



SLOVENSKI STANDARD

SIST HD 571 S1:1998

01-februar-1998

General principles for the creation of graphical symbols for use on equipment

General principles for the creation of graphical symbols for use on equipment

Gestaltungsregeln für graphische Symbole an Einrichtungen

Principes généraux pour la création de symboles graphiques utilisables sur le matériel

Ta slovenski standard je istoveten z: **HD 571 S1:1998**

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ICS:

01.080.20	Grafični simboli za posebno opremo	Graphical symbols for use on specific equipment
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GENERAL PRINCIPLES FOR THE CREATION OF GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT

Principes généraux pour la
création des symboles graphiques
utilisables sur le matériel

Gestaltungsregeln für graphische
Symbole an Einrichtungen

BODY OF THE HD

The Harmonization Document consists of:

- IEC 416:1988; IEC/TC 3, not appended

This Harmonization Document was approved by CENELEC on 1990-06-11.

The English and French versions of this Harmonization Document are provided by the text of the IEC publication and the German version is the official translation of the IEC text.

According to the CEN/CENELEC Internal Regulations the CENELEC member National Committees are bound:

to announce the existence of this Harmonization Document at national level by or before 1990-12-15

to publish their new harmonized national standard by or before 1991-06-15

to withdraw all conflicting national standards by or before 1991-06-15.

Harmonized national standards are listed on the HD information sheet, which is available from the CENELEC National Committees or from the CENELEC Central Secretariat.

The CENELEC National Committees are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI
IEC
416

Deuxième édition
Second edition
1988



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

Principes généraux pour la création
de symboles graphiques utilisables
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General principles for the creation of
graphical symbols for use on equipment

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

 GENERAL PRINCIPLES FOR THE CREATION OF GRAPHICAL
 SYMBOLS FOR USE ON EQUIPMENT

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by Sub-Committee 3C : Graphical Symbols for Use on Equipment, of IEC Technical Committee No. 3 : Documentation and Graphical Symbols.

This second edition replaces the first edition of IEC Publication 416 (1972).

This standard has been prepared in collaboration with Technical Committee ISO/TC 145 : Graphical symbols. This standard is also published as International Standard ISO 3461-1.

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

Six Months' Rule	Report on Voting
3C(CO)122	3C(CO)127

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

INTERNATIONAL ELECTROTECHNICAL COMMISSION

GENERAL PRINCIPLES FOR THE CREATION OF GRAPHICAL
SYMBOLS FOR USE ON EQUIPMENT

1 Scope

This standard specifies the basis for the creation of graphical symbols for use on equipment. It contains rules for designing symbols, including their shape and size, and instructions for their application.

Graphical symbols for use on equipment may be employed

- to identify the equipment or a part of the equipment (e.g. a control or display);
- to indicate functional states (e.g. on, off, alarm);
- to designate connections (e.g. terminals, filling points);
- to provide information on packaging (e.g. identification of content, instructions for handling);
- to provide instructions for the operation of the equipment (e.g. warnings, limitations of use).

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This standard does not apply to graphical symbols primarily intended for

- use on drawings;
- use in technical product documentation;
- public information.

However, graphical symbols initially developed for such purposes (see IEC 617, ISO 3461-2, ISO 7001 and ISO/TR 7239) may be used on equipment, provided that they are drawn in accordance with the principles laid down in this standard.

2 References

IEC 27 (parts 1 to 4), *Letter symbols to be used in electrical technology*.

IEC 417 : 1973, *Graphical symbols for use on equipment — Index, survey and compilation of the single sheets*.

IEC 617 (parts 1 to 13), *Graphical symbols for diagrams*.

ISO 31 (parts 0 to 13), *Quantities, units and symbols*.

ISO 3461-1 : 1988, *General principles for the creation of graphical symbols — Part 1 : Graphical symbols for use on equipment.*

ISO 3461-2 : 1987, *Part 2 : Graphical symbols for use in technical product documentation.*

ISO 3864 : 1984, *Safety colours and safety signs.*

ISO 4196 : 1984, *Graphical symbols — Use of arrows.*

ISO 7000 : 1984, *Graphical symbols for use on equipment — Index and synopsis.*

ISO 7001 : 1980, *Public information symbols.*

ISO/TR 7239 : 1984, *Development and principles for application of public information symbols.*

3 Definitions

For the purposes of this standard, the following definitions apply.

3.1 *graphical symbol* : Visually perceptible figure used to transmit information independently of language. It may be produced by drawing, printing or other means.

Note. — Internationally standardized letter symbols according to ISO 31 and IEC 27 may be considered to be graphical symbols.

3.2 *graphical symbol elements* : Parts of a graphical symbol.

Note 1. — A graphical symbol element with a specific meaning may be used to provide a common concept in the construction of a symbol family.

Note 2. — Letters, numerals, punctuation marks and mathematical symbols may be used as graphical symbol elements.

3.3 *(symbol) original* : Design of a graphical symbol, prepared in accordance with this standard, used for reference or reproduction purposes.

4 Meaning

The meaning assigned to each graphical symbol is expressed by its title which may be supplemented by an application note. The meaning shall be unambiguous and independent of terms related to a special technique or discipline.

The meaning of a graphical symbol may depend on its orientation and care shall be taken to avoid ambiguity (see 8.2).

5 Combination of graphical symbols

To represent certain concepts, graphical symbols or graphical symbol elements may be combined to form a new graphical symbol. The meaning assigned to the new graphical symbol shall be consistent with the meanings of the individual graphical symbols or graphical symbol elements used.