



**SLOVENSKI STANDARD**  
**SIST-TP CLC/TR 50417:2017**  
**01-september-2017**

**Nadomešča:**  
**SIST-TP CLC/TR 50417:2014**

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**Varnost gospodinjskih in podobnih električnih aparatov - Razlage v zvezi z evropskimi standardi skupine EN 60335**

Safety of household and similar electrical appliances - Interpretations related to European Standards in the EN 60335 series

**iTeh STANDARD PREVIEW**  
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Sécurité des appareils électrodomestiques et analogues - Interprétations relatives aux Normes Européennes de la série **EN 60335**

<https://standards.iteh.ai/catalog/standards/sist/18e13653-c5ef-4b55-981e-378217bb96ae/sist-tp-clc-tr-50417-2017>

**Ta slovenski standard je istoveten z: CLC/TR 50417:2016**

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**ICS:**

13.120	Varnost na domu	Domestic safety
97.030	Električni aparati za dom na splošno	Domestic electrical appliances in general

**SIST-TP CLC/TR 50417:2017**                      **en**

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TECHNICAL REPORT  
RAPPORT TECHNIQUE  
TECHNISCHER BERICHT

**CLC/TR 50417**

September 2016

ICS 97.030

Supersedes CLC/TR 50417:2014

English Version

**Safety of household and similar electrical appliances -  
Interpretations related to European Standards in the EN 60335  
series**

Sécurité des appareils électrodomestiques et analogues -  
Interprétations relatives aux Normes Européennes de la  
série EN 60335

Sicherheit elektrischer Geräte für den Hausgebrauch und  
ähnliche Zwecke - Auslegungen zu Europäischen Normen  
der Reihe EN 60335

This Technical Report was approved by CENELEC on 2016-07-04.

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

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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**

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**CLC/TR 50417:2016 (E)**

## **European foreword**

This document (CLC/TR 50417:2016) has been prepared by Technical Committee CLC/TC 61, "Safety of household and similar appliances".

This document is currently submitted to voting in accordance with the Internal Regulations, Part 2, Subclause 11.4.3.3 (simple majority) for acceptance as a CENELEC Technical Report.

This document supersedes CLC/TR 50417:2014.

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

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## 1 Scope

This Technical Report includes all the interpretations agreed up to the CLC/TC 61 meeting in December 2015.

It includes all Interpretations currently in force made by CENELEC TC 61 on EN 60335 series of standards. It also includes all decision sheets in force made by OSM/HA. Both types of interpretations are clearly identified. Interpretations relating to a particular standard are listed together, the Parts 2 of EN 60335 being associated with the appropriate edition of Part 1. For each standard, the interpretations are listed in the order of clauses and subclauses.

Each **CENELEC TC 61** interpretation is identified by:

- the place and date of the meeting when it was agreed;
- the document number of the minutes of the meeting;
- the number of the reference document, when applicable;
- a code with the format YYYY/XX, where

YYYY is the year when the interpretation was decided,

XX is the number of the interpretation, restarted every year.

Each **OSM/HA** decision sheet is identified through the following template:

DECISION SHEET		<b>iTeh STANDARD PREVIEW</b> (standards.iteh.ai)		Date YYYY-MM-DD
Standard EN 60335-X				OSM/HA
(Sub)clause	Meeting	Agenda item	Document	Exp. date
	<a href="https://standards.iteh.ai/catalog/standards/sist/18e13653-c5ef-4b55-981e-378217bb96ae/sist-tp-clc-tr-50417-2017">https://standards.iteh.ai/catalog/standards/sist/18e13653-c5ef-4b55-981e-378217bb96ae/sist-tp-clc-tr-50417-2017</a>			
...	...	...	...	

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CLC/TR 50417:2016 (E)

**2 EN 60335-1:1994, General requirements****1995/01 – General****Dublin, May 1995, CLC/TC 61(SEC)1027****CLC/TC 61(FR)292**

In class II constructions of appliances it is not allowed to reverse the basic and the supplementary insulation.

**1996/01 - General****Copenhagen, May 1996, CLC/TC 61(SEC)1075****CLC/TC 61(SEC)1000**

For testing motor capacitors in appliances under the scope of EN 60335, document IEC 61/1055/CD should be used.

**1996/02 – General****Athens, November 1996, CLC/TC 61(SEC)1098****CLC/TC 61(SEC)1087**

The mass of the appliance is to be considered with the empty appliance, if nothing is said in the particular standard or for a particular clause.

**1998/01 - General****Brussels, May 1998, CLC/TC61(SEC)1185**

Controls are considered to comply with EN 60730 if they complied with the previous relevant standard before the date specified in EN 60730, and may be used in an appliance until the end of the certification period.

NOTE 1 Controls will also have to comply with the applicable requirements of EN 60335 series standards.

**2000/01 - General****Kristiansand, June 2000, CLC/TC 61(SEC)1287**

The word “similar” in the title “Toxicity and similar hazards” means other hazards, which may be applicable but not covered by the standard.

**2000/02 - General****Brussels, October 2000, CLC/TC 61(SEC)1302**

Concerning the use of socket-outlets on appliances, those should be of the appropriate type as specified in IEC/TR 60083:1997 for the relevant countries.

**1998/02 - Clause 1****Naples, November 1998, CLC/TC61(SEC)1218**

The scope of EN 60335-1:1994 is meant to include the safety of operators which are instructed to operate the machine, but which are non electrical experts.

**1996/03 - Subclause 15.1.2****Copenhagen, May 1996, CLC/TC 61(SEC)1075****CLC/TC 61(SE)351**

Parts which are to be removed in accordance with the instructions for use and which can be removed only with the aid of a tool, shall not be removed, only for the purpose of the test of 15.1.2.

**2002/01 - Subclause 19.13****Brussels, November 2002, CLC/TC 61(SEC)1403****CLC/TC 61(IT)258**

In general, creepage distances and clearances are not measured during and after the tests of Clause 19.



**1997/01 - Subclause 22.33****Edinburgh, May 1997, CLC/TC 61(SEC)1127****CLC/TC 61(SE)393**

Add the following note:

NOTE 2 An air layer is not considered sufficient as one of the layers of double insulation, if it is likely that the air layer could be bridged by leaking liquid".

**1996/04 - Subclause 22.42****Athens, November 1996, CLC/TC 61(SEC)1098****CLC/TC 61(AT)260**

Concerning Y2 capacitors used as protective impedance, the following applies for bridging insulations:

- a) Two Y2 capacitors (voltage proof 1 500 V, peak impulse 5 kV); combination Y2 (basic insulation) + Y2 (supplementary insulation) Not accepted. Acceptance for two Y2 capacitors with voltage proof 2 500 V only
- b) Combination Y1 (basic insulation) + Y2 (supplementary insulation) Accepted for Y2 capacitors with voltage proof 2 500 V only
- c) Combination Y2 (basic insulation) + Y1 (supplementary insulation) Accepted (idem b)
- d) Combination of three Y2 capacitors in series Not accepted

**1995/02 - Subclause 24.1.1****Dublin, May 1995, CLC/TC 61(SEC)1027****CLC/TC 61(SEC)995**

Miniature fuses with other ratings or dimensions than those in the EN 60127 series can be accepted under the following conditions:

- It shall not be possible to change the fuse without removing a cover with the use of a tool.
- The fuse and the fuseholder shall be marked to ensure correct replacement.
- The fuse shall be checked in the appliance; 10 samples shall break reliably under fault conditions.

**1994/01 - Subclause 24.1.2, note 2****Oslo, April 1994, CLC/TC 61(SEC)972**

The switching part of an automatic control (or programmer) with an off position is considered as a switch. An endurance test is only necessary if such a switch is required by the standard.

**2001/01 - Subclause 25.7****Delft, May 2001, CLC/TC 61(SEC)1330**

The words « shall not be lighter than » means that any heavier standardized cord can be used.

**2001/02 - Subclause 25.22****Paris, November 2001, CLC/TC 61(SEC)1349****CLC/TC 61(SEC)1334**

Replace the second dashed item by:

- be located so that the connector can be inserted into the correct engagement position without difficulty and that improper engagement is not readily possible;

**1999/01 - Subclause 26.10****Pamplona, June 1999, CLC/TC 61(SEC)1244****CLC/TC 61(DK)123**

This subclause does not apply to earth terminals.

**1992/01 - Subclause 30.2****Pettenasco, September 1992, CLC/TC 61(SEC)869**

"not likely to be ignited" belongs to decorative trims, knobs and other parts.

**CLC/TR 50417:2016 (E)**

**2000/03 - Annex ZD**

**Kristiansand, June 2000, CLC/TC 61(SEC)1287**

**CLC/TC 61(SEC)1257**

Clause 29 has to be mentioned instead of 29.1 with regard to distances, because 29.2 (distance through insulation) is also involved.

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### 3 EN 60335-1:2002, General requirements

**2013/06 - Subclause 7.10** **Brussels, November 2013, CLC/TC 61(SEC)2024 + CH NC comments**

Audible feedback is any audible response got immediately after the operation of the switch.

**2004/01 - Subclause 15.1.2**

**Milan, November 2004, CLC/TC 61(SEC)1519**

*Addition:*

*Appliances with an automatic cord reel are tested with the cord in the most unfavourable position in such a way that the reeling of the wet cord may affect electrical insulation during operation. The cord shall not be dried before reeling.*

**2006/01 - Subclause 20.2**

**Málaga, June 2006, CLC/TC 61(SEC)1567**

*Replace note 1 by the following normative text:*

For appliances having dangerous movable parts, due to their main function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, a full protection is not suitable for intended use.

**2013/07 - Subclause 21.1**

**Brussels, November 2013, CLC/TC 61(SEC)2024 + CH NC comments**

Sub-clause 21.1 is applicable to any parts of the enclosure irrespective of the material they are made of.

Damage to the finish, ragged or sharp surfaces, small dents are not examined according to sub-clause 22.14, as this sub-clause is only dealing to the state of the appliance in normal use.

**2002/05 - Clause 24**

**Kista, May 2002, CLC/TC 61(SEC)1377**

**CLC/TC 61(FR)1351**

Add the following paragraph:

Plugs and socket-outlets and other connecting devices of interconnection cords shall not be interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1, if direct supply to these parts from the supply mains could give rise to a hazard.

**2005/01 - Subclause 24.1**

**Brussels, November 2005, CLC/TC 61(SEC)1544**

Plugs and connectors specified in IEC 60083, IEC 60320, IEC 60309 or IEC 60884-1 are not Subjected to the tests of EN 60335-1.

**2010/01 - Subclause 24.1**

**Brussels, June 2010, CLC/TC 61(DE)0615/INF**

For motor-run capacitors (IEC 60252 type P2) with a metal housing having an overpressure fuse the flame testing of internal plastic parts as required in 30.2.2 and 30.2.3.1 is not necessary.

**2004/02 - Subclause 24.1.3**

**Milan, November 2004, CLC/TC 61(SEC)1519**

For the purpose of this test a thermostat or timer that is operating the relay or contactor is considered to be a switch.

**2011/12 – Subclause 25.7**

**Malta, December 2011, CLC/TC 61(IT)0278/DC**

Cable 03RNH2-F, not harmonized at CENELEC level but covered by a testing schedule developed by EU certification bodies, or a harmonized cable with similar characteristics, can be used for appliances for which 05RNH2-F is allowed.

**2005/03 - Clause 32**

**Brussels, November 2005, CLC/TC 61(SEC)1544**

**Málaga, June 2006, CLC/TC 61(SEC)1567**

For appliances incorporating UVC emitters no exposure to UVA, UVB or UVC is allowed during operation.

NOTE Examples of appliances that may incorporate UVC emitters are range hoods, water pumps, air cleaners.

**CLC/TR 50417:2016 (E)**

The manufacturer declaration is considered as sufficient proof that the plastic material exposed to the radiation is UV resistant.

The instructions shall include the substance of the following:

WARNING This appliance contains a UV emitter. Do not stare at the light source.

During maintenance and service the UVC emitters shall be switched off completely by a plug or switch. If this does not switch off completely the UVC emitters, an interlock is needed. It shall not be possible to operate the interlock switch with the test finger.

**2007/01 – Annex I, Subclause 19.101**

**Berlin, November 2007, CLC/TC 61(SEC)1613**

The appliance is operated under normal operation.

When any of the fault conditions are simulated, the duration of the test is as specified in Subclause 19.7.

DECISION SHEET				Date 1998-02-11
Standard EN 60335-1:2002				OSM/HA 9
(Sub)clause	Meeting	Agenda item	Document	Exp. date
7.10	8	11.1		
7.10	20	6.3	(SE)01/06	
7.10	23	6.4.2	(SEC)05/09	

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Subject

Marking

Problem

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Marking of push-push mains switch

<https://standards.iteh.ai/catalog/standards/sist/18e13653-c5ef-4b55-981e-578217bb96ae/sist-tp-clc-tr-50417-2017>

Decision

A push-push mains switch for stationary appliances needs a visual means e.g. according to IEC 60417 "Graphical symbols for use on equipment" or a lamp to indicate clearly whether the switch is in the on/off position. The marking should be on or near the switch.

When the visual mean according IEC 60417 is used, it shall be distinguished clearly the different switch positions using a lamp or a similar means.

Comment

CLC/TC 61 decision of April 1994.

This decision has been updated after the 20<sup>th</sup> and 23<sup>rd</sup> OSM/HA meetings.

<b>NOTE</b> This will be withdrawn at the dow of EN 60335-1:2012, i.e. 2014-11-21
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DECISION SHEET				Date 1998-02-24
Standard EN 60335-1:2002				OSM/HA 192
(Sub)clause	Meeting	Agenda item	Document	Exp. date
8	11	9.2	(NO)1/97	
20	11	9.2	(NO)1/97	
8 & 20	23	6.4.2	(SEC)05/09	

## Subject

Protection against electric shock

## Problem

Should the tests on for instance a portable fan heater with an enclosure of plastic material be carried out in cold condition or in steady state condition ?

## Decision

Normal use means room temperature, not steady state condition.

## Comment

CLC/TC 61 confirmed (May 1998).

This decision has been updated after the 23<sup>rd</sup> OSM/HA meeting.

DECISION SHEET				Date 2000-08-31
Standard EN 60335-1:2002				OSM/HA 249
(Sub)clause	Meeting	Agenda item	Document	Exp. date
8 & 20	14	9.2	(SI)1/00	
8 & 20	15	6.3	(Chair)1/01	
8 & 20	23	6.4.2	(SEC)05/09	

**SECRETARY's NOTE: CLC TC 61 agreed that the following OSM/HA decision 249 also applies to clause 22.**

## Subject

Interlock switches

## Problem

For removing or opening a cover, a door, etc., mechanically operated interlock switches can be used for protection against electric shock and accessibility of moving parts.

Which are the requirements for interlock switches regarding distances contact gaps and reliability of cycling operations of switches for fixed appliances and appliances provided with plug which provide:

- 1) protection against electric shock and energy hazards, or
- 2) protection against dangerous moving parts ?

## Decision

**CLC/TR 50417:2016 (E)**

- 1) It is not acceptable to get access to live parts after operation of an interlock switch without a tool even if is at least 3 mm between the contact gaps and with all poles disconnection. In that situation it is still considered to be live. Only for certain Parts 2 (e.g. air cleaners and insect killers) this is allowed.
- 2) At least a micro switch (< 3 mm) and minimum one pole disconnection to obtain the protection against mechanical hazards.

The interlock switches are tested according to 24.1.3:

switched under load for 10 000 cycles, switched without load for 100 cycles.

Comment

CLC/TC 61 confirmed in May 2001.

This decision has been updated after the 23<sup>rd</sup> OSM/HA meeting.

DECISION SHEET				Date 2015-04-23
Standard EN 60335-1:2012 + Amd.				
(Sub)clause	Meeting	Agenda item	Document	Exp. date
24.1.4	29 <sup>th</sup> OSMHA Sweden	5.1.5.	OSM HA BE01/2015	

Question

24.1.4 The relevant standard for automatic controls is IEC 60730-1 together with the relevant part 2.

The number of cycles of operation for automatic controls that operate during the test of Clause 11 need not be declared for 6.10 and 6.11 of IEC 60730-1, if the appliance meets the requirements of this standard when they are short-circuited. Does this mean that a appliance which meets the requirement of 19.4 (short-circuit of the automatic control) the automatic control needs not to be verified according §24.1.4? What about a electronic circuit with a relay for the switching action? If complies with 19.14, does it then need to be retested acc. 24.1.4? We have an electronic circuit as thermal regulation for §11. We have performed 19.4 and 19.14, which short-circuits the automatic control (required in the standard). Does the above mean we do not have to check 24.1.4? Is 24.1.4 only applicable for appliance where §19.4 is not applicable?

OSM/HA Decision

Cycles in §24.1.4 in general are not applicable for electronic circuits (except to the relays incorporated).

When applicable, the number of cycles of operation for automatic controls that operate during the test of Clause 11 need not be tested as requested for 6.10 and 6.11 of IEC 60730-1, if the appliance meets the requirements of this standard when they are short-circuited.

“The requirements of this standard” written in the above means complete standard (incl. §11). If the appliance pass §11 and the other standard clauses with the control short-circuited, no requirements for cycles are applicable.

Decision

Cycles in §24.1.4 in general are not applicable for electronic circuits (except to the relays incorporated).

When applicable, the number of cycles of operation for automatic controls that operate during the test of Clause 11 need not be tested as requested for 6.10 and 6.11 of IEC 60730-1, if the appliance meets the requirements of this standard when they are short-circuited.

“The requirements of this standard” written in the above means complete standard (incl. §11). If the appliance pass §11 and the other standard clauses with the control short-circuited, no requirements for cycles are applicable.

Comment

CLC/TC 61 confirmed in December 2015.

DECISION SHEET				Date 2002-07-10
Standard EN 60335-1:2002				OSM/HA 304
(Sub)clause	Meeting	Agenda item	Document	Exp. date
26.5	15	9.15	(SI)01/01	
26.5	23	6.4.2	(SEC)05/09	

Subject

Terminals

Problem

Which of the two figures shows the correct way to carry out the test of stranded conductor ?

Decision

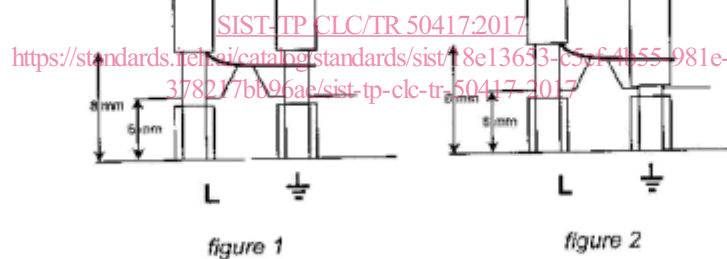
Figure 2 shows the correct way to carry out the test.

Comment

CLC/TC 61 confirmed (November 2001).

This decision has been updated after the 23<sup>rd</sup> OSM/HA meeting.

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DECISION SHEET				Date 2002-07-11
Standard EN 60335-1:2002				OSM/HA 305
(Sub)clause	Meeting	Agenda item	Document	Exp. date
29.1	15	9.19	(CH)04/01	
29.1	23	6.4.2	(SEC)05/09	

**SECRETARY's NOTE: CLC TC 61 agreed that the following OSM/HA decision 305 can be deleted.**

Subject

Creepage/clearance

Problem