

Electrical relays —

Part 22-6: Electrical disturbance tests for measuring relays and protection equipment — Immunity to conducted disturbances induced by radio frequency fields

The European Standard EN 60255-22-6:2001 has the status of a British Standard

ICS 29.120.70

National foreword

This British Standard is the official English language version of EN 60255-22-6:2001. It is identical with IEC 60255-22-6:2001.

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

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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This British Standard, having been prepared under the direction of the Electrotechnical Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 August 2001

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 12, an inside back cover and a back cover.

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(IEC 60255-22-6:2001)

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This European Standard was approved by CENELEC on 2001-05-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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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 95/112/FDIS, future edition 1 of IEC 60255-22-6, 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 60255-22-6 on 2001-05-01.

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) 2002-02-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-02-01

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 60255-22-6:2001 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60255-22-3 NOTE: Harmonized as EN 60255-22-3:2000 (not modified).

IEC 61000-4-3 NOTE: Harmonized as EN 61000-4-3:1996 (modified).

ELECTRICAL RELAYS –

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1 Scope and object

This part of IEC 60255 is based on IEC 61000-4-6, referring to that standard where applicable. It specifies the general requirements for conducted disturbances induced by electromagnetic fields 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 (EUT) will operate correctly when energized and subjected to conducted disturbances induced by radiofrequency fields within the frequency range 150 kHz to 80 MHz.

NOTE IEC 60255-22-3 (based on IEC 61000-4-3) will specify the immunity requirements of measuring relays and protection equipment over the frequency range of 80 MHz to 1 000 MHz.

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 establish

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

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60255. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60255 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60050(161), *International Electrotechnical Vocabulary (IEV) – Chapter 161: Electro-magnetic compatibility*

IEC 60050(446), *International Electrotechnical Vocabulary (IEV) – Chapter 446: Electrical relays*