



Explanation To The Various Approval Markings Used On Variable Speed Drives, Motors and Pheriphial Components

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This document gives information on the various approval markings that can be found on variable speed drives, motors and peripheral components.

CE Mark

CE stands for Conformité Européenne, of which an English translation is European Conformity.

The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives. To permit the use of a CE mark on a product, proof that the item meets the relevant requirements must be documented. Sometimes this is achieved using an external test house which evaluates the product and its documentation. Often it is achieved by a company-internal self-certification process. In any case the responsible organization (manufacturer, representative, importer) has to issue a **EC-Declaration of Conformity** (EC-DoC) indicating his identity (location, etc.), the list of European Directives he declares compliance with, a list of standards the product complies with, and a legally binding signature on behalf of the organization. The EC-DoC underlines the sole responsibility of the manufacturer. When parts of the certification process for the CE marking are performed by 3rd party test houses or certification bodies then it is mandatory that the CE symbol also includes a number identifying the 'Notified Body'.

By affixing the CE marking, the manufacturer or person placing the product on the market or putting it into service asserts that the item meets all the essential requirements of the relevant European Directive(s).



Examples of European Directives requiring CE marking include toy safety, machinery, low-voltage equipment, terminal equipment and EM compatibility. There are about 25 directives requiring CE marking.

C-Tick mark

All electrical and electronic goods sold in Australia and New Zealand have to carry the C-Tick mark.

The C-Tick mark identification trademark registered to the government authority which indicates compliance with EMI (electromagnetic interference) standards. C-Tick covers only emission standards both conducted and radiated. From January 1999 nearly all electrical products had to comply with the C-tick standards and must be labelled with the C-Tick mark.

The C-Tick mark is used to demonstrate that an electrical or electronic product complies with electromagnetic compliance (EMC) regulations. The EMC directive is controlled and enforced in New Zealand by the Ministry of Commerce – EMC and by Spectrum Management Agency in Australia. Both countries have adopted a common EMC compliance scheme, producing the “C-Tick” mark to provide a traceable link between the product and the supplier responsible for that product in the marketplace.

CCC Mark

CCC stands for the China Compulsory Product Certification. It is the product compliance regime in China.

The CCC mark is the compulsory Safety & Quality mark for many products sold on the Chinese market. CCC Mark became effective on the May 1, 2002. It is the result of the integration of China's two compulsory inspection systems (one to check contents of products for import and export, and the other for quality control) into a single procedure. The new **CCC mark** replaces the two old marks, namely **CCIB** and **CCEE** used in the two old inspection systems.

The product list includes 19 product groups and a total of 132 product categories.

UL

The UL Mark is a registered certification mark of Underwriters Laboratories Inc. (UL), an independent, not-for-profit, product safety testing and certification organization. The UL Mark may only be used on or in connection with products certified by UL and under the terms of written agreement with UL.



The UL Mark on a product means that UL has tested and evaluated representative samples of that product and determined that it meets UL's requirements. The requirements are primarily based on UL's own published Standards for Safety.

The UL Mark is one of the most recognized, accepted and trusted symbols in the world. Safety-conscious and concerned consumers look for this on products because it delivers the credibility of an independent, technically expert organisation which has determined whether foreseeable risks associated with the product's use have been eliminated or minimized. Even after the product is offered in the marketplace, it must continue to meet safety requirements in order to continue bearing the UL Mark, or the mark will be removed by UL.

CSA

CSA stands for the Canadian Standards Association.

CSA marks mean a product has been tested and meets applicable standards for safety and/or performance, including the applicable standards written or administered by the American National Standards Institute (ANSI), Underwriters Laboratories (UL), Canadian Standards Association (CSA), National Sanitation Foundation (NSF), and others.

