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Electrical relays - Tests and measurements -
Part 3: Relay coil properties

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Electrical relays - Tests and measurements - Part 3: Relay coil properties

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IEC 63522-3 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
94/1178/FDIS	94/1188/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.

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– withdrawn, or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 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 objective of this test is to ensure that the properties of the relay coil(s) are within the specified limits.

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 63522-0:–[1], *Electrical relays - Tests and measurements - Part 0: Testing - General and guidance*

IEC 63522-2:2025, *Electrical relays - Tests and measurements - Part 2: Mechanical tests and weighing*

3 Terms, definitions and abbreviated terms

3.1 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/
– ISO Online browsing platform: available at https://www.iso.org/obp

3.2 Abbreviated terms

Back-EMF	back electromotive force ment
DMM	digital multi meter
DUT	device under test
LCR	inductance, capacitance and resistance

4 Test procedure

4.1 General

It is preferred to remove any coil suppression devices for any test within this document, unless otherwise specified. The generic test conditions of IEC 63522-0 shall be applicable, unless otherwise defined in this document.

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