

### SLOVENSKI STANDARD **SIST EN 60423:1999** 01-julij-1999

Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings (IEC 60423:1993, modified)

Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings

Elektroinstallationsrohre - Auendurchmesser von Elektroinstallationsrohren und Gewinde fr Elektroinstallationsrohre und deren Zubehr

### iTeh STANDARD PREVIEW

Conduits de protection des conducteurs - Diamtres extrieurs des conduits pour installations lectriques et filetages pour conduits et accessoires

en

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Ta slovenski standard je istoveten Z:04cb8/EN 60423:1994

ICS:

29.120.10

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Conduits for electrical purposes

SIST EN 60423:1999

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EUROPEAN STANDARD

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EN 60423

NORME EUROPEENNE

**EUROPAISCHE NORM** 

November 1994

UDC 621.315.671:696.6:621.882.082.1

Supersedes HD 393 S1:1979

ICS 29.120.10

Descriptors: Electrical installation, electric conduit, equipment

specification, diameter, screw thread

### **ENGLISH VERSION**

Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings (IEC 423:1993, modified)

Conduits de protection des conducteurs - Diamètres extérieurs des conduits pour installations électriques et filetages pour conduits et accessoires (CEI 423:1993, modifiée) Elektroinstallationsrohre Außendurchmesser von Elektroinstallationsrohren und Gewinde für Elektroinstallationsrohre und deren Zubehör (IEC 423:1993, modifiziert)

This European Standard was approved by CENELEC on 1994-10-04. 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. PREVIEW

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

Page 2

EN 60423:1994

#### Foreword

The text of the International Standard IEC 423:1993, prepared by sub-committee 23A: Conduits for electrical purposes, of IEC technical committee 23, Electrical accessories, together with the common modifications prepared by Technical Committee CENELEC TC 113, Cable Management, was submitted to the Unique Acceptance Procedure and approved by CENELEC as EN 60423 on 4 October 1994.

This European Standard supersedes HD 393 S1:1979.

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) 1995-07-01

- latest date by which national standards conflicting with the EN have to be withdrawn

(dow) 1995-07-01

For products which have complied with HD 393 S1:1979 before 1995-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2000-07-01.

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA, which has been added by CENELEC, is normative.

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### **Endorsement notice**

The text of the International Standard IEC 423:1993 was approved by CENELEC as a European Standard with agreed common modifications as given below.

### **COMMON MODIFICATIONS**

### 2 Normative references

Replace the text of clause 2, Normative references, by:

NOTE: Normative references to international publications are listed in annex ZA (normative).

### Table 1

Replace the last three entries for Outside diameters (column 1) by:

50 + 0/-0,5 63 + 0/-0,6 75 + 0/-0,6

### Replace note 3 by:

3 Dimensions 50, 63 and 75 mm: for threadable conduits tolerances on outside diameters are reduced to (+0/-0.04) in each case.

### Figure 3a

In column 2, C, of the table, replace the values for sizes 50, 63 and 75 by:

49,500 62,400 74,400

### Figure 3b

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In column 2,  $d_g$ , of the table, replace the values for sizes 50, 63 and 75 by:

**49,50** SIST EN 60423:1999 **62,40** ps://standards.iteh.ai/catalog/standards/sist/a6488ca2-2a82-4928-9fld-74,40 cde4d0694cb8/sist-en-60423-1999

### 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>	EN/HD	<u>Year</u>
IEC 981	1989	Extra-heavy duty rigid steel conduits for electrical installations	-	<del>-</del> .
ISO 68	1973	ISO general purpose screw threads - Basic profile	-	-
ISO 1502	1978	ISO general purpose metric screw threads - Gauging	-	-

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### NORME INTERNATIONALE INTERNATIONAL **STANDARD**

CEI IEC 423

Deuxième édition Second edition 1993-10

Conduits de protection des conducteurs – Diamètres extérieurs des conduits pour installations électriques et filetages pour conduits et accessoires

Conduits for electrical purposes -Outside diameters of conduits for electrical installations and threads for conduits and fittings

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Bureau Central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève, Suisse



Commission Electrotechnique Internationale CODE PRIX International Electrotechnical Commission PRICE CODE Международная Электротехническая Комиссия

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

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### INTERNATIONAL ELECTROTECHNICAL COMMISSION

# CONDUITS FOR ELECTRICAL PURPOSES – OUTSIDE DIAMETERS OF CONDUITS FOR ELECTRICAL INSTALLATIONS AND THREADS FOR CONDUITS AND FITTINGS

### **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 cooperation 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, 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.
- 3) They have the form of recommendations for international use 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.

International Standard IEC 423 has been prepared by sub-committee 23A: Conduits for electrical purposes, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition of IEC 423, published in 1973 as well as IEC 423A, published in 1978, and constitutes a technical revision.

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



Full information on the voting for the Sapproval of this standard can be found in the report on voting indicated in the above table g/standards/sist/a6488ca2-2a82-4928-9fld-cde4d0694cb8/sist-en-60423-1999

### INTRODUCTION

The mechanical performance of the threadable parts of the conduit system will be a function of material and wall thickness which is specified in the appropriate product standard (IEC 1035-2 or IEC 614-2).

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# CONDUITS FOR ELECTRICAL PURPOSES – OUTSIDE DIAMETERS OF CONDUITS FOR ELECTRICAL INSTALLATIONS AND THREADS FOR CONDUITS AND FITTINGS

### 1 Scope

This International Standard specifies outside diameters for conduits used in electrical installations and the dimensional requirements for threads. It also specifies the dimensional requirements for threads used in associated fittings.

It is not applicable to extra-heavy duty rigid steel conduits specified in IEC 981.

#### 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 981: 1989, Extra-heavy duty rigid steel conduits for electrical installations

ISO 68: 1973, ISO general purpose screw threads - Basic profile

ISO 1502: 1978, ISO general purpose metric screw threads - Gauging

### 3 Outside diameters and threads

The outside diameters, tolerances and details of external and internal metric threads are given in table 1. Details of the thread form are given in figure 1, which is based on ISO 68.

#### SIST EN 60423:1999

4 Gauges https://standards.iteh.ai/catalog/standards/sist/a6488ca2-2a82-4928-9fld-cde4d0694cb8/sist-en-60423-1999

Details of gauges for checking the maximum outside diameter of conduits are given in figure 2. For the minimum outside diameters of conduits, details are given in figures 3a and 3b.

The dimensions of gauges for checking external threads are given in table 2, and these are in accordance with ISO 1502. The types of gauges are shown in figure 4.