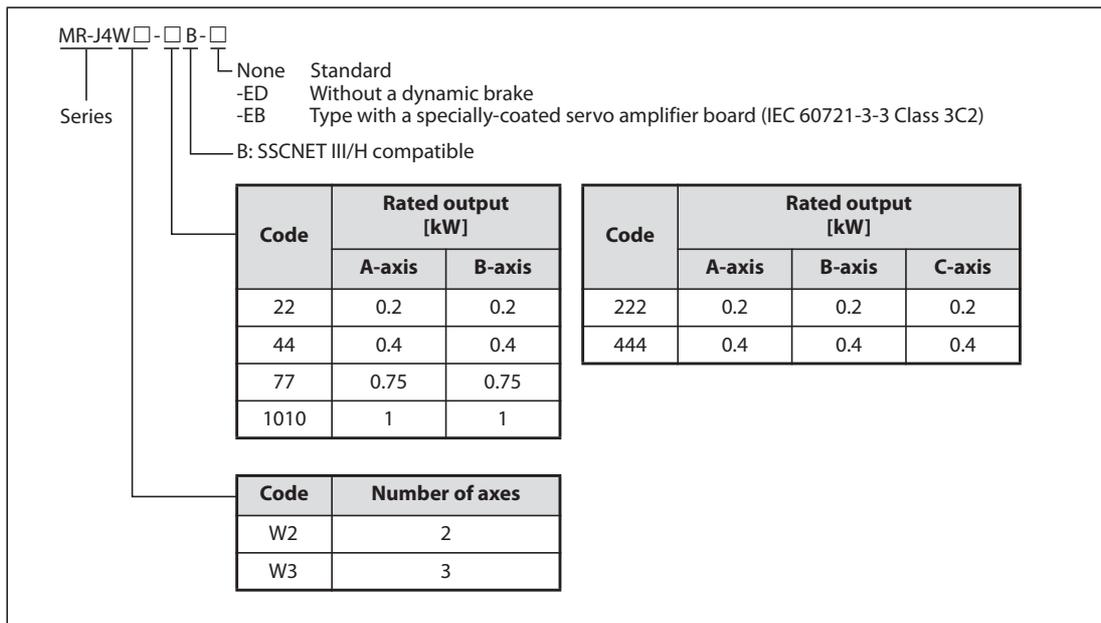


Fig. 2-7: Model designation and rated output of the servo amplifiers for two or three axes

2.7 Combinations of servo amplifiers and servo motors

The following tables show the possible combinations between the servo amplifier series MR-J4-A(-RJ), MR-J4-B(-RJ), MR-J4W-B, MR-J4-TM and MR-J4-GF(-RJ) and the rotary motors, linear motors and direct drive motors.

2.7.1 200 V class

Servo amplifier	Rotary motor	Linear motor (primary side)	Direct drive motor
MR-J4-10A(-RJ) MR-J4-10B(-RJ) MR-J4-10GF(-RJ) MR-J4-10TM	HG-KR053, HG-KR13, HG-MR053, HG-MR13	—	—
MR-J4-20A(-RJ) MR-J4-20B(-RJ) MR-J4-20GF(-RJ) MR-J4-20TM	HG-KR23, HG-MR23	LM-U2PAB-05M-0SS0, LM-U2PBB-07M-1SS0	TM-RFM002C20
MR-J4-40A(-RJ) MR-J4-40B(-RJ) MR-J4-40GF(-RJ) MR-J4-40TM	HG-KR43, HG-MR43	LM-H3P2A-07P-BSS0, LM-H3P3A-12P-CSS0, LM-K2P1A-01M-2SS1, LM-U2PAD-10M-0SS0, LM-U2PAF-15M-0SS0	TM-RFM004C20
MR-J4-60A(-RJ) MR-J4-60B(-RJ) MR-J4-60GF(-RJ) MR-J4-60TM	HG-SR51, HG-SR52, HG-JR53	LM-U2PBD-15M-1SS0	TM-RFM006C20, TM-RFM006E20
MR-J4-70A(-RJ) MR-J4-70B(-RJ) MR-J4-70GF(-RJ) MR-J4-70TM	HG-KR73, HG-MR73, HG-UR72, HG-JR73	LM-H3P3B-24P-CSS0, LM-H3P3C-36P-CSS0, LM-H3P7A-24P-ASS0, LM-K2P2A-02M-1SS1, LM-U2PBF-22M-1SS0	TM-RFM012E20, TM-RFM012G20, TM-RFM040J10
MR-J4-100A(-RJ) MR-J4-100B(-RJ) MR-J4-100GF(-RJ) MR-J4-100TM	HG-SR81, HG-SR102, HG-JR103, HG-JR53 ①	—	TM-RFM018E20
MR-J4-200A(-RJ) MR-J4-200B(-RJ) MR-J4-200GF(-RJ) MR-J4-200TM	HG-SR121, HG-SR201, HG-SR152, HG-SR202, HG-UR152, HG-RR103, HG-RR153, HG-JR153, HG-JR203, HG-JR73 ①, HG-JR103 ①	LM-H3P3D-48P-CSS0, LM-H3P7B-48P-ASS0, LM-H3P7C-72P-ASS0, LM-FP2B-06M-1SS0, LM-K2P1C-03M-2SS1, LM-U2P2B-40M-2SS0	—
MR-J4-350A(-RJ) MR-J4-350B(-RJ) MR-J4-350GF(-RJ) MR-J4-350TM	HG-SR301, HG-SR352, HG-UR202, HG-RR203, HG-JR353, HG-JR153 ①, HG-JR203 ①	LM-H3P7D-96P-ASS0, LM-K2P2C-07M-1SS1, LM-K2P3C-14M-1SS1, LM-U2P2C-60M-2SS0	TM-RFM048G20, TM-RFM072G20, TM-RFM120J10
MR-J4-500A(-RJ) MR-J4-500B(-RJ) MR-J4-500GF(-RJ) MR-J4-500TM	HG-SR421, HG-SR502, HG-UR352, HG-UR502, HG-RR353, HG-RR503, HG-JR503, HG-JR353	LM-FP2D-12M-1SS0, LM-FP4B-12M-1SS0, LM-K2P2E-12M-1SS1, LM-K2P3E-24M-1SS1, LM-U2P2D-80M-2SS0	TM-RFM240J10

Tab. 2-1: Servo amplifier and motor combination for 200 V class (1)

① When the maximum torque is 400 %

Servo amplifier	Rotary motor	Linear motor (primary side)	Direct drive motor
MR-J4-700A(-RJ) MR-J4-700B(-RJ) MR-J4-700GF(-RJ) MR-J4-700TM	HG-SR702, HG-JR601, HG-JR-701M, HG-JR703, HG-JR503 ①	LM-FP2F-18M-1SS0, LM-FP4D-24M-1SS0	—
MR-J4-11KA(-RJ) MR-J4-11KB(-RJ) MR-J4-11KGF(-RJ) MR-J4-11KTM	HG-JR801, HG-JR903, HG-JR11K1M, HG-JR12K1	LM-FP4F-36M-1SS0	—
MR-J4-15KA(-RJ) MR-J4-15KB(-RJ) MR-J4-15KGF(-RJ) MR-J4-15KTM	HG-JR15K1, HG-JR15K1M	LM-FP4H-48M-1SS0	—
MR-J4-22KA(-RJ) MR-J4-22KB(-RJ) MR-J4-22KGF(-RJ) MR-J4-22KTM	HG-JR20K1, HG-JR22K1M, HG-JR25K1	—	—
MR-J4W2-22B MR-J4W3-222B	HG-KR053, HG-KR13, HG-KR23, HG-MR053, HG-MR13, HG-MR23	LM-U2PAB-05M-0SS0, LM-U2PBB-07M-1SS0	TM-RFM002C20
MR-J4W2-44B MR-J4W3-444B	HG-KR053, HG-KR13, HG-KR23, HG-KR43, HG-MR053, HG-MR13, HG-MR23, HG-MR43	LM-H3P2A-07P-BSS0, LM-H3P3A-12P-CSS0, LM-K2P1A-01M-2SS1, LM-U2PAB-05M-0SS0, LM-U2PAD-10M-0SS0, LM-U2PAF-15M-0SS0, LM-U2PBB-07M-1SS0	TM-RFM002C20, TM-RFM004C20
MR-J4W2-77B	HG-KR43, HG-KR73, HG-MR43, HG-MR73, HG-SR51, HG-SR52, HG-UR72, HG-JR53, HG-JR73	LM-H3P2A-07P-BSS0, LM-H3P3A-12P-CSS0, LM-H3P3B-24P-CSS0, LM-H3P3C-36P-CSS0, LM-H3P7A-24P-ASS0, LM-K2P1A-01M-2SS1, LM-K2P2A-02M-1SS1, LM-U2PAD-10M-0SS0, LM-U2PAF-15M-0SS0, LM-U2PBD-15M-1SS0, LM-U2PBF-22M-1SS0	TM-RFM004C20, TM-RFM006C20, TM-RFM006E20, TM-RFM012E20, TM-RFM012G20, TM-RFM040J10
MR-J4W2-1010B	HG-KR43, HG-KR73, HG-MR43, HG-MR73, HG-SR51, HG-SR52, HG-SR81, HG-SR102, HG-UR72, HG-JR73, HG-JR103, HG-JR53 ①	LM-H3P2A-07P-BSS0, LM-H3P3A-12P-CSS0, LM-H3P3B-24P-CSS0, LM-H3P3C-36P-CSS0, LM-H3P7A-24P-ASS0, LM-K2P1A-01M-2SS1, LM-K2P2A-02M-1SS1, LM-U2PAD-10M-0SS0, LM-U2PAF-15M-0SS0, LM-U2PBD-15M-1SS0, LM-U2PBF-22M-1SS0	TM-RFM004C20, TM-RFM006C20, TM-RFM006E20, TM-RFM012E20, TM-RFM018E20, TM-RFM012G20, TM-RFM040J10

Tab. 2-1: Servo amplifier and motor combination for 200 V class (2)

① When the maximum torque is 400 %

2.7.2 400 V class

Servo amplifier	Rotary motor	Linear motor (primary side)	Direct drive motor
MR-J4-60A4(-RJ) MR-J4-60B4(-RJ) MR-J4-60GF4(-RJ) MR-J4-60TM4	HG-SR524, HG-JR534	—	—
MR-J4-100A4(-RJ) MR-J4-100B4(-RJ) MR-J4-100GF4(-RJ) MR-J4-100TM4	HG-SR1024, HG-JR734, HG-JR1034, HG-JR534 ^①	—	—
MR-J4-200A4(-RJ) MR-J4-200B4(-RJ) MR-J4-200GF4(-RJ) MR-J4-200TM4	HG-SR1524, HG-SR2024, HG-JR1534, HG-JR2034, HG-JR734 ^① , HG-JR1034 ^①	—	—
MR-J4-350A4(-RJ) MR-J4-350B4(-RJ) MR-J4-350GF4(-RJ) MR-J4-350TM4	HG-SR3524, HG-JR3534, HG-JR-1534 ^① , HG-JR-2034 ^①	—	—
MR-J4-500A4(-RJ) MR-J4-500B4(-RJ) MR-J4-500GF4(-RJ) MR-J4-500TM4	HG-SR5024, HG-JR5034, HG-JR3534 ^①	—	—
MR-J4-700A4(-RJ) MR-J4-700B4(-RJ) MR-J4-700GF4(-RJ) MR-J4-700TM4	HG-SR7024, HG-JR6014, HG-JR701M4, HG-JR7034, HG-JR5034 ^①	—	—
MR-J4-11KA4(-RJ) MR-J4-11KB4(-RJ) MR-J4-11KGF4(-RJ) MR-J4-11KTM4	HG-JR8014, HG-JR12K14, HG-JR9034, HG-JR11K1M4	—	—
MR-J4-15KA4(-RJ) MR-J4-15KB4(-RJ) MR-J4-15KGF4(-RJ) MR-J4-15KTM4	HK-JR15K14, HG-JR15K1M4	—	—
MR-J4-22KA4(-RJ) MR-J4-22KB4(-RJ) MR-J4-22KGF4(-RJ) MR-J4-22KTM4	HG-JR20K14, HG-JR25K14, HG-JR22K1M4	LM-FP5H-60M-1SS0	—

Tab. 2-2: Servo amplifier and motor combination for 400 V class

^① When the maximum torque is 400 %