



SLOVENSKI STANDARD
SIST EN 61048:2006/A1:2016
01-maj-2016

Pribor za sijalke - Kondenzatorji za uporabo v tokokrogih s cevastimi fluorescenčnimi in drugimi sijalkami - Splošne in varnostne zahteve - Dopolnilo A1

Auxiliaries for lamps - Capacitors for use in tubular fluorescent and other discharge lamp circuits - General and safety requirements

Geräte für Lampen - Kondensatoren für Leuchtstofflampen- und andere Entladungslampenkreise - Allgemeine Anforderungen und Sicherheitsanforderungen

Appareils auxiliaires pour lampes - Condensateurs destinés à être utilisés dans les circuits de lampes tubulaires à fluorescence et autres lampes à décharge - Prescriptions générales et de sécurité

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Ta slovenski standard je istoveten z: EN 61048:2006/A1:2016

ICS:

29.140.30	Fluorescenčne sijalke. Sijalke	Fluorescent lamps. Discharge lamps
31.060.01	Kondenzatorji na splošno	Capacitors in general

SIST EN 61048:2006/A1:2016 en

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EUROPEAN STANDARD

EN 61048:2006/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2016

ICS 29.140.99

English Version

**Auxiliaries for lamps - Capacitors for use in tubular fluorescent
and other discharge lamp circuits - General and safety
requirements
(IEC 61048:2006/A1:2015)**

Appareils auxiliaires pour lampes - Condensateurs destinés
à être utilisés dans les circuits de lampes tubulaires à
fluorescence et autres lampes à décharge - Prescriptions
générales et de sécurité
(IEC 61048:2006/A1:2015)

Geräte für Lampen - Kondensatoren für Leuchtstofflampen-
und andere Entladungslampenkreise - Allgemeine
Anforderungen und Sicherheitsanforderungen
(IEC 61048:2006/A1:2015)

This amendment A1 modifies the European Standard EN 61048:2006; it was approved by CENELEC on 2015-08-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

EN 61048:2006/A1:2016**European foreword**

The text of document 34C/1155/FDIS, future IEC 61048:2006/A1, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61048:2006/A1:2016.

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) 2016-08-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-02-19

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 61048:2006/A1:2015 was approved by CENELEC as a European Standard without any modification.

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IEC 61048

Edition 2.0 2015-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
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Auxiliaries for lamps – Capacitors for use in tubular fluorescent and other discharge lamp circuits – General and safety requirements

Appareils auxiliaires pour lampes – Condensateurs destinés à être utilisés dans les circuits de lampes tubulaires à fluorescence et autres lampes à décharge – Prescriptions générales et de sécurité

INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONALE

ICS 29.140.99

ISBN 978-2-8322-2781-7

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FOREWORD

This amendment has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

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

FDIS	Report on voting
34C/1155/FDIS	34C/1160/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website 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.

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CONTENTS

Add the titles of the new Annexes E and F:

Annex E (normative) Additional requirements for built-in capacitors having an insulation equivalent to double or reinforced insulation

Annex F (informative) Information for luminaire design

1 Scope

Add, at the end of the scope, the following new sentence:

Particular requirements for built-in capacitors having an insulation equivalent to double or reinforced insulation are given in Annex E.

Add the following new Annexes E and F:

Annex E (normative)

Additional requirements for built-in capacitors having an insulation equivalent to double or reinforced insulation

E.1 Application of Annex E

This annex applies to built-in capacitors intended for use in Class II luminaires having insulation equivalent to double or reinforced insulation.

E.2 Terms and definitions

For the purposes of this annex, the following terms and definitions apply.

E.2.1

built-in capacitor having an insulation equivalent to double or reinforced insulation

capacitor designed to be built into a luminaire, an enclosure or the like not intended to be mounted outside a luminaire in which accessible metallic parts are insulated from the live parts by double or reinforced insulation

Note 1 to entry: For the definitions of double and reinforced insulation, see IEC 60598-1, 1.2.16, 1.2.17, 1.2.18 and 1.2.19.

Note 2 to entry: Particular requirements of IEC 60598-1, Section 10 and Section 11 apply.

E.3 General requirements

[SIST EN 61048:2006/A1:2016](https://standards.iteh.ai/catalog/standards/sist/d2727a32-6426-439f-8674-19d5595aa194/sist-en-61048-2006-a1-2016)

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Clause 4 of this standard applies.

E.4 General notes on tests

Clause 5 of this standard applies.

E.5 Marking

In addition to the marking mentioned under Clause 6 of this standard, built-in capacitors having an insulation equivalent to double or reinforced insulation shall be identified by the symbol IEC 60417-6295 (2014-09):



The meaning of this marking shall be explained in the manufacturer's literature or catalogue.

E.6 Terminations

Clause 7 of this standard applies.

E.7 Creepage distances and clearances

Clause 8 of this standard applies with the following addition.

For built-in capacitors having an insulation equivalent to double or reinforced insulation, the requirements of IEC 60598-1, Section 11 and Annex M apply.

E.8 Voltage rating

Clause 9 of this standard applies.

E.9 Fuses

Clause 10 of this standard applies.

E.10 Discharge resistors

Clause 11 of this standard applies.

E.11 Testing sequence

Clause 12 of this standard applies.

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E.12 Sealing and heating test

Clause 13 of this standard applies.

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E.13 High-voltage test

E.13.1 General

Clause 14 of this standard applies with the following addition.

For built-in capacitors having an insulation equivalent to double or reinforced insulation, 14.2 shall be modified as in E.13.2

E.13.2 High-voltage test between terminals and case for Class II capacitors

The dielectric strength test given in IEC 60598-1, Table 10.2 shall be used for the high-voltage test between terminals and case.

E.14 Resistance to adverse operating conditions

Clause 15 of this standard applies.

E.15 Resistance to heat, fire and tracking

Clause 16 of this standard applies.

E.16 Self-healing test

Clause 17 of this standard applies.

E.17 Destruction test

Clause 18 of this standard applies, with the following modifications.

For built-in capacitors having an insulation equivalent to double or reinforced insulation:

- the last sentence of 18.1.2 shall be replaced by the following:
Compliance is checked by the requirements of 18.1.4. One failure is permitted for a) and b). No failures are permitted for c) and d).
- item d) of 18.1.4 shall be replaced by the following:
d) *the capacitor shall withstand the test of 14.2 (not modified as in E.13.2), the test voltage being reduced by 500 V.*
- item b) of 18.2.3.5 shall be replaced by the following:
b) *The capacitors shall withstand the high-voltage test between the terminals and the case in accordance with 14.2 (not modified as in E.13.2).*
- 18.2.3.6 shall be replaced by the following:
All capacitors becoming inoperative shall fulfil the requirements of 18.2.3.4 b) and c) and 18.2.3.5 b).
If one of the test specimens does not satisfy the criteria according to 18.2.3.4 a) and 18.2.3.5 a), the test may be repeated once on a further 40 samples. However, all the capacitors shall pass the repeat test.
If more than one capacitor does not satisfy the criteria according to 18.2.3.4 a) and 18.2.3.5 a), the test shall be regarded as having failed.