

Mitsubishi Electric AC Servo System

Sales and Service

No.25-24E

AC Servo Motor Compliance with Rules for China Energy Label (2025 Edition)

Thank you for your continued patronage of the Mitsubishi Electric AC servo system.
AC servo motors will comply with rules for China Energy Label. We ask for your understanding in this matter.

1. Outline

The Chinese national standard titled "Minimum allowable values of energy efficiency and energy efficiency grades for permanent magnet synchronous motors (GB 30253-2024)" was issued on September 29, 2024. In preparation for the enforcement of this standard on October 1, 2025, the Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors (CEL 038-2020) are expected to be revised. As a result, it will be necessary to change the China Energy Label attached on the motors currently. Details of the rules and Mitsubishi Electric's actions are described below.

2. Impact

From October 1, 2025, motors bearing the China Energy Label compliant with CEL 038-2020 are expected to be ineligible for export to China. In addition, since the rules apply to motors, those integrated into machines will not be affected.

3. Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Permanent Magnet Synchronous Motors — GB 30253-2024

(1) Details

Item		Current standard	New standard
GB grading standard	Standard number	GB 30253-2013	GB 30253-2024
	Name	Minimum allowable values of energy efficiency and energy efficiency grades for permanent magnet synchronous motors	Minimum allowable values of energy efficiency and energy efficiency grades for permanent magnet synchronous motors
	Date of issue	December 18, 2013	September 29, 2024
	Date of implementation	September 01, 2014	October 01, 2025

(2) Affected motors

Rotary servo motors and direct drive motors that meet the following conditions are subject to the rules. Linear servo motors are excluded from the affected motors, as they are not the rotary type.

Item		Current standard	New standard
Applicable range	Rated output	0.55 kW to 90 kW	0.55 kW to 1,250 kW
	Rotational speed	500 r/min to 3,000 r/min	45 r/min to 6,000 r/min
	Rated voltage	1,000 V or less	1,140 V or less

4. Regulatory Exclusions

Even in the permanent magnet synchronous motors that meet the conditions in Section 3, some of the motors are expected to be excluded under the "Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors". Following the issuance of the 2025 edition of the Implementation Rules, this Sales and Service will be revised to include details regarding exclusions.




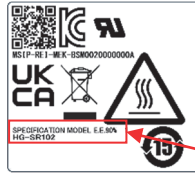


Date of issue	August 2025	Title	AC Servo Motor Compliance with Rules for China Energy Label (2025 Edition)	Mitsubishi Electric Corp., Nagoya Works 1-14, Yada-minami 5-chome, Higashi-ku, Nagoya 461-8670 Tel.: +81 (52) 721-2111 Main line
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5. Mitsubishi Electric's Action

Mitsubishi Electric AC servo motors are scheduled to comply with China Energy Label requirements. Compliance for the applicable motors will be addressed sequentially. After approval of registration in the Chinese authorities' system, indications of the China Energy Label will be changed. Accordingly, the indications on the rating plate and packaging label will also be changed.

The China Energy Label compliant with CEL 038-2020 will continue to be attached on the motors after October 1, 2025, depending on stock and production status; however, this has no impact on exports outside of China.

In cases where the criteria are not met, or during transition periods, the China Energy Label and any related indications on the rating plate and packaging label may be removed.

Item	Current standard	New standard
China Energy Label		 <p>This label will be changed in accordance with GB 30253-2024.</p>
Rating plate		 <p>This indication corresponds to China Energy Label. It will be changed in accordance with GB 30253-2024.</p>
Packaging label		 <p>This indication corresponds to China Energy Label. It will be changed in accordance with GB 30253-2024.</p>

* Rating plates in the table above are examples. The rating plate size, mark position/size, and descriptions differ depending on the model.

* Depending on the stock status, the products with both the former and new plates/labels may be distributed in the market around the same time.

6. Schedule

This change will be made from the October 2025 production.