



SLOVENSKI STANDARD
SIST EN 60155:1999/A1:1999
01-julij-1999

Tlivni starterji za fluorescenčne sijalke - Dopolnilo A1 (IEC 60155:1993/A1:1995)

Glow-starters for fluorescent lamps (IEC 60155:1993/A1:1995)

Glimmstarter für Leuchtstofflampen (IEC 60155:1993/A1:1995)

Interrupteurs d'amorçage à lueur pour lampes à fluorescence (starters) (CEI 60155:1993/A1:1995)

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Ta slovenski standard je istoveten z: EN 60155:1995/A1:1995

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ICS:

29.140.30 Fluorescenčne sijalke. Sijalke Fluorescent lamps.
Discharge lamps

SIST EN 60155:1999/A1:1999

en

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ICS 29.140.30

Descriptors: Starter, fluorescent lamp, starting test, endurance test, deactivated lamp, type test, marking

English version

Glow-starters for fluorescent lamps
(IEC 155:1993/A1:1995)

Interrupteurs d'amorçage à lueur pour
lampes à fluorescence (starters)
(CEI 155:1993/A1:1995)

Glimmstarter für Leuchtstofflampen
(IEC 155:1993/A1:1995)

This amendment A1 modifies the European Standard EN 60155:1995; it was approved by CENELEC on 1995-11-28. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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.

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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

Foreword

The text of document 34A/586/DIS, future amendment 1 to IEC 155:1993, prepared by SC 34A, Lamps, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60155:1995 on 1995-11-28.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1996-09-01

For products which have complied with EN 60155:1995 before 1996-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2001-09-01.

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annex C is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:1995 to the International Standard IEC 155:1993 was approved by CENELEC as an amendment to the European Standard without any modification.

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Annex ZA (normative)

**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>	<u>EN/HD</u>	<u>Year</u>
Add:				
ISO 4046	1978	Paper, board, pulp and related terms Vocabulary	-	-

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INTERNATIONAL STANDARD

IEC 60155

1993

AMENDMENT 1

1995-10

Amendment 1

Glow-starters for fluorescent lamps

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*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

D

For price, see current catalogue

FOREWORD

This amendment has been prepared by sub-committee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

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

DIS	Report on voting
34A/586/DIS	34A/623/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.

Page 3

Contents

Add the title of the new clause 11 and the new annex C as follows:

11 Information for luminaire design

Annex C – Information for luminaire design

STANDARD PREVIEW
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2 Normative references

[SIST EN 60155:1999/A1:1999](https://standards.iteh.ai/catalog/standards/sist/6c8cfa26-d263-4a32-95a5-3f914a802342/sist-en-60155-1999-a1-1999)

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Add the following normative reference:

ISO 4046: 1978, *Paper, board, pulp and related items – Vocabulary*

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Subclause 7.12.3

Delete the text of this subclause and replace it by the following:

7.12.3 The capacitor shall be resistant to flame and ignition.

Compliance shall be checked by the following test. The capacitors are each subjected to a gradually increasing a.c. voltage until breakdown occurs. The voltage source used to this effect should have a short-circuit power of approximately 1 kVA.

Thereafter, each capacitor shall be completely wrapped with tissue paper as specified in 6.86 of ISO 4046 and shall be connected in series with a 40 W inductive ballast complying with the requirements of annex A and operated for 5 min at the rated voltage of the ballast.

During this test, the capacitor shall not inflame the tissue paper.

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8.4 *Speed of operation*

Delete the existing text and replace it by the following new text:

With the exception of 20 W lamps as specified in IEC 81 for which the voltage shall be 103,5 V, a voltage equal to the test voltage of the lamp starting test for the relevant lamp specified in IEC 81 or in IEC 901 shall be applied to the circuit for 25 s.

During this time, the contacts shall open not less than seven times.

8.5 *Closed time*

Delete the text of this subclause and replace it by the following:

During the period of 25 s referred to in 8.4, the starter contacts shall be closed for a minimum total period of 10 s.

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8.7 *Pulse voltage*

Replace the second sentence of this subclause by the following:

The same voltage as specified in 8.4 shall be applied to the test circuit for 25 s.

Add the following note:

NOTE – As an alternative to the electrostatic voltmeter prescribed in figure 9, a memory oscilloscope may be used in the circuit together with a high voltage probe having the following properties:

- input resistance $\geq 100 \Omega$
- input capacitance $\leq 15 \text{ pF}$
- cut-off frequency $\geq 1 \text{ MHz}$

In case of dispute, the measurement with the electrostatic voltmeter is the reference method.

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Add the following new clause:

11 **Information for luminaire design**

See annex C.