

SLOVENSKI STANDARD SIST EN IEC 63093-3:2021

01-junij-2021

Nadomešča: SIST EN 62323:2005

Feritna jedra - Smernice o merah in mejnih vrednostih površinskih nepravilnosti -3. del: Feritna jedra v obliki polovičnih lončkov za induktivna bližinska stikala

Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 3: Half pot-cores made of ferrite for inductive proximity switches

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ICS:

29.100.10 Magnetne komponente

Magnetic components

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en

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Supersedes EN 62323:2005 and all of its amendments and corrigenda (if any)

English Version

Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 3: Half pot-cores made of ferrite for inductive proximity switches (IEC 63093-3:2020)

Noyaux ferrites - Lignes directrices relatives aux dimensions et limites des irrégularités de surface - Partie 3: Demi-circuits magnétiques en pots en ferrite pour des commutateurs inductifs de proximité (IEC 63093-3:2020) Ferritkerne - Richtlinien zu Maßen und Grenzen von Oberflächenschädigungen - Teil 3: Ferritschalenkernhälften für induktive Näherungsschalter (IEC 63093-3:2020)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document 51/1300/CDV, future edition 1 of IEC 63093-3, prepared by IEC/TC 51 "Magnetic components, ferrite and magnetic powder materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63093-3:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-02-01 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2023-05-01 document have to be withdrawn

This document supersedes EN 62323:2005 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 63093-3:2020 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 61332	NOTE	Harmonized as EN 61332
IEC 62044-1	NOTE	Harmonized as EN 62044-1
IEC 62044-2	NOTE	Harmonized as EN 62044-2
IEC 62044-3	NOTE	Harmonized as EN 62044-3
IEC 62317-1	NOTE	Harmonized as EN 62317-1
IEC 62317-2	NOTE	Harmonized as EN 62317-2

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where 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.

Publication	<u>Year</u>	Title	<u>EN/HD</u>	<u>Year</u>
IEC 60401-1	-	Terms and nomenclature for cores made of magnetically soft ferrites - Part 1: Terms used for physical irregularities and reference of dimensions CANDARD PREVIEW	-	-
IEC 60424-1	2015	Ferrite cores - Guidelines on the limits of surface irregularities - Part 1: General specification	EN 60424-1	2016
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Edition 1.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Ferrite cores – Guidetines on dimensions and the limits of surface irregularities – (standards.iteh.ai) Part 3: Half pot-cores made of ferrite for inductive proximity switches

SIST EN IEC 63093-3:2021

Noyaux ferrites multignes directrices relatives aux dimensions et limites des irrégularités de surface 50279dfa/sist-en-iec-63093-3-2021 Partie 3: Demi-circuits magnétiques en pots en ferrite pour des commutateurs inductifs de proximité

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FERRITE CORES – GUIDELINES ON DIMENSIONS AND THE LIMITS OF SURFACE IRREGULARITIES –

Part 3: Half pot-cores made of ferrite for inductive proximity switches

FOREWORD

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International Standard IEC 63093-3 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This first edition cancels and replaces the first edition of IEC 62323, published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition of IEC 62323:

a) addition of the limits surface irregularities.

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The text of this International Standard is based on the following documents:

CDV	Report on voting	
51/1300/CDV	51/1323/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 63093 series, published under the general title *Ferrite cores* – *Guidelines on dimensions and the limits of surface irregularities*, 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. iTeh STANDARD PREVIEW (standards.iteh.ai)

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FERRITE CORES – GUIDELINES ON DIMENSIONS AND THE LIMITS OF SURFACE IRREGULARITIES –

Part 3: Half pot-cores made of ferrite for inductive proximity switches

1 Scope

This part of IEC 63093-3 specifies the dimensions that are of importance for mechanical interchangeability for a preferred range of half pot-cores made of ferrite, intended to be used in inductive proximity switches. Half pot-cores for inductive proximity switches are also called PS-cores.

The selection of core sizes and shapes for this document is based on the philosophy of including those sizes and shapes which are industrial standards, either by inclusion in a national standard, or by broad-based use in industry.

This part of IEC 63093 can also be considered as a sectional specification useful in the negotiations between ferrite core manufacturers and customers about surface irregularities. It provides guidelines on the allowable limits of surface irregularities applicable to PS-cores in accordance with the relevant generic specification.

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2 Normative references

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The following documents are referred togin 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 60401-1, Terms and nomenclature for cores made of magnetically soft ferrites – Part 1: Terms used for physical irregularities

IEC 60424-1:2015, Ferrite cores – Guidelines on the limits of surface irregularities – Part 1: General specification

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60401-1 and IEC 60424-1 apply.

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 Primary dimensions

4.1 General

PS-cores are primarily suited for use in inductive proximity switches. The design of PS-cores is guided by the following considerations: