IEC 63522-40

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical relays – Tests and measurements – Part 40: Short circuit testing

Relais électriques – Essais et mesurages – Partie 40: Essais de court-circuit



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 40: Short circuit testing

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IEC 63522-40 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
94/1057/FDIS	94/1116/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- withdrawn, or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.

ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 40: Short circuit testing

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.

This document defines a standard test method for short circuit 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 63522-0:–[2], *Electrical relays – Tests and measurements – Part −0: General and guidance*

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

3 Terms and definitions

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

3.1
short circuit protective device
SCPD
protective device, specified by the manufacturer, which has to be installed in the circuit in series with the device under test in order to protect it against short circuits only to cut the current

[SOURCE: IEC 60050-442:2019, 442-05-12, modified – modification of the definition.]

3.2
control switch
CS
device which is capable of connecting and disconnecting the short circuit under safe conditions to ensure full disconnection

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