SLOVENSKI STANDARD
SIST EN 81714-3:2002

01-oktober-2002

Design of graphical symbols for use in the technical documentation of products - Part 3: Classification of connect nodes, networks and their encoding (IEC 81714-3:1998)

Design of graphical symbols for use in the technical documentation of products -- Part 3: Classification of connect nodes, networks and their encoding

Gestaltung von graphischen Symbolen zur Anwendung in der technischen Produktdokumentation -- Teil 3: Klassifikation von Anschlußpunkten, Netzwerken und ihre Codierung

Création de symboles graphiques utilisables dans la documentation technique de produits -- Partie 3: Classification des noeuds de connexion des réseaux et leur codage

Ta slovenski standard je istoveten z: EN 81714-3:2001

ICS:

01.080.50	Grafiļ ni simboli za uporabo v tehniļ nih risbah v informacijski tehnologiji in telekomunikacijah ter v ustrezni tehniļ ni proizvodni dokumentaciji	Graphical symbols for use on information technology and telecommunications technical drawings and in relevant technical product documentation
01.110	Tehniļ na dokumentacija za izdelke	Technical product documentation
35.110	Omreževanje	Networking

SIST EN 81714-3:2002 **en**

EUROPEAN STANDARD **EN 81714-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM June 2001

ICS 01.080.50

English version

Design of graphical symbols for use in the technical documentation of products
Part 3: Classification of connect nodes, networks and their encoding
(IEC 81714-3:1998)

Création de symboles graphiques utilisables dans la documentation technique de produits
Partie 3: Classification des noeuds de connexion des réseaux et leur codage
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(IEC 81714-3:1998)

This European Standard was approved by CENELEC on 2000-08-01. 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, Czech Republic, 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

Ref. No. EN 81714-3:2001 E

Foreword

The text of the International Standard IEC 81714-3:1998, prepared by SC 3B, Documentation, of IEC TC 3, Documentation and graphical symbols, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 81714-3 on 2000-08-01 without any modification.

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) 2001-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2003-08-01

Endorsement notice

The text of the International Standard IEC 81714-3:1998 was approved by CENELEC as a European Standard without any modification.

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Création de symboles graphiques utilisables dans la documentation technique de produits –

Partie 3: Classification des noeuds de connexion des réseaux et leur codage

Design of graphical symbols for use in the technical documentation of products –

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DESIGN OF GRAPHICAL SYMBOLS FOR USE IN THE TECHNICAL DOCUMENTATION OF PRODUCTS -

Part 3: Classification of connect nodes, networks and their encoding

FOREWORD

1) The IEC (International Electrotechnical Commission) is a world–wide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, 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 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.

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.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 81714–3 has been prepared by IEC subcommittee 3B: Documentation, of IEC technical committee 3: Documentation and graphical symbols.

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

FDIS	Report on voting
3B/177/FDIS	3B/229/RVD

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

In order to collect all requirements concerning relevant graphical symbols within one single numerical series, ISO technical committee 145: Graphical symbols and IEC technical committee 3 in conjunction with ISO technical committee 10: Technical drawings, product definition and related documentation, agreed to publish all parts of this International Standard within the 81714 series.

The Technical Management Board of ISO and the Committee of Action of IEC have decided that, for each part of this series, one organization shall be chosen responsible. The technical committees involved have agreed not to change any part of International Standard 81714 without mutual agreement.

International Standard 81714 consists of the following parts, under the general title Design of graphical symbols for use in the technical documentation of products:

Part 1: 1996, Basic rules *(published by ISO actually as ISO/IEC 11714–1)*

NOTE - The Technical Management Board of ISO has decided to modify the actual number to ISO 81714–1 according to the agreement concerning a common numbering system between ISO and IEC.

Part 2: 1998, Specification for graphical symbols in a computer sensible form, including graphical symbols for a reference library, and requirements for their interchange *(published by IEC)*

Part 3: 1998, Classification of connect nodes, networks and their encoding *(published by IEC)*

Further parts specific to individual subject field requirements are under consideration.

DESIGN OF GRAPHICAL SYMBOLS FOR USE IN THE TECHNICAL DOCUMENTATION OF PRODUCTS —

Part 3: Classification of connect nodes, networks and their encoding

1 Scope

This part of International Standard 81714 specifies primarily requirements concerning the classification of connect nodes assigned to graphical symbols, being a representation of functional and product concepts. Due to the strong interrelation between the product and its corresponding graphical representation, identical classification principles are applied for both the classification of connect nodes of products as well as for the classification of networks and their representation by graphical symbols in computer-aided systems.

2 Definitions

For the purpose of this part the following definitions apply.

2.1 connect node; port; terminal: Point of access of an object intended for connection.

NOTE - The connection may refer to

a) a physical interface among conductors and/or contacts, or piping and/or duct systems to provide a signal or energy or material flow path;

b) an association of functional nature established among logical elements, software modules, etc. for conveying information.

2.2 (schematic) connect node: Location on a graphical symbol intended for connection.

NOTES

1 (Schematic) connect nodes represent the terminals of the object of interest.

2 A (schematic) connect node may not have a graphical shape. It may consist of an imaginary point associated with a graphical symbol.

2.3 connect-node code: Code of the type of connect node associated with an object.

2.4 network code: Code of the type of network interrelating connect nodes.

3 Classification of connect nodes and their encoding

For the purpose of classification of connect nodes the following main classes are defined and encoded as shown below.

B Magnetism

E Electricity

F Functional

G Acoustics

H Heat

L Linkage (mechanical)

M Matter (material)