



SLOVENSKI STANDARD
SIST EN 61082-3:1997

01-december-1997

Preparation of documents used in electrotechnology - Part 3: Connection diagrams, tables and lists (IEC 1082-3:1993)

Preparation of documents used in electrotechnology -- Part 3: Connection diagrams, tables and lists

Dokumente der Elektrotechnik -- Teil 3: Verbindungspläne, Verbindungstabellen und Verbindungslisten

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Etablissement des documents utilisés en électrotechnique -- Partie 3: Schémas, tableaux et listes des connexions

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Ta slovenski standard je istoveten z: EN 61082-3:1994

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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UDC 621.3.061:003.62

Supersedes HD 246.5 S1:1977 and
HD 246.6 S2:1988

Descriptors: Electrotechnology, documents, connections, diagrams

ENGLISH VERSION

Preparation of documents used in electrotechnology
Part 3: Connection diagrams, tables and lists
(IEC 1082-3:1993)

Etablissement des documents
utilisés en électrotechnique
Partie 3: Schémas, tableaux et
listes des connexions

(CEI 1082-3:1993)

Erstellung von in der
Elektrotechnik verwendeten
Dokumenten
Teil 3: Schaltpläne, Tabellen
und Listen

(IEC 1082-3:1993)

This European Standard was approved by CENELEC on 1993-09-22.
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,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
Netherlands, Norway, Portugal, 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 document 3B(CO)50, as prepared by Sub-Committee 3B: Documentation, of IEC Technical Committee N° 3: Documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote in November 1992.

The reference document was approved by CENELEC as EN 61082-3 on 22 September 1993.

This European Standard replaces HD 246.5 S1:1977 and HD 246.6 S2:1988.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1994-12-01
- latest date of withdrawal of
conflicting national standards (dow) 1994-12-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.

ENDORSEMENT NOTICE

The text of the International Standard IEC 1082-3:1993 was approved by CENELEC as a European Standard without any modification.

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ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT 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.

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

IEC Publication	Date	Title	EN/HD	Date
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445	1988	Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumeric system	EN 60445	1990
446	1989*	Identification of conductors by colours or numerals	-	-
617-3	1983	Graphical symbols for diagrams Part 3: Conductors and connecting devices	-	-
750	1983	Item designation in electrotechnology	-	-
757	1983	Code for designation of colours	HD 457 S1	1985
1082-1	1991	Preparation of documents used in electrotechnology - Part 1: General requirements (corrigendum November 1993)	EN 61082-1	1993
1082-2	1993	Preparation of documents used in electrotechnology - Part 2: Function-oriented diagrams	EN 61082-2	1994

* IEC 446:1973 is harmonized as HD 324 S1:1977

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
1082-3

Première édition
First edition
1993-12

Etablissement des documents
utilisés en électrotechnique –

Partie 3:
Schémas, tableaux et listes des connexions

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Preparation of documents used
in electrotechnology –

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Part 3:
Connection diagrams, tables and lists

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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SECTION 4: INTERCONNECTION DIAGRAMS AND TABLES
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PREPARATION OF DOCUMENTS USED
IN ELECTROTECHNOLOGY –

Part 3: Connection diagrams, tables and 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 cooperation 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, 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.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

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International Standard IEC 1082-3 has been prepared by sub-committee 3B: Documentation, of IEC technical committee 3: Documentation and graphical symbols.

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

DIS	Report on voting
3B(CO)50	3B(CO)54

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

IEC 1082 consists of the following parts, under the general title: Preparation of documents used in electrotechnology:

- Part 1: 1991, General requirements;
- Part 2: 1993, Function-oriented diagrams;
- Part 3: 1993, Connection diagrams, tables and lists;
- Part 4: Location and installation documents (*under consideration*).

Other subjects are under consideration:

- *Parts lists;*
- *Spare parts lists;*
- *Instructions.*

IEC 1082 cancels and replaces IEC 113. Due to restructuring and extensions of the material, there is no exact correspondence between the parts of IEC 1082 and those of IEC 113. However, the following list gives an approximate indication:

- IEC 1082-1 corresponds to IEC 113-1, 113-3 and parts of IEC 113-7 and IEC 113-8;
- IEC 1082-2 corresponds to IEC 113-4 and parts of IEC 113-7 and IEC 113-8;
- IEC 1082-3 corresponds to IEC 113-5 and IEC 113-6.

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PREPARATION OF DOCUMENTS USED IN ELECTROTECHNOLOGY –

Part 3: Connection diagrams, tables and lists

Section 1: General

1.1 Scope

This International Standard provides rules for connection diagrams, tables and lists.

NOTE – According to IEC 1082-1, no difference between the terms *table* and *list* exists.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1082. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and the parties to agreements based on this part of IEC 1082 are encouraged to investigate the possibility of applying the most recent editions of the normative documents listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

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IEC 445: 1988, *Identification of equipment terminals and of terminations of certain designated conductors, including general rules for an alphanumeric system*

IEC 446: 1989, *Identification of conductors by colours or numerals*

IEC 617-3: 1983, *Graphical symbols for diagrams – Part 3: Conductors and connecting devices*

IEC 750: 1983, *Item designation in electrotechnology*

IEC 757: 1983, *Code for designation of colours*

IEC 1082-1: 1991, *Preparation of documents used in electrotechnology – Part 1: General requirements*

IEC 1082-2: 1993, *Preparation of documents used in electrotechnology – Part 2: Function-oriented diagrams*

Section 2 - Common rules for connection diagrams, tables and lists

2.1 General

Connection documents provide information on physical connections among, for example, components, devices, assemblies, and installations. Connection documents are used when assembling, installing or maintaining equipment.

Connection documents shall include information identifying the connection points of each connection and the conductors or cables used to make the connections. In the case of terminal connection documents, only one end need be shown.

Other information may be included as needed or as appropriate, and shall be included to the extent that is required for the intended use of the document. The following types of information shall be considered for inclusion:

- conductor or cable type information (for example, a recognized type designation, catalogue or part number, material, construction, size, colour of insulation, voltage rating, number of conductors, other technical data);
- conductor or cable number or item designation;
- identification or representation of the connection points (for example, item and/or terminal designation, pictorial representations, remote end designation);
- instruction for, or methods of, laying, routing, termination, attachment, twisting, screening, etc.;
- length of conductor or cable;
- signal designation and/or technical data about the signal; and
- special classification or information.

For identification of conductors by means of colours or numerals, see IEC 446. Colour codes shall be in accordance with IEC 757. For identification of items, see IEC 750.

The information may be given in diagrammatic or tabular form, or a combination of these, provided clarity is maintained.

Connection documents shall be prepared in accordance with the rules in IEC 1082-1 and in accordance with the rules given in this Part of IEC 1082.

If any special convention is used, for example, to indicate methods for attachment or removal, it should be shown or referenced in the document or in supporting documents.