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**Modular order for the development of mechanical structures for electronic equipment practices - Part 2: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice (IEC 60917-2:1992)**

Modular order for the development of mechanical structures for electronic equipment practices -- Part 2: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice

Modulordnung für die Entwicklung von Bauweisen für elektronische Einrichtungen -- Teil 2: Strukturnorm Schnittstellen-Koordinationsmaße für die 25-mm-Bauweise

Ordre modulaire pour le développement des structures mécaniques pour les infrastructures électroniques -- Partie 2: Spécification intermédiaire - Dimensions de coordination pour les interfaces des infrastructures au pas de 25 mm

**Ta slovenski standard je istoveten z: EN 60917-2:1994**

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**ICS:**

31.240	Mehanske konstrukcije za elektronsko opremo	Mechanical structures for electronic equipment
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### ENGLISH VERSION

Modular order for the development of mechanical structures for electronic equipment practices  
Part 2: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice  
(IEC 917-2:1992)

Ordre modulaire pour le développement des structures mécaniques pour les infrastructures électroniques  
Partie 2: Spécification intermédiaire - Dimensions de coordination pour les interfaces des infrastructures au pas de 25 mm  
(CEI 917-2:1992)

Modulordnung für die Entwicklung von Bauweisen für elektronische Einrichtungen  
Teil 2: Strukturnorm Schnittstellen-Koordinationsmaße für die 25-mm-Bauweise  
(IEC 917-2:1992)

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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.

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

### FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 917-2:1992 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 60917-2 on 8 March 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-03-15
- latest date of withdrawal of conflicting national standards (dow) 1995-03-15

For products which have complied with the relevant national standard before 1995-03-15, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-03-15.

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

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The text of the International Standard IEC 917-2:1992 was approved by CENELEC as a European Standard without any modification.

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## ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD  
WITH THE REFERENCES OF THE RELEVANT 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.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
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297-3	1984	Dimensions of mechanical structures of the 482,6 mm (19 in) series Part 3: Subracks and associated plug-in units	HD 493.3 S2*	1993
916	1988	Mechanical structures for electronic equipment - Terminology	HD 550 S1	1989
917	1988	Modular order for the development of mechanical structures for electronic equipment practices	EN 60917	1990
917-0	1989	Part 0: Guide for the users of IEC Publication 917	EN 60917-0	1992

\* HD 493.3 S2 includes A1:1992 to IEC 297-3

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**Ordre modulaire pour le développement  
des structures mécaniques pour  
les infrastructures électroniques**

**Partie 2:**

**Spécification intermédiaire –  
Dimensions de coordination pour les interfaces  
des infrastructures au pas de 25 mm**

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**Modular order for the development  
of mechanical structures for electronic  
equipment practices**

**Part 2:**

**Sectional specification –  
Interface co-ordination dimensions for the 25 mm  
equipment practice**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MODULAR ORDER FOR THE DEVELOPMENT  
OF MECHANICAL STRUCTURES  
FOR ELECTRONIC EQUIPMENT PRACTICES**

**Part 2: Sectional specification –  
Interface co-ordination dimensions  
for the 25 mm equipment practice**

## FOREWORD

- 1) 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.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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This part of International Standard IEC 917 has been prepared by IEC Sub-Committee 48D: Mechanical structures for electronic equipment, of IEC Technical Committee No. 48: Electromechanical components for electronic equipment.

This standard forms Part 2 of IEC 917.

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

Six Months' Rule	Reports on Voting
48D(CO)22	48D(CO)26
48D(CO)23	48D(CO)27

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

In a forthcoming revision, IEC 916 (1988), IEC 917 (1988) and IEC 917-0 (1989) will be the object of IEC 917-1: Generic specification.

## INTRODUCTION

This part of IEC 917 is in accordance with the rules of the modular order determined in IEC 917, which is based on IEC Guide 103.

This part of IEC 917 specifies the co-ordination dimensions of a metric equipment practice containing a range of interface dimensions for cabinets, racks, subracks and chassis so that dimensional compatibility can be achieved where cabinets, racks, subracks and chassis of standard height, width and depth are installed in electronic equipment.

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## MODULAR ORDER FOR THE DEVELOPMENT OF MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT PRACTICES

### Part 2: Sectional specification – Interface co-ordination dimensions for the 25 mm equipment practice

#### 1 Scope and object

This part of IEC 917 may be applied to all fields of electronics in which equipment and installations with a modular design are used.

The object of this part of IEC 917 is to define a sectional specification for the mechanical structure of a 25 mm equipment practice to provide for dimensional compatibility at mechanical interfaces with related engineering applications, e.g. plug-in units, printed boards, components, instrumentation, furniture, rooms, buildings, etc.

It specifies the co-ordination dimensions and pitches for cabinets, racks, subracks and chassis of all types used for electronic equipment in, for example industrial electronics, information technology, measurement and control systems and communications.

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The chosen co-ordination dimensions for the mechanical structure for heights, widths and depths, lie within a homogeneous, metric modular three-dimensional grid as specified in IEC 917. In this part of IEC 917, the mounting pitches 25 mm and 2,5 mm have been used as a base to determine the interface co-ordination dimensions for the electronic equipment practice.

This creates the optimum conditions for the application of computer-aided methods throughout design and manufacture such as, for instance, computer-aided planning, development, manufacturing, testing and installation.

The cabinets and racks in this part of IEC 917 represent a specific structural form which takes into consideration for instance the installation of subracks and chassis.

The determined interface co-ordination dimensions for the overall outside and aperture dimensions of subracks provide space for independently created plug-in units to be installed. These plug-in unit dimensions shall follow the rules of IEC 917-0 and IEC 917 and are to be determined in detail specifications. The connector system used (0,5; 1,0; 2,0; 2,5 mm, etc. connector grid) and the special application requirements are to be determined in associated detail specifications.

Further standards may be used in conjunction with this part of IEC 917:

IEC 297-1: 1986, *Dimensions of mechanical structures of the 482,6 mm (19 inch) series – Part 1: Panels and racks.*

IEC 297-2: 1982, *Dimensions of mechanical structures of the 482,6 mm (19 inch) series – Part 2: Cabinets and pitches of rack structures.*