

### SLOVENSKI STANDARD SIST EN 60917-2-4:2010

01-junij-2010

Modulna ureditev za razvoj mehanskih struktur pri elektronski opremi - 2-4. del: Področna specifikacija - Usklajevanje vmesniških mer pri 25-milimetrski opremi - Prilagoditvene mere za okvire in šasije, uporabne v metričnih ohišjih ali stojalih v skladu z IEC 60297-3-100 (19 inč) (IEC 60917-2-4:2010)

Modular order for the development of mechanical structures for electronic equipment practices - Part 2-4: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice - Adaptation dimensions for subracks or chassis applicable in cabinets or racks in accordance with IEC 60297-3-100 (19 in) (IEC 60917-2-4:2010)

### (standards.iteh.ai)

Modulordnung für die Entwicklung von Bauweisen für elektronische Einrichtungen - Teil 2-4: Strukturnorm - Schnittstellen-Koordinationsmaße für die 25-mm-Bauweise - Anpassungsmaße für Baugruppenträger oder Einschübe, anwendbar in Schränken oder Gestellen nach IEC 60297-3-100 (19-Zoll) (IEC 60917-2-4:2010)

Ordre modulaire pour le développement des structures mécaniques pour les infrastructures électroniques - Partie 2-4: Spécification intermédiaire - Dimensions de coordination pour les interfaces des infrastructures au pas de 25 mm - Dimensions d'adaptation des bacs ou des châssis, applicables dans les baies ou les bâtis, conformément à la CEI 60297-3-100 (19 pouces) (CEI 60917-2-4:2010)

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31.240 Mehanske konstrukcije za

Mechanical structures for electronic equipment

elektronsko opremo

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SIST EN 60917-2-4:2010

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<u>SIST EN 60917-2-4:2010</u> https://standards.iteh.ai/catalog/standards/sist/93a2e651-7a05-4232-bf34-c1b1bfa21a9b/sist-en-60917-2-4-2010 EUROPEAN STANDARD

EN 60917-2-4

NORME FUROPÉENNE **EUROPÄISCHE NORM** 

**April 2010** 

ICS 31.240

English version

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

Part 2-4: Sectional specification -

Interface coordination dimensions for the 25 mm equipment practice -Adaptation dimensions for subracks or chassis applicable in cabinets or racks in accordance with IEC 60297-3-100 (19 in)

(IEC 60917-2-4:2010)

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

Partie 2-4: Spécification intermédiaire -Dimensions de coordination pour les

interfaces des infrastructures au pas de ARD p25-mm-Bauweise - Adaptionsmaße für 25 mm - Dimensions d'adaptation des

bacs ou des châssis, applicables dans les Site anwendbar in Schränken oder Gestellen baies ou les bâtis, conformément à la

CEI 60297-3-100 (19 pouces)

Einrichtungen -Teil 2-4: Strukturnorm -Schnittstellen-Koordinationsmaße für die

Modulordnung für die Entwicklung von

Bauweisen für elektronische

Baugruppenträger oder Einschübe,

nach IEC 60297-3-100 (19-Zoll)

SIST EN 60917-2-4:201(IEC 60917-2-4:2010) (CEI 60917-2-4:2010) standards.iteh.ai/catalog/standards/sist/93a2e651-7a05-4232-bf34c1b1bfa21a9b/sist-en-60917-2-4-2010

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European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

### **Foreword**

The text of document 48D/420/FDIS, future edition 1 of IEC 60917-2-4, prepared by SC 48D, Mechanical structures for electronic equipment, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60917-2-4 on 2010-04-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) 2011-01-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-04-01

Annex ZA has been added by CENELEC.

### **Endorsement notice**

The text of the International Standard IEC 60917-2-4:2010 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

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

IEC 60917-1 NOTE Harmonized as EN 60917-2-4-2010
IEC 60917-2-1 NOTE Harmonized as EN 60917-2-1.
IEC 61587-1 NOTE Harmonized as EN 61587-1.
IEC 61587-2 NOTE Harmonized as EN 61587-2.
IEC 61587-3 NOTE Harmonized as EN 61587-3.

### Annex ZA (normative)

## Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u>  | <u>Title</u>  | EN/HD                     | <u>Year</u> |
|--------------------|--------------|---|---------------------------|-------------|
| IEC 60297          | Series       | Mechanical structures for electronic<br>equipment - Dimensions of mechanical<br>structures of the 482,6 mm (19 in) series   | EN 60297                  | Series      |
| IEC 60297-3-100    | iTe          | Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets   | EN 60297-3-100            | -           |
| IEC 60297-3-106    | https://star | Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-106. Adaptation dimensions for subracks and chassis applicable with metric cabinets or racks in accordance with IEC 60917-2-1  | EN 60297-3-106<br>2-bf34- | -           |
| IEC 60917          | Series       | Modular order for the development of mechanical structures for electronic equipment practices   | EN 60917                  | Series      |
| IEC 60917-2-2      | -            | Modular order for the development of mechanical structures for electronic equipment practices - Part 2: Sectional specification - Interface coordination dimensions for the 25 mm equipment practice - Section 2: Detail specification - Dimensions for subracks, chassis, backplanes, front panels and plug-in units | EN 60917-2-2              | -           |

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IEC 60917-2-4

Edition 1.0 2010-03

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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

Part 2-4: Sectional specification – Interface co-ordination dimensions for the 25 mm equipment practice – Adaptation dimensions for subracks or chassis applicable in cabinets or racks in accordance with IEC 60297-3-100 (19 in)

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

Partie 2-4: Spécification intermédiaire – Dimensions de coordination pour les interfaces des infrastructures au pas de 25 mm – Dimensions d'adaptation des bacs ou des châssis, applicables dans les baies ou les bâtis, conformément à la CEI 60297-3-100 (19 pouces)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 2-4: Sectional specification –
Interface co-ordination dimensions for the 25 mm equipment practice –
Adaptation dimensions for subracks or chassis applicable in cabinets
or racks in accordance with IEC 60297-3-100 (19 in)

#### **FOREWORD**

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International Standard IEC 60917-2-4 has been prepared by subcommittee 48D: Mechanical structures for electronic equipment, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

**-4-**

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

| FDIS         | Report on voting |
|--------------|------------------|
| 48D/420/FDIS | 48D/424/RVD      |

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

A list of all parts of IEC 60917 series, under the general title *Modular order for the development of mechanical structures for electronic equipment practices*, can be found on the IEC website.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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### INTRODUCTION

The IEC 60917 series of standards provides definitions of mechanical structure and dimensions for metric cabinets, racks, subracks, chassis and plug-in units based on metric modular ordered dimensions. The later developed IEC 60917 series of standards, compared to IEC 60297, provides more logical design practices based on metric dimensioning.

The IEC 60297 series of standards also define structures and interface dimensions for 19 in cabinets, racks and their compatible subracks and chassis. Because of the longer history of the IEC 60297 series of standards and their applications, the combination of 19 in based cabinets, racks, subracks and chassis are broadly applied for all industrial electronic fields in the world.

Requests for combined applications with both mechanical structures, the IEC 60917 series (metric standard) and the IEC 60297 series (19 in standard), resulted in requirements to mount metric subracks or chassis into 19 in standard cabinets or racks and, vice versa, 19 in subracks or chassis into metric cabinets or racks.

To cope with the requirements and needs, it is required to develop definitions for appropriate adaptation dimensions of flanges for metric or 19 in subracks or chassis to mount them into cabinets or racks in accordance with 19 in or metric standard. And the definitions of adaptation dimensions bring economical solutions for installations of electronic equipment into existing cabinets or racks. Further, they provide guidance to electro-mechanical designers to develop systems suitable to be mounted into both IEC standard series flexibly.

To meet such market needs, this standard defines adaptation dimensions for metric subracks or chassis applicable for 19 in cabinets or racks. (Dimensions for the applications, where 19 in subracks or chassis are mounted on metric cabinets or racks, are defined in a separate standard, i.e. IEC 60297-3-106.)

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