

Electrical relays —

Part 22-5: Electrical disturbance tests for measuring relays and protection equipment — Surge immunity test

The European Standard EN 60255-22-5:2002 has the status of a
British Standard

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National foreword

This British Standard is the official English language version of EN 60255-22-5:2002. It is identical with IEC 60255-22-5:2002.

The UK participation in its preparation was entrusted to Technical Committee PEL/95, Measuring relays and protection systems, which has the responsibility to:

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Cross-references

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Part 22-5: Electrical disturbance tests for
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Relais électriques
Partie 22-5: Essais d'influence électrique
concernant les relais de mesure
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Störfestigkeit von Messrelais
und Schutzeinrichtungen -
Prüfung der Störfestigkeit
gegen Stoßspannungen
(IEC 60255-22-5:2002)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 95/136/FDIS, future edition 1 of IEC 60255-22-5, prepared by IEC TC 95, Measuring relays and protection equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60255-22-5 on 2002-06-01.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-06-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60255-22-5:2002 was approved by CENELEC as a European Standard without any modification.

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ELECTRICAL RELAYS –

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1 Scope and object

This standard is based on IEC 61000-4-5, referring to that publication where applicable, and specifies the general requirements for surge tests for measuring relays and protection equipment for power system protection, including the control, monitoring and process interface equipment used with those systems.

The objective of the tests is to confirm that the equipment under test will operate correctly when energized and subjected to high-energy disturbances on the power and interconnection lines, caused by surge voltages from switching and lightning effects.

This standard does not intend to test the capability of the insulation to withstand high-voltage stress. The insulation test is covered by IEC 60255-5.

The requirements specified in this standard are applicable to measuring relays and protection equipment in a new condition and all tests specified are type tests only.

The object of this standard is to define the:

- terms used;
- test severity levels;
- test equipment;
- test set-up;
- test procedures;
- criteria for acceptance;
- test report.

2 Normative references

The following referenced documents are indispensable for the application 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 60050(161), *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electromagnetic compatibility*

IEC 60255-5:2000, *Electrical relays – Part 5: Insulation coordination for measuring relays and protection equipment – Requirements and tests*

IEC 60255-6:1988, *Electrical relays – Part 6: Measuring relays and protection equipment*

IEC 61000-4-5:1995, *Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5: Surge immunity test*