



SLOVENSKI STANDARD

SIST EN 60238:2000

01-april-2000

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SIST EN 60238:1992/A1:1995

SIST EN 60238:1992/A2:1995

SIST EN 60238:1995

SIST EN 60238:1998/A1:1998

SIST EN 60238:1999

SIST EN 60238:1999/A2:2000

Edison screw lampholders

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Edison screw lampholders

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Lampenfassungen mit Edisongewinde

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Douilles à vis Edison pour lampes

Ta slovenski standard je istoveten z: EN 60238:1998

ICS:

29.140.10

Grla in držala žarnic

Lamp caps and holders

SIST EN 60238:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60238

November 1998

ICS 29.140.10

Supersedes EN 60238:1996 + A1:1997 + A2:1998

Descriptors: Edison screw holders, dimensions, requirements, testing, definitions, switches

English version

**Edison screw lampholders
(IEC 60238:1998)**

Douilles à vis Edison pour lampes
(CEI 60238:1998)

Lampenfassungen mit Edisongewinde
(IEC 60238:1998)

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This European Standard was approved by CENELEC on 1998-10-01. 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 Central Secretariat or to any CENELEC member.

This European Standard 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, 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 34B/780/FDIS, future edition 7 of IEC 60238, prepared by SC 34B, Lamp caps and holders, of IEC TC 34, Lamps and related equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60238 on 1998-10-01.

This European Standard supersedes EN 60238:1996, with its corrigendum July 1996 and its amendments A1:1997 and A2:1998.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 1999-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2001-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A and ZA are normative.
Annex ZA has been added by CENELEC.

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Endorsement notice
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The text of the International Standard IEC 60238:1998 was approved by CENELEC as a European Standard without any modification.

SIST EN 60238:2000

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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>
IEC 60061-1 + supplements (mod)	1969	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps	EN 60061-1 + amendments	1993
IEC 60061-2 + supplements (mod)	1969	Part 2: Lampholders	EN 60061-2 + amendments	1993
IEC 60061-3 + supplements (mod)	1969	Part 3: Gauges SIST EN 60238:2000 https://standards.iteh.ai/catalog/standards/sist/f2be886a-f946-43eb-9206-e2e000e15a53/sist-en-60238-2000	EN 60061-3 + amendments	1993
IEC 60068-2-20	1979	Environmental testing Part 2: Tests - Test T: Soldering	HD 323.2.20 S3 ¹⁾	1988
IEC 60068-2-32	1975	Part 2: Tests - Test Ed: Free fall	HD 323.2.32 S2 ²⁾	1991
IEC 60068-2-75	1997	Part 2: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
IEC 60112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2	1980
IEC 60227 (mod)	series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	HD 21	series
IEC 60245 (mod)	series	Rubber insulated cables of rated voltages up to and including 450/750 V	HD 22	series

1) HD 323.2.20 S3 includes A2:1987 to IEC 60068-2-20.

2) HD 323.2.32 S2 is superseded by EN 60068-2-32:1993, which is based on IEC 60068-2-32:1975 + A2:1990.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60335 (mod)	1991	Safety of household and similar electrical appliances	EN 60335-1 + corr. January + A11 + A12 + A13 + A14	1994 1995 1995 1996 1998 1998
IEC 60352-1	1997	Solderless connections Part 1: Wrapped connections - General requirements, test methods and practical guidance	EN 60352-1	1997
IEC 60399	1972	Standard sheets for barrel thread for E14 and E27 lampholders with shade holder ring	EN 60399	1993
IEC 60417	1973	Graphical symbols for use on equipment - Index, survey and compilation of the single sheets	HD 243 S12 ³⁾	1995
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60598	series	Luminaires	EN 60598	series
IEC 60598-1 (mod)	1996	Luminaires Part 1: General requirements and tests	EN 60598-1	1997
IEC 60664-1 (mod)	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	HD 625.1 S1 + corr. November	1996 1996
IEC 60695-2-1/0	1994	Fire hazard testing Part 2: Test methods Section 1/sheet 0: Glow-wire test methods General	EN 60695-2-1/0	1996
IEC 60695-2-1/1 + corr. May	1994 1995	Part 2: Test methods Section 1/sheet 1: Glow-wire end-product test and guidance	EN 60695-2-1/1	1996
IEC 60695-2-2	1991	Part 2: Test methods Section 2: Needle-flame test	EN 60695-2-2	1994
IEC 61058-1	1996 ⁴⁾	Switches for appliances Part 1: General requirements	-	-
ISO 4046	1978	Paper, board, pulp and related terms Vocabulary	-	-

3) HD 243 S12 includes supplements A:1974 to M:1994 to IEC 60417.

4) IEC 61058-1:1990 + A1:1993 are harmonized as EN 61058-1:1992 + A1:1993.



Corrigendum to EN 60238:1998

English version

Foreword

Replace the latest date of withdrawal of conflicting national standards (dow) by:

- latest date by which national standards conflicting with the EN have to be withdrawn (dow) 2005-10-01
-

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February 1999

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60238

Septième édition
Seventh edition
1998-09

Douilles à vis Edison pour lampes

Edison screw lampholders

iTeh STANDARD PREVIEW
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SIST EN 60238:2000

<https://standards.iteh.ai/catalog/standards/sist/f2be886a-f946-43cb-9206-e2e000e15a53/sist-en-60238-2000>

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE **XB**

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

EDISON SCREW LAMPHOLDERS

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60238 has been prepared by subcommittee 34B: Lamp caps and holders, of IEC technical committee 34: Lamps and related equipment.

This seventh edition cancels and replaces the sixth edition published in 1996, its amendment 1 (1997) and amendment 2 (1997). This seventh edition constitutes a minor revision.

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

FDIS	Report on voting
34B/780/FDIS	34B/799/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.

Annex A forms an integral part of this standard.

In this standard, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

EDISON SCREW LAMPHOLDERS

1 General

1.1 Scope

This International Standard applies to lampholders with Edison thread E14, E27 and E40, designed for connection to the supply of lamps and semi-luminaires* only.

It also applies to switched-lampholders for use in a.c. circuits only, where the working voltage does not exceed 250 V r.m.s.

This standard also applies to lampholders with Edison thread E5 designed for connection to the supply mains of series connected lamps, with a working voltage not exceeding 25 V, to be used indoors, and to lampholders with Edison thread E10 designed for connection to the supply mains of series connected lamps, with a working voltage not exceeding 60 V, to be used indoors or outdoors. It also applies to lampholders E10 for building-in, for the connection of single lamps to the supply. These lampholders are not intended for retail sale.

As far as it reasonably applies, this standard also covers lampholders other than lampholders with Edison thread designed for connection of series-connected lamps to the supply.

NOTE – This type of lampholder is for example used in Christmas tree lighting chains.

This standard also covers lampholders which are, wholly or partly, integral with a luminaire or intended to be built into appliances. It covers the requirements for the lampholder only. For all other requirements, such as protection against electric shock in the area of the terminals, the requirements of the relevant appliance standard shall be observed and tested after building into the appropriate equipment, when that equipment is tested according to its own standard. For all other requirements, such as protection against electric shock in the area of the terminals or of the lamp cap, the requirements of the relevant appliance standard shall be observed and tested after building into the appropriate equipment, when that equipment is tested according to its own standard. Such lampholders as well as lampholders provided with a snap-on outer shell, intended for use by luminaire manufacturers are not intended for retail sale.

This standard applies to lampholders to be used indoors or outdoors in residential as well as in industrial lighting installations. It also applies to candle lampholders. In locations where special conditions prevail, as for street lighting, on board ships, in vehicles and in hazardous locations, e.g. where explosions are liable to occur, special constructions may be required.

NOTE 1 – This standard does not apply to three-light lampholders E26d.

NOTE 2 – This standard is based on the following data relative to lamps for general lighting service:

- caps E14 are used for lamps with a current not exceeding 2 A;
- caps E27 are used for lamps with a current not exceeding 4 A;
- caps E40 are used for lamps with a current not exceeding 16 A.

NOTE 3 – If the nominal voltage of the supply does not exceed 130 V, the maximum current for caps E40 is 32 A (see 4.5 and 5.3).

NOTE 4 – Where lampholders are used in luminaires, their maximum operating temperatures are specified in IEC 60598.

* Requirements for lampholders suitable for semi-luminaires are under consideration.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60061 (all parts), *Lamp caps and holders together with gauges for the control of interchangeability and safety*

IEC 60061-1:1969, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 60061-2:1969, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders*

IEC 60061-3:1969, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60068-2-20:1979, *Environmental testing – Part 2: Tests – Test T: Soldering*

IEC 60068-2-32:1975, *Environmental testing – Part 2: Tests – Test Ed: Free fall*

IEC 60068-2-75:1997, *Environmental testing – Part 2: Tests – Test Eh: Hammer tests*

IEC 60112:1979, *Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions*

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables – Rated voltages up to and including 450/750 V*

IEC 60335-1:1991, *Safety of household and similar electrical appliances – Part 1: General requirements*

IEC 60352-1:1997, *Solderless connections – Part 1: Wrapped connections – General requirements, test methods and practical guidance*

IEC 60399:1972, *Standard sheets for barrel thread for E14 and E27 lampholders with shade holder ring*

IEC 60417:1973, *Graphical symbols for use on equipment – Index, survey and compilation of the single sheets*

IEC 60529:1989, *Degrees of protection provided by enclosures*

IEC 60598 (all parts and sections), *Luminaires*

IEC 60598-1:1996, *Luminaires – Part 1: General requirements and tests*

IEC 60664-1:1992, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 60695-2, *Fire hazard testing – Part 2: Test methods*

IEC 60695-2-1/0:1994, *Fire hazard testing – Part 2: Test methods – Section 1/sheet 0: Glow wire test methods – General*

IEC 60695-2-1/1:1994, *Fire hazard testing – Part 2: Test methods – Section 1/sheet 1: Glow wire end-product test and guidance*

IEC 60695-2-2:1991, *Fire hazard testing – Part 2: Test methods – Section 2: Needle flame test*

IEC 61058-1:1996, *Switches for appliances – Part 1: General requirements*

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

2 Definitions

For the purpose of this International Standard, the following definitions apply. For clarification of some definitions, see also figure 18.

2.1

cord-grip lampholder

A lampholder incorporating a method of retaining a flexible cord by which it may then be suspended.

2.2

threaded entry lampholder

A lampholder incorporating a threaded component at the point of entry of the supply wires permitting the lampholder to be mounted on a mating threaded support (formerly called "nipple lampholder").

2.3

backplate lampholder

A lampholder so designed as to be suitable for mounting by means of an associated or integral back plate, directly onto a supporting surface or appropriate box.

2.4

lampholder for building-in

A lampholder designed to be built into a luminaire, an additional enclosure or the like.

2.4.1

unenclosed lampholder

A lampholder for building-in so designed that it requires additional means, for example an enclosure, to meet the requirements of this standard with regard to protection against electric shock.

2.4.2

enclosed lampholder

A lampholder for building-in so designed that on its own it fulfils the requirements of this standard with regard to protection against electric shock and IP classification, if appropriate.

2.5**independent lampholder**

A lampholder so designed that it can be mounted separately from a luminaire and at the same time providing all the necessary protection according to its classification and marking.

2.6**terminal/contact assembly**

A part or assembly of parts which provide(s) a means of connection between the termination of a supply conductor and the contact making surfaces of the corresponding lamp cap.

2.7**outer shell**

A cylindrical component protecting the user from contact with the lamp cap. It may or may not be provided with an external screw thread for fixing a shade ring.

2.7.1**snap-on outer shell**

An outer shell for screwless assembly which does not contain the screw shell.

NOTE – The lampholder should not be used when the snap-on outer shell is removed.

It is therefore recommended to place an approval mark, if provided, in such a way that it is not visible when this type of outer shell is removed.

2.8**screw shell**

A cylindrical component having an internal screw thread of Edison form for the retention of the corresponding lamp (cap). In some constructions, the screw shell is permanently fixed to or integral with the outer shell.

2.9**insulating ring**

A cylindrical intermediate piece of insulating material separating a metal screw shell and a metal outer shell.

2.10**shade ring**

A cylindrical component having an internal thread or other means to engage a corresponding support on the outer shell and intended to carry or retain a shade.

2.11**dome**

A part of a cord-grip lampholder or threaded entry lampholder which shields the connecting terminals.

2.12**basic insulation**

An insulation applied to live parts to provide basic protection against electric shock.

NOTE – Basic insulation does not necessarily include insulation used exclusively for functional purposes.

2.13**supplementary insulation**

An independent insulation applied in addition to basic insulation in order to provide protection against electric shock in the event of a failure of basic insulation.