SLOVENSKI STANDARD
SIST EN 60617-11:1997

01-december-1997

Grafični simboli za sheme - 11. del: Arhitekturni in topografski inštalacijski načrti sheme (IEC 60617-11:1996)

Graphical symbols for diagrams -- Part 11: Architectural and topographical installation plans and diagrams

Graphische Symbole für Schaltpläne -- Teil 11: Gebäudebezogene und topographische Installationspläne und Schaltpläne

Symboles graphiques pour schémas -- Partie 11: Schémas et plans d'installation, architecturaux et topographiques

Ta slovenski standard je istoveten z: EN 60617-11:1996

ICS:

01.080.40	Grafični simboli za uporabo v risbah, diagramih, načrtih v elektrotehniki in elektroniki ter v ustrezni tehnični proizvodni dokumentaciji	Graphical symbols for use on electrical and electronics engineering drawings, diagrams, charts and in relevant technical product documentation
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

SIST EN 60617-11:1997 sl

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60617-11

June 1996

ICS 01.080.30

Descriptors: Electrical installation, circuit diagram, electric diagram, electrical symbol

English version

Graphical symbols for diagrams
Part 11: Architectural and topographical installation plans and diagrams
(IEC 617-11:1996)

Symboles graphiques pour schémas
Partie 11: Schémas et plans d'installation, architecturaux et topographiques
(CEI 617-11:1996)

Graphische Symbole für Schaltpläne
Teil 11: Gebäudebezogene und topographische Installationspläne und Schaltpläne
(IEC 617-11:1996)

This European Standard was approved by CENELEC on 1996-03-05. 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

Ref. No. EN 60617-11:1996 E

Foreword

The text of document 3A/389/FDIS, future edition 2 of IEC 617-11, prepared by SC 3A, Graphical symbols for diagrams, of IEC TC 3, Documentation and graphical symbols, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60617-11 on 1996-03-05.

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) 1997-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-02-01

Endorsement notice

The text of the International Standard IEC 617-11:1996 was approved by CENELEC as a European Standard without any modification.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
617-11

Deuxième édition
Second edition
1996-05

Symboles graphiques pour schémas –

Partie 11: Schémas et plans d'installation, architecturaux et topographiques

Graphical symbols for diagrams –

Part 11: Architectural and topographical installation plans and diagrams

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

GRAPHICAL SYMBOLS FOR DIAGRAMS –

Part 11: Architectural and topographical installation plans and diagrams

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.

International Standard IEC 617-11 has been prepared by sub-committee 3A: Graphical symbols for diagrams, of IEC technical committee 3: Documentation and graphical symbols.

This second edition cancels and replaces the first edition published in 1983 and constitutes a technical revision.

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

FDIS	Reports on voting
3A(CO)184 3A(CO)191 3A/389/FDIS	3A(CO)190 3A(CO)199 3A/427/RVD

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

Annexes A and B are for information only.

INTRODUCTION

This part of IEC 617 forms an element of a series which deals with graphical symbols for diagrams.

The series consists of the following parts:

- Part 1: General information, general index. Cross-reference tables
- Part 2: Symbol elements, qualifying symbols and other symbols having general application
- Part 3: Conductors and connecting devices
- Part 4: Basic passive components
- Part 5: Semiconductors and electron tubes
- Part 6: Production and conversion of electrical energy
- Part 7: Switchgear, controlgear and protective devices
- Part 8: Measuring instruments, lamps and signalling devices
- Part 9: Telecommunications: Switching and peripheral equipment
- Part 10: Telecommunications: Transmission
- Part 11: Architectural and topographical installation plans and diagrams
- Part 12: Binary logic elements
- Part 13: Analogue elements

The scope and the normative references for this series are given in IEC 617-1.

Symbols have been designed in accordance with requirements given in the future ISO 11714-1*. The module size M = 2,5 mm has been used. For better readability smaller symbols in this standard have been enlarged to double size and are marked "200 %" in the symbol column. To save space larger symbols have been reduced to half size and are marked "50 %" in the symbol column. In accordance with the future ISO 11714-1, clause 7, symbol dimensions (for instance height) may be modified in order to make space for a greater number of terminals or for other layout requirements. In all cases, whether the size is enlarged or reduced, or dimensions modified, the thickness of the original line should be maintained without scaling.

The symbols in this standard are laid out in such a way that the distance between connecting lines is a multiple of a certain module. The module 2M has been chosen to provide enough space for a required terminal designation. The symbols have been drawn to a size convenient for comprehension, using the same grid consistently in the representation of all symbols.

All symbols are designed within a grid in a computer-aided draughting system. The grid which was used has been reproduced in the background of the symbols.

The indexes in Annex A and B include an alphabetic list of symbol names and their corresponding number. The symbol names are based on the description of the symbols of this part. A general index including an alphabetic list of symbols of all parts is given in IEC 617-1.

* At present, at the stage of Draft International Standard (document 3/563/DIS).

SYMBOLES GRAPHIQUES POUR SCHÉMAS

Onzième partie: Schémas et plans d'installation, architecturaux et topographiques

REGLES GENERALES

La présente publication regroupe des symboles spécialement créés pour les cartes et plans à petite échelle pour lesquels les symboles donnés dans les autres parties ne pourraient convenir. Ces derniers sont cependant également utilisables.

Sur les cartes, le centre d'un symbole, tel que ceux des sections 1, 2 ou 5 par exemple, doit correspondre à l'emplacement exact du centre de l'entité.

CHAPITRE I: CENTRALES ET POSTES ÉLECTRIQUES

SECTION 1 – SYMBOLES GÉNÉRAUX

1.1 Un cadre rectangulaire peut être utilisé au lieu d'un cadre carré.

1.2 Pour les cartes à petite échelle les surfaces hachurées peuvent être remplies.

GRAPHICAL SYMBOLS FOR DIAGRAMS

Part 11: Architectural and topographical installation plans and diagrams

GENERAL RULES

This publication contains symbols developed for small-scale maps or plans for which the symbols given in the other parts would not be quite suitable. The latter may however be used as well.

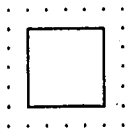
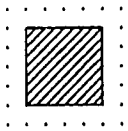
On maps, the centre of a symbol, such as those of sections 1, 2 or 5 for example, shall correspond with the exact location of the centre of the entity.

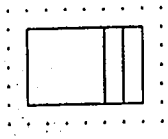
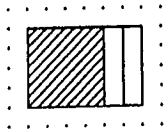
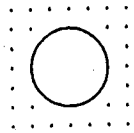
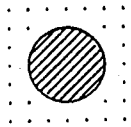
CHAPTER I: GENERATING STATIONS AND SUBSTATIONS

SECTION 1 – GENERAL SYMBOLS

1.1 A rectangular outline may be used instead of a square.

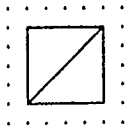
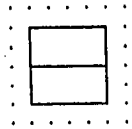
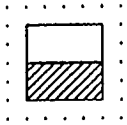
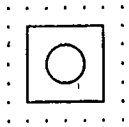
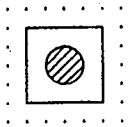
1.2 On small scale maps it may be desirable to replace the hatched areas in the symbols by completely filled-in areas.

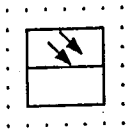
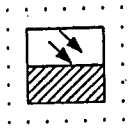
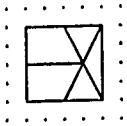
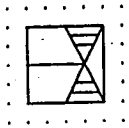
No.	Symbole En projet Planned	Symbol En service ou indéterminé In service or unspecified	Légende	Description
11-01-01			Centrale	Generating station
11-01-02				

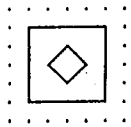
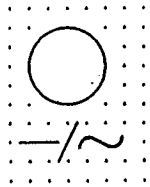
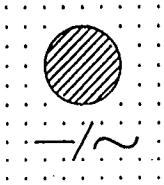
No.	Symbole / Symbol		Légende	Description
	En projet Planned	En service ou indéterminé In service or unspecified		
11-01-03 11-01-04			Centrale de production combinée d'énergie électrique et de chaleur	Combined electric and heat generating station
11-01-05 11-01-06			Sous-station Poste	Substation

SECTION 2 – TYPES PARTICULIERS DE CENTRALES ET POSTES ÉLECTRIQUES

SECTION 2 – SPECIFIC TYPES OF GENERATING STATIONS AND SUBSTATIONS

No.	Symbole En projet Planned	Symbol En service ou indéterminé In service or unspecified	Légende	Description
11-02-01 11-02-02			Centrale hydraulique	Hydroelectric generating station
11-02-03 11-02-04			Centrale thermique EXEMPLES: – charbon – lignite – fuel – gaz	Thermoelectric generating station EXAMPLES: – coal – lignite – oil – gas
11-02-05 11-02-06			Centrale nucléaire	Nuclear energy generating station

No.	Symbole / Symbol		Légende	Description
	En projet Planned	En service ou indéterminé In service or unspecified		
11-02-07 11-02-08			Centrale géothermique	Geothermic generating station
11-02-09 11-02-10			Centrale solaire	Solar generating station
11-02-11 11-02-12			Centrale éolienne	Wind generating station

No.	Symbole	Symbol	Légende	Description
	En projet Planned	En service ou indéterminé In service or unspecified		
11-02-13 11-02-14			Centrale à plasma MHD (magnéto-hydro-dynamique)	Plasma generating station MHD (magneto-hydrodynamic)
11-02-15 11-02-16			Sous-station de conversion Figurée pour courant continu converti en courant alternatif	Converting substation The symbol is shown with conversion from DC to AC