



SLOVENSKI STANDARD

SIST HD 384.5.56 S1:2000

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Električne inštalacije v zgradbah - 5. del: Izbira in namestitvev električne opreme - 56. poglavje: Varnostno napajanje (IEC 60364-5-56:1980, spremenjen)

Electrical installations of buildings -- Part 5: Selection and erection of electrical
equipment -- Chapter 56: Safety services

Elektrische Anlagen von Gebäuden -- Teil 5: Auswahl und Errichtung elektrischer
Betriebsmittel -- Kapitel 56: Elektrische Anlagen für Sicherheitszwecke

Installations électriques des bâtiments -- Partie 5: Choix et mise en oeuvre des matériels
électriques -- Chapitre 56: Service de sécurité

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91.140.50 Sistemi za oskrbo z elektriko Electricity supply systems

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en

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ENGLISH VERSION

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ELECTRICAL INSTALLATIONS OF BUILDINGS
PART 5: SELECTION AND ERECTION OF ELECTRICAL EQUIPMENT
CHAPTER 56: Supplies for safety services

Installations électriques des bâtiments. Cinquième Partie: Choix et mise en oeuvre des matériels électriques. Chapitre 56: Alimentations pour services de sécurité

Elektrische Anlagen von Gebäuden Teil 5: Auswahl und Errichtung elektrischer Betriebsmittel Kapitel 56: Elektrische Anlagen für Sicherheitszwecke

BODY OF HD

The Harmonization Document consists of:

- IEC 364-5-56 (1980) edition 1, , together with
- the CENELEC common modifications prepared by CENELEC/TC 64, appended

This Harmonization Document was approved by CENELEC on 13 April 1983.

The English and French versions of this HD are provided by the text of the IEC publication and the German version is the official translation of the IEC text. All texts prepared by CENELEC exist in three official versions (English, French, and German).

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound:

to announce the existence of this Harmonization Document at national level

by or before 1986-01-01

to publish their new harmonized national standard

by or before 1986-10-01

to withdraw all conflicting national standards

by or before 1987-10-01.

Harmonized national standards are listed on the HD information sheet, which is available from the CENELEC National Committees or from the CENELEC General Secretariat.

The CENELEC National Committees are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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PREFACE1.- Reference Document

The Reference Document for this Harmonization Document is the International Electrotechnical Commission Standard IEC: 364-5-56, First Edition, 1980, prepared by IEC Technical Committee n° 64: Electrical installations of buildings.

2.- Scope

The scope of this Harmonization Document is CENELEC Harmonization Document HD. 384-1.

3.- CENELEC Common Modifications

CENELEC Common Modifications of the Reference Document are numbered and indicated by marginal side-lining. Justifications for the common modifications are stated in Appendix A.

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ELECTRICAL INSTALLATIONS OF BUILDINGS

Part 5: Selection and erection of electrical equipment

(1) | 56. SUPPLIES FOR SAFETY SERVICES

561. General

561.1.1 For safety services a source of supply shall be selected which will maintain a supply of adequate duration.

(2) | 561.1.2 For safety services required to operate in fire conditions, all equipment shall be provided, either by construction or by erection, with protection ensuring fire resistance of adequate duration.

561.2 Protective measures against electric shock in case of a fault without automatic disconnection at the first fault are preferred. In IT systems, continuous insulation monitoring devices shall be provided which give an audible and visible indication of a first fault.

561.3 Equipment shall be arranged to facilitate periodic inspection, testing and maintenance.

562. Sources

(3) | Note.- Starter-type batteries for vehicles do not generally fulfil the requirements for sources for safety services.

562.1 Sources for safety services shall be installed as fixed equipment, and in such a manner that they cannot be adversely affected by failure of the normal source.

562.2 Sources for safety services shall be placed in a suitable location and be accessible only to skilled or instructed persons.

562.3 The location of the sources shall be properly and adequately ventilated so that any exhaust gases, smoke or fumes from the source cannot penetrate areas occupied by persons.

562.4 Separated independent feeders from a supply network are not allowed unless assurance can be obtained that the two supplies are unlikely to fail concurrently.

562.5 A single source for safety services shall not be used for other purposes. However, where more than one source is available, such sources may supply stand-by systems provided that, in the event of failure of one source, the energy remaining available will be sufficient for the starting and operation of all safety services ; this generally necessitates the automatic off-loading of equipment not providing safety services.

562.6 Clauses 562.2 to 562.5 do not apply to equipment individually supplied by self-contained batteries.

563. Circuits

563.1 Circuits of safety services shall be independent of other circuits.

Note.- This means that an electrical fault or any intervention or modification in one system will not affect the correct functioning of the other. This may necessitate separation by fire-resistant materials or different routes or enclosures.

563.2 Circuits of safety services shall not pass through locations exposed to fire risk unless they are fire-resistant. The circuits shall not in any case pass through zones exposed to explosion risk.

Note.- Where practicable the passage of circuits through locations presenting a fire risk should be avoided.

563.3 The protection against overload prescribed in Clause 473.1 may be omitted.

563.4 Overcurrent protective devices shall be selected and erected so as to avoid an overcurrent in one circuit impairing the correct operation of other circuits of safety services.

563.5 Switchgear and controlgear shall be clearly identified and grouped in locations accessible only to skilled or instructed persons.

(4) | 563.6 Alarm devices shall be clearly identified.

564. Utilization equipment

564.1 In lighting systems the type of lamp shall be compatible with the change-over time in order to maintain the specified lighting level.

564.2 In equipment supplied by two different circuits, a fault occurring in one circuit shall not impair the protection against electric shock nor the correct operation of the other circuit. Such equipment shall be connected to the protective conductors of both circuits, if necessary.

565 (*) Special requirements for safety services having sources not capable of operation in parallel

565.1 All precautions shall be taken to avoid the paralleling of the sources, e.g. by mechanical interlocking.

565.2 Protection against short circuit and against electric shock in case of a fault shall be ensured for each source.

(*) The requirements of Sections 565 and 566 are valid not only for safety services. They will be deleted here when covered by appropriate rules in other Harmonization Documents in 384 series.

566 (*) Special requirements for safety services having sources capable of operation in parallel

Note.- The parallel operation of independent sources normally requires the authorization of the supply undertaking. This may require special devices, for example to prevent reverse power.

566.1 Protection against short circuit and against electric shock in case of a fault shall be ensured whether the installation is supplied separately by either of the two sources or by both in parallel.

(5) | 566.2 Precautions shall be taken, where necessary, to limit current circulation in the connection between the neutral points of the sources, in particular the effect of third harmonics.

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(*) The requirements of Section 565 and 566 are valid not only for safety services. They will be deleted here when covered by appropriate rules in other Harmonization Documents in the 384 series.

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