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Preparation of documents used in electrotechnology IFW Part 1: Rules (standards.iteh.ai)

Établissement des documents utilisés en électrotechnique – Partie 1: Règles ://standards.iteh.ai/catalog/standards/sist/129a81b3-4c7b-4bd9-92c1-2e90fid482ca2/iec-61082-1-2014





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Preparation of documents used in electrotechnology IEW Part 1: Rules (standards.iteh.ai)

Établissement des documents utilisés en électrotechnique –

Partie 1: Règles.ittps://standards.iteh.ai/catalog/standards/sist/129a81b3-4c7b-4bd9-92c1-2e90fd482ca2/iec-61082-1-2014

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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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.

It has the status of a horizontal standard in accordance with IEC Guide 108.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision and includes the following main technical changes:

- a) inclusion of presentation rules for wireless interconnections
- b) description of exceptional cases for the application of rules for positioning of reference designations in diagrams
- c) correction of errors and update of the normative references
- d) harmonization of definitions with respect to referenced publications.

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

FDIS	Report on voting
3/1189/FDIS	3/1196/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.

A list of all the parts in the IEC 61082 series, under the general title *Preparation of documents* used in electrotechnology, can be found on the IEC website.

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 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

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- replaced by a revised edition, or
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INTRODUCTION

IEC 61082-1 deals with the presentation of information in documents. Part of this information is described in other International Standards. Figure 1 provides an overview on the interrelation between some of these standards.

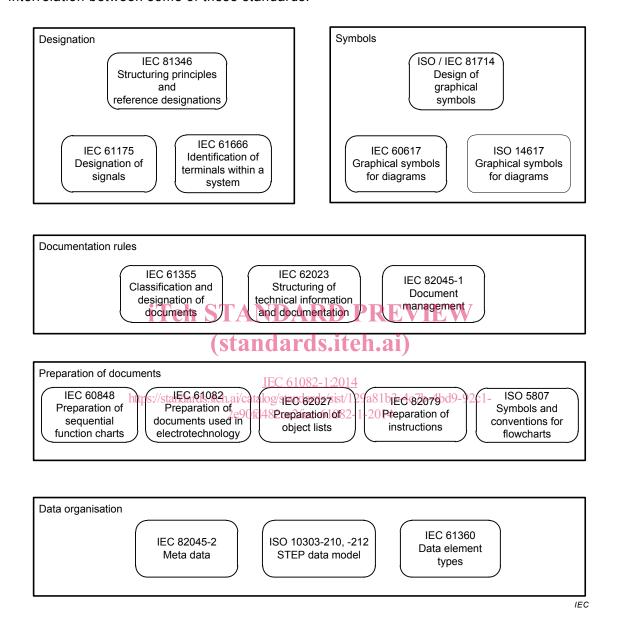


Figure 1 – Overview of standards related to the presentation of information in documents

Examples in this part of IEC 61082 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 establishes 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 part of IEC 61082 are rules and guidelines for all kind of audio or video or tactile presentations.

This horizontal standard is primarily intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 108.

One of the responsibilities of a technical committee is, wherever applicable, to make use of horizontal standards in the preparation of its publications. The contents of this horizontal standard will not apply unless specifically referred to or included in the relevant publications.

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The following documents, in whole or in part, are inormatively referenced in this document and are indispensable for its application affordated references, only the edition cited applies. For undated references, the latest2-edition:a2ofc-the2-referenced document (including any amendments) applies.

IEC 60027 (all parts), Letter symbols to be used in electrical technology

IEC 60375, Conventions concerning electric and magnetic circuits

IEC 60757, Code for designation of colours

IEC 60617, Graphical symbols for diagrams. Available from: http://std.iec.ch/iec60617

IEC 60848, GRAFCET specification language for sequential function charts

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

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

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

IEC 61355-1:2008, Classification and designation of documents for plants, systems and equipment – Part 1: Rules and classification tables

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

IEC 62023, Structuring of technical information and documentation

IEC 62027, Preparation of object lists, including parts lists

IEC 62491, Industrial systems, installations and equipment and industrial products – Labelling of cables and cores

IEC 81346-1, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules

IEC 81714-2:2006, 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, Document management – Part 2: Metadata elements and information reference model

IEC 82079-1, Preparation of instructions for use – Structuring, content and presentation – Part 1: General principles and detailed requirements

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

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

IEC 61082-1:2014

ISO 2594, Building drawings = Projection methods: sist/129a81b3-4c7b-4bd9-92c1-2e90fd482ca2/iec-61082-1-2014

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

ISO 5455, Technical drawings – Scales

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

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

ISO 80000 (all parts), Quantities and units

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

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE Annex C provides further information on different document kinds.

3.1 Basic terms

3.1.1

document

fixed and structured amount of information intended for human perception that can be managed and interchanged as a unit between users and systems

Note 1 to entry: The term document is not restricted to its meaning in a legal sense.

Note 2 to entry: A document can be designated in accordance with the type of information and the form of presentation, for example overview diagram, connection table, function chart.

[SOURCE: ISO/IEC 8613-1:1994, 3.58, modified – Notes 1 and 2 to entry have been added.]

3.1.2

document kind

type of document defined with respect to its specified content of information and form of presentation

Note 1 to entry: Sometimes the term document type is used for the same concept.

[SOURCE: IEC 61355-1:2008, 3.6]

3.1.3

documentation

collection of documents related to a given subject DRFVIEW

Note 1 to entry: This may include technical, commercial and/or other documents.

Note 2 to entry: The term subject may refer to objects in the sense of IEC 81346 or to other things to be addressed. $\underline{\text{IEC } 61082\text{--}12014}$

Note 3 to entry: A documentation can consist of documents, composite documents and document sets.

Note 4 to entry: The number and kinds of documents in a documentation can differ according to purpose.

[SOURCE: IEC 61355-1:2008, 3.5]

3.1.4

database

collection of data organized according to a conceptual structure describing the characteristics of the data and the relationships among their corresponding entities, supporting one or more application areas

[SOURCE: ISO/IEC 2382-1:1993, 01.08.05]

3.1.5

hyperlink

active link from one place in a presentation to another place in the same presentation or in another presentation

Note 1 to entry: A hyperlink is only active when the presentation of the document is managed by a computer.

Note 2 to entry: The hyperlink implies that a user can activate the link in order to get to the other point.

3.1.6

object

entity treated in a process of development, implementation, usage and disposal

Note 1 to entry: The object may refer to a physical or non-physical "thing", i.e. anything that might exist, exists or

did exist

Note 2 to entry: The object has information associated to it.