

MITSUBISHI ELECTRIC Inverter

Sales and Service

No. 851E

Firmware Update for the FR-A800-SYN and FR-F800-SYN Series Inverters

Thank you for your continued patronage of Mitsubishi Electric drive control products. The firmware of the FR-A800-SYN and FR-F800-SYN series inverters will be updated to improve the functionality.

1. Products Affected

FR-A800-SYN series
FR-F800-SYN series

2. Details of Change

Mitsubishi Electric synchronous reluctance motor RF-SR15 (1500 r/min or 1800 r/min specification) will be supported. The following motors will be added to the applicable motors. Combinations not shown in the tables are also possible depending on the application and load conditions.

FR-A800-SYN series

Use an inverter with the LD rating when driving a motor in any of the following combinations.

Voltage class	Motor	Inverter model
200 V	RF-SR3K15 (3.7 kW)	FR-A820-00250(3.7K)-SYN
	RF-SR5K15 (5.5 kW)	FR-A820-00340(5.5K)-SYN
	RF-SR7K15 (7.5 kW)	FR-A820-00490(7.5K)-SYN
400 V	RF-SR3K15H (3.7 kW)	FR-A840-00126(3.7K)-SYN
	RF-SR5K15H (5.5 kW)	FR-A840-00170(5.5K)-SYN
	RF-SR7K15H (7.5 kW)	FR-A840-00250(7.5K)-SYN

FR-F800-SYN series

Use an inverter with the LD rating when driving a motor in any of the following combinations.

Voltage class	Motor	Inverter model
200 V	RF-SR3K15 (3.7 kW)	FR-F820-00250(5.5K)-SYN
	RF-SR5K15 (5.5 kW)	FR-F820-00340(7.5K)-SYN
	RF-SR7K15 (7.5 kW)	FR-F820-00490(11K)-SYN
400 V	RF-SR3K15H (3.7 kW)	FR-F840-00126(5.5K)-SYN
	RF-SR5K15H (5.5 kW)	FR-F840-00170(7.5K)-SYN
	RF-SR7K15H (7.5 kW)	FR-F840-00250(11K)-SYN

Date of issue	March 2026	Title	Firmware Update for the FR-A800-SYN and FR-F800-SYN Series Inverters	Mitsubishi Electric Corp., Nagoya Works 5-1-14 Yada-minami, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line
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(1) Addition of the setting value for Pr.71 (Applied motor) and Pr.450 (Second applied motor)

The setting value for the Mitsubishi Electric synchronous reluctance motor RF-SR15 will be added.

Pr. (Pr. group)	Name	Initial value	Setting value	Description
71 (C100)	Applied motor	0	4210	When the Mitsubishi Electric synchronous reluctance motor RF-SR15 is selected
450 (C200)	Second applied motor	9999		

(2) Addition of the setting values for Pr.998 (PM/SynRM parameter initialization)

The setting values for the Mitsubishi Electric synchronous reluctance motor RF-SR15 will be added.

Pr. (Pr. group)	Name	Initial value	Setting value	Description
998 (E430)	PM/SynRM parameter initialization	0	4022	Parameter setting (in rotations per minute) for Mitsubishi Electric synchronous reluctance motor RF-SR15
			4122	Parameter setting (in frequencies) for Mitsubishi Electric synchronous reluctance motor RF-SR15

3. Date of Change

The change will be applied to the products manufactured in April 2026 or later.

4. Product Identification

The SERIAL (determined by date of production) can be checked on the rating plate or packaging plate.

SERIAL example on rating plate	SERIAL example on packaging plate
□ 6 4 ○○○○○○	□ 6 4 ○○○
Symbol Year Month Control number	Symbol Year Month Control number
SERIAL	SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and the control number (six characters for the rating plate, three characters for the packaging plate).

The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).