

SLOVENSKI STANDARD

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Industrijski sistemi, inštalacije in oprema ter industrijski izdelki - Načela strukturiranja in referenčne oznake - 1. del: Osnovna pravila (IEC 81346-1:2022)

Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules (IEC 81346-1:2022)

Industrielle Systeme, Anlagen und Ausrüstungen und Industrieprodukte - Strukturierungsprinzipien und Referenzkennzeichnung - Teil 1: Allgemeine Regeln (IEC 81346-1:2022)

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Systèmes industriels, installations et appareils, et produits industriels - Principes de structuration et désignations de référence - Partie 1: Règles de base (IEC 81346-1:2022)

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**Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations -
Part 1: Basic rules
(IEC 81346-1:2022)**

Systèmes industriels, installations et appareils, et produits industriels - Principes de structuration et désignations de référence - Partie 1: Règles de base
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Industrielle Systeme, Anlagen und Ausrüstungen und Industrieprodukte - Strukturierungsprinzipien und Referenzkennzeichnung - Teil 1: Allgemeine Regeln
(IEC 81346-1:2022)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 81346-1:2022 (E)**European foreword**

The text of document 3/1541/FDIS, future edition 2 of IEC 81346-1, prepared by IEC/TC 3 "Documentation, graphical symbols and representations of technical information" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 81346-1:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-02-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-05-04

This document supersedes EN 81346-1:2009 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 81346-1:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60297-3-100	NOTE Harmonized as EN 60297-3-100
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IEC 61175-1:2015	NOTE Harmonized as EN 61175-1:2015 (not modified)
IEC 61355-1:2008	NOTE Harmonized as EN 61355-1:2008 (not modified)
IEC 61666:2010	NOTE Harmonized as EN 61666:2010 (not modified)
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IEC 62023	NOTE Harmonized as EN 62023
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IEC 62424:2016	NOTE Harmonized as EN 62424:2016 (not modified)
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IEC 81714-3	NOTE Harmonized as EN 81714-3
IEC 82045-1	NOTE Harmonized as EN 82045-1
IEC 82045-2:2004	NOTE Harmonized as EN 82045-2:2005 (not modified)

IEC/IEEE 82079-1:2019	NOTE Harmonized as EN IEC/IEEE 82079-1:2020 (not modified)
ISO 3166-1	NOTE Harmonized as EN ISO 3166-1
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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 81346-2	2019	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 2: Classification of objects and codes for classes	EN IEC 81346-2	2019
ISO/IEC 646	-	Information technology; ISO 7-bit coded character set for information interchange	-	-
ISO 81346-10	— ¹	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designation - Part 10: Power plants	-	-
ISO 81346-12	2018	Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 12: Construction works and building services	-	-

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Part 1: Basic rules**

**Systèmes industriels, installations et appareils, et produits industriels –
Principes de structuration et désignations de référence –
Partie 1: Règles de base**

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CONTENTS

FOREWORD.....	8
INTRODUCTION.....	11
1 Scope.....	13
2 Normative references	13
3 Terms and definitions	14
4 Concepts	16
4.1 Object.....	16
4.2 Aspect	17
4.3 Systems.....	19
4.4 Structuring	19
4.5 Function.....	19
4.6 Products and components.....	20
4.7 Location.....	21
4.8 Types.....	21
4.9 Object occurrences and product individuals	21
4.10 Relations between concepts	22
5 Structuring principles	23
5.1 General.....	23
5.2 Forming structures.....	26
5.3 Function-oriented structure	28
5.4 Product-oriented structure.....	29
5.5 Location-oriented structure	30
5.6 Type-oriented structure.....	31
5.7 Structures based on "other aspects"	31
5.8 Structures based on more than one aspect	33
6 Construction of reference designations	34
6.1 General.....	34
6.2 Format of reference designations.....	35
6.2.1 Single level.....	35
6.2.2 Multi-level.....	36
6.2.3 Use of letter codes	36
6.3 Different structures within the same aspect.....	37
7 Reference designation set	37
8 Designation of locations	39
8.1 General.....	39
8.2 Assemblies	39
9 Presentation of reference designations	41
9.1 Reference designations	41
9.2 Reference designation set	42
9.3 Presentation of identifiers for the top-node.....	43
10 Labelling.....	44
11 Presentation of properties for an object	45
12 Application of the reference designation system	46
Annex A (informative) Information model on the reference designation system	47
A.1 General.....	47

A.2	EXPRESS-G model.....	47
A.3	Entity descriptions	48
A.3.1	object	48
A.3.2	aspect	48
A.3.3	object_occurrence	48
A.3.4	function_occurrence	48
A.3.5	product_occurrence	49
A.3.6	location_occurrence.....	49
A.3.7	type_occurrence	49
A.3.8	other_aspect_occurrence.....	49
A.3.9	reference_designation	49
A.3.10	single_level_reference_designation	49
A.3.11	multi_level_reference_designation.....	50
A.3.12	reference_designation_set.....	50
A.3.13	classification_scheme	50
A.3.14	class.....	50
A.3.15	top_node_identifier	51
A.3.16	product_individual	51
A.4	Enumerations.....	51
A.4.1	aspect_kind	51
A.4.2	81346_classification_domain	51
A.5	EXPRESS code	52
Annex B (informative)	Establishment and life cycle of objects	54
B.1	Establishment and validity of objects	54
B.2	Life cycle story of an object.....	55
B.2.1	Overview	55
B.2.2	Function aspect and function based on a function-oriented structure (A).....	55
B.2.3	Functional requirement specification FR1 (B).....	57
B.2.4	Location aspect and reference designation based on a location-oriented structure (C)	57
B.2.5	Component type specification CT1 (D).....	57
B.2.6	Function list for system design FL1 and location list for physical design LL1 (E)	58
B.2.7	Product specification PS1 (F)	58
B.2.8	Parts list for manufacturing/installation PL1 (G)	58
B.2.9	Transport specification (H).....	59
B.2.10	Installation (J).....	59
B.2.11	Commissioning (K)	59
B.2.12	Acceptance and individual log IL1 (L)	59
B.2.13	Operation and maintenance (M).....	59
B.2.14	Alternative motor product individual (N)	60
B.2.15	Alternative motor type and supplier CT2, PS2 (P)	60
B.2.16	Process modification (R).....	60
B.2.17	Location extension (S)	60
B.2.18	Etc. (T)	60
B.2.19	Closing down (U)	60
B.2.20	Dismantling (V).....	60
B.2.21	Life cycle end (X).....	61
B.3	Discussion on the concept "object"	61

B.3.1	Different meanings of "motor"	61
B.3.2	Definition of "object"	61
B.4	Discussion on different life cycles	62
Annex C	(informative) Manipulation of objects	63
C.1	General.....	63
C.2	Establishment and validity of objects	63
C.2.1	Structuring.....	63
C.2.2	Ending the structuring.....	64
C.2.3	Relations between closely related objects.....	64
C.2.4	The roles of the reference designations set	66
C.2.5	Example	66
C.3	Life cycle situations	71
C.3.1	One object for all aspects	71
C.3.2	One object for each aspect.....	72
Annex D	(informative) Interpretation of reference designations using different aspects	74
Annex E	(normative) Object represented with several top nodes in an aspect	77
E.1	General.....	77
E.2	Example using aspect shift in structures	77
E.3	Example using aspect-oriented structures	78
Annex F	(informative) Examples of multiple structures based on the same aspect	80
F.1	Different function-oriented structures for a process plant	80
F.2	Topographical location of a system versus locations within an assembly.....	81
F.3	Different structuring for different needs	82
Annex G	(normative) Incorporating sub-objects in object structures	84
G.1	General.....	84
G.2	Example.....	84
Annex H	(informative) Example of reference designations within a system.....	88
Annex I	(normative) Designation of relations between objects	94
I.1	General.....	94
I.2	Basic principles.....	94
I.3	Designation of associative relations	94
I.4	Classification of relation kinds.....	95
I.5	Example of designation of associative relations	95
Annex J	(normative) Requirements for developing sector-specific parts of the International Standard 81346 series	97
J.1	General.....	97
J.2	81346 framework information model.....	97
J.2.1	EXPRESS-G model	97
J.2.2	Entity descriptions	98
J.2.3	Enumerations – 81346_classification_domain.....	100
J.2.4	EXPRESS code	102
Annex K	(informative) Metadata resource for structure management.....	103
Annex L	(informative) Recommendations for documentation of the application of the reference designation system	105
Annex M	(informative) Fundamental ideas for this document.....	111
M.1	General.....	111
M.2	Basic requirements for a reference designation system.....	111
M.3	Required properties for a reference designation system.....	111

Annex N (informative) Relationship to other standards	112
N.1 General	112
N.2 Use together with ISO/IEC/IEEE 42010:2011	112
N.2.1 General	112
N.2.2 Architecture description and architecture description language	112
N.3 Use together with IEC 61355-1:2008	113
N.3.1 General	113
N.3.2 Document designation	113
N.4 Use together with IEC 61175-1:2015	114
N.4.1 General	114
N.4.2 Signal designation	114
N.5 Use together with IEC 61666:2010	115
N.5.1 General	115
N.5.2 Terminal designation	115
Bibliography	116

Figure 1 – International Standards providing a consistent system for designation, documentation and presentation of information	12
Figure 2 – Illustration of an object	17
Figure 3 – Aspects of an object	18
Figure 4 – Generic relation between the functionality of a technical system and a technical process	19
Figure 5 – Example of functionality of a technical system and a technical process	20
Figure 6 – Illustration of the concept's product, component, type, individual and occurrence	22
Figure 7 – Illustration of structural decomposition of an object from different aspects	24
Figure 8 – Illustration of a function-oriented decomposition and product-oriented composition	25
Figure 9 – Structure tree of object A (alternative 1)	26
Figure 10 – Structure tree of object A (alternative 2)	26
Figure 11 – Constituents in one aspect of object type 1	27
Figure 12 – Constituents in one aspect of object type 2	27
Figure 13 – Constituents in one aspect of object type 5	27
Figure 14 – Structure tree of object type 1	28
Figure 15 – Illustration of a function-oriented structure	29
Figure 16 – Illustration of a product-oriented structure	30
Figure 17 – Illustration of a location-oriented structure	31
Figure 18 – Example of the use of "other aspect"	32
Figure 19 – Example of the use of "other aspect"	33
Figure 20 – Illustration of an object accessible from three aspects, and where these aspects are used also for internal structuring	33
Figure 21 – Illustration of an object identified by means of one aspect and with sub-objects identified by means of another aspect	34
Figure 22 – Relation between a multi-level reference designation and its single-level reference designations	36
Figure 23 – Example of reference designation sets	38
Figure 24 – Example of designation of mounting planes inside a factory build assembly	40

Figure 25 – Examples of designation of locations inside a factory build assembly	41
Figure 26 – Different objects on a site identified with top node identifiers.....	44
Figure 27 – The common initial portion of reference designations	44
Figure 28 – Labelling of reference designations	45
Figure 29 – Presentation of a property in combination with a reference designation.....	45
Figure A.1 – EXPRESS-G model of the reference designation system	47
Figure B.1 – Development situations of objects.....	54
Figure B.2 – The object's life cycle	56
Figure C.1 – Three independently defined objects	65
Figure C.2 – Three separate objects with mutual relations	65
Figure C.3 – The three objects are merged into one.....	66
Figure C.4 – Overview of the process system	67
Figure C.5 – Tree-like structures of the system.....	67
Figure C.6 – Completed structures of the system.....	68
Figure C.7 – Structures with designated sub-objects.....	69
Figure C.8 – Structures with some merged-and-shared objects.....	69
Figure C.9 – Relations expressed by reference designation sets in which both designations are unambiguous.....	70
Figure C.10 – Relations expressed by reference designation sets in which one designation is ambiguous.....	71
Figure C.11 – Situations in the beginning of an object's life cycle accessible from three aspects.....	71
Figure C.12 – Situations in the beginning of the life cycle of closely related objects, each accessible from one aspect	72
Figure D.1 – Shift from function to product aspect.....	74
Figure D.2 – Shift from product to function aspect.....	74
Figure D.3 – Shift from product to location aspect.....	75
Figure D.4 – Shift from location to product aspect.....	75
Figure D.5 – Shift from function to location aspect	76
Figure D.6 – Shift from location to function aspect	76
Figure E.1 – Object represented with several independent top nodes in one aspect.....	77
Figure E.2 – Example of multi-level reference designations using different aspects of an object with several independent top nodes in one aspect	78
Figure E.3 – Object represented with several independent top nodes in one aspect using aspect-oriented structures	79
Figure F.1 – Illustration of the concept of additional functional views of an industrial process plant	80
Figure F.2 – Location-oriented structure of a plant.....	81
Figure F.3 – Location-oriented structure within an assembly unit	81
Figure F.4 – Location-oriented structures of the plant	82
Figure F.5 – Example of additional product-oriented structures	83
Figure G.1 – Sub-contractor's design	85
Figure G.2 – Receiving organization's design	85
Figure G.3 – Full structure of the receiving organization's design.....	86
Figure H.1 – Process flow diagram for a material handling plant	88

Figure H.2 – Overview diagram of part of the process system (=V1) and part of the power supply system (=Q1).....	89
Figure H.3 – Structure tree for parts of the material handling plant	90
Figure H.4 – Layout drawing of the components of the MCC =Q1=W1	91
Figure H.5 – Layout drawing indicating the location of the MCC	91
Figure H.6 – Layout drawing of the locations of the MCC =Q1=W1	92
Figure H.7 – Motor starter	92
Figure H.8 – Product- and location-oriented structure trees for the MCC.....	93
Figure I.1 – Structure of a relation designation.....	95
Figure J.1 – International Standard 81346 framework – An EXPRESS-G model	98
Figure N.1 – Principle of document designation	113
Figure N.2 – Signal designation and signal connection identification.....	114
Figure N.3 – Principle of terminal designation	115
Table 1 – Identification of types, occurrences and individuals within different contexts	23
Table 2 – Examples of single-level reference designations	35
Table 3 – Examples of multi-level reference designations with multiple prefix signs	37
Table 4 – Examples of presentations of multi-level reference designations	42
Table 5 – Presentation of reference designations of a reference designation set	43
Table C.1 – Possible reference designation sets	70
Table G.1 – Reference designations in the receiver's design	87
Table H.1 – Reference designation set for the constituents of the products MCC and motor starter	93
Table I.1 – Example of classification scheme for associative relations	96
Table I.2 – Examples of relation designations	96
Table K.1 – Metadata elements for reference designation systems	104
Table L.1 – Documentation on the application of the rules	105

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL SYSTEMS, INSTALLATIONS
AND EQUIPMENT AND INDUSTRIAL PRODUCTS –
STRUCTURING PRINCIPLES AND REFERENCE DESIGNATIONS –****Part 1: Basic rules****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 81346-1 has been prepared by IEC technical committee 3: Documentation, graphical symbols and representations of technical information, in close cooperation with ISO technical committee 10: Technical product documentation. It is an International Standard.

It is published as a double logo standard and has the status of a horizontal publication in accordance with IEC Guide 108.

This second edition cancels and replaces the first edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the scope includes a reference to IEC Guide 108 for being a horizontal publication;
- b) synchronization with IEC 81346-2:2019 and ISO 81346-12:2018;

- c) the introduction of the type aspect;
- d) introduction of an information model of the reference designation system;
- e) introduction of an information model for the framework of reference designation system to comply with International Standard 81346 series;
- f) introduction of recommendation for metadata for design structure management;
- g) introduction of rules and method for designation of relations between objects;
- h) introduction of requirements for development of sector-specific parts of the International Standard 81346 series;
- i) introduction of requirements for incorporation of sub-object in object structures;
- j) introduction of recommendations for documentation of the application of the International Standard 81346 series;
- k) introduced definition of new terms used;
- l) new rules added and existing rules modified;
- m) notes related to rules are converted to normative text as "Comment to Rule nn".

The text of this International Standard is based on the following documents:

Draft	Report on voting
3/1541/FDIS	3/1548/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table. In ISO, the standard has been approved by 10 members out of 11 having cast a vote.

The language used for the development of this International Standard is English.

A list of parts of the 81346 International Standard, published under the general title *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

In this document, *italic type* is used as follows:

- terms defined in Clause 3 (applies to the text of Clause 3 only);
- in the description of the EXPRESS model, entity names and attribute identifiers;
- commenting on the story from a structuring and reference designation perspective in Clause B.2.