



SLOVENSKI STANDARD
SIST EN 62317-12:2017

01-april-2017

Feritna jedra - Mere - 12. del: Obročasta jedra

Ferrite cores - Dimensions - Part 12: Ring cores

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Ta slovenski standard je istoveten z: EN 62317-12:2016

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EUROPEAN STANDARD

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English Version

**Ferrite cores - Dimensions - Part 12: Ring cores
(IEC 62317-12:2016)**Noyaux de ferrite - Dimensions - Partie 12: Noyaux toriques
(IEC 62317-12:2016)Ferritkerne - Maße - Teil 12: Ringkerne
(IEC 62317-12:2016)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 62317-12:2016**European foreword**

The text of document 51/1128/CDV, future edition 1 of IEC 62317-12, prepared by IEC/TC 51 "Magnetic components and ferrite materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62317-12:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-07-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-10-27

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Endorsement notice

The text of the International Standard IEC 62317-12:2016 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 60401-2	NOTE Harmonized as EN 60401-2. https://standards.iteh.ai/catalog/standards/sist/7d52d719-9559-463c-b02d-1007b1a92173/iec-60401-2-2017
IEC 60424-4	NOTE Harmonized as EN 60424-4
IEC 60317-1	NOTE Harmonized as EN 62317-1.

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60205	-	Calculation of the effective parameters of magnetic piece parts	EN 60205	-

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INTERNATIONAL STANDARD

**Ferrite cores – Dimensions –
Part 12: Ring cores**

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INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FERRITE CORES – DIMENSIONS –

Part 12: Ring cores

FOREWORD

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International Standard IEC 62317-12 has been prepared IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This first edition cancels and replaces the first edition of IEC TR 61604 published in 1997. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC TR 61604:

- a) amendment of Clause 5 concerning the relationship between standard of European, Japanese and U.S.A. sizes;
- b) addition of Subclause 5.3 concerning coating.

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

CDV	Report on voting
51/1128/CDV	51/1143/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62317 series, under the general title *Ferrite cores – Dimensions*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

A bilingual version of this publication may be issued at a later date.

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FERRITE CORES – DIMENSIONS –

Part 12: Ring cores

1 Scope

This part of IEC 62317 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of ring-cores, also called toroid cores, and the effective parameter values to be used in calculations involving them.

The selection of core sizes for this document is based on the philosophy of including those sizes which are industrial standards, meaning that they are in broad-based use within industry. See IEC 62317-1 for more detail concerning the philosophy of selecting core sizes to be included.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60205, *Calculation of the effective parameters of magnetic piece parts*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Abbreviated terms

ID inside diameter
OD outside diameter

5 Primary standards

5.1 General

Compliance with the following requirements ensures mechanical interchangeability of complete assemblies and wound coils.

5.2 Dimensions of ring-cores

5.2.1 Designation of dimensions

Table 1 describes the alphabetic character assignments for the dimensions of ferrite ring cores.