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FACTORY AUTOMATION

SERVO AMPLIFIERS & MOTORS

Information for MELSERVO-J3 Renewal

Easy Replacement from MELSERVO-J3 to MELSERVO-J4

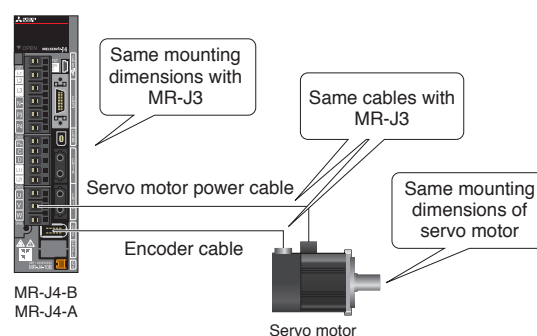
Compatible mounting

MR-J4-B/MR-J4-A has the same mounting dimensions*¹ with MR-J3-B/MR-J3-A. HG rotary servo motor series has the same mounting dimensions*² and uses the same optional cables for the power, the encoder*³, and the electromagnetic brake as HF series or HC-HP/HC-UP series.

*¹. Mounting dimensions are smaller for servo amplifiers rated 200 V 5 kW, 400 V 3.5 kW, 200 V/400 V 11 kW, and 200 V/400 V 15 kW.

*². For replacing HA-LP series to HG-JR series, contact your local sales office for more detail.

*³. HG-JR series of 11 kW to 55 kW uses a different encoder cable from HF-JP series.



When not changing the controller to SSCNET III/H controller

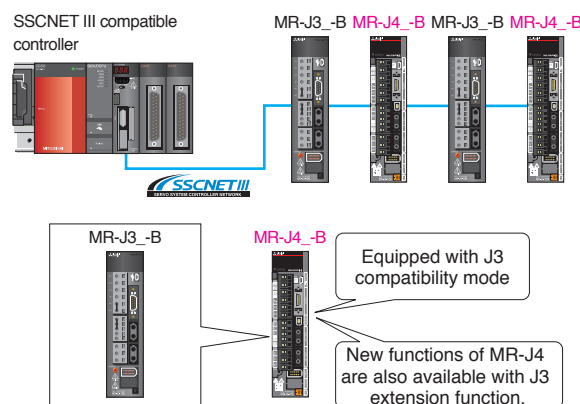
MR-J4-B/MR-J4W2-B/MR-J4W3-B servo amplifier has J3 compatibility mode. By operating in J3 compatibility mode, MR-J4 series servo amplifier and MR-J3 series servo amplifier can be used together in a same system without changing the existing controller.

* When the SSCNET III compatible products are in the system, the communication speed is 50 Mbps, and the function and the performance are equivalent to those of MR-J3.

* Some functions may not be available in the J3 compatibility mode. Refer to relevant Servo Amplifier Instruction Manual for details.

The following new functions of MR-J4 series are available with J3 extension function of J3 compatibility mode.

- One-touch tuning function
- Robust filter
- SEMI-F47 function
- Drive recorder function
- Power monitoring function
- Advanced vibration suppression control II
- Machine resonance filter (5 filters)
- Tough drive function
- Machine diagnosis function



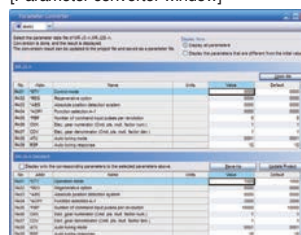
Parameter conversion

Parameters are automatically converted by changing MR-J3-B to MR-J4-B with MELSOFT MT Works2*¹.

Parameters of MR-J3-A are converted to those of MR-J4-A, using the parameter converter function of MELSOFT MR Configurator2*¹.

*¹. Be sure to update your MT Works2 and MR Configurator2 to the latest version.

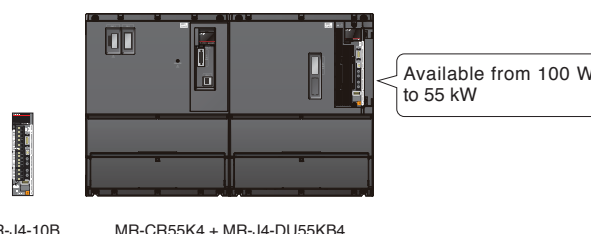
[Parameter converter window]



Wide variety of product lines

MELSERVO-J3 series is replaceable with MELSERVO-J4 series with a wide variety of power supplies and capacities.

MR-J4-B/MR-J4-A is available from 100 W to 55 kW, and the main circuit power supply is selectable from 3-phase 200 V AC, 3-phase 400 V AC and 1-phase 100 V AC.



MR-J4-10B

MR-CR55K4 + MR-J4-DU55KB4

Materials Related to Replacement



MELSERVO-J4 Catalog
L(NA)03056

MELSERVO-J4 Series catalog introducing servo amplifiers, servomotors, and options, etc.



Transition from
MELSERVO-J3 Series to J4 Series Handbook
L(NA)03127ENG

This handbook is necessary for renewing a system using MR-J3 with MR-J4. Always read this handbook when considering or implementing renewals.

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