



SLOVENSKI STANDARD
SIST EN 60431:2002/A2:2002
01-september-2002

Dimensions of square cores (RM-cores) made of magnetic oxides and associated parts (IEC 60431:1983/A2:1996)

Dimensions of square cores (RM-cores) made of magnetic oxides and associated parts

Maße quadratischer Kerne (RM-Kerne) aus magnetischen Oxiden und deren Zubehörteile

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Dimensions des noyaux carrés (noyaux RM) en oxydes magnétiques et pièces associées

[SIST EN 60431:2002/A2:2002](https://standards.iteh.ai/catalog/standards/sist/3c500891-751c-4d4f-867f-aac78bd899d6/sist-en-60431-2002-a2-2002)

Ta slovenski standard je istoveten z: EN 60431:1997/A2:1998

ICS:

29.100.10 Magnetne komponente Magnetic components

SIST EN 60431:2002/A2:2002 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60431/A2

August 1998

ICS 29.100.10

Descriptors: Square cores, RM-cores, dimensions, magnetic oxides, measuring coils, clamping forces

English version

**Dimensions of square cores (RM-cores) made of
magnetic oxides and associated parts
(IEC 60431:1983/A2:1996)**

Dimensions des noyaux carrés
(noyaux RM) en oxydes magnétiques
et pièces associées
(CEI 60431:1983/A2:1996)

Maße quadratischer Kerne
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This amendment A2 modifies the European Standard EN 60431:1997; it was approved by CENELEC on 1998-08-01. 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, 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 amendment 2:1996 to the International Standard IEC 60431:1983, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the formal vote and was approved by CENELEC as amendment A2 to EN 60431:1997 on 1998-08-01 without any modification.

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) 1999-08-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1999-08-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annex D is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 2:1996 to the International Standard IEC 60431:1983 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 60317-0-1 | 1990 | Specifications for particular types of winding wires Part 0: General requirements Section 1: Enamelled round copper wire | EN 60317-0-1 ¹⁾ | 1994 |

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1) EN 60317-0-1 is superseded by EN 60317-0-1:1998, which is based on IEC 60317-0-1:1997.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
431

1983

AMENDEMENT 2
AMENDMENT 2

1996-05

Amendement 2

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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FOREWORD

This amendment has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

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

| | |
|-------------|------------------|
| FDIS | Report on voting |
| 51/415/FDIS | 51/426/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.

Page 3

CONTENTS

Add the following title of annex D:

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Guidance for measuring coils and clamping forces relevant to square core tests (RM-cores)

[SIST EN 60431:2002/A2:2002](#)

Page 7

<https://standards.iteh.ai/catalog/standards/sist/3c500891-751c-4d4f-867f-aac788d899d6/sist-en-60431-2002-a2-2002>

PREFACE TO THE SECOND EDITION

Add, to the list of IEC publications, the following title:

IEC 317-0-1: 1990, *Specifications for particular types of winding wires – Part 0: General requirements – Section 1: Enamelled round copper wire*

Add, after annex C, the following new annex D:

Annex D

Guidance for measuring coils and clamping forces relevant to square core tests (RM-cores)

D.1 General

This annex D specifies the measuring coils and the clamping forces used for the characterization of RM-cores.

D.2 Selection guide for measuring coils

The figures given in the following tables are recommendations for the choice and the design of measuring coils dedicated to low or high flux density tests performed on standard RM-cores.

D.2.1 *Measuring coils for low flux density tests*

The main electrical parameters to be tested at low flux density level are:

- the inductance factor (A_L);
- the hysteresis loss constant (η_B);
- the loss factor ($\tan\delta/\mu_r$).

Table D.1 lists the main winding parameters needed for coil construction which assure a high accuracy and repeatability for such low flux density measurements.