

STN	Elektrické relé Skúšky a merania Časť 37: Zvýšenie teploty svoriek pri menovitom zaťažení	STN EN IEC 63522-37 35 3410
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Electrical relays - Tests and measurements - Part 37: Terminal temperature rise at rated load

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. 08/25

Obsahuje: EN IEC 63522-37:2025, IEC 63522-37:2025

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EUROPEAN STANDARD

EN IEC 63522-37

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2025

ICS 29.120.70

English Version

**Electrical relays - Tests and measurements - Part 37: Terminal temperature rise at rated load
(IEC 63522-37:2025)**

Relais électriques - Essais et mesurages - Partie 37:
Échauffement des bornes à la charge assignée
(IEC 63522-37:2025)

Elektrische Relais - Mess- und Prüfverfahren - Teil 37:
Klemmentemperaturanstieg bei Nennlast
(IEC 63522-37:2025)

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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 63522-37:2025 (E)**European foreword**

The text of document 94/1131/FDIS, future edition 1 of IEC 63522-37, prepared by TC 94 "Electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63522-37:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-06-30 level by publication of an identical national standard or by endorsement
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The text of the International Standard IEC 63522-37:2025 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60664-1 NOTE Approved as EN IEC 60664-1

IEC 61810-7:2006 NOTE Approved as EN 61810-7:2006 (not modified)

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

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 60584-1	-	Thermocouples - Part 1: EMF specifications and tolerances	EN 60584-1	-
IEC 60998-1	-	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements	EN 60998-1	-
IEC 60999-1	-	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm ² up to 35 mm ² (included)	EN 60999-1	-
IEC 61810-1	2015	Electromechanical elementary relays - Part 1: General and safety requirements	EN 61810-1	2015
IEC 63522-0	— ²	Electrical relays - Tests and Measurements - Part 0: General and Guidance	EN IEC 63522-0	— ³
IEC 63522-7	-	Electrical relays - Tests and measurements - Part 7: Functional tests	EN IEC 63522-7	-

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

³ Under preparation: Stage at the time of publication: prEN IEC 63522-0:2024.



IEC 63522-37

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurements –
Part 37: Terminal temperature rise at rated load**

**Relais électriques – Essais et mesurages –
Partie 37: Échauffement des bornes à la charge assignée**





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IEC Secretariat
 3, rue de Varembe
 CH-1211 Geneva 20
 Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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IEC 63522-37

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurements –
Part 37: Terminal temperature rise at rated load**

**Relais électriques – Essais et mesurages –
Partie 37: Échauffement des bornes à la charge assignée**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL RELAYS –
TESTS AND MEASUREMENTS –****Part 37: Terminal temperature rise at rated load****FOREWORD**

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IEC 63522-37 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
94/1131/FDIS	94/1145/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.

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

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

ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 37: Terminal temperature rise at rated load

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.

The object of this document is to define a standard test method to measure terminal temperature rise at rated load, included solder terminals, flat quick-connect terminations, screw and screwless type terminals, alternative termination types and sockets.

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 60584-1, *Thermocouples – Part 1: EMF specifications and tolerances*

IEC 60998-1, *Connecting devices for low-voltage circuits for household and similar purposes – Part 1: General requirements*

IEC 60999-1, *Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm² up to 35 mm² (included)*

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

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

IEC 63522-7, *Electrical relays – Tests and measurements – Part 7: Functional tests*³

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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

³ Under preparation: Stage at the time of publication: IEC/BPUB 63522-7:2024.