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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60917-2-4:2010 sisaldab Euroopa standardi EN 60917-2-4:2010 ingliskeelset teksti.	This Estonian standard EVS-EN 60917-2-4:2010 consists of the English text of the European standard EN 60917-2-4:2010.
Standard on kinnitatud Eesti Standardikeskuse 31.05.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.04.2010.	Date of Availability of the European standard text 09.04.2010.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 31.240

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60917-2-4

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 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)

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

CENELEC

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 60917-2-4:2010 E

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.

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

IEC 60297-3-101	NOTE	Harmonized as EN 60297-3-101.
IEC 60917-1	NOTE	Harmonized as EN 60917-1.
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.

Publication	Year	Title	EN/HD	Year
IEC 60297	Series	Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series	EN 60297	Series
IEC 60297-3-100	-	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	-	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	-
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 co-ordination 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	-

CONTENTS

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.)

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)

1 Scope and object

This part of IEC 60917 specifies dimensions for mounting flanges of metric subracks or chassis that are to be mounted into 19 in cabinets or racks.

Additional dimensions for subracks or chassis are according to the IEC 60917 series, and for 19 in cabinets or racks to the IEC 60297 series.

EMC, seismic climatic and environmental requirements and tests, are defined in the IEC 61587 series.

The drawings used in this standard are not intended to indicate product design, only the specific dimensions that shall be used.

The terminology used complies with IEC 60917-1.

2 Normative references

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.

IEC 60297 (all parts), *Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series*

IEC 60297-3-100, *Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19in) series – Part 3-100: Basic dimensions of front panels, subracks, chassis, racks and cabinets*

IEC 60297-3-106, *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 to metric cabinets or racks in accordance with IEC 60917-2-1*

IEC 60917 (all parts), *Modular order for the development of mechanical structures for electronic equipment practice*

IEC 60917-2-2, *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 – Section 2: Detail specification – Dimensions for subracks, chassis, backplanes, front panels and plug-in units*