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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

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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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This document is based on:	*Published:*
HD 60364-4-46:2016	2016-11-11

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2017-08-29	29.120.50 91.140.50 NOTE: If blank see CEN/CENELEC cover page

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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

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HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 60364-4-46:2016/A11

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.

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

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Ref. No. HD 60364-4-46:2016/A11:2017 E

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• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2020-05-31

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HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 60364-4-46

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

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Ref. No. HD 60364-4-46:2016 E

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European foreword

This document (HD 60364-4-46:2016) was prepared by CLC/TC 64 “Electrical installations and protection against electric shock”.

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)	2017-05-11
— latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-11-11

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.

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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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