

**Disturbances in supply systems caused by household appliances and similar electrical equipment -- Part 1:
Definitions**

EVS

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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EUROPEAN STANDARD

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Part 1

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ENGLISH VERSION

DISTURBANCES IN SUPPLY SYSTEMS CAUSED BY HOUSEHOLD APPLIANCES AND SIMILAR ELECTRICAL EQUIPMENT.

PART 1 : DEFINITIONS.

(IEC 555-1 (1982 - 1st edition))

Perturbations produites dans Les réseaux d'alimentation par Les appareils électrodomestiques et Les équipements analogues

Première partie: Définitions

(CEI 555-1 (1982 - 1ère édition))

Rückwirkungen in Stromversorgungsnetzen, die durch Haushaltgeräte und durch ähnliche elektrische Einrichtungen verursacht werden

Teil 1: Begriffe

(IEC 555-1 (1982 - 1. Ausgabe))

This European Standard was ratified by CENELEC on 27 February 1986. CENELEC members are bound to comply with the requirements of the CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date List and bibliographical references concerning such national standards may be obtained on application to the CENELEC 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 CENELEC Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxemburg, 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

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BRIEF HISTORY

The CENELEC Questionnaire Procedure performed for finding out whether or not IEC 555-1 (first edition, 1982) could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as a European Standard (EN). The Reference Document was submitted to the CENELEC members for vote and acceptance by CENELEC.

TECHNICAL TEXT

The text of the International Standard IEC 555-1 (first edition, 1982) was approved by CENELEC on 27 February 1986 as a European Standard.

The following dates were fixed for the EN:

doa: 1986-12-01
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Note: EN 60 555 Part 1, Part 2 and Part 3 supersedes EN 50 006.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DISTURBANCES IN SUPPLY SYSTEMS
CAUSED BY HOUSEHOLD APPLIANCES
AND SIMILAR ELECTRICAL EQUIPMENT**

Part 1: Definitions

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

PREFACE

This standard has been prepared by IEC Technical Committee No.77: Electromagnetic Compatibility between Electrical Equipment including Networks.

Drafts were discussed at the meetings held in Moscow in 1977 and in The Hague 1979. As a result of this latter meeting, a draft, Document 77(Central Office)4, was submitted to the National Committees for approval under the Six Months' Rule in June 1980.

The National Committees of the following countries voted explicitly in favour of publication:

Australia	Korea (Democratic People's Republic of)
Austria	Netherlands
Belgium	New Zealand
Canada	Norway
Egypt	Poland
Finland	South Africa (Republic of)
France	Sweden
Germany	Switzerland
Hungary	Turkey
Ireland	Union of Soviet
Israel	Socialist Republics
Italy	United States of America
Japan	Yugoslavia

Other IEC publication quoted in this standard:

Publication No. 50: International Electrotechnical Vocabulary (I.E.V.).

DISTURBANCES IN SUPPLY SYSTEMS CAUSED BY HOUSEHOLD APPLIANCES AND SIMILAR ELECTRICAL EQUIPMENT

Part 1: Definitions

1. Scope and object

This standard is one of a series which deals with disturbances in supply systems caused by household appliances and similar electrical equipment.

This series will consist of three parts:

Part 1: Definitions (IEC Publication 555-1).

Part 2: Harmonics (IEC Publication 555-2).

Part 3: Voltage fluctuations (IEC Publication 555-3).

2. General terms

2.1 Electromagnetic compatibility

The ability of a device to function satisfactorily in its electromagnetic environment without introducing intolerable disturbances to that environment or to other devices therein.

2.2 Input (or output) power control

The methods and means of regulating the electric energy supplied to (or from) an apparatus, machine or system to achieve required performance.

2.3 Control system

A combination of control apparatus or devices co-ordinated to execute a planned set of controls, or to maintain a pre-set value.

2.4 Cyclic on/off switching control

An input power control which operates to switch the supply to the equipment on and off in a repetitive manner.

Note. — In a cyclic switching control system, electromechanical or electronic switches can be used.

2.5 Programme (program) (of a control system)

A set of command and information signals necessary for the achievement of a specific sequence of operations.