

FINAL VERSION

VERSION FINALE

**Low-voltage electrical installations –
Part 5-53: Selection and erection of electrical equipment – Devices
for protection for safety, isolation, switching, control and monitoring**

**Installations électriques à basse tension –
Partie 5-53: Choix et mise en oeuvre des matériels électriques – Dispositifs
de protection pour assurer la sécurité, le sectionnement, la coupure,
la commande et la surveillance**

CONTENTS

| | |
|---|----|
| FOREWORD | 6 |
| 530.1 Scope | 8 |
| 530.2 Normative references | 8 |
| 530.3 Terms and definitions | 11 |
| 530.4 General and common requirements | 14 |
| 530.5 Erection of equipment | 14 |
| 531 Equipment for protection against electric shock | 14 |
| 531.1 General | 14 |
| 531.2 Devices for automatic disconnection of supply | 15 |
| 531.2.1 General | 15 |
| 531.2.2 Overcurrent protective devices | 15 |
| 531.2.3 Residual current protective devices | 17 |
| 531.3 Equipment for protection by double or reinforced insulation | 20 |
| 531.4 Equipment for protection by electrical separation | 22 |
| 531.5 Equipment for protection by extra-low-voltage provided by SELV and PELV systems | 22 |
| 531.5.1 Sources for SELV or PELV systems | 22 |
| 531.5.2 Selection of plugs and socket-outlets | 22 |
| 531.6 Devices for additional protection | 22 |
| 531.7 Monitoring devices | 23 |
| 532 Devices and precautions for protection against thermal effects | 23 |
| 532.1 General | 23 |
| 532.2 Locations with a particular risk of fire | 23 |
| 532.2.1 General | 23 |
| 532.2.2 Locations with external influences BD2, BD3 or BD4 | 23 |
| 532.2.3 Locations with external influences BE2 | 24 |
| 532.3 Selection of arc fault detection devices (AFDD) | 24 |
| 533 Devices for protection against overcurrent | 25 |
| 533.1 General requirements | 25 |
| 533.1.1 General | 25 |
| 533.1.2 Compliance with standards | 25 |
| 533.1.3 Fuses | 26 |
| 533.2 Selection of devices for protection against overload current | 26 |
| 533.2.1 General | 26 |
| 533.2.2 Presence of harmonic currents | 27 |
| 533.2.3 Unequal current sharing between parallel conductors | 27 |
| 533.3 Selection of devices for protection against short-circuit current | 27 |
| 533.3.1 Thermal stresses | 27 |
| 533.3.2 Breaking capacity | 28 |
| 533.4 Positioning of overcurrent protection devices | 28 |
| 533.4.1 General | 28 |
| 533.4.2 Positioning of devices for overload protection | 28 |
| 533.4.3 Positioning of devices for short-circuit protection | 29 |
| 533.5 Co-ordination of overload and short-circuit protective functions | 30 |
| 533.5.1 Protective functions provided by one device | 30 |
| 533.5.2 Protective functions provided by separate devices | 30 |

| | | |
|----------|---|----|
| 534 | Devices for protection against transient overvoltages | 30 |
| 534.1 | General | 30 |
| 534.2 | Void | 31 |
| 534.3 | Void | 31 |
| 534.4 | Selection and erection of SPDs | 31 |
| 534.4.1 | SPD location and SPD test class | 31 |
| 534.4.2 | Transient overvoltage protection requirements | 32 |
| 534.4.3 | Connection types | 32 |
| 534.4.4 | Selection of SPDs | 34 |
| 534.4.5 | Protection of the SPD against overcurrent | 38 |
| 534.4.6 | Fault protection | 40 |
| 534.4.7 | SPDs installation in conjunction with RCDs | 41 |
| 534.4.8 | Connections of the SPD | 41 |
| 534.4.9 | Effective protective distance of SPDs | 43 |
| 534.4.10 | Connecting conductors of SPDs | 44 |
| 535 | Co-ordination of protective devices | 44 |
| 535.1 | Selectivity between overcurrent protective devices | 44 |
| 535.1.1 | General | 44 |
| 535.1.2 | Partial selectivity | 45 |
| 535.1.3 | Full selectivity | 45 |
| 535.1.4 | Total selectivity | 45 |
| 535.1.5 | Enhanced selectivity | 45 |
| 535.2 | Co-ordination between residual current protective devices and OCPDs | 46 |
| 535.3 | Selectivity between residual current protective devices | 46 |
| 535.4 | Selectivity of RCD and OCPD | 46 |
| 535.5 | Combined short-circuit protection of OCPDs | 46 |
| 536 | Isolation and switching | 47 |
| 536.2 | Isolation | 47 |
| 536.2.1 | General | 47 |
| 536.2.2 | Devices for isolation | 48 |
| 536.3 | Switching-off for mechanical maintenance | 49 |
| 536.3.1 | General | 49 |
| 536.3.2 | Devices for switching-off for mechanical maintenance | 49 |
| 536.4 | Emergency switching | 50 |
| 536.4.1 | General | 50 |
| 536.4.2 | Devices for emergency switching-off | 50 |
| 536.4.3 | Devices for emergency stopping | 51 |
| 536.5 | Functional switching (control) | 51 |
| 536.5.1 | General | 51 |
| 536.5.2 | Devices for functional switching | 51 |
| 537 | Monitoring | 52 |
| 537.1 | General | 52 |
| 537.1.1 | Monitoring devices | 52 |
| 537.1.2 | Selection of insulation monitoring devices (IMDs) | 52 |
| 537.1.3 | Selection of residual current monitoring devices (RCMs) | 52 |
| 537.2 | IT systems for continuity of supply | 52 |
| 537.2.1 | General | 52 |
| 537.2.2 | Insulation monitoring devices (IMDs) | 53 |

| | | |
|------------|--|----|
| 537.2.3 | Installation of IMDs | 53 |
| 537.3 | IT public distribution system | 53 |
| 537.4 | Off-line systems in TN, TT and IT systems | 53 |
| Annex A | (informative) Position of devices for overload protection | 55 |
| A.1 | General | 55 |
| A.2 | Cases where overload protection need not be placed at the origin of the branch circuit | 55 |
| Annex B | (informative) Position of devices for short-circuit protection | 57 |
| B.1 | General | 57 |
| B.2 | Cases where short-circuit protection need not be placed at the origin of branch circuit | 57 |
| Annex C | (informative) SPD installation – Examples of installation diagrams according to system configurations | 59 |
| C.1 | TT system – 3 phase supply plus neutral | 59 |
| C.2 | TN-C and TN-C-S systems – 3 phase supply | 63 |
| C.3 | TN-S system – 3 phase supply plus neutral | 67 |
| C.4 | IT system – 3 phase supply with or without neutral | 69 |
| Annex D | (informative) Installation supplied by overhead lines | 72 |
| Annex E | (normative) Reference standards for devices for isolation and switching | 73 |
| Annex F | (informative) List of notes concerning certain countries | 75 |
| Annex G | (informative) Description of the different types of residual current devices (RCDs) | 84 |
| | Bibliography | 88 |
| Figure 1 | – Example of installation of class I, class II and class III tested SPDs | 32 |
| Figure 2 | – Connection type CT1 (4+0-configuration) for a three-phase system with neutral | 33 |
| Figure 3 | – Connection type CT1 (3+0-configuration) for a three-phase system | 33 |
| Figure 4 | – Connection type CT2 (e.g. 3+1-configuration) for a three-phase system with neutral | 34 |
| Figure 5 | – Connection points of an SPD assembly | 38 |
| Figure 6 | – Example of overcurrent protection in the SPD branch by using a dedicated external overcurrent protective device | 39 |
| Figure 7 | – Protective device, which is a part of the installation, also used to protect the SPD | 40 |
| Figure 8 | – Connection of the SPD | 42 |
| Figure 9 | – Example of installation of an SPD in order to decrease lead length of SPD supply conductors | 43 |
| Figure 10 | – Example of selectivity | 45 |
| Figure 11 | – Example of currents and their correlation to selectivity | 46 |
| Figure 12 | – Example of combined short-circuit protection of OCPDs | 47 |
| Figure A.1 | – Overload protective device (P ₂) not at the origin of branch circuit (B) | 55 |
| Figure A.2 | – Overload protective device (P ₂) installed within 3 m of the origin of the branch circuit (B) | 56 |
| Figure B.1 | – Limited change of position of short-circuit protective device (P ₂) on a branch circuit | 57 |
| Figure B.2 | – Short-circuit protective device P ₂ installed at a point on the supply side of the origin of a branch circuit | 58 |

| | |
|--|----|
| Figure C.1 – Example of SPDA installation with connexion type CT2 on the supply side (upstream) of the main RCD in TT system..... | 59 |
| Figure C.2 – Example of SPD installation with connexion type CT2 on the supply side (upstream) of the main RCD in TT system..... | 60 |
| Figure C.3 – Example of SPDA installation on the load side (downstream) of the main RCD in TT system..... | 61 |
| Figure C.4 – Example of SPD installation on the load side (downstream) of the RCD in TT system..... | 62 |
| Figure C.5 – Example of SPDA installation in TN-C system | 63 |
| Figure C.6 – Example of SPD installation with connexion type CT1 in TN-C system..... | 64 |
| Figure C.7 – Example of SPD installation in TN-C-S system where the PEN is separated into PE and N at the origin of the installation (upstream of the SPD) | 65 |
| Figure C.8 – Example of SPDs installation in TN-C-S in different distribution boards | 66 |
| Figure C.9 – Example of SPDA installation in TN-S system..... | 67 |
| Figure C.10 – Example of SPDs installation in TN-S | 68 |
| Figure C.11 – Example of SPDA installation in IT system with neutral..... | 69 |
| Figure C.12 – Example of SPD installation in IT system without neutral | 70 |
| Figure C.13 – Example of SPD installation in IT system with neutral..... | 71 |
| Figure F.1 – Single user..... | 80 |
| Figure F.2 – Several users..... | 80 |
| Figure F.3 – Lamp control circuit with switching in the neutral conductor | 82 |
| Figure G.1 – Possible earth fault currents in systems with semiconductors | 87 |
| Table 1 – Required rated impulse voltage of equipment..... | 35 |
| Table 2 – U_c of the SPD dependent on supply system configuration | 36 |
| Table 3 – Nominal discharge current (I_n) in kA depending on supply system and connection type | 37 |
| Table 4 – Selection of impulse discharge current (I_{imp}) where the building is protected against direct lightning strike | 37 |
| Table 5 – Connection of the SPD dependent on supply system..... | 41 |
| Table D.1 – Selection of impulse discharge current (I_{imp}) | 72 |
| Table E.1 – Devices for association and switching..... | 73 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 5-53: Selection and erection of electrical equipment – Devices for protection for safety, isolation, switching, control and monitoring

FOREWORD

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IEC 60364-5-53 edition 4.1 contains the fourth edition (2019-02) [documents 64/2352/FDIS and 64/2359/RVD] and its amendment 1 (2020-12) [documents 64/2357/FDIS and 64/2465/RVD].

This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 60364 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

This fourth edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) revision of all clauses except 531 and 534;
- b) introduction of a new Clause 537 Monitoring;
- c) Clause 530 contains all normative references and all terms and definitions.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The reader's attention is drawn to the fact that Annex F lists all of the "in-some-country" clauses on differing practices relating to the subject of this standard.

A list of all parts in the IEC 60364 series, published under the general title *Low-voltage electrical installations*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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LOW-VOLTAGE ELECTRICAL INSTALLATIONS –

Part 5-53: Selection and erection of electrical equipment – Devices for protection for safety, isolation, switching, control and monitoring

530.1 Scope

This document provides requirements for:

- a) isolation, switching, control and monitoring, and
- b) selection and erection of:
 - 1) devices for isolation, switching, control and monitoring, and
 - 2) devices to achieve compliance with measures of protection for safety.

530.2 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.

IEC 60204-1, *Safety of machinery – Electrical equipment of machines – Part 1: General requirements*

IEC 60269-2, *Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) – Examples of standardized systems of fuses A to K*

IEC 60269-3, *Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) – Examples of standardized systems of fuses A to F*

IEC 60269-4, *Low-voltage fuses – Part 4: Supplementary requirements for use-links for the protection of semiconductor devices*

IEC 60309 (all parts), *Industrial plug, socket-outlets and couplers for industrial purposes*

IEC 60364 (all parts), *Low-voltage electrical installations*

IEC 60364-4-41:2005, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*
IEC 60364-4-41:2005/AMD1:2017

IEC 60364-4-42:2010, *Low-voltage electrical installations – Part 4-42: Protection for safety – Protection against thermal effects*
IEC 60364-4-42:2010/AMD1:2014

IEC 60364-4-43:2008, *Low-voltage electrical installations – Part 4-43: Protection for safety – Protection against overcurrent*

IEC 60364-4-44:2007, *Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances*
IEC 60364-4-44:2007/AMD1:2015