

Proposal for amendment to the legal inspection regulation for Low-voltage three-phase induction motors

By the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs MOEA

Introduction:

The Low-voltage three-phase induction motors have been subject to mandatory inspection under the Commodity Inspection Act by the Bureau of Standards Metrology and Inspection (BSMI) since 20 May 1974. The BSMI will adopt the revised standard CNS 14400 “Low-voltage three-phase squirrel-cage high-efficiency induction motors (For general purpose)” (promulgated on 26 March 2012) and CNS 1056 “Low-voltage three-phase induction motors” (promulgated on 10 August 2011) as new testing and inspection standards, instead of the current CNS 14400 (promulgated on 9 September 2003) and CNS 1056 (promulgated on 31 August 1999).

Proposed date of implementation:

1 January 2015

Products (HS/CCCN codes) covered and their applicable inspection standards:

Description of Goods	Inspection Standards	C.C.C. Code (the first 6 digits are the same as HS Code)
Low-voltage three-phase induction motors. (inspection scope: only those rated output below 74.6kW (100HP) without other additional device and exclude those used in household appliances).	CNS 1056 (2011), CNS 14400 (2012)	8501.51.90.00.7 8501.52.90.00.6

Remarks :

1. The inspection scope of CNS 1056 :
This standard is applicable to the maximum continuous rating; rated frequency of 60Hz, 600V and lower rated voltage, drip proof type and totally enclosed type (including totally enclosed fan cooled type but excluding totally enclosed internal cooled type), Class A insulation, ambient temperature of the air at the operating site does not exceed 40 of the low voltage three-phase squirrel-cage induction motors.
2. The inspection scope of CNS 14400
This standard applies to low-voltage three-phase squirrel-cage high –efficiency induction motors which have continuous rating, rated frequency 60Hz, rated voltage 600V and below, and suitable for application at ambient temp 40 and below.
This standard does not include following motors:
 - (a) Submersible electric motors, which are designed to submerge and run under liquids.
 - (b) Electric motors integrated into a machine(driven equipment) that can not be separated from the machine
 - (c) Multi-speed electric motors (for example, pole-changed motors, elevator usage motors, etc), but does not include eddy current electric motors.
 - (d) Electric motor regulated by other national standards, or specifically designed and built for special usage and approved by government authorities. (For example, high temperature smoke extraction motors...etc.).
3. The inspection standards of CNS 14400 and CNS 1056 can be accessible at CNS online service website: www.cnsonline.com.tw. You can preview the content of these standards for free. If you need to download and print, please contact our service counter of Data center at BSMI.
Tel: +886-2-23414772 or +886-2-23431994
Fax: +886-2-8192-6746
E-mail: cnsonline@hibox.hinet.net

The conformity assessment procedures for the inspection schemes are as follows:

Registration of Product Certification (RPC) Scheme (Module II + III)

Under this procedure, domestic manufacturers or importers must have their products type-tested in advance (Module II) before applying for registration of their products. Manufacturers or importers will also be required to ensure by declaration that all products made at their manufacturing facilities or imported are in conformity with the prototypes submitted for type test at Module II stage, and the declaration procedure is called Module III (conformity-to-type declaration). The conformity-to-type declaration shall be drawn up by the manufacturer or the authorized local representative, declaring that the products mass-produced will comply with the prototype as described in the type-test report.

Products will be allowed to use the Commodity Inspection Mark with the letter 'R' and the identification number given by the BSMI, after they are certified and registered with the BSMI. These products can then pass through customs directly without any further inspection if not be sampled by RPC border check procedure. The application fee and annual fee for RPC are both NT\$5,000(about US\$170) for each certification, and the RPC certifications are valid for three years. If there are any serial products, the extra NT\$3,000(about US\$102) of application fee is needed for every application in each certification.

Locations to apply for Type Testing:

The BSMI or BSMI-designated testing laboratories.

Locations to apply for Registration of Product Certification:

The BSMI or his branch offices.

Time required for Registration of Product Certification:

Fourteen working days. (This period does not include the time for corrective actions by the applicant due to deficiencies in the documents or samples; another seven working days may be required if additional tests are required)

Related requirements:

1. The revised inspection standard CNS 14400 (promulgated on 26 March 2012) for the low-voltage three-phase squirrel-cage high-efficiency induction motors listed in the table will be effective as of 1 January 2015. In addition, as of the date that this notice is promulgated, the BSMI will accept such applications that those motors have complied with IE2 or IE3 efficiency grade. Aiming to enhance the efficiency of energy utilization, we intend to promote the regulated energy efficiency requirements, so as to reduce electricity loss, in two stages. In the first stage, we regulate those products to meet IE2 efficiency grade from 1 January 2015. Further, in the second stage, we require them meet IE3 efficiency grade from 1 July 2016.
2. The revised inspection standard CNS 1056 (promulgated on 10 August 2011) for the low-voltage three-phase induction motors (class A insulation) listed in the table will be effective as of 1 January 2015. In addition, as of the date that this notice is promulgated, the BSMI will accept such applications that those motors have complied with the standard of CNS 1056(promulgated on 10 August 2011).
3. The RPC certificates of low-voltage three-phase squirrel-cage high-efficiency induction motors following CNS 14400(promulgated on 9 September 2003), which were issued by the BSMI before 31 December 2014, will be only valid till 31 December 2014 if they do not comply with the IE2 efficiency grade. The RPC certificates of those products will be only valid till 30 June 2016 if they do not comply with the IE3 efficiency grade.
4. The RPC certificates of low-voltage three-phase induction motors (class A insulation) following CNS 1056 (promulgated on 31 August 1999), which were issued by the BSMI before 1 January 2015, will remain valid until the expiration date of these certificates. From 1 January 2015, the new application case must comply with CNS 1056 (promulgated on 10 August 2011).
5. The obligatory applicants can submit the technical files to the BSMI to apply for Certificates of RPC and register the certified products in our Database. Then the BSMI shall issue Certificates of RPC and identification numbers to the obligatory applicants. Accordingly, they can print or affix the RPC Certification Inspection Marks on the products by themselves.
6. The inspection standards shall be the version as listed in this public notice. When the applicable standards are revised or amended, the date of applying these revised or amended standards for inspection shall be further decided and announced by the BSMI.