INTERNATIONAL STANDARD

IEC 61360-1

2002-02

AMENDMENT 1
2003-12

Amendment 1

Standard data element types with associated classification scheme for electric components –

Part 1: Definitions – Principles and methods

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch

Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE M

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FOREWORD

This amendment has been prepared by subcommittee 3D: Data sets for libraries, of IEC technical committee 3: Information structures, documentation and graphical symbols.

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

FDIS	Report on voting
3D/120/FDIS	3D/127/RVD

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

The committee has decided that the contents of the base publication and its amendments will remain unchanged until 2005. At this date, the publication will be

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- withdrawn;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

Page 6

1.1 Scope and object

Delete, in the second paragraph, the final sentence:

Provision is also made for definition of the terms used in classification.

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1.3 Normative references

Insert the following normative reference:

IEC 60191-4:1999, *Mechanical standardization of semiconductor devices – Part 4: Coding system and classification into forms of package outlines for semiconductor device packages*

Page 8

2 Definitions

Delete, on page 9, definition 2.15 and renumber the remaining definitions accordingly.

Add the following new definitions:

2.21
shape
external form of a component package as given by the set of data element types

2.22
outline style
physical information enclosing the apparently plane figure presented by any object to sight, contour and/or external boundary of a component

2.23
package
term applied to an electric or electromechanical component which covers the physical outline of the component, including terminals and any protective material or casing

2.24
drawing
a drawing illustrates the meaning of a group of data element types describing the geometrical characteristics of a component

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3.2.2 Version number

Replace the existing list in the "Comments section" with the following new list:

- preferred name
- preferred letter symbol
- component class (see super/subclass as described in figure 10)
- value meaning
- short name
- preferred name of condition
- data element type
- value code
- reference class identifier
- note

3.2.3 Revision number

Replace the existing list in the "Comments" section with the following new list and sentence:

- synonymous name
- synonymous letter symbol
- remark
- data element type class
- formula
- source document of DET definition
- source document of value list
- spelling error in the text of the definition
- figure

The revision number shall be reset to the starting number 01 when the version number is changed.

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3.3.6 Source document of data element type definition

Add the following sentence to the third paragraph concerning Comments:

The value of this attribute shall have a maximum length of 80 characters

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Figure 5 – Attributes of the value list for data element type

Replace the existing Figure 5 by the following new Figure 5

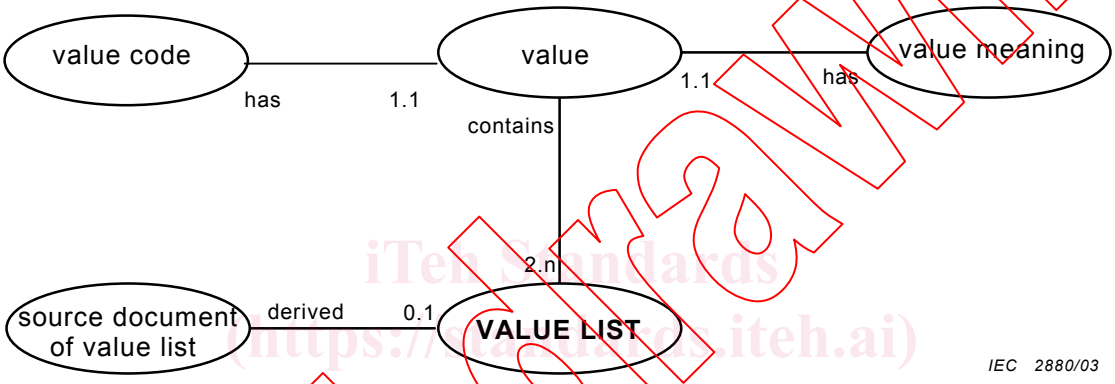

Figure 5 – Attributes of the value list for data element type

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3.4.2 Value format

Add, after the first sentence in the section marked "Comments", the following new sentence:

The value of this attribute shall have a maximum length of 80 characters.

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3.4.4.1 Value

Delete the following sentence from the section marked "Comments":

See also 6.4 for the relations between data element type, term and value

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3.4.4.2 Value code

In the section marked "Comments", replace the second paragraph by:

The value code of a classifying (non-quantitative) data element type shall have a maximum length of 18 alphanumeric characters.

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3.4.4.3 Value meaning

In the section marked "Comments", replace the existing text by the following text:

for classifying data element types the value meaning shall be defined in the note attribute of the class that has been defined by this classifying data element type.

The value of this attribute shall have a maximum length of 70 characters

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3.4.4.4 Source document of value list

Add the following section:

Comments: the value of this attribute shall have a maximum length of 80 characters

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3.4.5 Referenced class identifier

Replace the Attribute definition by:

Attribute definition: class identifier as defined in 5.5.

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5 Component class specification

Replace the last sentence of the 7th paragraph by the following text:

Classifying data element types are indicated by black dots, corresponding to the nodes of the tree, and the branches correspond to their values, the value meanings of which are defined in the note attribute of the class that has been defined by the classifying data element type.

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Insert the following new Subclause 5.1 and renumber the subsequent subclauses accordingly:

5.1 Shape of package outlines for components

The classification scheme for the shapes of package outlines is based on the following three characteristics of the package according to the codes defined in IEC 60191-4:

– outline style ;
– terminal position;
– terminal form.

Based on these characteristics, five levels of classification are defined as follows:

– level 1: outline style;
– level 2: terminal position;
– level 3: terminal form;
– level 4: terminal variant;
– level 5: body variant (optional).

The specification of each class at the lowest level of the classification tree of the component package shapes contains an attribute which makes a reference to a unique drawing. This associated drawing contains the graphical representation of the data element types describing the characteristic dimension parameters of that specific component package geometry.

Each drawing is unambiguously identified by an identifier. Also associated with each drawing is a descriptive designator which is derived from the coded name of the relevant class in the component package classification tree (see 6.1.5).

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Table 4 – List of attributes of class

Replace the existing Table 4 by the following new Table 4:

Table 4 – List of attributes of class

Attributes	Subclause
Code	5.4.1
Version number	5.4.2
Revision number	5.4.3
Preferred name	5.4.4
Coded name	5.4.5
Synonymous name	5.4.6
Definition	5.5.1
Note	5.5.2
Remark	5.5.3
Drawing reference	5.5.4
Source document of class definition	5.5.5