



SLOVENSKI STANDARD
SIST EN 60238:1995

01-marec-1995

Edison screw lampholders

Edison screw lampholders

Lampenfassungen mit Edisongewinde

Douilles à vis Edison pour lampes

Ta slovenski standard je istoveten z: EN 60238:1992

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ICS:

29.140.10 Grla in držala žarnic Lamp caps and holders

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en

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EUROPEAN STANDARD

EN 60238

NORME EUROPEENNE

EUROPÄISCHE NORM

June 1992

UDC 621.316.58

Supersedes EN 60238:1988

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

ENGLISH VERSION

Edison screw lampholders
(IEC 238:1991, modified)

Douilles à vis Edison pour
lampes
(CEI 238:1991, modifiée)

Lampenfassungen mit
Esdisongewinde
(IEC 238:1991, modifiziert)

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This European Standard was approved by CENELEC on 1992-03-24. 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, 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

Following the decision taken by CENELEC Technical Committee TC 34Z at their meeting in Brussels in February 1989, the International Publication IEC 238:1991 was submitted to the CENELEC Unique Acceptance Procedure (UAP) in June 1991 for acceptance as a European Standard.

The text of the draft was approved by CENELEC as EN 60238 on 24 March 1992.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1993-03-01
- latest date of withdrawal of
conflicting national standards (dow) 1993-03-01

For products which have complied with EN 60238:1989 before 1993-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-03-01.

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative.

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ENDORSEMENT NOTICE

The text of the International Standard IEC 238:1991 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS**12 Construction**

12.6 Replace lines 20, 21 and 22 by:

H03RT-F;
H05RR-F;
H03VV-F;
H03VVH2-F.

In the first sentence after the table, replace "IEC Publication 254 or IEC Publication 227" by "Harmonization Documents HD 22 S2 or HD 21 S2".

EDITORIAL MODIFICATIONS

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1 General

1.1 In note 3, replace "(see 5.5 and 6.3)" by "(see 4.5 and 5.3)".

1.2 Normative references <http://standards.sist/95a7259d-7509-41dc-9327-124403263e2c/sist-en-60238-1995>

Replace the text of this subclause by:

NOTE: Other international publications quoted in this standard are listed in annex ZA (normative).

4 General conditions for tests

4.3 In line 8, replace "clause 21" by "clause 20".

5 Standard ratings

5.4 In the second paragraph, replace "higher" by "lower".

8 Dimensions

8.6 In table 3, replace "M 16 X 11" by "M 16 X 1".

10 Terminals

10.10 In the first line, replace "and of 11.8" by "and of 10.8".

EDITORIAL MODIFICATIONS

- 14 **Moisture resistance, insulation resistance and electric strength**
- 14.4 In the paragraph starting with "Measurements prescribed", replace "figure 10" by "figure 11".
- 15 **Mechanical strength**
- 15.4 In the paragraph starting with "The minimum value", replace "of 17.1" by "of 16.1".
- 15.6 In the paragraph starting with "Dammage to", replace "clause 18" by "clause 17".
- 16 **Screws, current-carrying parts and connections**
- 16.1 In the first note, replace "clause 16." by "clause 15.".
- 18 **Normal operation**
- In the paragraph starting with "Finally the specimen", replace "to 15.4" by "to 14.4".
- In the subsequent note, replace "clause 15" by "clause 14".
- <https://standards.iteh.ai/catalog/standards/sist/95a7259d-7509-41dc-9327-174401263123/sist-en-60238-1995>
- 19 **General resistance to heat**
- 19.1 In the second paragraph, replace "of 20.2 to 20.4" by "of 19.2 to 19.4".
- 19.4 In the paragraph starting with "In addition,", replace "in 16.2 and 16.6" by "in 15.2 and 15.6".
- 20 **Resistance to heat, fire and tracking**
- 20.5 In the 8th paragraph starting with a hyphen, replace "Note 2" by "Note 1".
- Figures**
- Figure 5 In the title, replace "of clause 19" by "of clause 18".
- Figure 11 In the title, replace "of 15.4 and 20.3" by "of 14.4 and 19.3".
-

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT 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 the European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE: When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

| IEC Publication | Date | Title | EN/HD | Date |
|--------------------|------|--|------------|---------|
| 61 | | Lamp caps and holders together with gauges for the control of inter-changeability and safety. | - | - |
| 61-1 | - | Part 1: Lamp Caps | HD 65.1 | sliding |
| 61-2 | - | Part 2: Lampholders | HD 65.2 | sliding |
| 61-3 | - | Part 3: Gauges | HD 65.3 | sliding |
| 112 | 1979 | Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions | HD 214 S2 | 1980 |
| 227, mod | - | Polyvinyl chlorid insulated cables of rated voltages up to and including 450/750 V | HD 21 | series |
| 245, mod | - | Rubber insulated cables of rated voltages up to and including 450/750 V | HD 22 | series |
| 328 | 1972 | Switches for appliances | - | - |
| 335-1, mod | 1970 | Safety of household and similar electrical appliances Part 1: General requirements | HD 251 S2* | 1982 |

* HD 251 S2 is superseded by EN 60335-1:1988 and its amendments A2:1988 + A5:1989 + A6:1989 + A51:1991 + A52:1992 + A53:1992, which are based on IEC 335-1:1976 and its amendments A1:1977 + A2:1979 + A3:1982 + A4:1984 + A5:1986 + A6:1988.

| <u>IEC</u> | <u>Publication</u> | <u>Date</u> | <u>Title</u> | <u>EN/HD</u> | <u>Date</u> |
|------------|--------------------|-------------|--|---------------|-------------|
| 339 | 1972 | | Standard sheets for barrel thread for E14 and E27 lampholders with shade holding | HD 222 S1 | 1977 |
| 529 | 1976 | | Classification of degrees of protection provided by enclosures | HD 365 S1* | 1978 |
| 598-1, mod | 1986 | | Luminaires - Part 1: General requirements and tests | EN 60598-1* | 1989 |
| 695-2-1 | 1980 | | Fire hazard testing - Part 2: Test Methods, Glow-wire test and guidance | HD 444.2.1 S1 | 1983 |
| 695-2-2 | 1980 | | Fire hazard testing - Part 2: Test Needle-flame test | HD 444.2.2 S1 | 1983 |

Other publication quoted:

ASTM D 785-65:1981

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* HD 365 S1 is superseded by EN 60529:1991 which is based on IEC 529:1989

* EN 60598-1 (Reprint) includes A1:1988 to IEC 598-1

C E N E L E C
=====
Central Secretariat

CORRIGENDUM to EN 60238:1992

English version

Page 6

In the first column, replace the IEC Publication reference number
"339" by "399".

July 1992

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
238

Cinquième édition
Fifth edition
1991-01

Douilles à vis Edison pour lampes

**Edison screw lampholders
(standards.iteh.ai)**

SIST EN 60238:1995

<https://standards.iteh.ai/catalog/standards/sist/95a7259d-7509-41dc-9327-124403263e2c/sist-en-60238-1995>

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX XA
PRICE CODE

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

Page 90

Dernier tiret

Au lieu de: – La note 2

Lire: – La note 1

Page 103

Figure 5 – Légende

Au lieu de: pour les essais de l'article 19

Lire: pour les essais de l'article 18

Page 108

Figure 11 – Légende

Au lieu de: pour les essais des 15.4 et 20.3

Lire: pour les essais des 14.4 et 19.3

Page 91

Last dash

Instead of: – Note 2

Read: – Note 1

Page 103

Figure 5 – Legend

Instead of: for the test of clause 19

Read: for the test of clause 18

Page 108

Figure 11 – Legend

Instead of: for the tests of 15.4 and 20.3

Read: for the tests of 14.4 and 19.3

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

EDISON SCREW LAMPHOLDERS

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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This standard has been prepared by Sub-Committee 34B: Lamp caps and holders, of IEC Technical Committee No. 34: Lamps and related equipment. It constitutes the fifth edition of IEC 238, the 1987 edition of which it supersedes.

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

| Six Months' Rule | Reports on Voting |
|------------------|-------------------|
| 34B(CO)573 | 34B(CO)616 |
| 34B(CO)650 | 34B(CO)679 |

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table.

In this standard, the following print types are used:

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

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.

[SIST EN 60238:1995](https://standards.iteh.ai/catalog/standards/sist/95a7259d-7509-41dc-9327-12443265e2c0/sist-en-60238-1995)

As far as it reasonably applies, the standard also covers lampholders which are, wholly or partly, integral with a luminaire or intended to be built into appliances. Independent lampholders, e.g. backplate lampholders, not specifically intended for building-in, are also tested as luminaires.

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.

NOTES

- 1 This standard does not apply to three-light lampholders E26d.
- 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.
- 3 If the nominal voltage of the supply does not exceed 130 V, the maximum current for caps E40 is 32 A (see 5.5 and 6.3).
- 4 Where lampholders are used in luminaires, their maximum operating temperatures are specified in IEC 598.

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