



SLOVENSKI STANDARD
SIST EN 60923:2001/A1:2002
01-december-2002

Auxiliaries for lamps – Ballasts for discharge lamps (excluding tubular fluorescent lamps) (IEC 60923:1995/A1:2001)

Auxiliaries for lamps - Ballasts for discharge lamps (excluding tubular fluorescent lamps)
- Performance requirements

Geräte für Lampen - Vorschaltgeräte für Entladungslampen (ausgenommen röhrenförmige Leuchtstofflampen) - Anforderungen an die Arbeitsweise

Appareils auxiliaires pour lampes - Ballasts pour lampes à décharge (à l'exclusion des lampes tubulaires à fluorescence) - Prescriptions de performance

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Ta slovenski standard je istoveten z: EN 60923:1996/A1:2001

ICS:

29.140.30 Fluorescent lamps.
Discharge lamps

SIST EN 60923:2001/A1:2002 en

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EUROPEAN STANDARD

EN 60923/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2001

ICS 29.140.30

English version

**Auxiliaries for lamps -
Ballasts for discharge lamps
(excluding tubular fluorescent lamps) -
Performance requirements
(IEC 60923:1995/A1:2001)**

Appareils auxiliaires pour lampes -
Ballasts pour lampes à décharge
(à l'exclusion des lampes tubulaires
à fluorescence) -
Prescriptions de performance
(CEI 60923:1995/A1:2001)

Geräte für Lampen -
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Leuchtstofflampen) -
Anforderungen an die Arbeitsweise
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This amendment A1 modifies the European Standard EN 60923:1996; it was approved by CENELEC on 2001-10-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, 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

Foreword

The text of document 34C/533/FDIS, future amendment 1 to IEC 60923:1995, prepared by SC 34C, Auxiliaries for 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 60923:1996 on 2001-10-01.

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) 2002-07-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2008-10-01

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 E is informative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:2001 to the International Standard IEC 60923:2001 was approved by CENELEC as an amendment to the European Standard without any modification.

[SIST EN 60923:2001/A1:2002](https://standards.iteh.ai/catalog/standards/sist/9ddb3656-7eea-46ec-87a4-7459a98f23b9/sist-en-60923-2001-a1-2002)

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

Add:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61167	1992	Metal halide lamps	EN 61167	1994
IEC 61547	1995	Equipment for general lighting purposes - EMC immunity requirements	EN 61547	1995

Replace the reference to IEC 555-2:1992 by:

IEC 61000-3-2 (mod)	2000	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	EN 61000-3-2	2000
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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60923

1995

AMENDEMENT 1
AMENDMENT 1
2001-08

Amendement 1

**Appareils auxiliaires pour lampes –
Ballasts pour lampes à décharge (à l'exclusion
des lampes tubulaires à fluorescence) –
Prescriptions de performance**

(standards.iteh.ai)

Amendment 1

[SIST EN 60923:2001/A1:2002](https://standards.iteh.ai/catalog/standards/sist/9ddb3656-7cca-46ec-87a4-7459a98123b9/sist-en-60923-2001-a1-2002)

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**Auxiliaries for lamps –
Ballasts for discharge lamps
(excluding tubular fluorescent lamps) –
Performance requirements**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

D

*Pour prix, voir catalogue en vigueur
For price, see current catalogue*

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/533/FDIS	34C/535/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 the base publication and its amendments will remain unchanged until 2002-10. At this date, the publication will be

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

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CONTENTS

Add, at the end of the contents, the title of the following new annex E:
<https://standards.iteh.ai/catalog/standards/sist/9c0b5036-7cca-46cc-87a4-7459a98f23b9/sist-en-60923-2001-a1-2002>

E Interpretations

Page 11

1.1 Normative references

Add, to the existing list of references, the following new references:

IEC 61167:1992, *Metal halide lamps*

IEC 61547:1995, *Equipment for general lighting purposes – EMC immunity requirements*

Replace the reference to IEC 555-2:1982 by the following new reference:

IEC 61000-3-2:2000, *Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤16 A per phase)*

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3 General notes on tests

Add, after 3.7, the following new subclause 3.8:

3.8 All ballasts specified in this standard are deemed to meet the requirements of IEC 61547 and, as such, do not require further testing.

NOTE Conformity with IEC 61547 may be declared by the manufacturer and need not form part of third party approval to the standard.

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8.1 Supply current waveform

Replace all references to IEC 555-2 by IEC 61000-3-2.

In the first note, replace "clause 4" by "Scope and Annex A"

Page 23

18 Short-circuit current and run-up conditions

Add to clause 18 the following paragraph:

The maximum value of lamp inrush-current (peak) specified in the relevant lamp data sheets of IEC 61167 (if no data is available then the lamp manufacturer shall be consulted) shall be checked as follows:

a) Test circuit

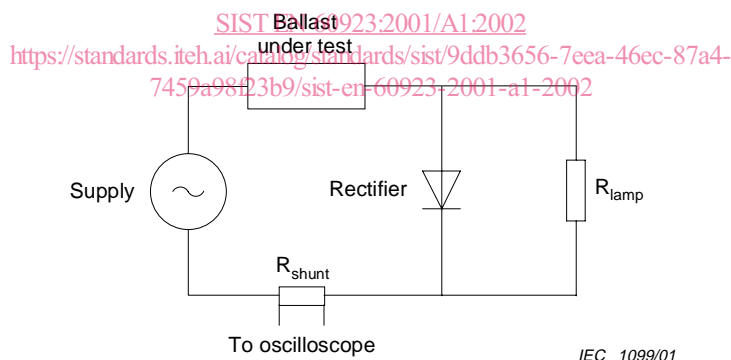


Figure 6 – Lamp inrush-current test circuit

b) Components

Supply Mains impedance shall be sufficiently low, in order not to influence the measuring results.

Rectifier: Mains rectifier, with forward voltage drop ≤ 2 V (e.g. BY249.600).

R_{lamp}: R_{lamp} depends on lamp type and shall be calculated with the formula:

$$R_{lamp} = 2(V_{lamp\ nom}/I_{lamp\ nom})$$

R_{shunt}: During the test the voltage drop shall be ≤ 1 V.

NOTE In North America, a current probe (inductive coil) may be used as an alternative to the shunt resistor.