

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electrical relays – Tests and measurements –  
Part 11: Enclosure protection and degree of protection**

**Relais électriques – Essais et mesurages –  
Partie 11: Protection des enveloppes et degré de protection**



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**ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –****Part 11: Enclosure protection and degree of protection**

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The text of this International Standard is based on the following documents:

Draft	Report on voting
94/1058/FDIS	94/1109/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 International Standard 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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# ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

## Part 11: Enclosure protection and degree of protection

### 1 Scope

This part of IEC 63522 is used for testing electrical relay enclosures along with the appropriate severities and conditions for measurements and tests designed to assess the ability of DUTs to perform under expected conditions of transportation, storage and all aspects of operation, use.

This document defines standard test methods for appropriate enclosure sealing testing.

### 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 60068-2-17:2023, *Environmental testing – Part 2-17: Tests – Test Q: Sealing*

IEC 60068-2-68:1994, *Environmental testing – Part 2-68: Tests – Test L: Dust and sand*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60529:1989/AMD1:1999

IEC 60529:1989/AMD2:2013

IEC 63522-0:—<sup>1</sup>, *Electrical relays – Tests and measurements – Part 0: General and guidance*

IEC 63522-4:2024, *Electrical relays – Tests and measurements – Part 4: Dielectric strength test*

IEC 63522-7:2024, *Electrical relays – Tests and measurements – Part 7: Functional tests*

IEC 63522-15:2024, *Electrical relays – Tests and measurements – Part 15: Robustness of terminals*

IEC 63522-19, *Electrical relays – Tests and measurements – Part 19: Electrical endurance*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63522-0 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
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<sup>1</sup> Under preparation. Stage at the time of publication: IEC CCDV 63522-0:2024.