

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrical relays – Tests and measurements –
Part 15: Robustness of terminals**

**Relais électriques – Essais et mesurages –
Partie 15: Robustesse des bornes**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL RELAYS –
TESTS AND MEASUREMENTS –**

Part 15: Robustness of terminals

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IEC 63522-15 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
94/1052/FDIS	94/1081/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.

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ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

Part 15: Robustness of terminals

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 for evaluating their ability to perform under expected conditions of transportation, storage and all aspects of operational use.

This document defines a standard test method that applies defined loads to relay terminals (direct axial pulls, bending or twisting) as they can be present in assembled configurations or during handling. In addition, it covers torque stress for nuts and threaded terminals as they are likely to be experienced during normal assembly operations.

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 60068-2-21, *Environmental testing – Part 2-21: tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60999-1:1999, *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 61210:2010, *Connecting devices – Flat quick-connect terminations for electrical copper conductors – Safety requirements*

IEC 63522-0:— *Electrical relays – Tests and measurements – Part 0: Testing – General and guidance*¹

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

IEC 63522-3, *Electrical relays – Tests and measurements – Part 3: Relay coil properties*³

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

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 CDV 63522-1:2023.

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