

STN	Elektrické relé Skúšky a merania Časť 54: Skúška kritického jednosmerného zaťažovacieho prúdu	STN EN IEC 63522-54 35 3410
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Electrical relays - Tests and measurements - Part 54: Critical DC load current test

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/25

Obsahuje: EN IEC 63522-54:2025, IEC 63522-54:2025

141632

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026

Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 63522-54

October 2025

ICS 29.120.70

English Version

**Electrical relays - Tests and measurements - Part 54: Critical DC
load current test
(IEC 63522-54:2025)**

Relais électriques - Essais et mesurages - Partie 54: Essai
de courant continu critique de charge
(IEC 63522-54:2025)

Elektrische Relais - Mess- und Prüfverfahren - Teil 54:
Kritischer DC-Laststromtest
(IEC 63522-54:2025)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 63522-54:2025 (E)**European foreword**

The text of document 94/1141/FDIS, future edition 1 of IEC 63522-54, prepared by TC 94 "Electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63522-54:2025.

The following dates are fixed:

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IEC 61810-1:2015	NOTE Approved as EN 61810-1:2015 (not modified)
IEC 61810-1:2015/A1:2019	NOTE Approved as EN 61810-1:2015/A1:2020 (not modified)
IEC 61810-10:2019	NOTE Approved as EN IEC 61810-10:2019 (not modified)

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 63522-0	— ¹	Electrical relays - Tests and Measurements - Part 0: General and Guidance	EN IEC 63522-0	— ²
IEC 63522-4	— ³	Electrical relays - Tests and measurements - Part 4: Dielectric strength test	EN IEC 63522-4	— ⁴
IEC 63522-10	— ⁵	Electrical relays - Tests and measurements - Part 10: Heating	EN IEC 63522-10	— ⁶

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

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

³ Under preparation. Stage at the time of publication: IEC PRVD 63522-4:2024.

⁴ Under preparation. Stage at the time of publication: prEN IEC 63522-4:2024.

⁵ Under preparation. Stage at the time of publication: IEC FDIS 63522-10:2024.

⁶ Under preparation. Stage at the time of publication: FprEN IEC 63522-10:2025.



IEC 63522-54

Edition 1.0 2025-08

INTERNATIONAL STANDARD

**Electrical relays - Tests and measurements -
Part 54: Critical DC load current test**

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**Electrical relays -
Tests and measurements -
Part 54: Critical DC load current test****FOREWORD**

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IEC 63522-54 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
94/1141/FDIS	94/1157/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.

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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.

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1 Scope

This part of IEC 63522 is used for testing all kinds of electrical relays and for evaluating their ability to perform under expected conditions of transportation, storage and all aspects of operational use.

NOTE Examples for electrical relays in the sense of this document include electromechanical relays, reed relays, reed contacts, reed switches, solid state relays, time relays and technology combinations of these.

This document defines a standard test method for critical DC load current 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 63522-0:20—, *Electrical relays – Tests and measurements – Part 0: General and guidance*¹

IEC 63522-4:20—, *Electrical relays – Tests and measurements – Part 4: Dielectric strength test*²

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