



SLOVENSKI STANDARD
SIST EN 62114:2002
01-september-2002

Electrical insulation systems (EIS) - Thermal classification

Electrical insulation systems (EIS) - Thermal classification

Elektrische Isoliersysteme (EIS) - Thermische Klassifizierung

Systèmes d'isolation électrique (SIE) - Classification thermique

Ta slovenski standard je istoveten z: EN 62114:2001

[SIST EN 62114:2002](https://standards.iteh.ai/catalog/standards/sist/9569deb2-2f37-4548-89fa-cc662d585fe5/sist-en-62114-2002)

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ICS:

29.080.30 Izolacijski sistemi Insulation systems

SIST EN 62114:2002 **en**

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EUROPEAN STANDARD

EN 62114

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2001

ICS 29.080.30

English version

**Electrical insulation systems (EIS) -
Thermal classification
(IEC 62114:2001)**

Systèmes d'isolation électrique (SIE) -
Classification thermique
(CEI 62114:2001)

Elektrische Isoliersysteme (EIS) -
Thermische Klassifizierung
(IEC 62114:2001)

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This European Standard was approved by CENELEC on 2001-11-01. 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.

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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, 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 98/132/FDIS, future edition 1 of IEC 62114, prepared by IEC TC 98, Electrical insulation systems (EIS), was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62114 on 2001-11-01.

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) 2002-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-11-01

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.

Endorsement notice

The text of the International Standard IEC 62114:2001 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60085:1984 NOTE Harmonized as HD 566 S1:1990 (not modified).

IEC 60216 (series) NOTE Harmonized as EN 60216 (series) (not modified).

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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 60505 | - ¹⁾ | Evaluation and qualification of electrical insulation systems | EN 60505 | 2000 ²⁾ |
| IEC 61857 | Series | Electrical insulation systems - Procedures for thermal evaluation | EN 61857 | Series |
| IEC 61858 | - ¹⁾ | Electrical insulation systems - Thermal evaluation of modifications to an established wire-wound EIS | EN 61858 | 2000 ²⁾ |

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¹⁾ Undated reference.

²⁾ Valid edition at time of issue.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

62114

Première édition
First edition
2001-10

**Systemes d'isolation électrique (SIE) –
Classification thermique**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

H

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For price, see current catalogue*

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICAL INSULATION SYSTEMS (EIS) –
THERMAL CLASSIFICATION**

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 specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 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 62114 has been prepared by IEC technical committee 98: Electrical insulation systems (EIS).

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

| FDIS | Report on voting |
|-------------|------------------|
| 98/132/FDIS | 98/143/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Annex A forms an integral part of this standard.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

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

INTRODUCTION

The useful life of an electrical insulation system (EIS) can be affected by electrical, thermal, mechanical or environmental stresses acting either individually or in combination. This International Standard addresses the case where the thermal factor of influence is the dominating ageing factor.

IEC 60085 recognizes a series of thermal classes which may be assigned to an electrical insulation material (EIM) or an EIS that "has been shown by test or from service experience to be capable of operating successfully at a particular temperature in a particular application." This first attempt to classify EIM and EIS, based on the thermal factor as the dominating ageing factor, provides the basis for future development of International Standards addressing this issue.

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