



SLOVENSKI STANDARD

SIST EN 60299:1998

01-januar-1998

Household electric blankets - Methods for measuring performance (IEC 299:1994)

Household electric blankets - Methods for measuring performance

Elektrische Haushalt-Wärmeunterbetten/Wärmezudecken - Prüfverfahren zur Bestimmung der Gebrauchseigenschaften

Couvertures chauffantes électriques à usage domestique - Méthodes de mesure de l'aptitude à la fonction

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Ta slovenski standard je istoveten z: **EN 60299:1994**

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ICS:

97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general
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EUROPEAN STANDARD

EN 60299

NORME EUROPEENNE

EUROPÄISCHE NORM

May 1994

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Descriptors: Household electrical appliances, blankets, performance,
measurements, tests

ENGLISH VERSION

Household electric blankets
Methods for measuring performance
(IEC 299:1994)

Couvertures chauffantes
électriques à usage domestique
Méthodes de mesure de l'aptitude
à la fonction

(CEI 299:1994)

Elektrische
Haushalt-Wärmeunterbetten/
Wärmzudecken - Prüfverfahren
zur Bestimmung der
Gebrauchseigenschaften
(IEC 299:1994)

This European Standard was approved by CENELEC on 1994-03-08.
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This European Standard exists in three official versions (English, French, German).
A version in any other language made by translation under the responsibility of
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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 59C(CO)48, as prepared by Sub-Committee 59C: Heating appliances, of IEC Technical Committee 59: Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote in July 1993.

The reference document was approved by CENELEC as EN 60299 on 8 mars 1994.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1995-03-15
- latest date of withdrawal of conflicting national standards (dow) 1995-03-15

For products which have complied with the relevant national standard before 1995-03-15, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-03-15.

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ENDORSEMENT NOTICE

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The text of the International Standard IEC 299:1994 was approved by CENELEC as a European Standard without any modification.

NORME
INTERNATIONALE
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STANDARD

CEI
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299

Deuxième édition
Second edition
1994-01

Couvertures chauffantes électriques
à usage domestique –
Méthodes de mesure de l'aptitude à la fonction

iTeh STANDARD PREVIEW
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International Electrotechnical Commission
Международная Электротехническая Комиссия

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CONTENTS

	Page
FOREWORD	5
 Clause	
1 Scope	7
2 Normative reference	7
3 Definitions	7
4 Classification	9
5 List of measurements	11
6 General conditions for measurements	11
7 Dimensions and mass	13
8 Evenness of temperature	15
9 Heating-up time	17
10 Stability of temperature	17
11 Effect of laundering on dimensions	19
 Figures	
1 Grid for temperature measurements	20
2 Layout for grids	21

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HOUSEHOLD ELECTRIC BLANKETS –
METHODS FOR MEASURING PERFORMANCE

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 cooperation 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, 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.
- 3) They have the form of recommendations for international use 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.

International Standard IEC 299 has been prepared by sub-committee 59C, of IEC technical committee 59: Performance of household electrical appliances.

79c8c86b9685/sist-en-60299-1998

This second edition of IEC 299 cancels and supersedes the first edition issued in 1969.

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

DIS	Report on voting
59C(CO)48	59C(CO)49

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

In this standard, the following print types are used:

- *test specifications: in italic type*
- notes: in small roman type
- other text: in roman type

Words in **bold** in the text are defined in clause 3.

3.5 blanket with uniform temperature: Blanket having an even temperature over the heated area.

3.6 blanket with non-uniform temperature: Blanket in which the temperature gradually increases from the head end to the foot end of the heated area.

3.7 blanket with a high temperature zone: Blanket having an even temperature over the major part and having a higher temperature zone generally at the foot end of the heated area.

3.8 blanket with ambient temperature compensation: Blanket having a power input which significantly varies inversely with changes in ambient temperature.

3.9 heated area: That area of the flexible part enclosed within the outer perimeter of the heating element. It includes a margin outside the perimeter having a width equal to 0,5 times the average distance between adjacent parallel runs of the heating element.

NOTES

1 The **heated area** includes the return length of the heating element if the average distance between this part and the adjacent heating element does not exceed the average distance between adjacent parallel runs of the heating element.

2 If a double blanket has two heating elements which are separately controlled, it has two **heated areas**.

4 Classification

4.1 According to type:

- **underblanket**;
- **overblanket**.

4.2 According to the size and the number of heated areas:

- single blanket;
- double blanket with one heated area;
- double blanket with two heated areas.

4.3 According to temperature distribution:

- blanket with uniform temperature;
- blanket with non-uniform temperature;
- blanket with a high temperature zone.

4.4 According to means of temperature regulation:

- blanket without any control;
- blanket with a control having variable settings;
- blanket with a control having step settings;
- blanket with ambient temperature compensation;
- blanket with automatic power reduction.

NOTE - A blanket with automatic power reduction is a blanket in which the power input is automatically reduced after a warming-up period.

4.5 According to the type of supply:

- **blanket** for direct connection to the supply mains;
- extra low voltage **blanket**.

NOTE - An extra low voltage **blanket** has a rated voltage not exceeding 24 V.

4.6 According to the method of cleaning:

- washable by hand or machine;
- not washable.

The classifications of the **blanket** are stated.

5 List of measurements

Performance is determined by means of the following measurements:

- dimensions and mass (clause 7);
- evenness of temperature (clause 8);
- heating-up time (clause 9);
- stability of temperature (clause 10);
- effect of laundering (clause 11).

6 General conditions for measurements

Unless otherwise specified, measurements are made under the following conditions:

Test room:

The tests are carried out in a draught-free room in which the ambient temperature is maintained at $20\text{ °C} \pm 5\text{ °C}$.

Supply voltage:

The supply voltage is maintained at the rated voltage $\pm 1\%$. When the **blanket** is marked with a rated voltage range, the report shall state the voltage used for the test.

NOTE 1 - If the results obtained by testing the **blanket** at rated voltage are considered to be misleading due to the national supply voltage, the **blanket** may also be tested at a voltage corresponding to the nominal voltage of the national supply system.

Arrangement of the **blanket**:

Any detachable cover is fitted and the **flexible part** is placed between sheets of lagging material, the size of which is such that the edges extend at least 100 mm beyond the outline of the heated area.