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Implementation rules for energy labels of small and medium-sized three-phase asynchronous motors

中小型三相异步电动机能源效率标识实施规则

Table of Contents

1 General	3
2 Label style and specification	4
3 Energy testing	4
4 Determination of label information	5
5 Printing, application and display of labels.....	6
6 Label filing	6
7 Announcement for labels	7
Appendix 1 Examples of energy label style for small and medium-sized three-phase asynchronous motors	8
Appendix 2 Energy test report for small and medium-sized three-phase asynchronous motors	10
Appendix 3 Registration for energy labels of small and medium-sized three-phase asynchronous motors	16

Implementation rules for energy labels of small and medium-sized three-phase asynchronous motors

1 General

1.1 This Rules is formulated in accordance with the "Measures for the Administration of Energy Labels" (hereinafter referred to as the "Measures").

1.2 This Rules is applicable to the use, filing and announcement of energy labels (hereinafter referred to as labels) for general purpose three-phase asynchronous motor or general-purpose explosion-proof three-phase asynchronous motor. The rated voltage of the motor is 1000 V and below. It uses 50 Hz three-phase AC power supply. The rated power is in the range of 0.75 kW ~ 375 kW. The number of poles is 2 poles, 4 poles, 6 poles and 8 poles. It has single-speed closed self-fan cooling, N design and continuous work system.

Inapplicable motors mainly include:

- (1) Motors that are fully integrated with other equipment such as pumps, fans, compressors and reduction gearboxes and cannot be tested separately;
- (2) Motors specially designed for driving special machinery (e.g., with large starting torque, special requirements for torque stiffness and/or ultimate torque characteristics, large number of drive/stop cycles);
- (3) Specially designed motors that are used in harsh power supply environments (for example, the starting current of the motor cannot be too large, and the grid voltage and/or frequency fluctuates greatly);
- (4) Motors used under special environmental conditions, such as motors installed at high altitudes (>1000 m), smoke exhaust motors (temperature levels exceeding 250°C and above), textile motors, special motors for ships, etc.;
- (5) Explosion-proof motors manufactured for safety needs and specific design restrictions (such as increased air gap, reduced starting current, enhanced sealing);
- (6) Motors specially designed for changing working conditions;
- (7) Conical rotor motors for electric lifting hoists and construction machinery;
- (8) Motors that the electromagnetic brake is inside the motor casing (the fan cover is inside the casing and outside the casing);

3.2 The format of the "Energy test report for small and medium-sized three-phase asynchronous motors" (hereinafter referred to as the test report) is shown in Appendix 2. It can be downloaded from the "China Energy Label Network" (www.energylabelrecord.com).

3.3 Producers or importers can use their own testing laboratories or entrust third-party inspection and testing institutions that have obtained qualifications in accordance with the law to test products. Determine product energy levels based on mandatory national standards for energy.

Producers or importers who use their own testing laboratories to determine energy levels shall ensure that their testing laboratories have the ability to conduct testing in accordance with mandatory national standards for energy, and are encouraged to obtain accreditation from national accreditation agencies.

3.4 If a self-owned testing laboratory is used for testing, materials proving the laboratory's testing capabilities (including laboratory personnel capabilities, equipment capabilities, and testing management specifications) must be provided. If it has been accredited by a national accreditation agency, a copy of the corresponding accreditation certificate shall also be provided. If a third-party inspection and testing agency is used for testing, a copy of the inspection and testing agency's qualification certificate shall be provided.

Authorized agencies shall verify the energy labels and product energy test reports used by manufacturers and importers.

4 Determination of label information

4.1 Producers refer to product brand owners or users who are legally responsible for product quality.

4.2 The specifications and models of small and medium-sized three-phase asynchronous motors shall be consistent with the markings on the nameplate.

4.3 Parameters related to product energy performance such as energy grade and efficiency shall be determined based on the currently effective version of GB 18613 and the test report. The efficiency value marked on the label shall not exceed the value range of the corresponding energy grade. The tolerance shall comply with the requirements of GB/T 755-2019 "Rotating electrical machines -- Rating and performance".

4.4 The mandatory national standard for energy based on it refers to the currently effective version of GB 18613.

4.5 When the manufacturer or importer registers, the product energy information code is directly generated by the label information system.

4.6 Products included in the national energy “Top Runner” catalog shall be labeled with energy “Top Runner” information.

5 Printing, application and display of labels

5.1 Every small and medium-sized three-phase asynchronous motor shipped or imported must be labeled.

5.2 The manufacturer or importer prints the label by himself and is responsible for the quality of the printing.

5.3 The label shall be printed on coated paper of 80 grams or above or other durable material that can achieve the same effect.

5.4 The label shall be pasted or hung on an obvious part of the body of the small and medium-sized three-phase asynchronous motor, and explained on the product packaging or instruction manual. If the product is traded online, the corresponding label shall also be displayed in a prominent position on the main product information display page.

5.5 The label placed on small and medium-sized three-phase asynchronous motors shall comply with the provisions of Article 2 of this Rules. Patterns, text and colors may not be changed. The label specifications can be enlarged proportionally based on the provisions of Article 2.1 of this Rules.

5.6 The labels used in product packaging, instructions, the main page for online transaction product information display, and advertising can be enlarged or reduced proportionally. The paper version can be printed in a single color. The text in the label shall be clearly legible.

5.7 For products listed in the national energy "Top Runner" catalog, products shipped 30 days after the release of the catalog shall use energy labels containing energy "Top Runner" information.

6 Label filing

6.1 The manufacturer or importer shall file the records one by one according to product specifications and models. Products of the same series are divided into three segments according to the frame number: 80~160, 180~280, and 315~355. Each segment is regarded as a filing unit. Products in the same filing unit must fill out a filing form. Submit inspection reports for two main inspection specifications and models (the largest frame number and the smallest frame number in this unit). Products with other specifications do not need to submit test reports.

6.2 Producers and importers shall apply to the authorized agency for registration. At the

same time, fill in the "Registration for energy labels of small and medium-sized three-phase asynchronous motors " (see Appendix 3) and other relevant filing materials stipulated in the "Measures" on the "China Energy Label Network" (www.energylabelrecord.com).

The filing materials must be true, accurate and complete.

6.3 When the product label content changes, it must be re-filed with the authorized agency.

6.4 For those that do not meet the requirements of Article 6.2 of this Rules, the authorized agency will notify the manufacturer or importer to promptly supplement the materials or replace the used label.

6.5 Foreign language materials shall be accompanied by a Chinese translation, and the Chinese version shall prevail.

7 Announcement for labels

7.1 The authorized agency shall revoke the relevant registration information of manufacturers or importers of products with substandard energy and make an announcement in a timely manner.

7.2 The authorized agency shall establish a product information database. Provide product information inquiry services to producers, consumers and regulatory authorities. Promptly announce the verification and supervision inspection status of the label.

7.3 Enterprises, consumers and other relevant parties can complain and report label violations through the following methods:

Telephone/Fax: (010)58811745/58811714;

Internet: "China Energy Label Network" (www.energylabelrecord.com).

Appendix:

1. Examples of energy label style for small and medium-sized three-phase asynchronous motors
2. Energy test report for small and medium-sized three-phase asynchronous motors
3. Registration for energy labels of small and medium-sized three-phase asynchronous motors

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