BS EN 60715:2017

BSI Standards Publication

Dimensions of low-voltage switchgear and controlgear - Standardized mounting on rails for mechanical support of switchgear, controlgear and accessories (IEC 60715:2017)

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National foreword

This British Standard is the UK implementation of EN 60715:2017. It is identical to IEC 60715:2017. It supersedes BS EN 60715:2001, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/121/1, Low voltage switchgear and controlgear.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60715

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Supersedes EN 60715:2001

English Version

Dimensions of low-voltage switchgear and controlgear - Standardized mounting on rails for mechanical support of switchgear, controlgear and accessories (IEC 60715:2017)

Dimensions de l'appareillage à basse tension - Montage normalisé sur profilés-supports pour le support mécanique des appareillages et de leurs accessoires (IEC 60715:2017)

Abmessungen von Niederspannungsschaltgeräten - Genormte Tragschienen für die mechanische Befestigung von elektrischen Geräten in Schaltanlagen (IEC 60715:2017)

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

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European foreword

The text of document 121A/153/FDIS, future edition 2 of IEC 60715, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60715:2017.

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) 2018-06-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-09-01

This document supersedes EN 60715:2001.

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Endorsement notice

The text of the International Standard IEC 60715:2017 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

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 When 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.

Publication	Year	Title	EN/HD	Year
IEC 60947-7-2	-	Low-voltage switchgear and controlgear Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors	EN 60947-7-2	2009

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Annex ZZ

(informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission's standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 – Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks/note
1 a)	2, 3, 5, Annex A	
1 b)	5, Annex B	
1 c)	Refer to 2 a) to 2 d) and 3 a) to 3 c) of this table	
2 a)	-	Not applicable
2 b)	-	Not applicable
2 c)	4, 5, Annex A, Annex B	
2 d)	-	Not applicable
3 a)	4, 5, Annex A, Annex B	
3 b)	Annex B	
3 c)	Annex B	

WARNING 1: Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2: Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIMENSIONS OF LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR – STANDARDIZED MOUNTING ON RAILS FOR MECHANICAL SUPPORT OF SWITCHGEAR, CONTROLGEAR AND ACCESSORIES

FOREWORD

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International Standard IEC 60715 has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

This second edition cancels and replaces the first edition published in 1981 and Amendment 1:1995. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) the electrical function of the rail for protective earthing is covered by the relevant product standard.
b) The document has been editorially updated to bring it into compliance with the ISO/IEC Directives, Part 2:2016, and drawings have been updated to bring them in compliance with ISO tolerancing and drawing standards.

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It has the status of a horizontal standard in accordance with IEC Guide 108.

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

FDIS	Report on voting
121A/153/FDIS	121A/163/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.

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

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

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INTRODUCTION

This document is provided as a horizontal standard. It is necessary to define standardized mounting on rails for mechanical support of low-voltage switchgear and controlgear, electrical accessories, and similar devices.

The user wants them to be easy to fix, remove and rearrange.

Two methods are used for fixing a device on a rail:

– either directly by clipping on the rail (this method is particularly suitable for "top hat" rails or "G" rails);
– or by means of a variety of accessories such as sliding nuts and hooked or T-headed bolts (this method is particularly suitable for "C" rails).

In the case of "G" rails, the first of these methods has been mainly used for mounting terminal blocks which snap in and out of position and are clamped in rows by adjustable end stops.

The rail can take the form of a standard section as an integral part of the enclosure.

Rails are also available of composite sections that combine, for example, "top hat" and "C" section sizes thus accepting devices with various arrangements for mounting.

One or more rails can be used as necessary for fixing devices.

Since rail mounting can affect the performance of equipment, it can be advisable for equipment manufacturers to give guidance in their literature on the suitability for this form of mounting.

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