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**Gospodinjski in podobni električni aparati - Varnost - 2-7. del: Posebne zahteve za pralne stroje - Dopolnilo AA**

Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for washing machine

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Teil 2-7: Besondere Anforderungen für Waschmaschinen

Appareils électrodomestiques et analogues - Sécurité - Partie 2-7: Exigences particulières pour les machines à laver le linge

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**Ta slovenski standard je istoveten z: prEN IEC 60335-2-7:2020/prAA:2020**

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**ICS:**

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

**oSIST prEN IEC 60335-2-7:2020/oprAA:2020**

**en,fr**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN IEC 60335-2-7:2020/prAA**

March 2020

ICS

English Version

## Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for washing machine

Appareils électrodomestiques et analogues - Sécurité -  
Partie 2-7: Exigences particulières pour les machines à  
laver le linge

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Teil 2-7: Besondere Anforderungen für  
Waschmaschinen

This draft European Standard is submitted to CENELEC members for enquiry.  
Deadline for CENELEC: 2020-05-29.

It has been drawn up by CLC/TC 61.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**prEN IEC 60335-2-7:2020/prAA:2020 (E)****European foreword**

This document prEN IEC 60335-2-7:2020/prAA:2020 has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

This amendment supplements or modifies the corresponding clauses of the standards below:

- EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 (Part 1)
- EN IEC 60335-2-7:2019 (Part 2)

For the relationship with EU Directive(s) see informative Annexes ZZA and ZZB, which are an integral part of this document.

<https://standards.iteh.ai/catalog/standards/sist/75c96e43-c955-426e-953e-b7323362f7/prEN-IEC-60335-2-7:2020/oprAA:2020>

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

**Endorsement notice**

The text of the International Standard IEC 60335-2-7:2019 was approved by CENELEC as a European Standard with agreed common modifications.

## COMMON MODIFICATIONS

### 1 Modification to the Scope

*Delete Note 101 and replace the fourth and fifth paragraph except the Note 103 and Note 104 by the following:*

Appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this standard.

NOTE Z101 Examples of appliance for household environment are appliances for typical housekeeping functions used in the household environment that may also be used by non-expert users for typical housekeeping functions:

- in shops and other similar working environments;
- in farm houses;
- by clients in hotels, motels and other residential type environments;
- in bed and breakfast type environments.

NOTE Z102 Household environments include the dwelling and its associated buildings, the garden, etc.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in household and similar environments.

However, in general, it does not take into account

- **children** playing with the appliance,
- the use of the appliance by **very young children**,
- **the use of the appliance** by **young children** without supervision,
- **user maintenance** by **children**, including the cleaning of the appliance.

It is recognized that **very vulnerable people** may have needs beyond the level addressed in this standard.

*Add the following dashed items to Note 103:*

- for washing machines having a separate spin container for water extraction, EN 60335-2-4 is also applicable,
- for washing machines having a drying function, EN 60335-2-11 is also applicable,

*Add the following dashed items to Note 104:*

- washing machines to be used in the commercial areas, e.g. laundrettes (EN 50571)

### 2 Modification to clause 7 "Marking and instructions"

**7.12 Addition:**

*In the fifth dashed item delete the text "or in laundrettes"*

*Add the following new paragraph:*

Children of less than 3 years should be kept away unless continuously supervised.

**prEN IEC 60335-2-7:2020/prAA:2020 (E)****3 Modification to clause, 11 "Heating"****11.7 Modification:****Secretaries note:**

The following text was incorporated in the previous common modification but has not been adopted by IEC.

*The text "including any braking time" in the fifth paragraph.*

**4 Modification to clause 15 "Moisture Resistance"****15.2 Replacement:****Secretaries note:**

The following two paragraphs were incorporated in the previous common modification but has not been adopted by IEC.

*For appliances having a working surface, the test is repeated with the appliance tilted at an angle of 2° in relation to the position of normal use in the direction which is likely to be the most unfavourable.*

*The lid of top loading appliances is considered as a working surface if it is flat enough to put something on.*

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**5 Modification to clause 18 "Endurance"**

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<https://standards.iteh.ai/catalog/standards/sist/75c96e43-c955-426e-953e-1e73f22363f7/osist-pren-iec-60335-2-7-2020-opraa-2020>

**18. 101 Replacement:**

Replace in the last paragraph of the compliance criteria "of 20.103 to 20.105" by "of 20.Z102 and 20.Z103"

**6 Modification to clause 19 "Abnormal operation"****19.13 Replacement:**

Replace in the last paragraph of the compliance criteria "of 20.103 to 20.105" by "of 20.Z102 and 20.Z103"

**7 Modification to clause 20 "Stability and mechanical hazards"****20.101**

Delete 20.101 and add the following new paragraph:

**20.Z101**

*For appliances of the drum type, the drum drive motor shall be de-energized before the opening of the lid or door exceeds 50 mm.*

*If a removable or sliding lid is provided, the motor shall be de-energized as soon as the lid is removed or displaced and it shall not be possible to start the motor unless the lid is in the closed position.*

*Compliance is checked by measurement and inspection*

**20.103**

Delete 20.103 and add the following new paragraph:

**20.Z102**

For appliances of the drum type, it shall only be possible to energize the drum drive motor when the lid or door is in the closed position.

*Compliance is checked by inspection and by manual test using test probe B of IEC 61032 in an attempt to override the locking function.*

**20.104**

Delete 20.104 and add the following new paragraph:

**20.Z103**

It shall not be possible to open the lid or door of an appliance while the drum speed exceeds 60 r/min.

*Compliance is checked by the following test.*

*The appliance is supplied at **rated voltage** and operated empty or filled as specified for **normal operation**, whichever is more unfavourable. The force determined during the test of 22.104 with the lid or door locked is applied to the lid or door in an attempt to open it.*

*If compliance relies on the operation of an electronic circuit, the test is repeated under the following conditions applied separately:*

- the fault conditions in a) to g) of 19.11.2 applied one at a time to the electronic circuit;
- the electromagnetic phenomena tests of 19.11.4.2 and 19.11.4.5 applied to the appliance.

*If the electronic circuit is programmable, the software shall contain measures to control the fault/error conditions specified in Table R.1 and is evaluated in accordance with the relevant requirements of Annex R.*

*It shall not be possible to open the lid or door while the drum speed exceeds 60 r/min.*

**20.105** Delete the text

## **8 Modification to clause 21 "Mechanical strength"**

**21.101.2**

Replace in the last paragraph of the compliance criteria "of 20.103 to 20.105" by "of 20.Z102 and 20.Z103"

**21.102**

Replace in the last paragraph of the compliance criteria "of 20.103 to 20.105" by "of 20.Z102 and 20.Z103"

## **9 Modification to clause 22 "Construction"**

Add the following new subclause:

**22.Z101**

**prEN IEC 60335-2-7:2020/prAA:2020 (E)**

Washing machines shall be fitted with an accessible switch to stop all operational functions of the appliance.

*Compliance is checked by inspection*

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## 10 Modification to the Annexes

*The annexes of part 1 are applicable with following modification:*

### **Annex R (normative)**

#### **Software evaluation**

**R.2.2.5 Modification:**

*Replace “20.104” by “20.Z103”*

*Delete “20.105” in the modification*

**R.2.2.9 Modification:**

*Replace “20.104” by “20.Z103”*

*Delete “20.105” in the modification*

### **Annex DD (informative)**

*Delete Annex DD*

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## Annex ZC (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

*The Annex ZC of EN 60335-1:2012 is applicable, except as follows:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
<i>Addition</i>				
IEC 60584-1	-	Thermocouples - Part 1: EMF specifications and tolerances	EN 60584-1	-
IEC 60730-2-12	2015	Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks	EN IEC 60730-2- 12	2019
ISO 1817	2015	Rubber, vulcanized or thermoplastic - Determination of the effect of liquids	-	-

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