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Electrical relays - Tests and measurements -
Part 4: Dielectric strength test

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Electrical relays - Tests and measurements - Part 4: Dielectric strength test

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IEC 63522-4 has been prepared by IEC technical committee 94: Electrical relays. It is an International Standard.

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

Draft	Report on voting
94/1056/FDIS	94/1168/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of IEC 63522 series, published under the general title *Electrical relays - Tests and measurements*, can be found on the IEC website.

This International Standard is to be used in conjunction with IEC 63522-0:–[1].

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

[1] Under preparation. Stage at the time of publication: IEC CDV 63522-0:2024.

1 Scope

This part of IEC 63522 is used for testing 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 operational use.

The object of this test is to define a standard test method for the dielectric strength test.

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 60068-2-2, *Environmental testing - Part 2-2: Tests - Test B: Dry heat*

IEC 60068-2-67, *Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components*

IEC 61180, *High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment*

IEC 63522-0:–[2], *Electrical relays - Tests and measurements - Part 7-0: General and guidance*

[2] Under preparation. Stage at the time of publication: IEC CDV 63522-0:2025.

Bibliography

IEC 60050-212, *International Electrotechnical Vocabulary (IEV) - Part 212: Electrical insulating solids, liquids and gases* (available at www.electropedia.org)

IEC 60060-1:2010, *High-voltage test techniques - Part 1: General definitions and test requirements*

IEC 61810-1:2015, *Electromechanical elementary relays - Part 1: General and safety requirements*

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