

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 2  
AMENDEMENT 2

**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 œuvre des matériels électriques – Dispositifs de  
protection pour assurer la sécurité, le sectionnement, la coupure, la commande  
et la surveillance**





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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 29.130.01, 91.140.50

ISBN 978-2-8327-0097-6

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## 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****AMENDMENT 2**

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Amendment 2 to IEC 60364-5-53:2019 has been prepared by IEC technical committee 64: Electrical installations and protection against electric shock.

The text of this Amendment is based on the following documents:

Draft	Report on voting
64/2648/FDIS	64/2738/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

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## **534 Devices for protection against transient overvoltages**

### **534.1 General**

*Replace the last paragraph with the following new paragraph:*

Annex H provides additional information for the application of DC SPDs.

#### **534.4.1 SPD location and SPD test class**

*Replace, in the sixth paragraph, "Table 1" with "IEC 60364-4-44:2024, Table 3"*

##### **534.4.4.1 General**

*Replace the last paragraph with the following paragraph:*

SPDs for use in AC circuits shall comply with the requirements of IEC 61643-11.

*Add the following new NOTE 2, and renumber the existing NOTE as NOTE 1:*

NOTE 2 IEC 61643-41 Low-voltage surge protective devices – Part 41: Surge protective devices connected to DC low-voltage power systems – Requirements and test methods, is under development.

**534.4.4.2 Selection of voltage protection level ( $U_p$ ) as a function of equipment rated impulse voltage ( $U_w$ )**

*Replace the first paragraph, including NOTE 1, with the following paragraph:*

The voltage protection level  $U_p$  of SPDs between live conductors and protective earthing conductors shall be selected in accordance with the required rated impulse voltage of the equipment and not exceed the value specified for overvoltage category II in accordance with IEC 60364-4-44:2024, Table 4.

*Replace the fourth paragraph with the following paragraph:*

The voltage protection level provided by SPDs should not exceed 80 % of the required rated impulse voltage of the equipment and the value specified for overvoltage category II in accordance with IEC 60364-4-44:2024, Table 4.

*Renumber the existing NOTE 2 as NOTE and delete the existing Table 1.*

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