

Mitsubishi Electric AC Servo System

No.25-24BE

Sales and Service

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 revised issued on September 29, 2024. In addition, the Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors (CEL 038-2020) has been revised, and its 2025 edition was issued on September 26, 2025. 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 January 1, 2026, motors bearing the China Energy Label compliant with CEL 038-2020 will be ineligible for export to China. In addition, since the rules apply to motors, those integrated into machines will not be affected.

3. 2025 Edition of the Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors and Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Permanent Magnet Synchronous Motors (GB 30253-2024)

(1) Affected motors

1) When version A of this document was issued

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. Servo motors with an electromagnetic brake and geared servo motors are excluded.

Table 1. Affected motors

| Item | | Current standard | New standard |
|------------------|---------------|--------------------------|-------------------------|
| Applicable range | Rated output | 0.55 kW to 90 kW | 0.55 kW to 1,250 kW |
| | 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 |

2) Additional affected motors

Servo motors with an electromagnetic brake are also subject to the rules if they fall within the range specified in Table 1.

Geared servo motors with an electromagnetic brake are not subject to the rules.

| | | | | |
|---------------|---|-------|--|--|
| Date of issue | August 2025 (Revision: January 2026) | 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 |
|---------------|---|-------|--|--|

(2) Details of the regulations

Table 2. Details of the regulations

| Item | | Current standard | New standard |
|--------------------------------|------------------------|--|--|
| Implementation rules for CEL | Standard number | CEL 038-2020 | 2025 edition |
| | Name | Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors | Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors |
| | Date of issue | April 29, 2020 | September 26, 2025 |
| | Date of implementation | July 01, 2020 | January 01, 2026 |
| Energy efficiency grade for GB | 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 |

(3) Regulatory exclusions

The display of the China Energy Label is exempt if either of the following conditions (a) or (b) is met.

(a) According to Section 1.2 of the "Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors", the following case is excluded from the scope of the Implementation Rules:

- When the motor is integrated into machinery such as fans, pumps, or compressors and cannot be tested independently. ^{*1}

*1 The determination will be made by the exporter (or the machine manufacturer, in the case of integrated machines).

"Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors" (in Chinese) can be viewed at the website below.

https://www.ndrc.gov.cn/xxgk/zcfb/qhxwj/202509/t20250926_1400696.html

(b) According to Items (7) and (8) under Article 11 of the "Measures for the Administration of Energy Efficiency Labels" (the higher-level regulation of the "Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors"), products falling under the following categories are exempt from displaying the China Energy Label:

- Products required by end users for maintenance purposes (i.e., for maintenance use)
- Products required for factory production lines or for supporting production lines (i.e., for factory equipment use)

"Measures for the Administration of Energy Efficiency Labels" (in Chinese, PDF file) can be viewed at the website below.

[National Development and Reform Commission of the People's Republic of China](#)

When motors alone are exported to China, documentation stating that the product is exempt from displaying the China Energy Label based on the above reasons may be required for customs clearance. Such documentation should be prepared by the importer (or exporter). If you have any questions, please contact the customs.

4. Reason for the Change in Affected Motors

According to Section 1.2 of the "Implementation Rules for Energy Efficiency Labeling of Permanent Magnet Synchronous Motors", the following case is excluded from the scope of the Implementation Rules:

(2) Motors in which the braking device cannot be removed and which cannot be supplied with electricity by an independent power supply

Based on the above description, we had judged that servo motors with an electromagnetic brake were excluded; however, it has been found that this interpretation was incorrect.

5. Mitsubishi Electric's Action

Mitsubishi Electric AC servo motors will comply with China Energy Label requirements. Compliance for the applicable motors has been initiated 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, packaging label, and label attachment method (from string attachment to tape application) will also be changed.

The China Energy Label compliant with CEL 038-2020 will continue to be attached on the motors on or after January 1, 2026, depending on stock and production status; however, this will have 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>此标识和铭牌同时使用。产品规格型号、效率、额定功率和额定转速见铭牌。</p> <p>依据国家标准: GB 30253-2013</p> |  <p>此标识和铭牌同时使用。产品规格型号、效率、额定功率和额定转速见铭牌。</p> <p>依据国家标准: GB 30253-2024</p> |
| Rating plate |  |  |
| Packaging label |  |  |

* Rating plates in the table above are examples. The rating plate size, mark position/size, description, and label attachment method 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

- (1) Motors subject to the rules when version A of this document was issued
These changes have been made sequentially from the December 2025 production.
- (2) Additional motors subject to the rules
These changes will be made sequentially from the January 2026 production.

Revision

| Version | Date of issue | Revision |
|---------|---------------|--|
| A | October 2025 | A comprehensive revision was carried out following the issuance of the Implementation Rules. |
| B | January 2026 | Servo motors with an electromagnetic brake were added to the motors subject to the rules. |