

## Options

### Optional Regeneration Resistors

Servo Amplifier	Built-in Regenerative Resistor (*1)	Tolerable Regenerative Power (W)				
		Optional Regeneration Unit (*2)				
		MR-RB032 (40Ω)	MR-RB12 (40Ω)	MR-RB30 (13Ω)	MR-RB32 (40Ω)	MR-RB50 (13Ω)(*1)
Stocked Item	-	S	S	S	S	S
MR-JE-10A	-	30	-	-	-	-
MR-JE-20A	-	30	100	-	-	-
MR-JE-40A	10	30	100	-	-	-
MR-JE-70A	20	30	100	-	300	-
MR-JE-100A	20	30	100	-	300	-
MR-JE-200A	100	-	-	300	-	500
MR-JE-300A	100	-	-	300	-	500

**Notes:**

1. Be sure to cool the unit forcibly with a cooling fan (92 mm × 92 mm, minimum air flow: 1.0 m<sup>3</sup>/min). The cooling fan must be prepared by user.
2. The power values in this table are resistor-generated powers, not rated powers.

### Junction Terminal Block

Model Number	Stocked Item	Description
MR-TB50	S	Connect all signals via the junction terminal block

### Radio Noise Filter

Model Number	Stocked Item	Description
FR-BIF	S	This filter suppresses noise from the power supply side of the servo amplifier, especially effective for the radio frequency bands of 10 MHz or lower. The FR-BIF is designed to be installed on the input side.

### Line Noise Filter

Model Number	Stocked Item	Description
FR-BSF01	S	This filter suppresses radio noise from the power supply side and the output side of the servo amplifier. The FR-BSF01 is also effective in suppressing high-frequency leakage current (zero-phase current), especially the range of 0.5 MHz and 5 MHz.

### EMC Filter

Amplifier Model Number	EMC Filter Model (*2)	Rated Current [A]	Rated Voltage [VAC]	Stocked Item
MR-JE-10A to 100A	MF3F480-010.233MF (*1)	10	250	S
MR-JE-200A, 300A	MF3F480-015.230MF3 (*1)	30	250	S

**Notes:**

1. Manufactured by Soshin Electric Co., Ltd. A surge protector is separately required to use this EMC filter. Refer to MR-JE Manual.
2. When using the EMC filter, install one EMC filter for each servo amplifier.

### Power Factor Improving AC Reactor

This boosts the power factor of servo amplifier and reduces the power supply capacity.

Amplifier Model Number	Stocked Item	Power Factor Improving AC Reactor Model (*1)
MR-JE-10A	-	FR-HAL-0.4K
MR-JE-20A	-	FR-HAL-0.75K
MR-JE-40A	-	FR-HAL-1.5K
MR-JE-70A	-	FR-HAL-2.2K
MR-JE-100A	-	FR-HAL-3.7K
MR-JE-200A	-	FR-HAL-5.5K
MR-JE-300A	-	FR-HAL-5.5K

Note 1: When using the power factor improving AC reactor, install one reactor for each servo amplifier.