IEC 63522-9

Edition 1.0 2025-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrical relays – Tests and measurements – Part 9: Climatic tests

Relais électriques – Essais et mesurages – Partie 9: Essais climatiques



IEC 63522-9:2025-04(en-fr)



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

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 9: Climatic tests

FOREWORD

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IEC 63522-9 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
94/1068/FDIS	94/1097/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- withdrawn, or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 9: Climatic tests

1 Scope

This part of IEC 63522 is used for testing all kind 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.

It defines standard test methods to determine the ability of the relay to withstand certain climatic test conditions, a sequence of such climatic test conditions or climatic storage conditions.

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 60068-2-1:1990, *Environmental testing – Part 2-1: Tests – Test A: Cold*
IEC 60068-2-1:1990/AMD1:1993
IEC 60068-2-1:1990/AMD2:1994

IEC 60068-2-2:1974, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*
IEC 60068-2-2:1974/AMD1:1993
IEC 60068-2-2:1974/AMD2:1994

IEC 60068-2-13, *Environmental testing – Part 2-13: Tests – Test M: Low air pressure*

IEC 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h+ 12 h cycle)*

IEC 60068-2-78, *Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state*

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

IEC 63522-1:–[3], *Electrical relays – Tests and measurements – Part 1: Visual inspection and check of dimensions*

IEC 63522-5:–[4], *Electrical relays – Tests and measurements – Part 5: Insulation resistance*

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3 Under preparation. Stage at the time of publication: IEC FDIS 63522-1:2024.

4 Under preparation. Stage at the time of publication: IEC CDV 63522-5:2024.