

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electrical relays – Tests and measurements –  
Part 56: Ball Pressure test**

**Relais électriques - Essais et mesurages  
Part 56: Essai à la bille**



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COMMISSION

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**ELECTRICAL RELAYS –  
TESTS AND MEASUREMENTS –**

**Part 56: Ball pressure test**

**FOREWORD**

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IEC 63522-56 have 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
94/1067/FDIS	94/1117/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://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:–<sup>1</sup>.

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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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

# ELECTRICAL RELAYS – TESTS AND MEASUREMENTS –

## Part 56: Ball pressure test

### 1 Scope

This part of IEC 63522 is used for testing along with the appropriate severities and conditions for measurements and tests designed to assess the ability of specimens to perform under expected conditions of transportation, storage and all aspects of operational use.

The object of this test is to define a standard test method for evaluation of appropriate materials to withstand mechanical pressure at elevated temperatures without undue deformation.

NOTE The test is not made on parts of ceramic material.

### 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:<sup>–2</sup>, *Electrical relays – Tests and measurements – Part 0: General and guidance*

ISO 293, *Plastics – Compression moulding of test specimens of thermoplastic materials*

ISO 294 (all parts), *Plastics – Injection moulding of test specimens of thermoplastic materials*

ISO 295, *Plastics – Compression moulding of test specimens of thermosetting materials*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63522-0 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO online browsing platform: available at <https://www.iso.org/obp>

### 4 Test procedure

#### 4.1 Purpose

The purpose of the ball pressure test is to assess the ability of materials to withstand mechanical pressure at elevated temperatures without undue deformation.

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