

Firmware Upgrade for FR-A800 and FR-A800 Plus Series Inverters

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

1. Products Affected

FR-A800 series (except for FR-A800-P)
FR-A800 Plus series (except for FR-A800-R2R/AWH)

2. Details of the Change

Addition of the forward/reverse rotation limit function during speed control

- 1) The Speed control forward rotation stroke end (X134) and the Speed control reverse rotation stroke end (X135) functions can be assigned by setting "134 and 135" in Pr.178 to Pr.189.

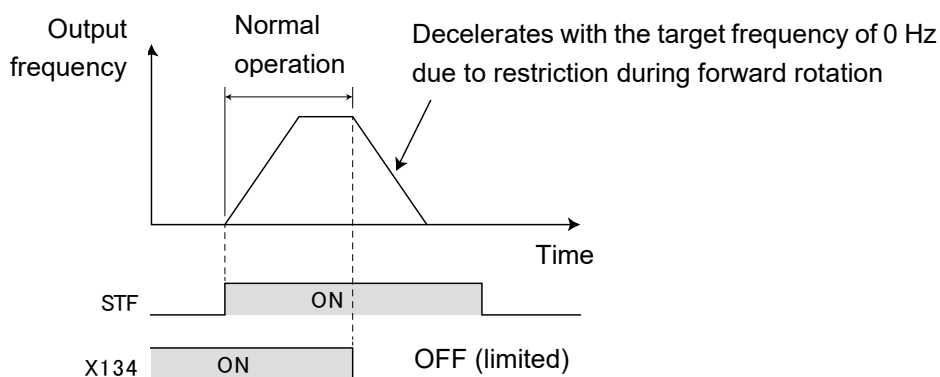
| Signal state | | Operation | |
|-----------------------|-----------------------|------------------|------------------|
| X134 | X135 | Forward rotation | Reverse rotation |
| ON (normal operation) | ON (normal operation) | Available | Available |
| OFF (limited) | ON (normal operation) | Not available | Available |
| ON (normal operation) | OFF (limited) | Available | Not available |
| OFF (limited) | OFF (limited) | Not available | Not available |

- 2) The setting values will be added for the following parameters.

| Pr. | Name | Description |
|-----|----------------------------------|--|
| 178 | STF terminal function selection | Setting values "134 and 135" added 134: Speed control forward stroke end (X134) 135: Speed control reverse stroke end (X135) |
| 179 | STR terminal function selection | |
| 180 | RL terminal function selection | |
| 181 | RM terminal function selection | |
| 182 | RH terminal function selection | |
| 183 | RT terminal function selection | |
| 184 | AU terminal function selection | |
| 185 | JOG terminal function selection | |
| 186 | CS terminal function selection | |
| 187 | MRS terminal function selection | |
| 188 | STOP terminal function selection | |
| 189 | RES terminal function selection | |

| | | | | |
|----------------------|---------------|--------------|---|---|
| Date of issue | November 2024 | Title | Firmware Upgrade for FR-A800 and FR-A800 Plus Series Inverters | Mitsubishi Electric Corp., Nagoya Works 5-1-14 Yada-minami, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line |
|----------------------|---------------|--------------|---|---|

- 3) The following shows the basic operation of the speed control forward rotation limit function using the X134 signal.



- 4) In the External operation mode and NET operation mode, the command source is set as shown in the following table.

| Pr.178 to Pr.189 setting | Pr.338 Communication operation command source | | 0: NET | | | 1: EXT | | |
|--------------------------|---|----------------------------------|----------------|--------|--------|----------------|--------|--------|
| | Pr.339 Communication speed command source | | 0: NET | 1: EXT | 2: EXT | 0: NET | 1: EXT | 2: EXT |
| 134 | X134 | Speed control forward stroke end | External (EXT) | | | External (EXT) | | |
| 135 | X135 | Speed control reverse stroke end | External (EXT) | | | External (EXT) | | |

3. Date of Change

| Country of origin | Date of change |
|-------------------|---|
| MADE IN JAPAN | The change will be sequentially applied to the December 2024 production or later. |
| MADE IN CHINA | The change will be sequentially applied to the January 2025 production 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
 □ 4 Z ○○○○○○
 Symbol Year Month Control number

SERIAL

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

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).

5. Firmware version

The inverter firmware version to which the change described will be applied is as follows:

| Series | Firmware version |
|-------------------------|------------------|
| FR-A800 FR-A800 Plus | 41 or later |

For how to install the downloaded firmware, refer to the FR Configurator2 (SW1DND-FRC2-E) Instruction Manual (IB-0600516ENG).