ICS 13.220.40 SLOVENSKÁ TECHNICKÁ NORMA November 2014

STN	**Skúšanie požiarneho nebezpečenstva. Časť 11-2: Skúšobné plamene. Zmiešaný plameň s menovitým výkonom 1 kW: zariadenie, zostava na overovaciu skúšku a návod.**	**STN EN 60695-11-2** 34 5630

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/14

Obsahuje: EN 60695-11-2:2014, IEC 60695-11-2:2013

Oznámením tejto normy sa od 14.01.2017 ruší
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60695-11-2

March 2014

ICS 13.220.40

Supersedes EN 60695-11-2:2003

English version

Fire hazard testing - Part 11-2: Test flames - 1 kW nominal pre-mixed flame: Apparatus, confirmatory test arrangement and guidance

(IEC 60695-11-2:2013)

Essais relatifs aux risques du feu - Partie 11-2: Flammes d'essai - Flamme à prémélange de 1 kW nominal - Appareillage, disposition d'essai de vérification et indications
(CEI 60695-11-2:2013)

Prüfungen zur Beurteilung der Brandgefahr - Teil 11-2: Prüfflammen - 1-kW-Flamme mit Gas-Luft-Gemisch: Prüfeinrichtung und Leitfaden
(IEC 60695-11-2:2013)

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

Ref. No. EN 60695-11-2:2014 E

Foreword

The text of document 89/1193/FDIS, future edition 2 of IEC 60695-11-2, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-11-2:2014.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-10-14
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2017-01-14

This document supersedes EN 60695-11-2:2003.

EN 60695-11-2:2014 includes the following significant technical changes with respect to EN 60695-11-2:2003:

– editorial changes to align with other TC 89 test flame publications;
– editorially updated throughout;
– technical changes to the burner set up requirements – see 4.1, 4.2.2, 5 and Fig. A.6;
– technical changes to the test flame confirmation procedure – see 6.2 and 6.3.

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).

Endorsement notice

The text of the International Standard IEC 60695-11-2:2013 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 60695-1-10	NOTE	Harmonised as EN 60695-1-10.
IEC 60695-1-11	NOTE	Harmonised as EN 60695-1-11.

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.

Publication	Year	Title	EN/HD	Year
IEC 60584-1	1995	Thermocouples - Part 1: Reference tables	EN 60584-1 [1)]	1995
IEC 60584-2	1982	Thermocouples -	EN 60584-2	1993
+ A1	1989	Part 2: Tolerances	- [2) 3)]	-
ISO 13943	2008	Fire safety - Vocabulary	-	-

[1)] EN 60584-1 is superseded by EN 60584-1:2013, which is based on IEC 60584-1:2013.

[2)] EN 60584-2 includes A1 to IEC 60584-2.

[3)] EN 60584-2 is superseded by EN 60584-1:2013, which is based on IEC 60584-1:2013.

IEC 60695-11-2

Edition 2.0 2013-12

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance:

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
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8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60695-11-2 has been prepared by IEC technical committee 89: Fire hazard testing.

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

FDIS	Report on voting
89/1193/FDIS	89/1204/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.This second edition of IEC 60695-11-2 cancels and replaces the first edition published in 2003. It constitutes a technical revision.

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

This edition includes the following significant technical changes with respect to the previous edition:

– editorial changes to align with other TC 89 test flame publications;
– editorially updated throughout;
– technical changes to the burner set up requirements – see 4.1, 4.2.2, 5 and Fig. A.6;
– technical changes to the test flame confirmation procedure – see 6.2 and 6.3.

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

Part 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 – 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*

Part 11-30: *Test flames – History and development from 1979 to 1999*

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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

In the design of any electrotechnical product, the risk of fire and the potential hazards associated with fire need to be considered. In this respect the objective of component, circuit, and product design, as well as the choice of materials, is to reduce to acceptable levels the potential risks of fire during normal operating conditions, reasonable foreseeable abnormal use, malfunction, and/or failure. IEC Technical Committee 89 has developed IEC 60695-1-10, together with its companion, IEC 60695-1-11, to provide guidance on how this is to be accomplished.

The primary aims of IEC 60695-1-10 and IEC 60695-1-11 are to provide guidance on how:

a) to prevent ignition caused by an electrically energized component part, and

b) to confine any resulting fire within the bounds of the enclosure of the electrotechnical product in the event of ignition.

Secondary aims of these documents include the minimization of any flame spread beyond the product's enclosure and the minimization of harmful effects of fire effluents such as heat, smoke, toxicity and/or corrosivity.

Fires involving electrotechnical products can also be initiated from external non-electrical sources. Considerations of this nature should be dealt with in the overall fire risk assessment.

IEC 60695-11-2 provides a description of the apparatus required to produce a 1 kW test flame, and provides a description of the principle of a confirmation procedure to check that the effective power output of the flame is as intended. Guidance on confirmatory tests for test flames is given in IEC/TS 60695-11-40.

This international standard may involve hazardous materials, operations, and equipment. It does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this international standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

FIRE HAZARD TESTING –

Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

1 Scope

This part of IEC 60695 gives the requirements for the production and confirmation of a nominal 1 kW, propane/air pre-mixed test flame.

This basic safety publication is intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications in the preparation of its publications.

The requirements, test methods or test conditions of this basic safety publication will not apply unless specifically referred to or included in the relevant publications.

2 Normative references

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.

IEC 60584-1:1995, *Thermocouples – Part 1: Reference tables*

IEC 60584-2:1982, *Thermocouples – Part 2: Tolerances*
Amendment 1:1989

ISO 13943:2008, *Fire safety – Vocabulary*