

STN	Elektrické relé Skúšky a merania Časť 28: Termoelektrická elektromotorická sila (e.m.f.)	STN EN IEC 63522-28 35 3410
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Electrical relays - Tests and measurement - Part 28: Thermoelectric electromotive force (e.m.f.)

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 63522-28:2025, IEC 63522-28:2025

140978

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2025

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 63522-28

June 2025

ICS 29.120.70

English Version

**Electrical relays - Tests and measurement - Part 28:
Thermoelectric electromotive force (e.m.f.)
(IEC 63522-28:2025)**

Relais électriques - Essais et mesurages - Partie 28: Force
électromotrice (f.é.m.) thermoélectrique
(IEC 63522-28:2025)

Elektrische Relais - Mess- und Prüfverfahren - Teil 28:
Thermoelektrische elektromotorische Kraft (EMK)
(IEC 63522-28:2025)

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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 63522-28:2025 (E)**European foreword**

The text of document 94/1127/FDIS, future edition 1 of IEC 63522-28, prepared by TC 94 "Electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63522-28:2025.

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The text of the International Standard IEC 63522-28:2025 was approved by CENELEC as a European Standard without any modification.

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

Annex ZA
(normative)

**Normative references to international publications
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NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 63522-0	— ²	Electrical relays - Tests and Measurements - Part 0: General and Guidance	EN IEC 63522-0	— ³

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 63522-28

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurement –
Part 28: Thermoelectric electromotive force (e.m.f.)**

**Relais électriques – Essais et mesurages –
Partie 28: Force électromotrice (f.é.m.) thermoélectrique**

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IEC 63522-28

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurement –
Part 28: Thermoelectric electromotive force (e.m.f.)**

**Relais électriques – Essais et mesurages –
Partie 28: Force électromotrice (f.é.m.) thermoélectrique**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.120.70

ISBN 978-2-8327-0362-5

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL RELAYS –
TESTS AND MEASUREMENTS –****Part 28: Thermoelectric electromotive force (e.m.f.)****FOREWORD**

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IEC 63522-28 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
94/1127/FDIS	94/1144/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.

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

ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 28: Thermoelectric electromotive force (e.m.f.)

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 1 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 thermoelectric electromotive force (e.m.f.).

NOTE 2 If different metals are attached at both ends and the temperatures where the metals are connected are different, then a current will flow in one direction in the circuit. The electromotive force that causes this current is called thermoelectromotive force.

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:–, *Electrical relays – Tests and measurements – Part 0: General and guidance*²

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