



National Standards Authority of Ireland

IRISH STANDARD

**I.S. HD 60027-1:2004**

ICS 01.060

National Standards  
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**LETTER SYMBOLS TO BE USED IN  
ELECTRICAL TECHNOLOGY PART 1:  
GENERAL (IEC 60027-1 REPRINT: 1995 &  
A1:1997)**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
March 26, 2004*

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HARMONIZATION DOCUMENT

**HD 60027-1**

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

February 2004

ICS 01.060

Supersedes HD 245.1 S3:1979

English version

**Letter symbols to be used in electrical technology**  
**Part 1: General**  
(IEC 60027-1 Reprint:1995 + A1:1997)

Symboles littéraux à utiliser en  
électrotechnique  
Partie 1: Généralités  
(CEI 60027-1 Reprint:1995 + A1:1997)

Formelzeichen für die Elektrotechnik  
Teil 1: Allgemeines  
(IEC 60027-1 Reprint:1995 + A1:1997)

This Harmonization Document was approved by CENELEC on 2003-12-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of the International Standard IEC 60027-1:1995 + A1:1997, prepared by IEC TC 25, Quantities and units, and their letter symbols, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 60027-1 on 2003-12-01 without any modification.

This Harmonization Document supersedes HD 245.1 S3:1979.

The following dates were fixed:

- latest date by which the existence of the HD  
has to be announced at national level (doa) 2004-06-01
- latest date by which the HD has to be implemented  
at national level by publication of a harmonized  
national standard or by endorsement (dop) 2004-12-01
- latest date by which the national standards conflicting  
with the HD have to be withdrawn (dow) 2006-12-01

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## Endorsement notice

The text of the International Standard IEC 60027-1:1995 + A1:1997 was approved by CENELEC as a Harmonization Document without any modification.

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC  
27-1**

Sixième édition  
Sixth edition  
1992

Corrigée et réimprimée  
Corrected and reprinted  
1995-03-31

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**Symboles littéraux  
à utiliser en électrotechnique**

**Partie 1:  
Généralités**

**Letter symbols  
to be used in electrical technology**

**Part 1:  
General**



Numéro de référence  
Reference number  
CEI/IEC 27-1: 1992

## Validité de la présente publication

Le contenu technique des publications de la CEI est constamment revu par la CEI afin qu'il reflète l'état actuel de la technique.

Des renseignements relatifs à la date de reconfirmation de la publication sont disponibles auprès du Bureau Central de la CEI.

Les renseignements relatifs à ces révisions, à l'établissement des éditions révisées et aux amendements peuvent être obtenus auprès des Comités nationaux de la CEI et dans les documents ci-dessous:

- **Bulletin de la CEI**
- **Annuaire de la CEI**  
Publié annuellement
- **Catalogue des publications de la CEI**  
Publié annuellement et mis à jour régulièrement

## Terminologie

En ce qui concerne la terminologie générale, le lecteur se reportera à la CEI 50: *Vocabulaire Electrotechnique International* (VEI), qui se présente sous forme de chapitres séparés traitant chacun d'un sujet défini. Des détails complets sur le VEI peuvent être obtenus sur demande. Voir également le dictionnaire multilingue de la CEI.

Les termes et définitions figurant dans la présente publication ont été soit tirés du VEI, soit spécifiquement approuvés aux fins de cette publication.

## Symboles graphiques et littéraux

Pour les symboles graphiques, les symboles littéraux et les signes d'usage général approuvés par la CEI, le lecteur consultera:

- la CEI 27: *Symboles littéraux à utiliser en électro-technique;*
- la CEI 417: *Symboles graphiques utilisables sur le matériel. Index, relevé et compilation des feuilles individuelles;*
- la CEI 617: *Symboles graphiques pour schémas;*

et pour les appareils électromédicaux,

- la CEI 878: *Symboles graphiques pour équipements électriques en pratique médicale.*

Les symboles et signes contenus dans la présente publication ont été soit tirés de la CEI 27, de la CEI 417, de la CEI 617 et/ou de la CEI 878, soit spécifiquement approuvés aux fins de cette publication.

## Publications de la CEI établies par le même comité d'études

L'attention du lecteur est attirée sur les listes figurant à la fin de cette publication, qui énumèrent les publications de la CEI préparées par le comité d'études qui a établi la présente publication.

## Validity of this publication

The technical content of IEC publications is kept under constant review by the IEC, thus ensuring that the content reflects current technology.

Information relating to the date of the reconfirmation of the publication is available from the IEC Central Office.

Information on the revision work, the issue of revised editions and amendments may be obtained from IEC National Committees and from the following IEC sources:

- **IEC Bulletin**
- **IEC Yearbook**  
Published yearly
- **Catalogue of IEC publications**  
Published yearly with regular updates

## Terminology

For general terminology, readers are referred to IEC 50: *International Electrotechnical Vocabulary* (IEV), which is issued in the form of separate chapters each dealing with a specific field. Full details of the IEV will be supplied on request. See also the IEC Multilingual Dictionary.

The terms and definitions contained in the present publication have either been taken from the IEV or have been specifically approved for the purpose of this publication.

## Graphical and letter symbols

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications:

- IEC 27: *Letter symbols to be used in electrical technology;*
- IEC 417: *Graphical symbols for use on equipment. Index, survey and compilation of the single sheets;*
- IEC 617: *Graphical symbols for diagrams;*

and for medical electrical equipment,

- IEC 878: *Graphical symbols for electromedical equipment in medical practice.*

The symbols and signs contained in the present publication have either been taken from IEC 27, IEC 417, IEC 617 and/or IEC 878, or have been specifically approved for the purpose of this publication.

## IEC publications prepared by the same technical committee

The attention of readers is drawn to the end pages of this publication which list the IEC publications issued by the technical committee which has prepared the present publication.

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