



**SLOVENSKI STANDARD**  
**SIST EN 60129:1995/A2:2001**  
**01-marec-2001**

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**Alternating current disconnectors and earthing switches**

Alternating current disconnectors and earthing switches

Wechselstromtrennschalter und Erdungsschalter

Sectionneurs et sectionneurs de terre à courant alternatif

**Ta slovenski standard je istoveten z: EN 60129:1994/A2:1996**

[SIST EN 60129:1995/A2:2001](https://standards.iteh.ai/catalog/standards/sist/78f92fa8-be8f-4344-b0ee-2992ad699a66/sist-en-60129-1995-a2-2001)

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**ICS:**

29.120.40      Stikala      Switches

**SIST EN 60129:1995/A2:2001**      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60129/A2**

August 1996

UDC 621.316.542:621.316.99  
ICS 29.120.60

Descriptors: Disconnectors, earthing switches, alternating current

English version

**Alternating current disconnectors and earthing switches  
(IEC 129:1984/A2:1996)**

Sectionneurs et sectionneurs de terre à  
courant alternatif  
(CEI 129:1984/A2:1996)

Wechselstromtrennschalter und  
Erdungsschalter  
(IEC 129:1984/A2:1996)

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This amendment A2 modifies the European Standard EN 60129:1994; it was approved by CENELEC on 1996-07-02. 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.

**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 17A/468/FDIS, future amendment 2 to IEC 129:1984, prepared by SC 17A, High-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60129:1994 on 1996-07-02.

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) 1997-04-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1997-04-01

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

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### Endorsement notice

The text of amendment 2:1996 to the International Standard IEC 129:1984 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

Addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
129

1984

AMENDEMENT 2  
AMENDMENT 2

1996-07

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Amendement 2

**Sectionneurs et sectionneurs de terre à courant alternatif**

iTeh STANDARD PREVIEW

Amendment 2

(standards.iteh.ai)

**Alternating current disconnectors and earthing switches**

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Международная Электротехническая Комиссия

CODE PRIX  
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For price, see current catalogue

## FOREWORD

This amendment has been prepared by sub-committee 17A: High-voltage switchgear and controlgear, of IEC technical committee 17: Switchgear and controlgear.

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

FDIS	Report on voting
17A/468/FDIS	17A/483/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.

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Preface

*Add to the list of IEC publications, the following publication:*

529 (1989): Degrees of protection provided by enclosures (IP Code).

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**1 Scope**

*Add the following new paragraphs at the end of this clause:*

When a position indicating device is used as alternative to the visible isolating distance or gap and is connected to the movable contacts of disconnectors or earthing switches by a mechanical connection the following instructions shall be applied.

NOTE – The IEC standards (IEC 129 subclause 5.104.2, IEC 298 subclause 5.105, IEC 265-1 subclause 5.104.2, IEC 265-2 subclause 5.103.2 and IEC 517 subclause 5.106) accept as an alternative to a visible isolating distance or gap that the moving contact position is shown by a reliable indicating device. In this standard, additional design and testing requirements are given and they have to be implemented in order that the indicating device can be considered reliable.

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**3 Definitions**

*After 3.102.5, page 11, insert the following new definitions:*

**3.102.5.1 Earthing switch class A**

An earthing switch not falling into the category of class B as defined in 3.102.5.2.



### 3.102.5.2 Earthing switch class B

An earthing switch designed so as not to require maintenance of the main contacts during the expected operating life of the earthing switch, and only minimal maintenance of its other parts.

#### NOTES

- 1 Minimal maintenance may include lubrication, replenishment of gas and cleaning of external surfaces, where applicable.
- 2 This definition is limited to earthing switches having a rated voltage less than 52 kV.
- 3 There are two choices: use an earthing switch requiring maintenance of its main contacts and maintain as needed during its expected working life, or use a class B earthing switch but expect a more onerous testing regime to check its capability.

Add the following new definitions after 3.103.15:

### 3.103.16 Power kinematic chain

The mechanical connecting system from and including the operating mechanism up to and including the moving contacts (refer to figure 10).

### 3.103.17 Position indicating kinematic chain

The mechanical connecting system from and including the moving contacts up to and including the indicating device.

### 3.103.18 Connecting point (standards.iteh.ai)

The most upstream point of the common part of the kinematic chains (power and indicating).

### 3.103.19 Opening point

The nearest accessible point upstream of the connecting point where the power kinematic chain may be opened.

### 3.103.20 Test positions

- for disconnectors: the closed position with moving contact locked;
- for earthing switches: the open position with moving contact locked.

In the case of a multipolar switching device, only the moving contact of the pole with the greatest length of the power kinematic chain is locked.

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## 5 Design and construction

Add, page 41, the following paragraph to 5.104.2:

The kinematic chain of the position indicating device shall be designed with sufficient mechanical strength such that it meets the requirements of the specified tests (according to 6.105). The position indicating kinematic chain shall be a continuous mechanical