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

Genormte Datenelementtypen mit Klassifikationsschema für elektrische Bauteile -- Teil 4: IEC Nachschlagewerk für genormte Datenelementtypen, Bauteilklassen und Terme

Types normalisés d'éléments de données avec plan de classification pour composants électriques -- Partie 4: Collection de référence CEI des types normalisés d'éléments de données, des classes de composants et des termes

Ta slovenski standard je istoveten z: EN 61360-4:1997

ICS:

29.100.20	Električni in elektromehanski sestavni deli	Electrical and electromechanical components
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61360-4

May 1997

ICS 29.100.20; 31.020

Descriptors: IEC reference, collection of standard data elements, component classes

English version

**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 61360-4:1997)**

Types normalisés d'éléments de
données avec plan de classification
pour composants électriques
Partie 4: Collection de référence CEI
des types normalisés d'éléments de
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Genormte Datenelementtypen mit
Klassifikationsschema für elektrische
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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.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Ref. No. EN 61360-4:1997 E

Foreword

The text of document 3D/48/FDIS, future edition 1 of IEC 61360-4, prepared by SC 3D, Data sets for libraries of electric component data, of IEC TC 3, Documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61360-4 on 1997-03-11.

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) 1998-01-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1998-01-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A to J and ZA are normative and annex K is informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61360-4:1997 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 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 3D/38/CDV ¹⁾		Part 2: EXPRESS dictionary schema	-	-
IEC 61360-3	1995	Part 3: Maintenance and validation procedures	-	-

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1) Future IEC 61360-2.

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

61360-4

Première édition
First edition
1997-04

**Types normalisés d'éléments de données
avec plan de classification pour
composants électriques –**

Partie 4:

**Collection de référence CEI des types
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**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**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

XE

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For price, see current catalogue*

CONTENTS

	Page
FOREWORD	5
Clause	
1 General	9
1.1 Scope and object	9
1.2 Normative references	9
1.3 Informative references	11
2 Definitions	11
3 Maintenance and validation methodology	11
4 Data element types	13
4.1 Data element type specification attributes	13
4.2 Data element type definitions	13
4.2.1 Index on letter symbol and/or short name	15
4.2.2 Index on keywords from the preferred names and synonymous names	15
5 Component classes	17
5.1 Component classification principles	17
5.2 Component class attributes	17
5.3 Component classification tables	19
5.4 Component class definitions	19
5.4.1 Index on preferred names	19
6 Terms	19
6.1 Term attributes	19
6.2 Term definitions	21
6.2.1 Index on keywords	21
6.2.2 Index on abbreviations	23
Annexes	
A Data element type definitions	25
B Index on letter symbol and/or short name of data element types	119
C Index on keywords from the preferred names and synonymous names of data element types	137
D Classification tables	159
E Component class definitions	165
F Index on preferred names	187
G Term definitions	191
H Index on keywords in terms	229
J Index on abbreviations of terms	233
K Documents referenced to in the definition of data element types, component classes and terms	235

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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**

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 Organisation 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 reports or guides and they are accepted by the National Committees in that sense.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61360-4 has been prepared by subcommittee 3D: Data sets for libraries of electric component data of IEC technical committee 3: Documentation and graphical symbols.

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

FDIS	Report on voting
3D/48/CDV	3D/51/RVC

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 61360 consists of the following parts, under the general title Standard data element types with associated classification scheme for electric components:

Part 1 : Definitions - Principles and methods

Part 2 : EXPRESS Dictionary schema

Part 3 : Maintenance and validation procedures

Part 4 : IEC reference collection of standard data element types, component classes and terms.

Annexes A, B, C, D, E, F, G, H and J form an integral part of this standard.
Annex K is for information only.

It is envisaged that this IS issue will be the last one as hard copy, but that subsequent amendments which will include data element types added by the validation and maintenance agencies will result in such a large volume that the bulk of the information will only be supplied in a computer sensible form.

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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

1 General

1.1 *Scope and object*

This part of IEC 61360 specifies within three dictionaries:

- the definitions of data element types for electric components and materials used in electrotechnical equipment and systems;
- the definitions of the component classes with associated classification scheme;
- the definitions of the terms used to clarify this classification scheme and those terms used in the data element type definitions which could possibly be misunderstood.

These definitions are related to electric components including electronic and electromechanical components and materials used in electrotechnical equipment and systems.

The object of this standard is to provide a set of uniquely-identified data element types with

- an unambiguously defined meaning;
- a defined value format, and
- a prescribed value domain for the non-quantitative data element types.

The classification scheme for components, the component class definitions (whereby the relevant and the valid characteristic properties by specific data element types are assigned to each class of components) and the terms definitions are used to define the data element types unambiguously and to make the entire set of data element types manageable.

The collection of data element types from this International Standard are meant for use in computerized systems for component selection and component management, parts list processing and computer-aided design, -manufacturing and -testing.

1.2 *Normative references*

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61360. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this part of 1360 are encouraged to investigate the possibility of applying the most recent editions of the normative documents below. Members of and ISO maintain registers of currently valid International Standards.

IEC 61360-1: 1995,	<i>Standard data element types with associated classification scheme for electric components — Part 1: Definitions - Principles and methods</i>
IEC 3D/38/CDV	<i>Standard data element types with associated classification scheme for electric components — Part 2: EXPRESS dictionary schema (future IEC 61360-2)</i>

IEC 61360-3: 1995, *Standard data element types with associated classification scheme for electric components — Part 3: Maintenance and validation procedures*

1.3 Informative references

All mentioned references in the definitions of the entities in this document are listed in the informative annex K.

2 Definitions

For the purpose of this part of IEC 61360, the definitions as given in clause 2 of IEC 61360-1 as well as those given in annex G apply.

3 Maintenance and validation methodology

The collection of entities as defined in this standard is a dynamic collection which needs actively to be maintained.

IEC 61360-3 specifies the procedures that shall be followed by the Validation Agency and the Maintenance Agency of the IEC vocabulary of standard technical data element types with associated classification scheme, component classes as defined by this classification scheme and terms associated with the value meaning of classifying data element types used to clarify the classification scheme and those terms used in the data element type definitions which could possibly be misunderstood.

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4 Data element types

4.1 Data element type specification attributes

The various attributes of the data element types are explained with the aid of figure 1. For a detailed description of the various attributes of the data element type definitions, see IEC 61360-1.

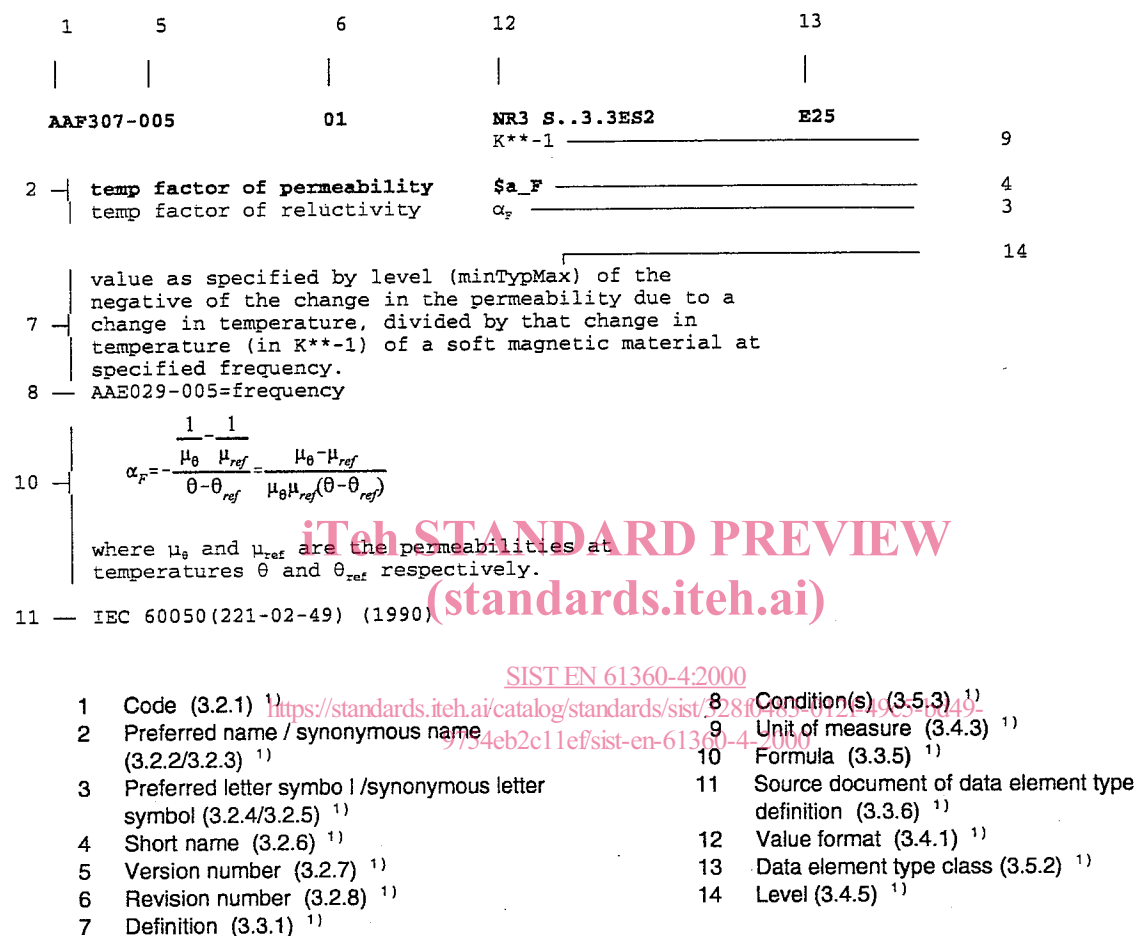


Figure 1 - Quantitative data element type specification attributes

4.2 Data element type definitions

In annex A the definitions of the data element types of materials and electric components, including electronic components, are given.

The definitions are presented in an alphanumerical sequence of the data element type identifier.

¹⁾ These subclauses refer to the subclauses in IEC 61360-1.
Other attributes as specified in IEC 61360-1 may be applicable for other definitions.

4.2.1 Index on letter symbol and/or short name

In annex B an index is given presenting the data element type definitions sorted with the letter symbol and/or short name as primary key. The letter symbol/short name are sorted according to: bracket <<(>>, dollar sign <<\$ >>, commercial add <<@ >>, absolute sign <<| >> and alphabetic. Greek letters are sorted according to the <<Latin writing >> of the Greek characters. The layout of this index as used in this standard is given in figure 2.

Short name / letter symbol	Identifier
drive feature	AAF014-005
dV _{com} /dt	AAE741-005
dV _{om} /dt	AAE741-005
dV _D /dt	AAE740-005
dV _p /dt	AAE741-005
dV _y /dt	AAE740-005
E	AAE180-005
E series	AAE030-005
E_abs	AAE430-005

Figure 2 - Index on letter symbol and/or short name

4.2.2 Index on keywords from the preferred names and synonymous names

In annex C an index is presented in which the significant keywords from the preferred names and synonymous names of the data element type definitions are taken as primary keys. The keywords are sorted according to: bracket <<(>> and further alpha-numeric. The layout of this index as used in this standard is given in figure 3.

Keyword	Preferred name / synonymous names	Identifier
(2-tau)	spurious signal level (2-tau)	AAE888-005
(3-tau)	spurious signal level (3-tau)	AAE879-005
(air)	(air) gap length	AAE778-005
(BH)_max	field strength at (BH)_max	AAF289-005
	flux density at (BH)_max	AAF293-005
(cap)	circuit application (cap)	AAE034-005
	temperature coefficient (cap)	AAE067-005
(capacitor)	(capacitor) dielectric	AAE004-006
(ceramic)	dielectric class (ceramic cap)	AAE038-005
(IEC)	resistance law (IEC)	AAE141-005
	voltage at class current (IEC)	AAE319-005

Figure 3 - Index on keywords from the preferred names and synonymous names

5 Component classes

5.1 Component classification principles

For the classification of components the principle of dividing the whole set of components into parts has been applied repeatedly, thereby creating a hierarchical tree of several levels of classes.

The goal of this classification scheme of components is to arrange the data element types in an unambiguous-structured way.

A detailed description of the classification principles is given in IEC 61360-1.

5.2 Component class attributes

The various attributes of the component classes are explained with the aid of figure 4. The layout is shown as used in this standard.

For a detailed description of the various attributes of the component class definitions see IEC 61360-1.

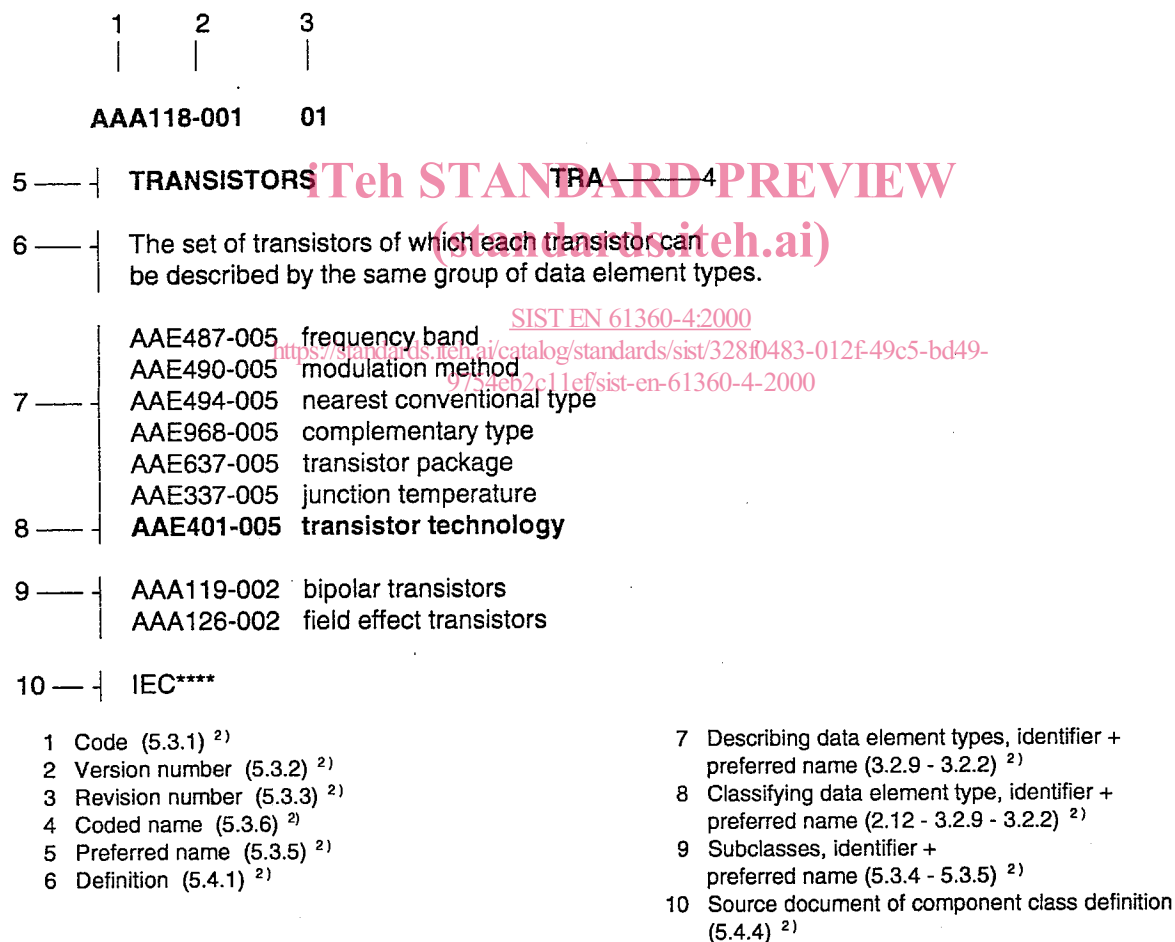


Figure 4 - Component class specification attributes

²⁾ These subclasses refer to the subclasses in IEC 61360-1.
Other attributes as specified in IEC 61360-1 may be applicable for other definitions.