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Mechanical structures for electronic equipment -Dimensions of mechanical structures of the 482, 6 mm (19 in) series - Part 5-101: Subracks and associated in the second seco plug-in units; Injector/extractor handle



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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Käesolev Eesti standard EVS-EN 60297-5-	This Estonian standard EVS-EN 60297-5-
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19 inch series, 482, 6 mm series, junction boxes, levers, mechanic, mechanical properties, modular, plug boxes, plug-in units, printed-circuit boards, replaceability, representations, series, shields, structural systems, subracks, suitable for plug-in connection

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EUROPEAN STANDARD

EN 60297-5-101

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2001

ICS 31.240

English version

Mechanical structures for electronic equipment -Dimensions of mechanical structures of the 482,6 mm (19 in) series -Part 5-101: Subracks and associated plug-in units -Injector/extractor handle

(IEC 60297-5-101:2001)

Structures mécaniques pour équipement électronique -Dimensions des structures mécaniques de la série de 482,6 mm (19 in) Partie 5-101: Bacs et blocs enfichables associés - Poignée d'injecteur/d'extracteur (CEI 60297-5-101:2001) Bauweisen für elektronische Einrichtungen -Maße der 482,6-mm-(19-in-)Bauweise Teil 5-101: Baugruppenträger und zugehörige Baugruppen -Steck- und Ziehhebel (IEC 60297-5-101:2001)

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 48D/239/FDIS, future edition 1 of IEC 60297-5-101, 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 60297-5-101 on 2001-03-01.

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) 2004-03-01

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60297-5-101:2001 was approved by CENELEC as a European Standard without any modification.

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Annex ZA

(normative)

Normative references to international publications with their corresponding 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 (including amendments).

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

<u>Year</u>	litte	<u>EN/HD</u>	<u>Year</u>
1)	Dimensions of mechanical structures of the 482,6 mm (19 in) series Part 3: Subracks and associated plug-in units	HD 493.3 S2	19932)
1)	Part 4: Subracks and associated plug-in units - Additional dimensions	EN 60297-4 + A1	1995 ²⁾ 1999
1)	Part 5-100: Subracks and associated plug-in units - Design overview	EN 60297-5-100	2001 ²⁾
1)	Part 5-107: Subracks and associated plug-in units - Rear mounted plug-in units	EN 60297-5-107	2001 ²⁾
1)	Modular order for the development of mechanical structures for electronic equipment practices Part 1: Generic standard	EN 60917-1	1998 ²⁾
1)	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks, subracks and chassis	EN 61587-1	1999 ²⁾
	1) 1) 1) 1)	 Dimensions of mechanical structures of the 482,6 mm (19 in) series Part 3: Subracks and associated plug-in units Part 4: Subracks and associated plug-in units - Additional dimensions Part 5-100: Subracks and associated plug-in units - Design overview Part 5-107: Subracks and associated plug-in units - Rear mounted plug-in units Modular order for the development of mechanical structures for electronic equipment practices Part 1: Generic standard Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks, 	 Dimensions of mechanical structures of the 482,6 mm (19 in) series Part 3: Subracks and associated plug-in units Part 4: Subracks and associated plug-in units - Additional dimensions Part 5-100: Subracks and associated plug-in units - Design overview Part 5-107: Subracks and associated plug-in units - Rear mounted plug-in units Part 5-107: Subracks and associated plug-in units - Rear mounted plug-in units Modular order for the development of mechanical structures for electronic equipment practices Part 1: Generic standard Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks,

¹⁾ undated reference.

²⁾ valid edition at date of issue.

INTERNATIONAL STANDARD

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IEC 60297-5-101

First edition 2001-01

Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series –

Part 5-101: Subracks and associated plug-in units – Injector/extractor handle

Structures mécaniques pour équipement électronique – Dimensions des structures mécaniques de la série de 482,6 mm (19 in) –

Partie 5-101: Bacs et blocs enfichables associés – Poignée d'injecteur/d'extracteur



Reference number IEC 60297-5-101:2001(E)

Publication numbering

As from 1 January 1997 all IEC publications are issued with a designation in the 60000 series. For example, IEC 34-1 is now referred to as IEC 60034-1.

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IEC 60297-5-101

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Partie 5-101: Bacs et blocs enfichables associés – Poignée d'injecteur/d'extracteur

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT – DIMENSIONS OF MECHANICAL STRUCTURES OF THE 482,6 mm (19 in) SERIES –

Part 5-101: Subracks and associated plug-in units – Injector/extractor handle

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 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 specifications, 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.
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- 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 60297-5-101 has been prepared by subcommittee 48D: Mechanical structures for electronic equipment, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

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

FDIS	Report on voting
48D/239/FDIS	48D/248/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

IEC 60297-5 consists of the following parts under the general title: Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series:

Part 5-100, Subracks and associated plug-in units – Design overview

Part 5-101, Subracks and associated plug-in units – Injector/extractor handle

Part 5-102, Subracks and associated plug-in units – Electromagnetic shielding provision

Part 5-103, Subracks and associated plug-in units - Electrostatic discharge protection

Part 5-104, Subracks and associated plug-in units - Keying

Part 5-105, Subracks and associated plug-in units - Alignment and/or earth pin

Part 5-107, Subracks and associated plug-in units - Rear mounted plug-in units

The committee has decided that the contents of this publication will remain unchanged until 2004. At this date, the publication will be

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

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

This part of IEC 60297 is based on IEC 60297-3 (1984), its Amendment 1 (1992), and IEC 60297-4 (1995). It contains detail dimensions which ensure dimensional interchangeability of subracks and plug-in units requiring plug-in unit injector/extractors.

Por Hereits in the second seco This standard applies only to the mechanical structures for electronic equipment practices according to the IEC 60297 series.

MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENT – DIMENSIONS OF MECHANICAL STRUCTURES OF THE 482,6 mm (19 in) SERIES –

Part 5-101: Subracks and associated plug-in units – Injector/extractor handle

1 Scope and object

This part of IEC 60297 covers the extended features of a plug-in unit injector/extractor handle added to subracks and plug-in units with front panels according to IEC 60297-3, IEC 60297-4 and IEC 60297-5-107. By implementing this extended feature to the subrack and plug-in units, a new subrack and plug-in unit type (incompatible with IEC 60297-3 and IEC 60297-4) is created.

The purpose of this standard is to specify dimensions which will ensure dimensional interchangeability of subracks and associated plug-in units using the extended features of a plug-in unit injector/extractor handle added to IEC 60297-3, IEC 60297-4 and IEC 60297-5-107. For mechanical and climatic tests refer to IEC 61587-1.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60297. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60297 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60297-3, Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3: Subracks and associated plug-in units

IEC 60297-4, Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 4: Subracks and associated plug-in units – Additional dimensions¹

IEC 60297-5-100, Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 5-100: Subracks and associated plug-in units – Design overview

IEC 60297-5-107, Mechanical structures for electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 5-107: Subracks and associated plug-in units – Rear mounted plug-in units

IEC 60917-1, Modular order for the development of mechanical structures for electronic equipment practices – Part 1: Generic standard

IEC 61587-1, Mechanical structures for electronic equipment – Tests for IEC 60917 and IEC 60297 – Part 1: Climatic, mechanical tests and safety aspects for cabinets, racks, subracks and chassis

¹ There is a consolidated edition 1.1 (1999) that includes IEC 60297-4 (1995) and its amendment 1 (1999).