



SLOVENSKI STANDARD
SIST EN 60335-2-7:2010/A11:2014
01-januar-2014

Gospodinski in podobni električni aparati - Varnost - 2-7. del: Posebne zahteve za pralne stroje - Dopnilo A11

Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines

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

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

PREVIEW
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Ta slovenski standard je istoveten z: EN 60335-2-7:2010/A11:2013

ICS:

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

SIST EN 60335-2-7:2010/A11:2014 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60335-2-7/A11

October 2013

ICS 13.120; 97.060

English version

**Household and similar electrical appliances -
Safety -
Part 2-7: Particular requirements for washing machines**

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

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

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This amendment A11 modifies the European Standard EN 60335-2-7:2010; it was approved by CENELEC on 2012-12-31. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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CENELEC

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

This document (EN 60335-2-7:2010/A11:2013) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented (dop) 2014-04-25
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2014-11-21
this document have to be withdrawn

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 and its amendments, EN 60335-2-7:2010 and EN 60335-2-7:2010/A11:2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

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1 Scope

Replacement:

This clause of Part 1 is replaced by the following.

This European Standard deals with the safety of electric washing machines for household and similar purpose, that are intended for washing clothes and textiles, their rated voltage being not more than 250 V for single-phase and 480 V for others. These washing machines in this European Standard are generally referred to as appliances.

This European Standard also deals with the safety of electric washing machines for household and similar use employing an electrolyte instead of detergent. Additional requirements for these appliances are given in Annex CC.

Appliances intended to be used by laymen in shops and other premises for normal housekeeping purposes, are within the scope of this European 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 European 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 recognised that **very vulnerable people** may have needs beyond the level addressed in this European Standard.

This European Standard does not apply to

- appliances to be used in the commercial areas, e.g. laundrettes (EN 50571),
- appliances intended exclusively for industrial purposes (EN ISO 10472-2),
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

NOTE Z103 Attention is drawn to the fact that

- for washing machines intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary,
- in many countries additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities,
- 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,

- if an appliance within the scope of this European Standard also incorporates functions that are covered by another Part 2 of EN 60335, the relevant Part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

7 Marking and instructions

7.10 Replace the text beginning by "Devices used to start/stop operational..." and ending in "or position, etc..." by the following:

The accessible switch required by 22.40 shall be distinguished from other manual devices by means of shape, or size, or surface texture, or position, etc.

7.12 Addition:

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

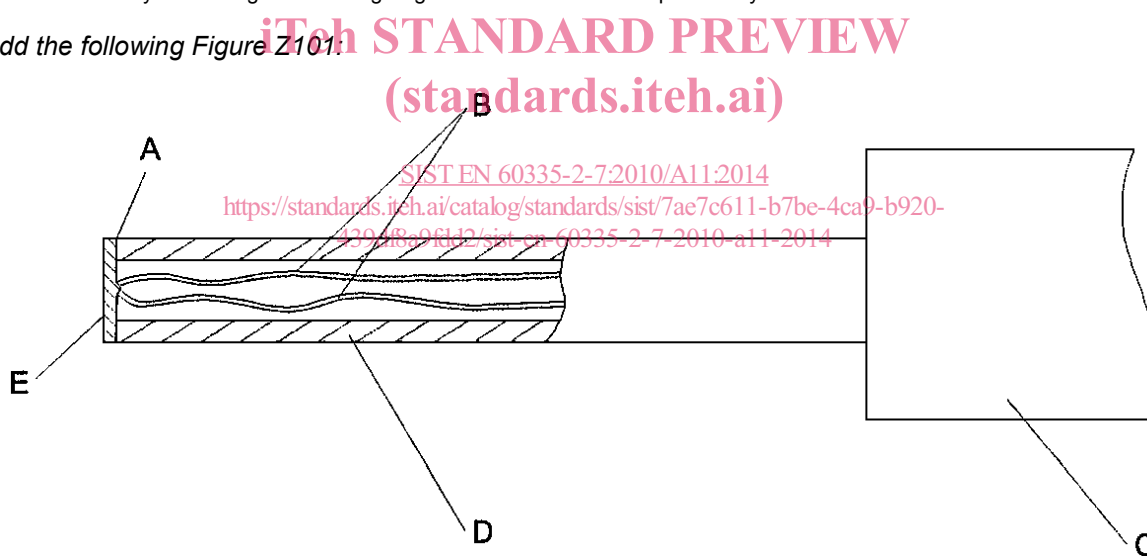
11 Heating

11.3 Addition:

For flat surfaces, temperature rises of the accessible front surface are measured using the probe of Figure Z101. The probe is applied with a force of $4\text{ N} \pm 1\text{ N}$ to the surface in such a way that the best possible contact between the probe and the surface is ensured.

NOTE Z101 Any measuring instrument giving the same results as the probe may be used.

Add the following Figure Z101:



Key

- A adhesive
- B thermocouple wires 0,3 mm diameter to EN 60584-1 Type K (chrome alumel)
- C handle arrangement permitting a contact force of $4\text{ N} \pm 1\text{ N}$
- D polycarbonate tube: inside diameter 3 mm, outside diameter 5 mm
- E tinned copper disc: 5 mm diameter, 0,5 mm thick

NOTE The contact face of the disc is to be flat.

Figure Z101 – Probe for measuring flat surface temperatures

11.8 Modification:

Replace the first paragraph of Part 1 by the following: "During the test, the temperature rises are monitored continuously and shall not exceed the values shown in Table 3 and Table Z101 in accordance with 11.Z101".

In Table 3, delete the row “External enclosure of **motor-operated appliances**, except handles held in normal use” and the corresponding footnotes.

Add the following Table Z101.

**Table Z101 – Maximum temperature rises
for external surfaces under normal operating conditions**

Surface ^a	Temperature rise K		
	Surfaces of appliances situated not more than 850 mm above the floor after installation		Surfaces situated more than 850 mm above the floor after installation
	Front surfaces	Other surfaces	
Bare metal	40	45	45
Coated metal ^b	45	55	55
Glass and ceramic	55	60	60
Plastic and plastic coating > 0,3 mm ^c	60	65	65

^a When the thickness of the plastic coating does not exceed 0,3 mm, the temperature rise limits of the coated metal or of glass and ceramic material apply.

^b Metal is considered coated when a coating having a minimum thickness of 80 µm made by enamel or non substantially plastic coating is used.

^c The temperature rise limit applies also for plastic material having a metal finish of thickness less than 0,1 mm.

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Add the following new subclause:

11.Z101 Temperature rises are not measured:

- on the underside of appliances intended to be used on a working surface or floor;
- on the rear surface of appliances which, according to the instructions, shall be placed against a wall.

20 Stability and mechanical hazards

Add the following new subclause:

20.Z101 For appliances with a front opening door having a dimension exceeding 200 mm and a drum having a volume exceeding 60 dm³, it shall not be possible to start or recommence the washing cycle until a separate means which controls the movement of the drum is operated manually even after the door has been opened and closed again.

Compliance is checked by inspection and measurement.

22 Construction

22.40 Add the following text after the note:

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