

INTERNATIONAL STANDARD

NORME INTERNATIONALE

HORIZONTAL STANDARD
NORME HORIZONTALE

**Marking of electrical equipment with ratings related to electrical supply –
Safety requirements**

**Marquage des matériels électriques avec les caractéristiques assignées
relatives à l'alimentation électrique – Exigences de sécurité**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MARKING OF ELECTRICAL EQUIPMENT WITH RATINGS RELATED
TO ELECTRICAL SUPPLY – SAFETY REQUIREMENTS**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61293 has been prepared by IEC technical committee 3: Information structures and elements, identification and marking principles, documentation and graphical symbols.

This second edition cancels and replaces the first edition published in 1994. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) its status as a basic safety publication has been removed, and it has become a horizontal publication in accordance with IEC Guide 108;
- b) the scope is extended to include the applicability of this document to product manufacturers;
- c) the addition of a provision that the visibility of the marking during normal operation should be considered;

- d) more detailed requirements where equipment has a set or range of rated values for a given characteristic;
- e) requirements regarding the provision of the markings also in the technical documentation have been added;
- f) some notes have been converted to normative text;
- g) normative references and references to other standards have been updated.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
3/1404/FDIS	3/1414/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

It has the status of a horizontal standard in accordance with IEC Guide 108.

The reader's attention is drawn to the fact that Table B.1 of Annex B lists all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this standard.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

MARKING OF ELECTRICAL EQUIPMENT WITH RATINGS RELATED TO ELECTRICAL SUPPLY – SAFETY REQUIREMENTS

1 Scope

This International Standard establishes minimum requirements and general rules on marking electric equipment with ratings and other characteristics to enable the proper and safe selection and installation of electric equipment related to any supply of electricity.

The object of this document is to:

- provide general requirements for the marking of the characteristics related to any supply system, such as voltage, current, frequency and power, without any restriction;
- provide technical committees with uniform methods for the marking of electrical ratings of products.

This document is primarily intended for application by technical committees when specifying minimum markings of ratings related to any electrical supply of equipment, part, sub-assemblies and components, but it is also for application by product manufacturers for marking their products.

NOTE For further markings see ISO/IEC Guide 51.

This horizontal standard is primarily intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 108.

One of the responsibilities of a technical committee is, wherever applicable, to make use of horizontal standards in the preparation of its publications. The contents of this horizontal standard will not apply unless specifically referred to or included in the relevant publications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60417, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

IEC 60445, *Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals, conductor terminations and conductors*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60617, *Graphical symbols for diagrams* (available at <http://std.iec.ch/iec60617>)

IEC 61082-1:2014, *Preparation of documents used in electrotechnology – Part 1: Rules*

IEC 61140, *Protection against electric shock – Common aspects for installation and equipment*