

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Letter symbols to be used in electrical technology –
Part 7: Power generation, transmission, and distribution**

**Symboles littéraux à utiliser en électrotechnique –
Partie 7: Production, transport et distribution de l'énergie électrique**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LETTER SYMBOLS TO BE USED
IN ELECTRICAL TECHNOLOGY –****Part 7: Power generation, transmission, and distribution**

FOREWORD

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International Standard IEC 60027-7 has been prepared by IEC technical committee 25: Quantities and units.

The text of this standard is based on the following documents:

CDV	Report on voting
25/391/CDV	25/406/RVC

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

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

A list of all parts of the IEC 60027 series, under the general title *Letter symbols to be used in electrical technology* can be found on the IEC website.

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

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- withdrawn,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

LETTER SYMBOLS TO BE USED IN ELECTRICAL TECHNOLOGY –

Part 7: Power generation, transmission, and distribution

1 Scope

This part of IEC 60027 is applicable to generation, transmission, and distribution of electric energy. It gives names and letter symbols for quantities and units. In addition, rules for multiple subscripts and their succession are given.

This part of IEC 60027 is an addition to IEC 60027-1. Therefore letter symbols already given in IEC 60027-1 are repeated only if they have a special meaning in the field of power generation, transmission, and distribution or if they are used in this field with special subscripts.

Guidance on the use of capital and lower case letters, is given in IEC 60027-1, 2.1, and guidance on the representation of complex quantities, is given in IEC 60027-1, 1.6. Therefore in many cases only U is given instead of $\underline{U}$, $|\underline{U}| = U$ or u .

2 Normative references

The following referenced documents are indispensable for the application 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 60027-1:1992, *Letter symbols to be used in electrical technology – Part 1: General*
Amendment 1:1997
Amendment 2:2005

IEC 60027-2:2005, *Letter symbols to be used in electrical technology – Part 2: Telecommunications and electronics*

IEC 60038:2009, *IEC standard voltages*

IEC 60050-121:1998, *International Electrotechnical Vocabulary – Part 121: Electromagnetism*
Amendment 1 (2002)

IEC 60050-131:2002, *International Electrotechnical Vocabulary – Part 131: Circuit theory*
Amendment 1 (2008)

IEC 60050-141:2004, *International Electrotechnical Vocabulary – Part 141: Polyphase systems and circuits*

IEC 60050-151:2001, *International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices*

IEC 60050-195:1998, *International Electrotechnical Vocabulary – Part 195: Earthing and protection against electric shock*
Amendment 1 (1998)