
Električne inštalacije zgradb – 5. del: Izbira in namestitvev električne opreme – 53. poglavje: Stikalne in krmilne naprave – 537. oddelek Naprave za ločevanje in stikanje (IEC 60364-5-537:1981 + A1:1989, spremenjen)

Electrical installations of buildings - Part 5: Selection and erection of electrical equipment - Chapter 53: Switchgears and controlgears – Section 537: Devices for isolation and switching (IEC 60364-5-537:1981 + A1:1989, modified)

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Descriptors: Electrical installations of buildings, protective measures for indoor installations, safety requirements, devices for isolation and switching, electrical safety requirements

English version

Electrical installations of buildings
Part 5: Selection and erection of electrical equipment
Chapter 53: Switchgear and controlgear
Section 537: Devices for isolation and switching
(IEC 60364-5-537:1981 + A1:1989, modified)

Installations électriques des bâtiments
Partie 5: Choix et mise en oeuvre des
matériels électriques
Chapitre 53: Appareillage
Section 537: Dispositifs de
sectionnement et de commande
(CEI 60364-5-537:1981 + A1:1989,
modifiée)

Elektrische Anlagen von Gebäuden
Teil 5: Auswahl und Errichtung
elektrischer Betriebsmittel
Kapitel 53: Schaltgeräte und
Steuergeräte
Abschnitt 537: Geräte zum Trennen
und Schalten
(IEC 60364-5-537:1981 + A1:1989,
modifiziert)

This Harmonization Document was approved by CENELEC on 1998-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 the International Standard IEC 60364-5-537:1981 and its amendment 1:1989, prepared by IEC TC 64 Electrical installations of buildings, together with common modifications prepared by SC 64A, Protection against electric shock, of Technical Committee CENELEC TC 64, Electrical installations of buildings, was submitted to the formal vote and was approved by CENELEC as HD 384.5.537 S2 on 1998-10-01.

This European Standard supersedes HD 384.5.537 S1:1987.

The following dates were fixed:

- latest date by which the existence of the HD
has to be announced at national level (doa) 1999-04-01
- latest date by which the HD has to be implemented
at national level by publication of a harmonized
national standard or by endorsement (dop) 1999-10-01
- latest date by which the national standards conflicting
with the HD have to be withdrawn (dow) 2001-10-01

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Endorsement notice

The text of the International Standard IEC 60364-5-537:1981 and its amendment 1:1989 was approved by CENELEC as a Harmonization Document with agreed common modifications as given below.

COMMON MODIFICATIONS

537.2.1.2 Replace the note by:

NOTE: The marking required by this subclause may be achieved by the use of the symbols "O" and "I" to indicate the opened and closed positions respectively, where the use of such symbols is permitted by the relevant equipment Standard.

537.2.4 In the first item of the note add "(switch-isolators)" after the word "switch-disconnectors".

537.3.2 Replace the note by:

NOTE: The marking required by this subclause may be achieved by the use of the symbols "O" and "I" to indicate the open and closed positions respectively, where the use of such symbols is permitted by the relevant equipment Standard.

537.4.2 Add after the first paragraph:

Plugs and socket-outlets shall not be provided for use as means for emergency switching.

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Installations électriques des bâtiments

Cinquième partie: Choix et mise en œuvre des matériels électriques

Chapitre 53: Appareillage

Section 537 — Dispositifs de sectionnement et de commande

Electrical installations of buildings

Part 5: Selection and erection of electrical equipment

Chapter 53: Switchgear and controlgear

Section 537 — Devices for isolation and switching



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSTALLATIONS OF BUILDINGS

Part 5: Selection and erection of electrical equipment

Chapter 53: Switchgear and controlgear

Section 537 – Devices for isolation and switching

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

iTeh STANDARD PREVIEW

PREFACE

This standard has been prepared by IEC Technical Committee No.64: Electrical Installations of Buildings.

Drafts of this standard were discussed at the meetings held in Moscow in 1977 and in Sydney in 1979. As a result of the latter meeting, a draft, Document 64(Central Office)81, was submitted to the National Committees for approval under the Six Months' Rule in September 1979.

The National Committees of the following countries voted explicitly in favour of publication:

Argentina	Korea (Republic of)
Australia	Netherlands
Austria	Poland
Belgium	Romania
Canada	South Africa (Republic of)
China	Sweden
Denmark	Switzerland
Egypt	Turkey
Israel	Union of Soviet Socialist Republics
Italy	United Kingdom
Japan	United States of America

In addition, the wording of Sub-clause 537.4.3. Document 64(Central Office)97, was circulated for approval under the Two Months' Procedure in September 1980.

The National Committees of the following countries voted explicitly in favour of publication:

Australia	New Zealand
Belgium	Poland
Canada	Romania
Denmark	Spain
Egypt	Sweden
France	Switzerland
Germany	Turkey
Italy	Union of Soviet Socialist Republics
Japan	United Kingdom
Netherlands	United States of America

ELECTRICAL INSTALLATIONS OF BUILDINGS

Part 5: Selection and erection of electrical equipment

Chapter 53: Switchgear and controlgear

Section 537 – Devices for isolation and switching

53. SWITCHGEAR AND CONTROLGEAR

537. DEVICES FOR ISOLATION AND SWITCHING

537.1 General

Any device for isolation and switching according to Sections 462 to 465 shall comply with the relevant requirements. If a device is used for more than one function, it shall comply with the requirements for each of these functions.

Note. — In certain instances, additional requirements may be necessary for combined functions.

537.2 Devices for isolation

537.2.1 The devices for isolation shall effectively isolate all live supply conductors from the circuit concerned, subject to the provisions of Clause 461.2.

Equipment used for isolation shall comply with Sub-clauses 537.2.1.1 to 537.2.5.

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537.2.1.1 The isolation distances between contacts or other means of isolation, when in the open position, shall be no less than those specified in the following table.

TABLE 53A

Minimum isolating distances
(Under consideration.)

537.2.1.2 The isolating distance between open contacts of the device shall be visible or be clearly and reliably indicated by “Off” or “Open” marking. Such indication shall only occur when the isolating distance between open contacts on each pole of the device has been attained.

Note. — The marking required by this sub-clause may be achieved by the use of the symbols “O” and “T” to indicate the open and closed positions respectively.

537.2.1.3 Semiconductor devices shall not be used as isolating devices.

537.2.2 Devices for isolation shall be designed and/or installed so as to prevent unintentional closure.

Note. — Such closure might be caused for example by shocks and vibrations.