

SLOVENSKI STANDARD

SIST EN IEC 60297-3-110:2019

01-januar-2019

Mehanske konstrukcije za električno in elektronsko opremo - Mere mehanskih konstrukcij serije 482,6 mm (19 in) - 3-110. del: Stojala in omarice za stanovanjske pametne hiše (IEC 60297-3-110:2018)

Mechanical structures for electrical and electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) Series - Part 110: residential racks and cabinets for smart houses (IEC 60297-3-110:2018)

Mechanische Bauweisen für elektrische und elektronische Einrichtungen – Maße der 482,6-mm-(19-in-)Bauweise - Teil 3-110: Gestelle und Schränke im Wohnbereich für intelligente Häuser (IEC 60297-3-110:2018)

Structures mécaniques pour équipements électriques et électroniques - Dimensions des structures mécaniques de la série 482,6 mm (19 pouces) - Partie 3-110: Bâtis et baies domestiques pour maisons intelligentes (IEC 60297-3-110:2018)

Ta slovenski standard je istoveten z: EN IEC 60297-3-110:2018

ICS:

31.240	Mehanske konstrukcije za elektronsko opremo	Mechanical structures for electronic equipment
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60297-3-110

October 2018

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English Version

**Mechanical structures for electrical and electronic equipment -
Dimensions of mechanical structures of the 482,6 mm (19 in)
series - Part 3-110: Residential racks and cabinets for smart
houses
(IEC 60297-3-110:2018)**

Structures mécaniques pour équipements électriques et
électroniques - Dimensions des structures mécaniques de
la série 482,6 mm (19 pouces) - Partie 3-110: Bâtis et baies
domestiques pour maisons intelligentes
(IEC 60297-3-110:2018)

Mechanische Bauweisen für elektrische und elektronische
Einrichtungen - Maße der 482,6-mm-(19-in-)Bauweise - Teil
3-110: Gestelle und Schränke im Wohnbereich für
intelligente Häuser
(IEC 60297-3-110:2018)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60297-3-110:2018 (E)**European foreword**

The text of document 48D/668/FDIS, future edition 1 of IEC 60297-3-110, prepared by SC 48D "Mechanical structures for electrical and electronic equipment" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60297-3-110:2018.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2019-06-19
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SIST EN IEC 60297-3-110:2019

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 60917-1	-	Modular order for the development of mechanical structures for electronic equipment practices - Part 1: Generic standard	EN 60917-1	-
IEC 60917-2-5	-	Modular order for the development of mechanical structures for electronic equipment practices - Part 2-5: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice - Cabinet interface dimensions for miscellaneous equipment	EN 60917-2-5	-
IEC 61587-1	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor condition use and transportation	EN 61587-1	-
IEC 61587-2	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and 60297 - Part 2: Seismic tests for cabinets and racks	EN 61587-2	-
IEC 61587-3	-	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets and subracks	EN 61587-3	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Mechanical structures for electrical and electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series – Part 3-110: Residential racks and cabinets for smart houses

Structures mécaniques pour équipements électriques et électroniques – Dimensions des structures mécaniques de la série 482,6 mm (19 pouces) – Partie 3-110: Bâtis et baies domestiques pour maisons intelligentes

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

MECHANICAL STRUCTURES FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – DIMENSIONS OF MECHANICAL STRUCTURES OF THE 482,6 MM (19 IN) SERIES –

Part 3-110: Residential racks and cabinets for smart houses

FOREWORD

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International Standard IEC 60297-3-110 has been prepared by subcommittee 48D: Mechanical structures for electrical and electronic equipment, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
48D/668/FDIS	48D/665/RVD

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

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

A list of all parts in the IEC 60297-3 series, published under the general title *Mechanical structures for electrical and electronic equipment – Dimensions of mechanical structures of the 482,6 mm (19 in) series*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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- replaced by a revised edition, or
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INTRODUCTION

As a result of increasing worldwide environmental awareness, there are significant requirements for effective management of electricity supply between consumers, distributors and generators. The smart grid is considered one of the most important key technologies to realize an effective electricity supply channel. In the grid, smart meters connected with IP/cloud networking will be used to provide demand-response communication between suppliers and consumers.

In the residential sector, a movement similar to that for the management of electricity is ongoing also for other utility lines, and for such demands, many efforts for the development of specifications for smart houses have been proceeding, in the framework of the current development of smart cities. We can see such activities e.g. in SHR/HEMS program¹. In the near future, smart cities will require the deployment of smart houses, that by suitable adoption of platforms and technologies (e.g. cloud-based services, Internet of Things, etc.) will provide various services for residents, which are not only utility management, but also e.g. health care, security, entertainment and other services. The electronic equipment for the providing of public utility management and of these services apply broadband IP/cloud networking for their interactive data communication. In future, residential buildings will be equipped with such gateways, servers and home networks. This equipment has to be secured to be operated in a trouble-free environment, the same as telecommunication and internet access, to protect it from unsuitable environmental conditions in the residences.

This document defines 486,2 mm (19 in) residential racks and cabinets based on IEC 60297-3-100, suitable for installing equipment for smart houses in proper conditions².

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¹ SHR/HEMS (Smart House Roadmap/Home Energy Management System): Projects for development of international standards for smart houses, based on activities at ISO/IEC JTC 1/SC 25/WG 1: "Interconnection of information technology equipment".

² In actual applications, based on the volume of the equipment for the smart house and the applicable space in the residential building, rack or cabinet with smaller dimensions may be applied as subset of this standard.