



# SLOVENSKI STANDARD

## SIST HD 60364-7-706:2007

01-oktober-2007

Nadomešča:

SIST HD 384.7.706 S1:2000

SIST IEC 60364-7-706:2006

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**Nizkonapetostne električne inštalacije - 7-706. del: Zahteve za posebne inštalacije ali lokacije - Omejeni prevodni prostori (IEC 60364-7-706:2005, spremenjen)**

Low-voltage electrical installations -- Part 7-706: Requirements for special installations or locations - Conducting locations with restricted movement

**iTeh STANDARD PREVIEW**

Errichten von Niederspannungsanlagen -- Teil 7-706: Anforderungen für Betriebsstätten, Räume und Anlagen besonderer Art - Leitfähige Bereiche mit begrenzter Bewegungsfreiheit

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Installations électriques basse tension -- Partie 7-706: Exigences pour les installations ou emplacements spéciaux - Enceintes conductrices exigües

**Ta slovenski standard je istoveten z: HD 60364-7-706:2007**

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**ICS:**

91.140.50 Sistemi za oskrbo z elektriko Electricity supply systems

**SIST HD 60364-7-706:2007**

**en**

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HARMONIZATION DOCUMENT  
DOCUMENT D'HARMONISATION  
HARMONISIERUNGSDOKUMENT

**HD 60364-7-706**

January 2007

ICS 29.020; 91.140.50

Supersedes HD 384.7.706 S1:1991

English version

**Low-voltage electrical installations -  
Part 7-706: Requirements for special installations or locations -  
Conducting locations with restricted movement  
(IEC 60364-7-706:2005, modified)**

Installations électriques basse tension -  
Partie 7-706: Exigences pour les  
installations ou emplacements spéciaux -  
Enceintes conductrices exiguës  
(CEI 60364-7-706:2005, modifiée)

Errichten von Niederspannungsanlagen -  
Teil 7-706: Anforderungen  
für Betriebsstätten, Räume und Anlagen  
besonderer Art -  
Leitfähige Bereiche mit begrenzter  
Bewegungsfreiheit  
(IEC 60364-7-706:2005, modifiziert)

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This Harmonization Document was approved by CENELEC on 2006-02-01. 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.

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

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

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

**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## FOREWORD

The text of document 64/1478/FDIS, future edition 2 of IEC 60364-7-706, prepared by IEC TC 64, Electrical installations and protection against electric shock, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote.

The combined texts were approved by CENELEC as HD 60364-7-706 on 2006-02-01.

This Harmonization Document supersedes HD 384.7.706 S1:1991.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2006-08-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2007-08-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2009-02-01

Annexes ZA and ZB have been added by CENELEC.

In this standard, the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

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## INTRODUCTION

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

The clause numbering of part 706 follows the pattern and corresponding references of HD 60364. The numbers following the particular number of part 706 are those of the corresponding parts, or clauses of HD 60364.

The absence of reference to a part, a clause or a subclause means that the corresponding general requirements are applicable.

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## 706.1 Scope

The particular requirements of this part apply to fixed equipment in conducting locations where movement of persons is restricted by the location, and to supplies for portable equipment for use in such locations.

A conducting location with restricted movement is comprised mainly of metallic or other conductive surrounding parts, within which it is likely that a person will come in contact through a substantial portion of his body with the metallic or other conductive surrounding parts and where the possibility of interrupting this contact is limited.

The particular requirements of this part do not apply to location which allows a person freedom of bodily movement to work, enter, and leave the location without physical constraint.

NOTE For installation and use of arc welding equipment, see HD 407 and HD 427.

### 706.4.41 Protection for safety – Protection against electric shock

#### 706.410.3 General requirements

**706.410.3.5** The measures of protection by means of obstacles and by placing out of reach are not permitted.

New subclause:

**706.410.3.10** In conducting locations with restricted movement the following protective measures apply to circuits supplying the following current-using equipment:

a) For the supply to hand-held tools and portable equipment:

- SELV (Clause 414), or
- electrical separation (Clause 413) subject to only one item of equipment being connected to a secondary winding of the isolating transformer.

NOTE An isolating transformer may have several secondary windings.

b) For the supply to handlamps:

- SELV (Clause 414).

NOTE A fluorescent luminaire with built-in step-up transformer with electrically separated windings transformer supplied at SELV is equally permitted.

c) For the supply to fixed equipment:

- automatic disconnection of the supply (Subclause 411.3.2) with supplementary equipotential bonding (Subclause 411.3.1) that shall connect exposed-conductive-parts of fixed equipment and the conductive parts of the location, or
- SELV (Clause 414), or
- PELV (Clause 414) where equipotential bonding shall be provided between all exposed-conductive-parts, all extraneous-conductive-parts inside the conducting location with restrictive movement, and the connection of the PELV system to earth, or
- electrical separation (Clause 413) subject to one item of equipment being connected to a secondary winding of the isolating transformer, or
- by use of Class II equipment or equipment having equivalent insulation (Clause 412) provided the supplying circuits are protected by additional protection by the use of residual current devices (Clause 415.1) with a rated residual operating current not exceeding 30 mA.

NOTE A fluorescent luminaire with built-in step-up transformer with electrically separated windings and supplied at SELV is equally permitted.

**706.411.3.1 Protective earthing and protective equipotential bonding**

New subclause:

**706.411.3.1.3 Equipotential bonding and functional earth**

If a functional earth is required for certain equipment, for example measuring and control apparatus, equipotential bonding shall be provided between all exposed-conductive-parts, extraneous-conductive-parts inside the conducting location with restrictive movement and the functional earth.

**704.413 Protective measure: electrical separation**

The source with protective separation in accordance with 413.3.2 shall be situated outside the conducting location with restrictive movement, unless the source is part of the fixed installation within the conducting location with restrictive movement.

**706.414 Protective measure: extra-low-voltage provided by SELV and PELV****706.414.3 Sources for SELV and PELV**

New subclause:

**706.414.3.6** Sources for SELV and PELV shall be situated outside the conducting location with restrictive movement, unless they are part of the fixed installation within the conducting location with restricted movement as provided by item c) of 706.410.3.10.

**706.414.4 Requirements for SELV and PELV circuits**

The following requirement is added:

**706.414.4.6** The requirement for basic protection (protection against direct contact) in accordance with 414.4.5 shall be provided, irrespective of the nominal voltage.

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## Annex ZA (normative)

### Special national conditions

**Special national condition:** National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

(Sub)clause    Special national condition

#### Ireland

**706.410.3.10** Electrical separation is not permitted in locations with restricted movement.

#### Italy

**706.410.3.10** PELV is not admitted.

## iTeh STANDARD PREVIEW (standards.iteh.ai) Annex ZB (informative) A-deviations

**A-deviation:** National deviation due to regulations the alteration of which is for the time being outside the competence of the CENELEC national member.

This Harmonization Document does not fall under any Directive of the EC.

In the relevant CENELEC countries these A-deviations are valid instead of the provisions of the Harmonization Document until they have been removed.

(Sub)clause    Deviation

#### France

According to French legislation "Arrêté of 08 December 2003" the following applies:

**706.410.3.10** PELV is not permitted in conducting locations with restricted movement.

#### Switzerland

According to Swiss legislation "Weisung des Eidgenössischen Starkstrominspektorates STI 608.0702 d" the following applies in addition:

**706.410.3.10** The use of hand-held tools, luminaires and portable equipment for tank cleaning services are permitted under conditions different from those specified in Subclause 706.410.3.10.