

STN	Elektrické inštalácie nízkeho napätia Časť 7-709: Požiadavky na osobitné inštalácie alebo priestory Prístavy a podobné priestory Zmena A12	STN 33 2000-7-709/A12 33 2000
------------	---	---

Low-voltage electrical installations. Part 7-709: Requirements for special installations or locations. Marinas and similar locations

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/19

STN 33 2000-7-709 z júna 2010 sa bez tejto zmeny A12 môže používať do 10. 2. 2022.

Obsahuje: HD 60364-7-709:2009/A12:2019

129195

HARMONIZATION DOCUMENT
DOCUMENT D'HARMONISATION
HARMONISIERUNGSDOKUMENT

HD 60364-7-709:2009/A12

April 2019

ICS 29.020; 91.140.50

English Version

Low-voltage electrical installations - Part 7-709: Requirements
for special installations or locations - Harbours, marinas and
similar locations - Special requirements for shore supply to ships

Installations électriques à basse tension - Partie 7-709:
Exigences pour les installations et emplacements spéciaux
- Ports, ports de plaisance et emplacements analogues -
Exigences spécifiques pour l'alimentation à quai des
navires

Errichten von Niederspannungsanlagen - Teil 7-709:
Anforderungen für Betriebsstätten, Räume und Anlagen
besonderer Art - Häfen, Marinas und ähnliche Bereiche -
Besondere Anforderungen an die
Versorgungseinrichtungen für den elektrischen
Landanschluss von Schiffen

This amendment A12 modifies the Harmonization Document HD 60364-7-709:2009; it was approved by CENELEC on 2019-02-10. 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: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	4
Introduction	5
709.1 Scope	6
709.2 Normative references	6
709.3 Terms and definitions	7
709.31 Purposes, supplies and structure	9
709.312 Conductor arrangement and system earthing	9
709.312.2 Types of system earthing	9
709.312.2.1 TN-systems	9
709.313 Supplies	9
709.4 Protection for safety	9
709.41 Protection against electric shock	9
709.411.2 Requirements for basic protection	10
709.41.C.1 Non-conductive location	10
709.41.C.2 Protection by earth-free local equipotential bonding	10
709.411.2 Requirements for basic protection	10
709.413 Protective measure by electrical separation	10
709.5 Selection and erection of electrical equipment	10
709.512 Operational conditions and external influences	10
709.512.2 External influences	10
709.512.2.1.1 Presence of water (AD)	11
709.512.2.1.2 Presence of solid foreign bodies (AE)	11
709.512.2.1.3 Presence of corrosive or polluting substances (AF)	11
709.512.2.1.4 Impact (AG)	11
709.513 Accessibility	11
709.513.1 General	11
709.521 Types of wiring	12
709.521.7 Wiring	12
709.521.7.4 Underground cables	13
709.521.7.5 Overhead cables or overhead insulated conductors	13
709.531 Devices for protection against indirect contact by automatic disconnection of supply	13
709.531.2 Residual current protective devices (RCDs)	13
709.533 Devices for protection against overcurrent	13
709.536 Isolation and switching	14
709.536.2 Isolation	14

709.536.2.1	General	14
709.55	Other equipment.....	14
709.55.1	Socket-outlets	14
709.55.1.1	General	14
709.6	Maintenance.....	15
709.8	Functional Aspects	15
709.8.1	Energy Efficiency.....	15
Annex A (informative)	Ship connection	16
Annex B (informative)	Examples of supply.....	17
Annex C (informative)	Example of an instruction notice for a marina	21
Annex D (informative)	Example of an instruction notice for the harbour master.....	22
Annex ZA (normative)	Special national conditions To be checked by NCs	23
Annex ZB (informative)	A-deviations	25
Bibliography	26

European foreword

This document (HD 60364-7-709:2009/A12:2019) 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) 2020-02-10
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-02-10

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.

Introduction

The requirements of this part of HD 60364 series supplement, modify or replace certain of the general requirements contained in other parts of HD 60364 series.

The clause numbering appearing after 709 refers to the corresponding parts or clauses of other Parts 1 to 6 of HD 60364. Numbering of clauses does not, therefore, necessarily follow sequentially. Numbering of figures and tables takes the number of this part followed by a sequential number.

The absence of reference to a part or a clause means that the general requirements contained in other Parts 1 to 6 of HD 60364 are applicable.

709.1 Scope

The particular requirements specified in this part of the HD 60364 series apply only to circuits intended to supply floating crafts used for administrative, commercial, industrial, leisure or sport activities, hereinafter referred to as “ships”, in harbours, marinas and similar locations.

The particular requirements do not apply to:

- onshore installations dedicated to supply inland navigation vessels for commercial and administrative purpose;

NOTE 1 Such requirements are defined in HD 60364-7-730.

- shore connection systems dedicated to ships that require, to prevent blackout, synchronisation of their power generation with the shore power supply,

NOTE 2 Such requirements are defined in IEC/ISO/IEEE 80005-3.

- internal electrical installations of ships;
- the supply of houseboats when they are directly supplied from the public network;
- the supply of anchored ships;
- the supply of ships in dry docks;
- the supply of ships by on-shore stand-alone generating sets.

For the remainder of the electrical installation and for the electrical installations of houseboats, the general requirements of HD 60364 series together with the relevant particular requirements of HD 60364-7 apply.

709.2 Normative references

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.

EN 60309-1, *Plugs, socket-outlets and couplers for industrial purposes — Part 1: General requirements (IEC 60309-1)*

EN 60309-2, *Plugs, socket-outlets and couplers for industrial purposes — Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories (IEC 60309-2)*

EN 60309-4, *Plugs, socket-outlets and couplers for industrial purposes — Part 4: Switched socket-outlets and connectors with or without interlock*

EN 61386-24, *Conduit systems for cable management — Part 24: Particular requirements — Conduit systems buried underground (IEC 61386-24)*

EN 61558-2-4, *Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V — Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers (61558-2-4)*

HD 60364-4-41:2017, *Low-voltage electrical installations — Part 4-41: Protection for safety — Protection against electric shock*

HD 60364-4-43, *Low-voltage electrical installations — Part 4-43: Protection for safety — Protection against overcurrent*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN