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Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Switchgear and controlgear

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. 07/22

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HD 60364-5-53:2015 + A11:2017

English Version

**Low-voltage electrical installations - Part 5-53: Selection and
erection of electrical equipment - Switchgear and controlgear**

Installations électriques basse tension - Partie 5-53: Choix
et mise en oeuvre des matériels électriques - Appareillage

Errichten von Niederspannungsanlagen - Teil 5-53:
Auswahl und Errichtung elektrischer Betriebsmittel - Schalt-
und Steuergeräte

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

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

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HD 60364-5-53:2022 (E)**European foreword**

This document (HD 60364-5-53:2022) 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) 2022-11-13
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2025-05-13

This document supersedes HD 60364-5-53:2015, HD 60364-5-534:2016 and HD 60364-5-537:2016 and all of their amendments and corrigenda (if any).

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Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

1 Introduction

1.1 Scope

This part of HD 60364 deals with general requirements for isolation, switching, control and monitoring and with the requirements for selection and erection of the devices provided to fulfil such functions.

1.2 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 60038, *CENELEC standard voltages (IEC 60038)*

EN 60269 (series), *Low-voltage fuses (IEC 60269 series)*

EN 60309 (series), *Plugs, socket-outlets and couplers for industrial purposes (IEC 60309 series)*

HD 60364-1:2008, *Low-voltage electrical installations - Part 1: Fundamental principles, assessment of general characteristics, definitions (IEC 60364-1:2005)*

HD 60364-4-41:2007, *Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock (IEC 60364-4-41:2005)*

HD 60364-4-42, *Low voltage electrical installations - Part 4-42: Protection for safety - Protection against thermal effects (IEC 60364-4-42)*

HD 60364-4-43:2010, *Low-voltage electrical installations - Part 4-43: Protection for safety - Protection against overcurrent (IEC 60364-4-43:2008, mod. + corrigendum Oct. 2008)*

HD 60364-4-443:2016, *Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances - Clause 443: Protection against transient overvoltages of atmospheric origin or due to switching (IEC 60364-4-44:2007/A1:2015, mod.)*

HD 60364-4-46:2016, *Low-voltage electrical installations - Part 4-46: Protection for safety - Isolation and switching*

HD 60364-5-51:2009, *Electrical installations of buildings - Part 5-51: Selection and erection of electrical equipment - Common rules (IEC 60364-5-51:2005, mod.)*

HD 60364-5-54, *Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors (IEC 60364-5-54)*

EN 60669-1, *Switches for household and similar fixed-electrical installations - Part 1: General requirements (IEC 60669-1)*

EN 60669-2-1, *Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches (IEC 60669-2-1)*

EN 60669-2-2, *Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS) (IEC 60069-2-2)*

EN 60669-2-3, *Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time delay switches (TDS) (IEC 60669-2-3)*

EN 60669-2-4, *Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches (IEC 60669-2-4)*

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EN 60669-2-5, *Switches for household and similar fixed electrical installations - Part 2-5: Particular requirements - Switches and related accessories for use in home and building electronic systems (HBES) (IEC 60669-2-5)*

EN 60669-2-6, *Switches for household and similar fixed electrical installations - Part 2-6: Particular requirements - Fireman's switches for exterior and interior signs and luminaires (IEC 60669-2-6)*

EN 60670 (all parts), *Boxes and enclosures for electrical accessories for household and similar fixed electrical installations (IEC 60670)*

EN 60898-1, *Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation (IEC 60898-1)*

EN 60898-2, *Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 2: Circuit-breakers for a.c. and d.c. operation (IEC 60898-2)*

EN 60947-2:2006, *Low-voltage switchgear and controlgear - Part 2: Circuit-breakers (IEC 60947-2:2006)*

EN 60947-3, *Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3)*

EN 60947-4-1, *Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters (IEC 60947-4-1)*

EN 60947-4-2, *Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters (IEC 60947-4-2)*

EN 60947-4-3, *Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads (IEC 60947-4-3)*

EN 60947-5-1, *Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (IEC 60947-5-1)*

EN 60947-6-1, *Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment (IEC 60947-6-1)*

EN 60947-6-2, *Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS) (IEC 60947-6-2)*

EN 60947-7-1, *Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors (IEC 60947-7-1)*

EN 61008-1, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (IEC 61008-1)*

EN 61008-2-1, *Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) - Part 2-1: Applicability of the general rules to RCCB's functionally independent of line voltage (IEC 61008-2-1)*

EN 61009-1, *Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (IEC 61009-1)*

EN 61009-2-1, *Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) - Part 2-1: Applicability of the general rules to RCBO's functionally independent of line voltage (IEC 61009-2-1)*

EN 61095, *Electromechanical contactors for household and similar purposes (IEC 61095)*

EN 61439 (all parts), *Low-voltage switchgear and controlgear assemblies (IEC 61439, all parts)*

EN 61557-8, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 8: Insulation monitoring devices for IT systems (IEC 61557-8)*

EN 61557-9, *Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 9: Equipment for insulation fault location in IT systems (IEC 61557-9)*

EN 61643-11:2012, *Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods (IEC 61643-11:2011, mod.)*

CLC/TS 61643-12, *Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles (IEC 61643-12)*

EN 61984:2009, *Connectors - Safety requirements and tests (IEC 61984:2008)*

EN 61995 (series), *Devices for the connection of luminaires for household and similar purposes (IEC 61995 series)*

EN 62020, *Electrical accessories - Residual current monitors for household and similar uses (RCMs) (IEC 62020)*

EN 62208, *Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements (IEC 62208)*

EN 62305-1, *Protection against lightning - Part 1: General principles (IEC 62305-1)*

EN 62305-2, *Protection against lightning - Part 2: Risk management (IEC 62305-2)*

EN 62305-4, *Protection against lightning - Part 4: Electrical and electronic systems within structures (IEC 62305-4)*

EN 62423, *Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses (IEC 62423)*

EN 62606, *General requirements for arc fault detection devices (IEC 62606)*

EN 62626-1, *Low-voltage switchgear and controlgear enclosed equipment - Part 1: Enclosed switch-disconnectors outside the scope of IEC 60947-3 to provide isolation during repair and maintenance work (IEC 62626-1)*

IEC 60417, *Graphical symbols for use on equipment*

IEC 60884 (series), *Plugs and socket-outlets for household and similar purposes*

IEC 60906 (series), *IEC system of plugs and socket-outlets for household and similar purposes*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN