



NSAI
Standards

Irish Standard Recommendation
S.R. HD 60364-4-46:2016&A11:2017

Low-voltage electrical installations - Part 4-46: Protection for safety - Isolation and switching

S.R. HD 60364-4-46:2016&A11:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

HD 60364-4-46:2016/A11:2017

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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National Foreword

S.R. HD 60364-4-46:2016&A11:2017 is the adopted Irish version of the European Document HD 60364-4-46:2016, Low-voltage electrical installations - Part 4-46: Protection for safety - Isolation and switching

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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HARMONIZATION DOCUMENT

HD 60364-4-46:2016/A11

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

August 2017

ICS 29.120.50; 91.140.50

English Version

Low-voltage electrical installations - Part 4-46: Protection for safety - Isolation and switching

Installations électriques à basse tension - Partie 4-46 :
Protection pour assurer la sécurité - Sectionnement et
commande

Errichten von Niederspannungsanlagen - Teil 4-46:
Schutzmaßnahmen - Trennen und Schalten

This amendment A11 modifies the Harmonization Document HD 60364-4-46:2016; it was approved by CENELEC on 2017-05-31. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this amendment at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

HD 60364-4-46:2016/A11:2017 (E)

European foreword

This document (HD 60364-4-46:2016/A11:2017) has been prepared by CLC/TC 64, "Electrical installations and protection against electric shock".

The following dates are fixed:

- latest date by which this document has (dop) 2018-05-31
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2020-05-31
standards conflicting with this document
have to be withdrawn

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

HARMONIZATION DOCUMENT

HD 60364-4-46

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HARMONISIERUNGSDOKUMENT

November 2016

ICS 29.120.50; 91.140.50

Supersedes HD 384.4.46 S2:2001

English Version

**Low-voltage electrical installations -
Part 4-46: Protection for safety -
Isolation and switching**

Installations électriques à basse tension -
Partie 4-46 : Protection pour assurer la sécurité -
Sectionnement et commande

Errichten von Niederspannungsanlagen -
Teil 4-46: Schutzmaßnahmen -
Trennen und Schalten

This Harmonization Document was approved by CENELEC on 2016-07-04. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

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

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HD 60364-4-46:2016 (E)

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standard or by endorsement
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the document have to be withdrawn

This document supersedes HD 384.4.46 S2:2001.

HD 60364-4-46:2016 includes the following significant technical changes with respect to the previous edition: the contents of this document has been revised so that it only includes general requirements on measures for isolation and switching to provide for the safety of persons, livestock and property.

NOTE Complementarily the text of HD 60364-5-537:2016 has been adapted to give requirements on implementation of the measures provided in HD 60364-4-46:2016 and requirements for proper functioning, in terms of selection and erection of electrical equipment for isolation and switching.

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

HD 60364-4-46:2016 (E)

460 Introduction

460.1 Scope

This Harmonization Document deals with

- non-automatic local and remote isolation and switching measures which prevent or remove dangers associated with electrical installations or electrically powered equipment; and
- switching for the control of circuits or equipment.

460.2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

HD 60364-4-41, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock* (IEC 60364-4-41)

HD 60364-5-53:2015-11, *Low-voltage electrical installations – Part 5-53: Selection and erection of electrical equipment - Switchgear and controlgear*

HD 60364-5-557:2013 + A11:2016, *Low-voltage electrical installations – Part 5-557: Selection and erection of electrical equipment – Auxiliary circuits* (IEC 60364-5-55:2011/A1:2012)

461 General

461.1 According to the intended function(s), every device provided for isolation or switching shall comply with the relevant requirements of HD 60364-5-53.

NOTE Clause 537 of HD 60364-5-53:2015-11 refers to HD 384.5.537 S2, which is now replaced by HD 60364-5-537:2016.

461.2 In TN-C systems and in the TN-C part of the TN-C-S systems, the PEN conductor shall not be isolated or switched.

In TN-S systems and in the TN-S part of the TN-C-S systems, isolation or switching of the neutral conductor is not required if protective equipotential bonding is installed and either

- the neutral conductor is reliably connected to earth by a low resistance to meet the disconnection times of the protective devices according to the requirements of HD 60364-4-41 or
- the distribution system operator (DSO) declares that either the PEN or the N conductor of the supply is reliably connected to earth by a low resistance to meet the disconnection times of the protective devices according to the requirements of HD 60364-4-41.

462 Isolation

462.1 Each electrical installation shall have provisions for isolation from each supply.

462.2 Every circuit shall be provided with isolation means for all live conductors, except as detailed in 461.2.

Provisions may be made for isolation of a group of circuits by a common means, if the service conditions allow this.

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