

SLOVENSKI STANDARD SIST EN 60695-11-3:2012

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Preskušanje požarne ogroženosti - 11-3. del: Preskusni plameni - 500-vatni plameni: Aparat in metode potrjevanja preskusov

Fire hazard testing - Part 11-3: Test flames - 500 W flames: Apparatus and confirmational test methods

Prüfungen zur Beurteilung der Brandgefahr - Teil 11-3: Prüfflammen - 500 W Prüfflamme - Prüfeinrichtungen und Prüfverfahren zur Bestätigung

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Essais relatifs aux risques du feu - Partie 11-3: Flammes d'essai - Flamme de 500 W:
Appareillage et méthodes d'essai de vérification 11-3:2012

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Ta slovenski standard je istoveten z: EN 60695-11-3-2012

ICS:

13.220.40 Sposobnost vžiga in Ignitability and burning

obnašanje materialov in behaviour of materials and

proizvodov pri gorenju products

29.020 Elektrotehnika na splošno Electrical engineering in

general

SIST EN 60695-11-3:2012 en,fr

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<u>SIST EN 60695-11-3:2012</u> https://standards.iteh.ai/catalog/standards/sist/8221b401-0068-40bf-bd7f-0803d2287130/sist-en-60695-11-3-2012 **EUROPEAN STANDARD**

EN 60695-11-3

NORME EUROPÉENNE EUROPÄISCHE NORM

October 2012

ICS 13.220.40; 29.020

English version

Fire hazard testing Part 11-3: Test flames - 500 W flames Apparatus and confirmational test methods

(IEC 60695-11-3:2012)

Essais relatifs aux risques du feu -Partie 11-3: Flammes d'essai -Flamme de 500 W -Appareillage et méthodes d'essai de vérification (CEI 60695-11-3:2012) Prüfungen zur Beurteilung der Brandgefahr -Teil 11-3: Prüfflammen -500-W-Prüfflamme -Prüfeinrichtungen und Prüfverfahren zur Bestätigung

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This European Standard was approved by CENELEC on 2012-09-17. 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.

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 89/1113/FDIS, future edition 1 of IEC 60695-11-3, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-11-3:2012.

The following dates are fixed:

latest date by which the document has (dop) 2013-06-17 to be implemented at national level by publication of an identical national standard or by endorsement

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-09-17

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

Endorsement notice

The text of the International Standard IEC 60695-11-3:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60695-11-2:2003 NOTE Harmonised as EN 60695-11-2:2003 (not modified). https://standards.itch.ai/catalog/standards/sist/82216401-0068-406f-bd/f-IEC 60695-11-4:2011 NOTE d22;Harmonised as EN 60695-11-4:2011 (not modified).

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60584-1	1995	Thermocouples - Part 1: Reference tables	EN 60584-1	1995
IEC 60584-2 + A1	1982 1989	Thermocouples - Part 2: Tolerances	EN 60584-2	1993 ¹⁾
IEC Guide 104	1997 ²⁾	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-
ISO/IEC Guide 51	1999	Safety aspects - Guidelines for their inclusion in standards	-	-
ISO 13943	2008	Fire safety - Vocabulary DREVI	EN ISO 13943	2010
ASTM B187/B187M-06	-	Standard Specification for Copper, Bus Bar, Rod, and Shapes and General Purpose Rod Bar, and Shapes		-

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¹⁾ EN 60584-2 includes A1 to IEC 60584-2.

²⁾ Superseded by IEC Guide 104:2010.

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Fire hazard testing Teh STANDARD PREVIEW

Part 11-3: Test flames – 500 W flames – Apparatus and confirmational test methods

SIST EN 60695-11-3:2012

Essais relatifs aux risquestdui feu gstandards/sist/8221b401-0068-40bf-bd7f-Partie 11-3: Flamme de 500 W-20 Appareillage et méthodes d'essai de vérification

INTERNATIONAL
ELECTROTECHNICAL
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COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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CONTENTS

FΟ	REW(ORD		4
INT	RODI	UCTION	N	6
1	Scop	e		7
2	Norm	native re	eferences	7
3	Term	ns and d	definitions	8
4	Meth	od A –	Production of a standardized 500 W nominal test flame based on	
			dware	8
	4.1	Requi	rements	8
	4.2	Appar	atus and fuel	8
		4.2.1	Burner	8
		4.2.2	Flowmeter	
		4.2.3	Manometer	
		4.2.4	Control valve	
		4.2.5	Copper block	
		4.2.6	Thermocouple	
		4.2.7	Temperature/time indicating/recording devices	
		4.2.8	Fuel gas	
		4.2.9	Laboratory fumehood/chamber	
	4.3	Produ	ction of the test flame	10
	4.4			
		4.4.1	Principle SIST EN 60695-11-3:2012	10
		4.4.2 4.4.3	Procedure https://standards.iteh.ai/catalog/standards/sist/822Tb40T-0068-40bF-bd7f-	10
5	Meth	_	Verification _{0803d2287130/sist-en-60695-11-3-2012} Production of a standardized 500 W nominal test flame based on non-	
J			nardware	
	5.1	Requi	rements	11
	5.2	Appar	atus and fuel	11
		5.2.1	Burner	11
		5.2.2	Flowmeters	11
		5.2.3	Manometers	12
		5.2.4	Control valves	12
		5.2.5	Copper block	12
		5.2.6	Thermocouple	
		5.2.7	Temperature/time indicating/recording devices	12
		5.2.8	Fuel gas	
		5.2.9	Air supply	
			Laboratory fumehood/chamber	
	5.3		ction of the test flame	
	5.4		mation of the test flame	
		5.4.1	Principle	
		5.4.2	Procedure	
_	0.	5.4.3	Verification	
6			on and designation	
		•	tive) Test arrangements – Method A	
An	nex B	(norma	tive) Test arrangement – Method C	21

Annex C (informative) Recommended arrangements for the use of either of the test flames	26
Annex D (informative) Test arrangements for tests on equipment	27
Annex E (informative) Test arrangements for tests on material	28
Bibliography	29
Figure 1 – Flame dimensions	15
Figure 2 – Copper block	15
Figure 3 – Flame height gauge	16
Figure A.1 – General assembly and details	18
Figure A.2 – Supply arrangement for burner (example)	19
Figure A.3 – Confirmatory test arrangement	20
Figure B.1 – Burner, method C – General assembly	21
Figure B.2 – Burner details – Burner barrel, O-ring, air manifold and air supply tube	22
Figure B.3 – Burner details – Gas supply tube and gas jet	23
Figure B.4 – Burner details – Burner base and elbow block	23
Figure B.5 – Supply arrangement for burner (example)	24
Figure B.6 – Confirmatory test arrangement	
Figure D.1 – Examples of test arrangements ARD PREVIEW	27
Figure E.1 – Examples of test arrangements rds.iteh.ai	28

SIST EN 60695-11-3:2012 https://standards.iteh.ai/catalog/standards/sist/8221b401-0068-40bf-bd7f-0803d2287130/sist-en-60695-11-3-2012

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIRE HAZARD TESTING -

Part 11-3: Test flames – 500 W flames – Apparatus and confirmational test methods

FOREWORD

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International Standard IEC 60695-11-3 has been prepared by IEC technical committee 89: Fire hazard testing.

This first edition of IEC 60695-11-3 cancels and replaces the second edition of IEC/TS 60695-11-3 published in 2004. It constitutes a technical revision and now has the status of an International Standard.

It has the status of a basic safety publication in accordance with IEC Guide 104 and ISO/IEC Guide 51.

The main changes with respect to the previous edition are the integration of minor editorial and technical changes throughout the text.

- 5 -

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

FDIS	Report on voting	
89/1113/FDIS	89/1117/RVD	

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60695 series, under the general title *Fire hazard testing*, can be found on the IEC website.

IEC 60695-11 consists of the following parts:

- Part 11-2: Test flames 1 kW nominal pre-mixed flame Apparatus, confirmatory test arrangement and guidance
- Part 11-3: Test flames 500 W flames Apparatus and confirmational test methods
- Part 11-4: Test flames 50 W flame Apparatus and confirmational test method
- Part 11-5: Test flames Needle-flame test method Apparatus, confirmatory test arrangement and guidance
- Part 11-10: Test flames \$\oldsymbol{L}\$50 W horizontal and vertical flame test methods
- Part 11-11: Test flames Determination of the characteristic heat flux for ignition from a non-contacting flame source
- Part 11-20: Test flames 500 W flame test methods 2012
- Part 11-30: Test flames History and development from 1979 to 1999 d7f-
- Part 11-40: Test flames Confirmatory tests Guidance

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- · amended.

INTRODUCTION

The best method for testing electrotechnical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice. In most instances, this is not possible. Accordingly, for practical reasons, the testing of electrotechnical products with regard to fire hazard is best conducted by simulating as closely as possible the actual effects occurring in practice.

Work initiated by ACOS resulted in a series of standards that make available standardized test flames covering a range of powers for the use of all product committees needing such test flames. A needle flame is described in IEC 60695-11-5, a 50 W flame is described in IEC 60695-11-2.

This international standard provides a description of the apparatus required to produce either of two 500 W test flames, and also provides a description of a calibration procedure to check that the test flame produced meets given requirements. Guidance on confirmatory tests for test flames is given in IEC 60695-11-40.

Four 500 W test flame methods were originally specified in Edition 1 of IEC/TS 60695-11-3, with the intention that users would determine a ranking preference. This process has resulted in two of these flame methods, B and D, being withdrawn, as shown below:

500 W test flame method	iTeFlame type ND	ARDGAPREV	Approximate flame height / mm
А	Pre-mixed nd	rds Methane .ai)	125
В	Withdrawn		
C	Pre-mixed	60695-11-3:2012 Methane of propane tandards/sist/82:11401-00	125 68-40b£bd7f
D	0803d2287130/	sist-en-60695Withdrawn2	,000 1001 04/1

Method A was first published in 1994 and was based on existing hardware. The flame is produced by burning methane, and the method makes use of a more tightly specified version of a burner that was used in some countries for many years.

Method C is based on non-adjustable hardware that has been specifically developed to produce a highly repeatable and stable test flame. The flame is produced by burning either methane or propane.

Both methods have been developed as technical enhancements of previous technology.