

General-Purpose AC Servo

## MELSERI/O

REGENERATIVE OPTIONS MODEL

MR-RB

Installation Guide

Country/Region

IB(NA)67342ENG-L(1611)MEE

WARNING

CAUTION

After reading this guide, keep it accessible to the operator 1. To prevent electric shock, note the following

amplifier, whether the charge lamp is off or not.

Otherwise, it may cause an electric shock. 2. To prevent fire, note the following

cause an electric shock.

combustibles will lead to a fire.

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 Safety Instructions Please read the instructions carefully before using the equipment. To use the equipment correctly, do not attempt to install, operate, maintain, or inspect the equipment until you have read through this Installation Guide and appended documents carefully. Do not use the equipment until you have a full knowledge of the equipment, safety information and instructions. In this guide, the safety instruction levels are classified into "WARNING" and "CAUTION".

resulting in death or severe injury

physical damage.

<u>/!\</u>

Note that the CAUTION level may lead to a serious consequence according to conditions. Please follow the instructions of both levels because they are important to personnel safety.

WARNING Before wiring or inspection, turn off the power and check if the charge lamp of the servo amplifier is turned off. Otherwise, an electric shock may occur. In addition, always confirm in front of the servo

CAUTION

Do not attempt to wire the regenerative options until they have been installed. Otherwise, it may

Any person who is involved in wiring and inspection should be fully competent to do the work The wires used for regenerative options should not be damaged, stressed loaded, or pinched.

Install the regenerative options on incombustible material. Installing them directly or close to

When a regenerative option is used, use an alarm signal to switch main power off. Otherwise, a regenerative transistor fault or the like may overheat the regenerative option, causing a fire Provide adequate protection to prevent screws and other conductive matter, oil and other

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This guide uses recycled paper. Specifications are subject to change without notice.

Indicates that incorrect handling may cause hazardous conditions,

Indicates that incorrect handling may cause hazardous conditions,

resulting in medium or slight injury to personnel or may cause

not specified with cannot be used.

The power values in the table are resistor-generated powers and not rated powers. For discontinued models, refer to each instruction manual of servo amplifier you use.

	Resistance	Degenerative newer	Mass
Model	Resistance [Ω]	Regenerative power	lwass [kg]
MR-RB032	40	30	0.5
MR-RB12	40	100	1.1
MR-RB14	26	100	1.1
MR-RB1H-4	82	100	1.1
MR-RB1L-4	270	100	1.1
MR-RB30	13	300	2.9
MR-RB30 MR-RB3N	9	300	2.9
MR-RB3N	6.7	300	2.9
MR-RB32	40	300	2.9
MR-RB34	26	300	2.9
MR-RB34-4 (Note 1)	26	300	2.9
MR-RB3B	20 47	300	2.9 2.9
MR-RB3G-4 (Note 1)		300	
MR-RB3H-4 (Note 1)	80	300	2.9
MR-RB3M-4 (Note 1)	120	300	2.9
MR-RB3U-4 (Note 1)	22	300	2.9
MR-RB50 (Note 1)	13	500	5.6
MR-RB5N (Note 1)	9	500	5.6
MR-RB51 (Note 1)	6.7	500	5.6
MR-RB54	26	500	5.6
MR-RB54-4 (Note 1)	26	500	5.6
MR-RB5G-4 (Note 1)	47	500	5.6
MR-RB5H-4 (Note 1)	80	500	5.6
MR-RB5U-4 (Note 1)	22	500	5.6
MR-RB5E	6	500 (800) (Note 2)	10
MR-RB5K-4	10	500 (800) (Note 2)	10
MR-RB5R	3.2	500 (800) (Note 2)	11
MR-RB65	8	500 (800) (Note 2)	10
MR-RB6B-4	20	500 (800) (Note 2)	10
MR-RB60-4	12.5	850 (1300) (Note 2)	11
MR-RB6K-4	10	850 (1300) (Note 2)	11
MR-RB9F	3	850 (1300) (Note 2)	11
MR-RB9P	4.5	850 (1300) (Note 2)	11
MR-RB9T	2.5	850 (1300) (Note 2)	11
MR-RB136-4	5	1300	10
MR-RB139	1.3	1300	10
MR-RB137-4	4	1300	10
MR-RB137	1.3 (Note 3)	3900	11
MR-RB138-4	5 (Note 4)	3900	11

### 1. Always install a cooling fan.

- 2. Values in parentheses assume the installation of a cooling fan.
- Use three regenerative options with connecting them in parallel. This value is the resultant resistance when three regenerative options are connected in parallel.
- 4. Use three regenerative options with connecting them in parallel. This value is the resultant resistance when three regenerative options are connected in parallel.

### (1) 电器电子产品有害物质限制使用标识



根据《电器电子产品有害物质限制使用管理办法》,该标记适用于在中国销售的电器电子产品,其中的数字为产品的环保使用期限。只要遵守本产品在安全和使用方面的注意事项,从生产日算起的环保使用期限内不会造成环境污染或对人体、财产产生深刻的影响。

### Note. This symbol mark is for China only

(2) 含有有害6物质的名称,含有量,含有部品 本产品中所含有的有害6物质的名称,含有量,含有部品如下表所示。

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,	严而中有苦物质的名称及含重									
ſ			有害物質							
部件名称		铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	环保使用期限标志	备注	
L			(Pb)	(Hg)	(Cd)	(Cr(VI))	PBB	PBDE		
再生选件	面升进件	电阻	×	0	0	0	0	0		
		金属板、螺丝	0	0	0	0	0	0		

### 本表格依据SJ/T11364的规定编制。

〇:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。 ×:表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T26572规定的限量要求。

#### Any person who is involved in disassembly and repair should be fully competent to do the work. Do not modify the regenerative option.

(2) Wiring

(3) Usage

### Use the regenerative option by the specified combination. DISPOSAL OF WASTE

Disposal of waste regenerative options is based on the servo amplifiers that are used with

# ∴ CAUTION

 Use regenerative options that are given in each instruction manual of the servo amplifier that are used with. Regenerative options that are

**CAUTION** When the cable is not tightened enough to the terminal block (connector), the cable or terminal

**CAUTION** 

block (connector) may generate heat because of the poor contact. Be sure to tighten the cable with

Refer to each servo amplifier instruction manual for the usage and the connection method of regenerative options. In addition, set parameters according to the regenerative options that are used

The following table list displays the specifications of the regenerative options.

1	Resistance	Dogonorative newer	Mass
Model	Resistance [Ω]	Regenerative power [W]	[kg]
MR-RB032	40	30	0.5
MR-RB12	40	100	1.1
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	82		1.1
MR-RB1H-4		100	1.1
MR-RB1L-4	270	100	
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MR-RB31	6.7	300	2.9
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MR-RB137-4	4	1300	10
MR-RB137	1.3 (Note 3)	3900	11
MR-RB138-4	5 (Note 4)	3900	11
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Connect the terminals correctly to prevent a burst, damage, etc

combustible matter from entering the regenerative option. 3. To prevent injury, note the following

• Take safety measures, e.g. provide covers, to prevent accidental contact of hands and parts (cables, etc.) with the regenerative options since they may be hot while power is on or for some time after power-off. Their temperatures may be high and you may get burnt or a parts may damaged.

CAUTION

### Additional instructions

The following instructions should also be fully noted. Incorrect handling may cause a fault, injury, electric shock, etc.

### (1) Transportation and installation

### CAUTION

- Transport the products correctly according to their mass
- Stacking in excess of the specified number of products is not allowed.
- Install the regenerative option in a load-bearing place in accordance with the using servo amplifier instruction manual.
- Do not get on or put heavy load on the equipment. Otherwise, it may cause injury The regenerative option must be installed in the specified direction.
- Do not drop or strike regenerative option. Isolate from all impact loads.
- When storing or using the regenerative option, comply with the environmental conditions given in the using servo amplifier instruction manual.

  When the regenerative option has been stored for an extended period of time, contact your local
- When treating the regenerative option be careful about the edged parts such as the corners of the

### [Warranty]