

SLOVENSKI STANDARD

SIST EN 60335-2-56:1998

01-december-1998

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Safety of household and similar electrical appliances -- Part 2-56: Particular requirements for projectors and similar appliances

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 2-56: Besondere Anforderungen für Projektoren und ähnliche Geräte

Sécurité des appareils électrodomestiques et analogues -- Partie 2-56: Règles particulières pour les projecteurs d'images et appareils analogues

Ta slovenski standard je istoveten z: EN 60335-2-56:1997

ICS:

13.120	Varnost na domu	Domestic safety
37.040.10	Fotografska oprema.	Photographic equipment.
	Projektorji	Projectors
37.060.10	Filmska oprema	Motion picture equipment

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-56

May 1997

ICS 37.040.10; 37.060.10

Supersedes EN 60335-2-56:1991

Descriptors: Household electrical appliances, slide projectors, motion-picture projectors, safety requirements, protection against electric shock, fire protection, protection against mechanical hazard

English version

Safety of household and similar electrical appliances
Part 2: Particular requirements for projectors and similar appliances
(IEC 60335-2-56:1997)

Sécurité des appareils
 électrodomestiques et analogues
 Partie 2: Règles particulières pour
 les projecteurs d'images et appareils
 analogues
 (CEI 60335-2-56:1997)

Sicherheit elektrischer Geräte für den
 Hausgebrauch und ähnliche Zwecke
 Teil 2: Besondere Anforderungen für
 Projektoren und ähnliche Geräte
 (IEC 60335-2-56:1997)

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This European Standard was approved by CENELEC on 1997-03-11. 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, 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

The text of document 61/1049/FDIS, future second edition of IEC 60335-2-56, prepared by the IEC Technical Committee 61 was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60335-2-56 on 1997-03-11.

The following dates are applicable:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1998-01-01
- date on which national standards
conflicting with the EN have to be withdrawn (dow) 2000-01-01

For products which have complied with EN 60335-2-56:1991 before 2000-01-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2005-01-01.

This standard has to be used in conjunction with EN 60335-1, Safety of household and similar electrical appliances, Part 1: General requirements. It was established on the basis of the 1994 edition of that standard. Amendments and revisions of part 1 have also to be taken into account and the dates when such changes become applicable will be stated in the relevant amendment or revision of part 1.

This part 2 supplements or modifies the corresponding clauses of EN 60335-1, so as to convert it into the European Standard: Safety requirements for electric projectors and similar appliances.

Where a particular subclause of part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text of part 1 is to be adapted accordingly.

Subclauses and tables which are additional to those in part 1 are numbered starting with 101.

There are no special national conditions causing a deviation from this European Standard, other than those listed in annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in annex ZB to EN 60335-1.

NOTE - The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in clause 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also in bold.

p NOTE - In this document p is used in the margin to indicate instructions for preparing the printed version.

Endorsement notice

The text of the International Standard IEC 335-2-56:1997 was approved by CENELEC as an European Standard without any modification.

Annexes**Annex A - Normative references**

p Replace by:

Annex A
(normative)

Normative references**International publications with their relevant European publication**

Addition:

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<u>IEC standard</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
60574-18	1987	Audiovisual, video and television equipment and systems Part 18: Connectors for automatic slide projectors with built-in triacs for audiovisual applications	HD 369.18 S1	1989
60598-1 (mod)	1996	Luminaires Part 1: General requirements and tests	EN 60598-1	1997

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60335-2-56

Deuxième édition
Second edition
1997-04

**Sécurité des appareils électrodomestiques
et analogues**

**Partie 2:
Règles particulières pour les projecteurs
d'images et appareils analogues**

STANDARD PREVIEW

**Safety of household and similar
electrical appliances**

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**Part 2:
Particular requirements for projectors
and similar appliances**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SAFETY OF HOUSEHOLD AND SIMILAR
ELECTRICAL APPLIANCESPart 2: Particular requirements for projectors
and similar appliances

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60335 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

It forms the second edition of IEC 60335-2-56 and replaces the first edition, published in 1990.

The text of this standard is based on the following documents:

FDIS	Report on voting
61/1049/FDIS	61/1190/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments. It was established on the basis of the third edition (1991) of that standard.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert it into the IEC standard: Safety requirements for electric projectors and similar appliances.

Where a particular subclause of part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text in part 1 is to be adapted accordingly.

NOTES

1 The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in clause 2. When a definition of part 1 concerns an adjective, the adjective and the associated noun are also in bold.

2 Subclauses and tables which are additional to those in part 1 are numbered starting from 101.

The following additional differences exist in some countries.

- 2.2.9: Operating times are different (USA).
- 11.8: The addition is not applicable (USA).
- 19.1: The test of 19.9 is carried out (USA).
- 19.7: The test is different (USA).
- 21.101: The test is different (USA).

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SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

Part 2: Particular requirements for projectors and similar appliances

1 Scope

This clause of part 1 is replaced by:

This standard deals with the safety of electric projectors and similar appliances for household and similar purposes, their **rated voltage** being not more than 250 V.

NOTE 1 – Examples of appliances that are within the scope of this standard are:

- slide projectors (diascopes);
- film-strip projectors;
- overhead projectors;
- opaque projectors (episcopes);
- opaque-transparency projectors (epidiascopes);
- microscope projectors;
- effects projectors;
- still viewers;
- film viewers;
- motion picture projectors;
- photoreproduction appliances;
- photographic enlargers;
- slide-sorting appliances.

Projectors may incorporate sound amplifiers.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended for use by laymen in schools, offices, shops and similar locations are within the scope of this standard.

So far as practicable, this standard deals with the common hazards presented by appliances which are encountered by all persons in and around the home.

This standard does not, in general, take into account

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliance by young children.

NOTES

2 Attention is drawn to the fact that:

- for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary;
- for appliances intended to be used in tropical countries, special requirements may be necessary;