



SLOVENSKI STANDARD

SIST EN 62027:2002

01-oktober-2002

Preparation of parts lists (IEC 62027:2000)

Preparation of parts lists

Erstellung von Teilelisten

Etablissement des nomenclatures de composants

Ta slovenski standard je istoveten z: **EN 62027:2000**

[SIST EN 62027:2002](https://standards.iteh.ai/catalog/standards/sist/b3ba2f50-fd6c-4ca2-8142-11e530e932ea/sist-en-62027-2002)

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ICS:

| | | |
|--------|-----------------------------------|-----------------------------------|
| 01.110 | Tehnična dokumentacija za izdelke | Technical product documentation |
| 29.020 | Elektrotehnika na splošno | Electrical engineering in general |

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en

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EUROPEAN STANDARD

EN 62027

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2000

ICS 29.020

English version

Preparation of parts lists
(IEC 62027:2000)Etablissement des nomenclatures de
composants
(CEI 62027:2000)Erstellung von Teilelisten
(IEC 62027:2000)**iTeh STANDARD PREVIEW**

This European Standard was approved by CENELEC on 2000-06-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

CENELECEuropean 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 document 3B/289/FDIS, future edition 1 of IEC 62027, prepared by IEC TC 3, Documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62027 on 2000-06-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2001-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-06-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A, B, C and D are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62027:2000 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| IEC 61082-1 | 1991 | Preparation of documents used in electrotechnology Part 1: General requirements | EN 61082-1 | 1993 |
| A2 | 1996 | | A2 | 1996 |
| IEC 61346-1 | 1996 | Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations Part 1: Basic rules | EN 61346-1 | 1996 |
| IEC 61346-2 | 2000 | Part 2: Classification of objects and codes for classes | EN 61346-2 | 2000 |
| IEC 61355 | 1997 | Classification and designation of documents for plants, systems and equipment | EN 61355 | 1997 |
| IEC 61360-1 | 1995 | Standard data element types with associated classification scheme for electric components Part 1: Definitions - Principles and methods | EN 61360-1 | 1995 |
| IEC 61360-4 | 1997 | Part 4: IEC reference collection of standard data element types, component classes and terms | EN 61360-4 | 1997 |
| IEC 62023 | 2000 | Structuring of technical information and documentation | EN 62023 | 2000 |
| IEC 81714-2 | 1998 | Design of graphical symbols for use in the technical documentation of products Part 2: Specification for graphical symbols in a computer sensible form, including graphical symbols for a reference library, and requirements for their interchange | EN 81714-2 | 1998 |
| ISO 639 | 1988 | Code for the representation of names of languages | - | - |

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------|-------------|
| ISO 1000 | 1992 | SI units and recommendations for the use of their multiples and of certain other units | - | - |
| ISO 6433 | 1981 | Technical drawings - Item references | - | - |
| ISO/DIS 7200-1 | | Technical product documentation Document headers and title blocks Part 1: General structure and content | - | - |
| ISO/DIS 13584-1 | | Industrial automation systems and integration Parts library Part 1: Overview and fundamental principles | - | - |
| ISO 13584-26 | 2000 | Part 26: Logical resource: Information supplier identification | - | - |

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NORME
INTERNATIONALE
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CEI
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Première édition
First edition
2000-04

**Etablissement des nomenclatures
de composants**

Preparation of parts lists
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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PREPARATION OF PARTS LISTS

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62027 has been prepared by subcommittee 3B: Documentation, of IEC technical committee 3: Documentation and graphical symbols, in cooperation with subcommittee 1: Basic conventions, of ISO technical committee 10: Technical drawings, product definition and related documentation.

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

| | |
|-------------|------------------|
| FDIS | Report on voting |
| 3B/289/FDIS | 3B/295/RVD |

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 3.

Annexes A, B, C and D are for information only.

The committee has decided that the contents of this publication will remain unchanged until 2009. At this date, the publication will be

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

INTRODUCTION

A parts list is primarily used to list and specify the constituent objects (components) of the overall object or system to which the parts list applies.

It is generally recognized that information on products, installations and systems can be organized on the basis of tree-like, hierarchical structures. The structure represents the way in which an industrial process or a product is subdivided into smaller processes or sub-products, designated by the general term "objects". In the context of this International Standard, "object" refers to any entity treated in the process of design, engineering, realization, operation, maintenance, and demolition of a plant, installation, system, equipment, etc., or part thereof, in accordance with the definition in 3.1.1.

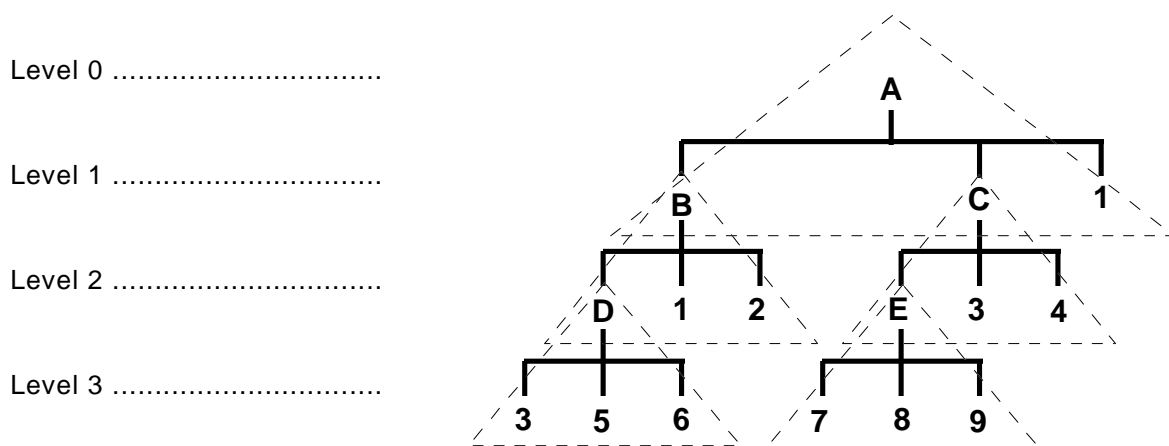
NOTE In the context of other standards, the term "item" is sometimes used with the same meaning as "object".

Depending on the "aspect" (see 3.1.3), different structures can be recognized, for example a "product-oriented structure", a "function-oriented structure" or a "location-oriented structure". A specific constituent object may be of relevance in one structure only, or in more than one. For further information on structures and structuring, see IEC 61346-1 and IEC 61346-4.

A parts list is implicitly or explicitly associated with such a structure. The parts list concept described in this International Standard is therefore applicable in all structures defined in accordance with IEC 61346-1.

Parts lists relevant to the physical manufacturing and assembly of a product, associated with the product-oriented structure, usually cover only one assembly level each, and the main assembly is normally described by a system of single-level parts lists. An example of a system of single-level parts lists is shown in the figure below.

Parts lists are often generated as reports from a database containing information on the entire structure.



IEC 395/2000

NOTE A is the main assembly; B, C, D and E are subassemblies; 1, 2, 3, etc. are parts. A, B, C, D and E are defined by single-level parts lists, the content of each indicated by means of dashed lines.

PREPARATION OF PARTS LISTS

1 Scope

This International Standard provides rules for the preparation of parts lists.

This standard is applicable to parts lists used in the design and engineering process intended to be supplied with the documentation.

NOTE The role of the parts list as a main document in structured documentation is described in IEC 62023.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

IEC 61082-1:1991, *Preparation of documents used in electrotechnology – Part 1: General requirements*
Amendment 2 (1996)

IEC 61346-1:1996, *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules*

IEC 61346-2:2000, *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes*

IEC 61355:1997, *Classification and designation of documents for plants, systems and equipment*

IEC 61360-1:1995, *Standard data element types with associated classification scheme for electric components – Part 1: Definitions – Principles and methods*

IEC 61360-4:1997, *Standard data element types with associated classification scheme for electric components – Part 4: IEC reference collection of standard data element types, component classes and terms*

IEC 62023:2000, *Structuring of technical information and documentation*

IEC 81714-2:1998, *Design of graphical symbols for use in the technical documentation of products – Part 2: Specification for graphical symbols in a computer sensible form including graphical symbols for a reference library, and requirements for their interchange*