



SLOVENSKI STANDARD
SIST HD 251 S3:2000/A2:2000
01-september-2000

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Safety of household and similar electrical appliances -- Part 1: General requirements

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke -- Teil 1:
 Allgemeine Anforderungen

iTeh STANDARD PREVIEW

Sécurité des appareils électrodomestiques et analogues -- Partie 1: Règles générales
 (standards.iteh.ai)

Ta slovenski standard je istoveten z: HD 251 S3:1982/A2:1987

SIST HD 251 S3:2000/A2:2000
<https://standards.iteh.ai/catalog/standards/sist/d68a01c3-dd70-4796-a515-9d894c986da6/sist-hd-251-s3-2000-a2-2000>

ICS:

97.030 0 | \ d ä } ä ä ä ä ä ä ä ä { Ä æ Domestic electrical
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SIST HD 251 S3:2000/A2:2000 **en**

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AMENDMENT 2 TO HD 251 S3

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ENGLISH VERSION

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES
 GENERAL REQUIREMENTS

Sécurité des appareils électro-
 domestiques et analogues.
 Règles générales.

Sicherheit elektrischer Geräte
 für den Hausgebrauch und ähn-
 liche Zwecke.
 Allgemeine Anforderungen.

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This Amendment 2 to HD 251 S3 was prepared by CENELEC/TC 61 on the basis of the decisions taken at its meetings held in Zurich in September 1983, in Frankfurt am Main in October 1984, in Athens in October 1985 and in Nice in November 1986. It was ratified by the Technical Board at its meeting held in Brussels on 1987-03-04.

It supplements HD 251 S3.

The changes to be made to the text of the HD are given hereafter.

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FOREWORD

This Amendment 2 to HD 251 S3 has been prepared by the Secretariat of CENELEC Technical Committee 61 in accordance with the relevant decisions taken by that committee during its meetings held in September 1983 in Zürich, in October 1984 in Frankfurt am Main, in October 1985 in Athens and in November 1986 in Nice.

During the meeting held in Athens, it was decided to circulate a draft for that amendment for approval under the three months' voting procedure.

The result of the three months' voting procedure being favourable, it was decided to publish this amendment in the CENELEC member countries before January 1st, 1988.

This latest date of publication was confirmed by the Technical Board during its meeting held in March 1987 in Brussels. During the latter meeting, the Technical Board decided also that conflicting non-harmonized national standards should be withdrawn before July 1st, 1988.

This amendment is provisional and intended to harmonize the requirements for switches incorporated or integrated in household appliances; it will be used until harmonized standards exist for these components.

<https://standards.iteh.ai/catalog/standards/sist/d68a01c3-dd70-4796-a3B-9d894c986da6/sist-hd-251-s3-2000-a2-2000>

Note. There are no national deviations from this amendment other than those specified in the list of national deviations from HD 251 S3.



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ENDORSEMENT NOTICE

The following common modification supplements those given in HD 251 S3.

CLAUSE	COMMON MODIFICATION	JUSTIFICATION
24.1	<p>Add in HD 251 S3, at the bottom of page 7, the following:</p> <p>Add the following test specification before line 38:</p> <p>Switches incorporated or integrated in appliances and submitted for testing together with the appliance, are tested in or with the appliance, or with that part of the appliance for which they are designed, as specified in this standard. In addition, they are subjected to the tests of the (sub-)clauses of CEE Publication 24 indicated in Appendix 1.</p> <p>The switches may be tested separately when loaded with either the actual appliance load or a simulated load (inrush current and normal current), as specified in Appendix 1.</p> <p>Experience has shown that, when testing switches of appliances incorporating windings with iron cores, other than motor windings, the switching-on conditions vary from one switching-on operation to another, depending on the point of the curve of the supply voltage when switching on and on the residual magnetization. In such cases, the actual appliance load must be used when testing the switch.</p>	<p>This addition is considered to be necessary until a harmonized IEC standard for switches for appliances is available.</p>

SWITCHES FOR APPLIANCES

Incorporated switches and integrated switches within the scope of CEE Publication 24, including its Modifications 1, 2, 3, and 4, shall, in addition, comply with the following (sub-)clauses of that publication, as modified hereafter.

PART I - GENERAL SPECIFICATIONClause 1 - Scope

This clause is applicable.

Clause 3 - General notes on testes

Sub-clause 3c

This sub-clause is replaced by the following:
When using a motor as the actual load, care has to be taken to ensure that, during the tests of Clauses 15 and 16, the motor has stopped completely before the next switching-on operation is effectuated.

Sub-clause 3e

This sub-clause is replaced by the following:
Three samples are subjected to the tests specified.

Sub-clauses 3f and 3g

These sub-clauses are applicable.

Clause 6 - Marking

This clause is applicable, except that, for sub-clause 6a, switches incorporated in an appliance and tested for use only in that particular appliance, shall be marked with maker's name, trade mark or identification mark and maker's model or type reference.

Clause 10 - Construction

Sub-clause 10a

This sub-clause is applicable.

Clause 11 - Mechanism

Sub-clauses 11a, 11b, 11c, 11d and 11e

These sub-clauses are applicable, except that sub-clause 19a is not taken into account for the "off" position of the switch.

Clause 13 - Insulation resistance and electric strength

Sub-clause 13c

This sub-clause is applicable, except that only the tests corresponding with items I, II and III of the table are made.

Clause 14 - Temperature rise

This clause is applicable, except that for the test the following applies:

The switches are tested as delivered in or with the appliance and are first subjected to 20 cycles of operation with no current flowing. The appliance, with the switch fitted, is then loaded under the conditions specified in Clause 11 of this Harmonization Document, the temperature of the terminals of the switch being measured during that test.

Clause 15 - Breaking capacity

This clause is applicable, except that for the tests the following applies:

Sub-clauses 15b and 15c

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If the actual appliance load is used, the appliance is operated at a voltage equal to 1.1 times its rated voltage and in accordance with conditions of adequate heat discharge and/or under normal load.

If a simulated load is used, the currents I_R and I_M are the currents flowing through the switch when the relevant appliance is operated at its rated voltage or at the upper limit of its rated voltage range and in accordance with conditions of adequate heat discharge and/or under normal load.

The rated voltage of the switch is the working voltage measured over the switch in the "off" position when the appliance is supplied at its rated voltage or at the upper limit of its rated voltage range and in accordance with conditions of adequate heat discharge and/or under normal load.

Sub-clause 15c

For switches controlling motors having moving parts which are not liable to be jammed and which are tested with a simulated load, the breaking test with the current of $6 I_M$ is not made.

Clause 16 - Normal operation

This clause is applicable, except that for the tests the following applies:

Sub-clauses 16b and 16c

If the actual appliance load is used, the appliance is operated at its rated voltage or at the upper limit of its rated voltage range and in accordance with conditions of adequate heat discharge and/or under normal load.

If a breakdown of the appliance occurs, either another appliance or a simulated load has to be used.

No reduction in the rate of operation of the appliance is allowed to prolong its life time, but forced cooling of the appliance is permitted, provided this does not affect the controlled load.

If a simulated load is used, the currents I_R and I_M are the currents flowing through the switch when the relevant appliance is operated at its rated voltage or at the upper limit of its rated voltage range and in accordance with conditions of adequate heat discharge and/or under normal load.

The rated voltage of the switch is the working voltage measured over the switch in the "off" position when the appliance is supplied at its rated voltage or at the upper limit of its rated voltage range and in accordance with conditions of adequate heat discharge and/or under normal load.

Sub-clause 16c

If a simulated load is used, the current through the switch during breaking is equal to I_M ; I_M consisting of both the resistive and the inductive components.

Clause 17 - Mechanical strength

Sub-clause 17e

This sub-clause is applicable.

PART II - PARTICULAR SPECIFICATIONSSection A

All sub-clauses are applicable.

In-line cord switches are only permitted if specifically stated in the relevant standard.

Section B

All sub-clauses are applicable.
