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**ELECTROMAGNETIC COMPATIBILITY (EMC)  
PRODUCT STANDARD FOR MEASURING  
RELAYS AND PROTECTION EQUIPMENT**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 50263**

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English version

**Electromagnetic compatibility (EMC)  
Product standar for measuring relays and protection equipment**

Compatibilité électromagnétique (CEM)  
Norme de produit pour relais de mesures  
et dispositifs de protection

Elektromagnetische Verträglichkeit  
(EMV) - Produktnorm für Meßrelais  
und Schutzeinrichtungen

This European Standard was approved by CENELEC on 1999-08-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard was prepared by CENELEC BTTF 63-5, Static measuring relays.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50263 on 1999-08-01.

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) 2000-08-01
  - latest date by which the national standards conflicting  
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## 1 Scope

This standard is applicable to measuring relays and protection equipment for power system protection, including the control, monitoring and process interface equipment used with those systems (hereinafter named "apparatus").

For equipment not incorporating electronic circuits e.g. electromechanical relays, emission and immunity tests are not required.

This standard specifies the essential requirements for electromagnetic compatibility for apparatus intended to be used at industrial locations.

Apparatus used in substations and power plants may require higher immunity test levels, or additional tests, specified in EN/IEC 60255-22 or EN/IEC 61000-4 or other EN standards.

All tests in this standard are type tests.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments or revisions of any of these publications shall apply to this European Standard only when incorporated by amendment or revision. For undated references the latest edition of the publication shall apply.

|                |   |
|----------------|---|
| EN 55011       | Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 11, mod.) |
| EN 55022       | Limits and methods of measurement of radio interference characteristics of information technology equipment (CISPR 22, mod.)                                |
| EN 60255-22-2  | Part 22: Electrical disturbance tests for measuring relays and protection equipment - Section 2: Electrostatic discharge tests (IEC 60255-22-2)             |
| EN 61000-4-2   | Electromagnetic compatibility - Part 4: Testing and measurement techniques Section 2: Electrostatic discharge immunity test (IEC 61000-4-2)                 |
| EN 61000-4-3   | Section 3: Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3, mod.)   |
| EN 61000-4-4   | Section 4: Electrical fast transient/burst immunity test (IEC 61000-4-4)  |
| EN 61000-4-5   | Section 5: Surge immunity test (IEC 61000-4-5)  |
| EN 61000-4-6   | Section 6: Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6)  |
| EN 61000-4-8   | Section 8: Power frequency magnetic field immunity test (IEC 61000-4-8)   |
| IEC 60050(161) | International Electrotechnical Vocabulary Chapter 161: Electromagnetic compatibility  |
| IEC 60050(446) | Chapter 446: Electrical relays  |
| IEC 60050(448) | Chapter 448: Power system protection  |
| IEC 60255-11   | Electrical relays Part 11: Interruptions to and alternating component (ripple) in d.c. auxiliary energising quantity of measuring relays                    |

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