

AC Servo Sales and Service

MR-JN Series General-Purpose AC Servo Amplifiers Newly Supporting HG-KR Series Geared Servo Motors

Thank you for your continued patronage of the Mitsubishi Electric general-purpose AC servo. The MR-JN series general-purpose AC servo amplifiers will newly support the HG-KR series geared servo motors because of discontinuation of the HF-KP series geared servo motors.

1. Target Model

Servo amplifier	Servo motor	
	HF-KP_G1/G5/G7	HG-KR_G1/G5/G7
MR-JN-10A(1)	053, 13	053, 13
MR-JN-20A(1)	23	23
MR-JN-40A	43	43

- Note
- The HF-KP series geared servo motors will be discontinued on the last day of May 2019.
 - Please replace the HF-KP series geared servo motors with the successor models, HG-KR series geared servo motors.
 - For the compatibility and dimensions of the servo motors, refer to Sales and Service No. 17-06AE.
MITSUBISHI ELECTRIC FA Global Website (<http://www.mitsubishielectric.com/fa/>) → "Download" → "Technical Bulletin" → "AC Servos-MELSERVO" → "SALES AND SERVICE" → "Production Discontinuation of General-Purpose AC Servo MR-J3/MR-J3W Series".

2. Specification Comparison between HF-KP and HG-KR Geared Servo Motors

The following table shows the specification differences between the HF-KP geared servo motors and the HG-KR geared servo motors when in combination with the MR-JN servo amplifiers. For the items not listed in the table, refer to the catalog and Instruction Manual.

No.	Item	HF-KP geared servo motor	HG-KR geared servo motor
1	Rated speed/maximum speed	No difference	
2	Torque characteristics	No difference	
3	Reduction ratio	The electronic gear must be set because the actual reduction ratios of some models are different. (Note)	
4	Moment of inertia	Adjustment of the servo gains may be necessary because some models have different moment of inertia. (Note)	
5	Number of encoder pulses	No difference	
6	Dimensions	The total length is shorter than that of the former model for some models. Max. 3.4 mm difference (Note)	
7	Cables	The same cables are usable.	
8	Dynamic brake	Built-in	Built-in (Supporting the electronic type) Coasting distance may differ. (Note)
9	Servo setup software	MR Configurator, MR Configurator2	MR Configurator2

Note For details, refer to Sales and Service No. 17-06AE.

3. Supported Software Version and Schedule

- MR-JN-A series servo amplifiers
The servo amplifiers with the software version B2 or later can support the HG-KR series geared servo motors. The software version will be updated sequentially from the May 2019 production.
- HG-KR geared servo motors
The servo motors can be used regardless of their manufacturing dates.

* This change will be made sequentially to the catalog, instruction manuals and MR Configurator2 from March 2019 or later.

Date of issue	February 2019	Title	MR-JN Series General-Purpose AC Servo Amplifiers Newly Supporting HG-KR Series Geared Servo Motors	Mitsubishi Electric Corp., Nagoya Works 1-14, Yada-minami 5-chome, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line
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