

Addition of Combinations of HG Series Servo Motors and MR-J5 Series AC Servo Amplifiers

Thank you for your continued patronage of the Mitsubishi Electric AC servo system.

The MR-J5 series AC servo amplifiers will support the HG series servo motors.

New functions of the MR-J5 can be used without replacing the existing servo motors used with the MR-J4, improving the performance and functions of the system.

1. Target Model

MR-J5 series 1-axis servo amplifiers MR-J5-G/MR-J5-G-N1/MR-J5-A/MR-J5-B (200 V)

2. Servo amplifier/servo motor combinations

The HG series servo motors supported by the MR-J5 series 1-axis servo amplifiers (200 V) are shown in Table 1.

Table 1. Servo amplifier/servo motor combinations *1

Servo motor *2		MR-J5_ 1-axis servo amplifier (200 V)									
		10G 10A 10B	20G 20A 20B	40G 40A 40B	60G 60A 60B	70G 70A 70B	100G 100A 100B	200G 200A 200B	350G 350A 350B	500G 500A 500B	700G 700A 700B
HG-KR	HG-KR053	○	-	-	-	-	-	-	-	-	-
	HG-KR13	○	-	-	-	-	-	-	-	-	-
	HG-KR23	-	○	-	-	-	-	-	-	-	-
	HG-KR43	-	-	○	-	-	-	-	-	-	-
	HG-KR73	-	-	-	-	○	-	-	-	-	-
HG-MR	HG-MR053	○	-	-	-	-	-	-	-	-	-
	HG-MR13	○	-	-	-	-	-	-	-	-	-
	HG-MR23	-	○	-	-	-	-	-	-	-	-
	HG-MR43	-	-	○	-	-	-	-	-	-	-
	HG-MR73	-	-	-	-	○	-	-	-	-	-
HG-SR	HG-SR52	-	-	-	○	-	-	-	-	-	-
	HG-SR102	-	-	-	-	-	○	-	-	-	-
	HG-SR152	-	-	-	-	-	-	○	-	-	-
	HG-SR202	-	-	-	-	-	-	○	-	-	-
	HG-SR352	-	-	-	-	-	-	-	○	-	-
	HG-SR502	-	-	-	-	-	-	-	-	○	-
	HG-SR702	-	-	-	-	-	-	-	-	-	○

*1. Torque characteristics of combinations with MR-J5 servo amplifiers are the same as those of combinations with MR-J4 servo amplifiers. Note that the torque cannot be increased with the combinations in Table 1.

*2. Servo motors with an electromagnetic brake, oil seal, keyed shaft, and D-cut shaft and geared servo motors are also supported.

3. Usage

To use the MR-J5 servo amplifiers with the HG series servo motors, servo amplifier parameter settings are necessary. For details, contact your local sales office.

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4. Supported Servo Amplifier Version

- (1) MR-J5-G, MR-J5-G-N1, MR-J5-A

The combinations can be used on servo amplifiers with firmware version C0 or later. This change will be made sequentially from the June 2021 production.

- (2) MR-J5-B

The combinations are supported from the initial firmware version.

Revisions

Version	Date of issue	Revision
A	May 2022	MR-J5-B has been added along with the release.