SLOVENSKI STANDARD
SIST HD 611.2 S1:1998

01-oktober-1998

Guide for the determination of thermal endurance properties of electrical insulating materials - Part 2: Choice of test criteria (IEC 60216-2:1990)

Guide for the determination of thermal endurance properties of electrical insulating materials -- Part 2: Choice of test criteria

Leitlinie zur Bestimmung der thermischen Langzeiteigenschaften von Elektroisolierstoffen -- Teil 2: Wahl der Prüfmerkmale

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Guide pour la détermination des propriétés d'endurance thermique de matériaux isolants électriques -- Partie 2: Choix de critères d'essai

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Ta slovenski standard je istoveten z: **HD 611.2 S1:1992**

ICS:

29.035.01	Izolacijski materiali na splošno	Insulating materials in general

SIST HD 611.2 S1:1998 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 611.2 S1

July 1992

UDC 621.315.61:620.193.94

Descriptors: Insulating material, material, list, test procedure, thermal endurance test

ENGLISH VERSION

Guide for the determination of thermal endurance properties of electrical insulating materials
Part 2: Choice of test criteria
(IEC 216-2:1990)

Guide pour la détermination des propriétés d'endurance thermique de matériaux isolants électriques
Deuxième partie: Choix de critères d'essai
(CEI 216-2:1990)

Leitlinie zur Bestimmung der thermischen Langzeiteigenschaften von Elektroisolierstoffen
Teil 2: Wahl der Prüfmerkmale
(IEC 216-2:1990)

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This Harmonization Document was approved by CENELEC on 1992-06-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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

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Ref. No. HD 611.2 S1:1992 E

SIST HD 611.2 S1:1998

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 216-2:1990 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as Harmonization Document.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as HD 611.2 S1 on 16 June 1992.

The following dates were fixed:

- latest date of announcement of the HD at national level	(doa)	1992-12-01
- latest date of publication of a harmonized national standard	(dop)	1993-06-01
- latest date of withdrawal of conflicting national standards	(dow)	1993-06-01

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

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ENDORSEMENT NOTICE

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The text of the International Standard IEC 216-2:1990 was approved by CENELEC as a European Standard without any modification.

SIST HD 611.2 S1:1998

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
172	1987	Test procedure for the determination of the temperature index of enamelled winding wires	HD 41 S3	1989
243	1967*	Recommended methods of test for electric strength of solid insulating materials at power frequencies	-	-
317	-	Specifications for particular types of winding wires	-	-
370	1971	Test procedure for thermal endurance of insulating varnishes - Electric strength method	HD 570 S1	1990
371		Specification for insulating materials based on mica		
371-3-2	1991	Part 3: Specifications for individual materials - Sheet 2: Glass backed mica paper with B-stage epoxy bond (under consideration)	-	-
394	-	Varnished fabrics for electrical purposes	-	-
450	1974	Measurement of the average viscometric degree of polymerization of new and aged electrical papers	-	-
454		Specifications for pressure-sensitive adhesive tapes for electrical purposes		
454-2A	1978	Part 2: Methods of test - First supplement	-	-
455		Specification for solventless polymerisable resinous compounds used for electrical insulation		
455-2-2	1984	Part 2: Methods of test - Test methods for coating powders for electrical purposes (Corrigendum 1991)	HD 307.2.2 S1	1986

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* IEC 243:1967 has been superseded by:
IEC 243-1:1988 (mod) endorsed as HD 559.1 S1:1991
and
IEC 243-2:1990 (mod) endorsed as HD 559.2 S1:1991

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IEC Publication	Date	Title	EN/HD	Date
464		Specification for insulating varnishes containing solvent		
464-2	1974	Part 2: Test methods	-	-
554	-	Specification for cellulosic papers for electrical purposes	-	-
610	1978	Principal aspects of functional evaluation of electrical insulation systems: Ageing mechanisms and diagnostic procedures	-	-
611	1978	Guide for the preparation of test procedures for evaluating the thermal endurance of electrical insulation systems	-	-
626	-	Specification for combined flexible materials for electrical insulation	-	-
641	-	Specification for pressboard and presspaper for electrical purposes	-	-
667	-	Specification for vulcanized fibre for electrical purposes	-	-
674	-	Specification for plastic films for electrical purposes	-	-
684		Specification for flexible insulating sleevings		
684-2	1984	Part 2: Methods of tests	HD 523.2 S1	1989
763	-	Specification for laminated pressboard	-	-
795	1984	Test method for evaluating thermal endurance of flexible sheet materials using the wrapped tube method	HD 480 S1	1987
811		Common test methods for insulating and sheathing materials of electric cables		
811-1-1	1985	Part 1: Methods for general application Section one: Measurement of thickness and overall dimensions - Tests for determining the mechanical properties	HD 505.1.1 S3*	1991
811-1-2	1985	Section two: Thermal ageing methods	HD 505.1.2 S2*	1991

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* HD 505.1.1 S3 includes A1:1988 + A2:1989 to IEC 811-1-1
* HD 505.1.2 S2 includes A1:1989 to IEC 811-1-2

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IEC Publication	Date	Title	EN/HD	Date
811-3-2	1985	Part 3: Methods specific to PVC compounds - Section two: Loss of mass test - Thermal stability test	HD 505.3.2 S1	1988
819	-	Specification for non-cellulosic papers for electrical purposes	-	-
893	-	Specification for industrial rigid laminated sheets based on thermosetting resins for electrical purposes	-	-

Other Publications quoted:

ISO Standard 37 (1977): Rubber, vulcanized - Determination of tensile stress-strain properties

ISO Standard 178 (1975): Plastics - Determination of flexural properties of rigid plastics

ISO Standard 179 (1982): Plastics - Determination of Charpy impact strength of rigid materials

ISO Recommendation 527/R: (1966) Plastics - Determination of tensile properties

ISO Standard 1184 (1983): Plastics - Determination of tensile properties of films

ISO Standard 1520 (1973): Paints and varnishes - Cupping test

ISO Standard 1924: Paper and board - Determination of tensile properties

ISO Standard 2759 (1983): Board - Determination of bursting strength

Draft International Standard:

ISO/DIS 8256: Plastics - Determination of tensile-impact strength

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NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
216-2

Troisième édition
Third edition
1990-06

Guide pour la détermination des propriétés d'endurance thermique de matériaux isolants électriques

Deuxième partie:
Choix de critères d'essai

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Guide for the determination of thermal endurance properties of electrical insulating materials

Part 2:
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International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE N

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

GUIDE FOR THE DETERMINATION OF THERMAL ENDURANCE PROPERTIES OF ELECTRICAL INSULATING MATERIALS

Part 2: Choice of test criteria

FOREWORD

1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.

2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.

3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

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PREFACE

This standard has been prepared by Sub-Committee 15B: Endurance tests, of IEC Technical Committee No. 15: Insulating materials.

SIST HD 611.2 S1:1998
https://standards.iteh.ai/catalog/standards/sist/1e787c51-2cba-4b43-9389-c5a8173b57f0/sist-hd-611-2-s1-1998

This third edition of IEC Publication 216-2 replaces the second edition issued in 1974.

The text of this standard is based on the following documents:

Six Months' Rule	Report on Voting
15B(CO)71	15B(CO)79

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

The following IEC publications are quoted in this standard:

Publications Nos. 172 (1987): Test procedure for the determination of the temperature index of enamelled winding wires.

243 (1967): Recommended methods of test for electric strength of solid insulating materials at power frequencies.

317: Specifications for particular types of winding wires.

370 (1971): Test procedure for thermal endurance of insulating varnishes - Electric strength method.