

INTERNATIONAL STANDARD

IEC
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Second edition
2006-04

Preparation of documents used in electrotechnology –

Part 1: Rules

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PREPARATION OF DOCUMENTS USED
IN ELECTROTECHNOLOGY**
Part 1: Rules**FOREWORD**

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International Standard IEC 61082-1 has been prepared by IEC technical committee 3: Information structures, documentation and graphical symbols.

FDIS	Report on voting
3/771/FDIS	3/798/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 second edition is a consolidated version of IEC 61082 Parts 1 to 4 and cancels and replaces the first editions of them published correspondingly in 1991, 1993, 1996. This second edition constitutes technical revisions.

Compared to the first editions, the following substantial changes have been made:

- the scope of IEC 61082 has been gradually shifted from the rules of preparation of documents to the rules of presentation of information in documents;
- the information is split in a way to establish general rules that are valid for the preparation of all document kinds, to more specific rules for specific document kinds;
- terminology has been improved in a way that terms related to document kinds are clearly differentiated from those related to forms of presentations;
- the publication is focusing on rules that support the legibility of a document and not on the process of developing the document;
- examples in the publication are shown only to that extent necessary for the understanding of the concepts described. The use of comprehensive examples and diagrams are limited as such examples do not illustrate rules more efficiently than small sketches.

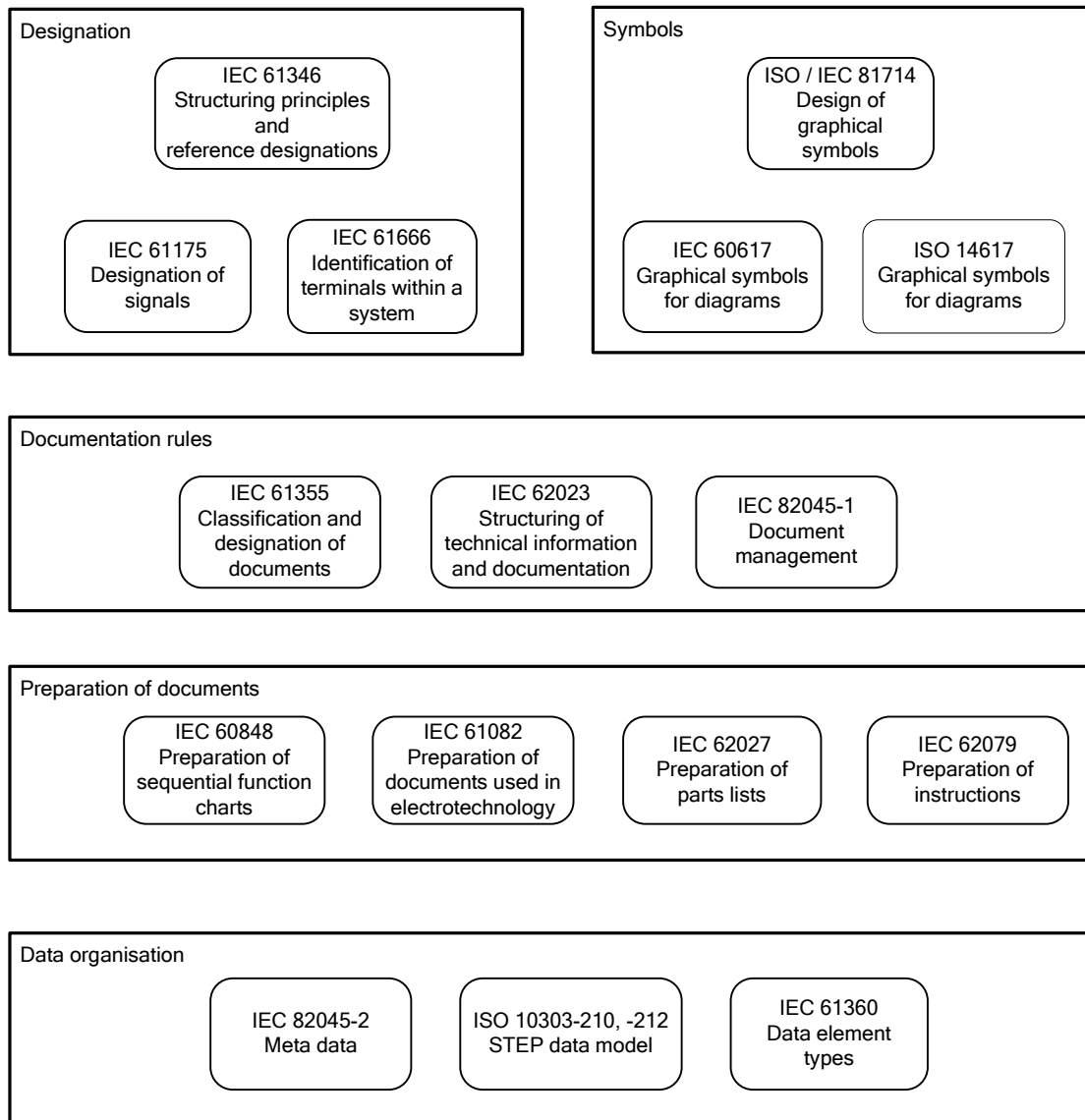
This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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- withdrawn;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.

INTRODUCTION

IEC 61082 deals with the presentation of information in documents. Part of this information is described in other International Standards. The following illustration provides an overview on the interrelation between some of these standards.



Examples in this part are intended to illustrate a given rule and are not necessarily representative of complete documents.

PREPARATION OF DOCUMENTS USED IN ELECTROTECHNOLOGY

Part 1: Rules

1 Scope

This part of IEC 61082 provides general rules and guidelines for the presentation of information in documents, and specific rules for diagrams, drawings and tables used in electrotechnology

Excluded from this standard are rules and guidelines for all kind of audio or video presentations.

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

IEC 60375:2003, *Conventions concerning electric and magnetic circuits*

IEC 60757:1983, *Code for designation of colours*

IEC 60617-DB: 2001, *Graphical symbols for diagrams*

IEC 60848:2002, *GRAFCET specification language for sequential function charts*

IEC 61175:2005, *Industrial systems, installations and equipment and industrial products- Designation of signals*

IEC 61286:2001, *Information technology – Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange*

IEC 61293:1994, *Marking of electrical equipment with ratings related to electrical supply – Safety requirements*

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

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

IEC 61666:1997, *Industrial systems, installations and equipment and industrial products – Identification of terminals within a system*

IEC 61804-1:2003, *Function blocks (FB) for process and control – Part 1: Overview of system aspects*

IEC 61804-2:2004, *Function blocks (FB) for process and control – Part 2: Specification of FB concept and Electronic Device Description Language (EDDL)*

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

IEC 62027:2000, *Preparation of parts lists*

IEC 62079:2001, *Preparation of instructions – Structuring, content and presentation*

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*

IEC 82045-1:2001, *Document management – Part 1: Principles and methods*

IEC 82045-2:2004, *Document management – Part 2: Metadata elements and information reference model*

ISO 31 (all parts), *Quantities and units*¹

ISO 128-22:1999, *Technical drawings – General principles of presentation – Part 22: Basic conventions and applications for leader lines and reference lines*

ISO 128-30:2001, *Technical drawings – General principles of presentation – Part 30: Basic conventions for views*

ISO 2594:1972, *Building drawings – Projection methods*

ISO 3098-5:1997, *Technical product documentation – Lettering – Part 5: CAD- lettering of the Latin alphabet, numerals and marks*

ISO 5807:1985, *Information processing – Documentation symbols and conventions for data, program and system flowcharts, program network charts and system resources charts*

ISO 5455:1979, *Technical drawings – Scales*

ISO 5456-2:1996, *Technical drawings – Projection methods – Part 2: Orthographic representations*

ISO 5457:1999, *Technical product documentation – Sizes and layout of technical drawing sheets*

ISO 10209-1:1992, *Technical product documentation – Vocabulary – Part 1: Terms relating to technical drawings: general and types of drawings*

ISO 10628:1997, *Flow diagrams for process plants – General rules*

ISO 14617 (all parts), *Graphical symbols for diagrams*

ISO 81714-1:1999, *Design of graphical symbols for use in the technical documentation of products – Part 1: Basic rules*

¹ Published as a compilation in ISO Standards Handbook, Quantities and units.