

# MITSUBISHI ELECTRIC Inverter

## Sales and Service

No. 667EA

### General-Purpose Inverters Compliant with the Ecodesign Directive (ErP Directive)

Thank you for your continued patronage of Mitsubishi Electric drive control products.

In line with the revision of the EU regulation related to the Ecodesign Directive (ErP Directive)\*1, the new efficiency regulation will be applied to the inverters sold in European markets from July 1, 2021. We declare that Mitsubishi Electric general-purpose inverters conform with the Ecodesign Directive. Due to this, "IE2" (International Energy Efficiency Class 2) indication and efficiency data (power loss rate for operation at 90% of the rated speed and at the rated torque)\*2 will be added to the rating plates of the inverters manufactured in April 2021 or later.

\*1 Commission Regulation (EU) 2019/1781 issued on October 25, 2019.

\*2 The data is calculated based on IEC/EN 61800-9-2.

(Loss rate: Ratio of the power loss to the rated apparent power)

The change does not affect the quality, performance, or specifications of the products.

#### 1. Products Affected

Series	Model	Non-applicable model*
FR-A800 (Note 1)	FR-A820-00046(0.4K)(-**) to 04750(90K)(-**) FR-A840-00023(0.4K)(-**) to 06830(280K)(-**) FR-A846-00023(0.4K)(-**) to 03610(132K)(-**) FR-A870-02300(-**) to 02860(-**) FR-A840M-03630(160K)(-**), 04540(200K)(-**)	Separated converter type
FR-A800 Plus (Note 1)	FR-A820-00046(0.4K)(-**-CRN to 04750(90K)(-**-CRN FR-A840-00023(0.4K)(-**-CRN to 06830(280K)(-**-CRN FR-A820-00046(0.4K)(-**-R2R to 04750(90K)(-**-R2R FR-A840-00023(0.4K)(-**-R2R to 06830(280K)(-**-R2R FR-A840-03250(110K)(-**-LC to 06830(280K)(-**-LC FR-A870-03590(280K)(-**-LC to 04560(355K)(-**-LC FR-A820-00046(0.4K)(-**-AWH to 04750(90K)(-**-AWH FR-A840-00023(0.4K)(-**-AWH to 02600(90K)(-**-AWH FR-A840-00126(3.7K)(-**-ELV to 00770(30K)(-**-ELV	Separated converter type
FR-F800 (Note 1)	FR-F820-00046(0.75K)(-**) to 04750(110K)(-**) FR-F840-00023(0.75K)(-**) to 06830(315K)(-**) FR-F846-00023(0.75K)(-**) to 03610(160K)(-**)	Separated converter type
FR-E800 (Note 2)	FR-E820-0015(0.2K)(-**) to 0900(22K)(-**) FR-E840-0016(0.4K)(-**) to 0440(22K)(-**) FR-E860-0017(0.75K)(-**) to 0120(7.5K)(-**)	FR-E820-0.1K, E820S
FR-CS80	FR-CS84-012(0.4K)-60 to 295(15K)-60	FR-CS82S
FR-E700 (Note 3)	FR-E720-0.2K(-**) to 15K(-**), FR-E720-015(-**) to 600(-**) FR-E740-0.4K(-**) to 15K(-**), FR-E740-016(-**) to 300(-**)	FR-E720-0.1K, E720S, E710W
FR-D700 (Note 3)	FR-D720-0.2K(-**) to 15K(-**), FR-D720-014(-**) to 318(-**) FR-D740-0.4K(-**) to 15K(-**), FR-D740-012(-**) to 160(-**)	FR-D720-0.1K, D720S, D710W
FR-F700PJ (Note 4)	FR-F720PJ-0.4K(F)(-**) to 15K(F)(-**) FR-F740PJ-0.4K(F)(-**) to 15K(F)(-**)	
FR-EJ700 (Note 5)	FR-EJ740-0.4K(-**) to 7.5K(-**)	

Note 1: \*\* indicates alpha numeric combination which means an inverter type such as E1 and E2.

Note 2: \*\* indicates alpha numeric combination which means an inverter type such as EPA and EPB.

Note 3: \*\* indicates alpha numeric combination which means an inverter type such as EC and NA.

Note 4: \*\* indicates alpha numeric combination which means an inverter type such as 60.

Note 5: \*\* indicates alpha numeric combination which means an inverter type such as CHT.

Date of issue	March 2021	Title	General-Purpose Inverters Compliant with the Ecodesign Directive (ErP Directive)	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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\* Non-applicable model:



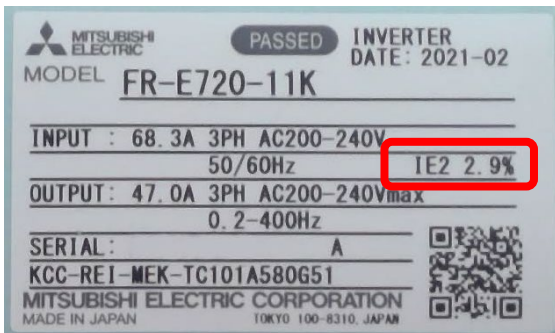
The Ecodesign Directive and the commission regulation (EU) 2019/1781 are applied to three-phase inverters (output rating: 0.12 to 1000 kW) for three-phase induction motors (except for inverters with a power regeneration function).

Therefore, the change described will not be applied to 0.1K inverters, single-phase inverters, separated converter type inverters, and options including converters.

## 2. Details of Change

The IE2 class and efficiency data will be indicated on the rating plates of the applicable inverters. The indication position differs by the inverter series.

(Example)

After	
FR-A800 series	
* For the FR-A840M, the position of "IP20" will be changed due to indication of the IE2 class and efficiency data.	
FR-E700/D700 series 3.7K or lower (laser printed)	
FR-E700/D700 series 5.5K or higher (label type)	

**3. Date of Change**

The change will be sequentially applied to products manufactured in April 2021 or later.  
(The schedule may vary depending on the production condition.)

**4. Product Identification**

The products can be identified visually.