

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurements –
Part 12: Internal moisture**

**Relais électriques – Essais et mesurages –
Partie 12: Humidité interne**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –**Part 12: Internal moisture**

FOREWORD

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IEC 63522-12 has been prepared by subcommittee 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
94/1050/FDIS	94/1108/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 the IEC 63522 series, published under the general title *Electrical relays – Tests and measurements*, can be found on the IEC website.

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ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 12: Internal moisture

1 Scope

This document is used for testing electromechanical elementary relays (electromechanical relays, reed relays, reed contacts, reed switches and technology combinations of these), and evaluates their ability to perform under expected conditions of transportation, storage, and all aspects of operational use.

This document defines a standard test method to provoke internal moisture inside relays by different methods. The device under test (DUT) is tested at its specified energization values throughout the defined temperature range.

The test methods in this document are applicable to RT III, RT IV and RT V products only, i.e., wash-tight, sealed, and hermetically sealed DUTs.

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:—¹, *Electrical relays – Tests and measurements – Part 0: Testing – General and guidance*

IEC 63522-1, *Electrical relays – Tests and measurements – Part 1: Visual inspection and check of dimensions*²

IEC 63522-5, *Electrical relays – Tests and measurements – Part 5: Insulation resistance*³

IEC 63522-6, *Electrical relays – Tests and measurements – Part 6: Contact-circuit resistance (or voltage drop)*

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

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

² First edition under preparation. Stage at the time of publication: IEC FDIS 63522-1:2024.

³ First edition under preparation. Stage at the time of publication: IEC FDIS 63522-5:2024.