



SLOVENSKI STANDARD
SIST EN 60335-2-11:1995

01-marec-1995

Safety of household and similar electrical appliances - Part 2: Particular requirements for tumbler dryers (IEC 335-2-11:1984, modified)

Safety of household and similar electrical appliances -- Part 2: Particular requirements for tumbler dryers

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

Sécurité des appareils électrodomestiques et analogues -- Partie 2: Règles particulières pour les séchoirs à tambour

[SIST EN 60335-2-11:1995](https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995)

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Ta slovenski standard je istoveten z: EN 60335-2-11:1989/A51:1993

ICS:

13.120	Varnost na domu	Domestic safety
97.060	Aparati za nego perila	Laundry appliances

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EUROPEAN STANDARD
NORME EUROPEENNE
EUROPÄISCHE NORM

EN 60 335-2-11
April 1989

UDC: 621.365:64-621-83:64:614.8.004.1-777:621.396.669.8

KEY WORDS: Household electrical appliance; tumbler dryer; protection against electric shock; protection against fire risk; protection against mechanical hazard

ENGLISH VERSION

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES
PART 2: PARTICULAR REQUIREMENTS FOR TUMBLER DRYERS
(IEC 335-2-11 (1984) 3rd edition, modified)

Sécurité des appareils électrodomestiques et analogues	Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke
Deuxième partie:	Teil 2:
Règles particulières pour les séchoirs à tambour (CEI 335-2-11 (1984) 3ème édition, modifiée)	Besondere Anforderungen für Trommeltrockner (IEC 335-2-11 (1984) 3. Ausgabe, modifiziert)

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This European Standard was ratified by CENELEC on 6 December 1988.

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 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, Iceland, 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

Central Secretariat: rue Bréderode 2, B - 1000 Brussels

EN 60 335-2-11

BRIEF HISTORY

The proposal to endorse the third edition of IEC Publication 335-2-11, document CENELEC/TC 61 (SEC) 439, was circulated under the enquiry procedure in March 1985.

This proposal was discussed during the Zandvoort meeting in June 1986 when it was decided to submit a draft for EN 60 335-2-11 to the voting procedure. This procedure started in May 1988.

The text of this draft was ratified by the CENELEC Technical Board on the 6th of December 1988.

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FOREWORD

R This European Standard has been prepared by the Secretariat of CENELEC Technical Committee 61.

The following dates are applicable:

- date of announcement (doa) 1989-06-01
- date of latest publication (dop) 1989-12-01
- date of withdrawal of conflicting national standards (dow) 1990-09-01

This European Standard replaces HD 268 S2.

This document supplements or modifies the corresponding clauses of IEC 335-2-11, third edition, so as to convert that standard into the European Standard EN 60 335-2-11, which has to be used in conjunction with EN 60 335-1 (1988), Safety of household and similar electrical appliances, Part 1: General requirements.

Sub-clauses which are in addition to those in IEC 335-2-11 are numbered starting with 601.

Special national conditions (snc) causing a deviation from this European Standard are listed in Annex ZX and are in addition to those in EN 60 335-1.

National deviations from this European Standard are listed in Annex ZY and are in addition to those in EN 60 335-1.

r The following print types referred to in the preface of IEC 335-2-11 are used:

- requirements proper: in roman type (indicated in this document in the margin by R);
- test specifications: in italic type (indicated in this document in the margin by i);
- explanatory matter: in smaller roman type (indicated in this document in the margin by r).

In addition:

- instructions for modification of the reference document: in italic type (indicated in this document in the margin by i).

EN 60 335-2-11

ENDORSEMENT NOTICE

R IEC 335-2-11, third edition (1984), applies, taking into account the following common modifications.

COMMON MODIFICATIONS

- i Foreword Delete.
- Preface On page 5, delete the sentence "Consideration may be given to future editions of or amendments to IEC Publication 335-1".
- On page 7, delete the text dealing with the differences existing in some countries.
7. **MARKING**
- i 7.1 Add:
- r Tumbler dryers must be marked with the symbol for splash-proof construction. (standards.iteh.ai)
- Refer snc. [SIST EN 60335-2-11:1995](https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995)
- i 7.10 Delete. <https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995>
11. **HEATING**
- i 11.6 Add:
- If, for tumbler dryers incorporated in washing machines, the drying function can automatically follow the washing function, the container is not separately loaded. The tumbler dryer is operated with the maximum quantity of textile material specified by the manufacturer for the combined washing-drying cycle.
- 11.7 Replace this sub-clause by:
- Replacement:
Tumbler dryers provided with a timer, a humidity sensing control or other time-limiting device, are subjected to three cycles. Each cycle comprises an operating period having a duration equal to the maximum time that can be provided by the device, and a rest period of 4 min.
During the rest periods, the tumbler dryer is reloaded.
Other tumbler dryers are operated continuously until steady conditions are established.

COMMON MODIFICATIONS

- i For tumbler dryers incorporated in washing machines where the drying function automatically follows the washing function, the test may be ended if, during the second cycle, the temperature rise of any part of the tumbler dryer does not exceed the value determined during the first cycle by more than 5 K.
19. **ABNORMAL OPERATION**
- i 19.1 Add:
- r Addition:
If operation without water is considered to be a more severe condition for condensation-type tumbler dryers which are connected to the water supply, the tests are made with the water tap closed. However, this tap is not closed after the tumbler dryer has been switched on.
- i 19.6 Delete the explanation referring to Appendix D.
20. **STABILITY AND MECHANICAL HAZARDS**
- i Add: [SIST EN 60335-2-11:1995](https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995)
<https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995>
- R 20.601 Tumbler dryers with horizontally hinged doors shall have adequate stability when the open door is subjected to a load.
- i Compliance is checked by the following test.
The tumbler dryer is placed on a horizontal surface, without textile material in the container. A weight having a mass of 23 kg is then applied to the centre of the open door. During the test, the tumbler dryer shall not tilt. After the test, the door and the hinges shall not be damaged or deformed to such an extent that this will impair compliance with this standard.
- r For tumbler dryers which, according to the manufacturer's instructions, can be placed on top of another appliance, the test is not made with the tumbler dryer in the stacked position.

EN 60 335-2-11

COMMON MODIFICATIONS

22. CONSTRUCTION
- i Add:
- 22.2 Replacement:
R Tumbler dryers shall be splash proof.
- i Compliance is checked by inspection and by the relevant tests.
- 22.102 Delete.
24. COMPONENTS
- i Add:
- R 24.601 Thermal cut-outs intended to protect the tumbler dryer against overheating by heating elements, shall be of the non-self-resetting type.
- i Compliance is checked by inspection and by the tests of Clause 19.
- Appendix C Delete. [SIST EN 60335-2-11:1995](https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-da481227d70c/sist-en-60335-2-11-1995)
- Appendix D Delete.

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ANNEX ZX (normative)

SPECIAL NATIONAL CONDITIONS

R The following special national conditions, which are in addition to those in EN 60 335-1, exist in the countries mentioned.

7.1 DENMARK

Tumbler dryers of Class I shall be marked with the following text:
Skal ekstrabeskyttes, jf. stærkstrømsregl.

r Shall be protected against indirect contact, see heavy Current Regulations.

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EN 60 335-2-11

ANNEX ZY (informative)

National deviations

R This document was compiled by CENELEC Technical Committee 61. It contains national deviations from the content of the European Standard EN 60 335-2-11. These deviations are in addition to those in EN 60 335-1 and could not yet be removed. They are only applicable in the countries concerned.

1. NATIONAL DEVIATIONS DUE TO LEGAL REQUIREMENTS

There are no national deviations due to legal requirements other than those listed in Annex ZY of EN 60 335-1.

2. NATIONAL DEVIATIONS DUE TO PARTICULAR TECHNICAL REQUIREMENTS PERMITTED TO BE MAINTAINED UNTIL THE DATE SPECIFIED

22 SWEDEN

1990-09-01

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 Tumbler dryers which, according to the manufacturer's instructions, can be placed on top of another appliance, shall be delivered with a reliable means preventing the tumbler dryer from tilting or falling.

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<https://standards.iteh.ai/catalog/standards/sist/cee87a4c-66bd-4ac7-a43f-d4d1777c4-66bd-4ac7-a43f>

i Compliance is checked by inspection and by manual test.

EUROPEAN STANDARD
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EN 60335-2-11/A1

November 1990

UDC 621.365:64-621-83:64:614.8.004.1-777:621.396.669.8

Descriptors: Household electrical appliance, tumbler dryer, protection against electric shock, protection against fire risk, protection against mechanical hazard

Amendment A1 to the English version of EN 60335-2-11

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES
PART 2: PARTICULAR REQUIREMENTS FOR TUMBLER DRYERS
(Amendment 1:1989 to IEC 335-2-11:1984, modified)

Sécurité des appareils électrodomestiques et analogues	Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke
Deuxième partie:	Teil 2:
Règles particulières pour les séchoirs à tambour	Besondere Anforderungen für Trommeltrockner
(Modification 1:1989 à la CEI 335-2-11:1984, modifiée)	(Änderung 1:1989 zu IEC 335-2-11:1984, modifiziert)

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This amendment A1 modifies the European Standard EN 60335-2-11:1989. It was approved by CENELEC on 11 June 1990. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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

BRIEF HISTORY

The proposal to endorse amendment 1 to IEC Publication 335-2-11, documents CLC/TC 61 (SEC) 580, 641, 659 and 660, was circulated under the enquiry procedure in August 1987, March 1988 and September 1988.

This proposal was discussed during the Neusiedl meeting in May 1988 and the Brussels meetings in November 1988 and May 1989, when it was decided to submit a draft for an amendment to EN 60335-2-11 to the voting procedure. This procedure started in November 1989.

The text of this draft was ratified by the CENELEC Technical Board on the 11th of June 1990.

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FOREWORD

R This amendment has been prepared by the secretariat of CENELEC Technical Committee 61.

The following dates are applicable:

- date of announcement (doa) 1991-01-01
- date of latest publication (dop) 1991-07-01
- date of withdrawal of conflicting national standards (dow) 1993-07-01

For products which have complied with EN 60335-2-11:1989 before 1993-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-07-01.

This document supplements or modifies the corresponding clauses of amendment 1:1988 to IEC 335-2-11:1984, so as to convert it into amendment A1 to EN 60335-2-11:1989.

As a consequence of endorsing amendment 1 to IEC 335-2-11, the common modifications in EN 60335-2-11 concerning subclauses 11.6, 11.7, 19.1, 20.601 and 22.2 are withdrawn. This procedure results in replacing these common modifications by similar IEC text.

EN 60335-2-11, including this amendment, has to be used in conjunction with EN 60335-1:1988, including its amendments A2:1988, A5:1989 and A6:1989.

There are no special national conditions (snc) causing a deviation from this amendment.

There are no national deviations from this amendment.

Other publication quoted in this standard:

HD 243:1989 Graphical symbols for use on equipment (see IEC 417:1975)

Note: In this document the following indications are used in the margin:

- R for roman type,
- i for italic type,
- r for small roman type,
- p for instructions for preparing the printed version.
