

# **SLOVENSKI STANDARD**

## **SIST EN 60915:2008**

**01-januar-2008**

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**Fiksni kondenzatorji in upori za uporabo v elektronski opremi - Priporočene mere za konce (valjastih) teles, izvrtine in montažo valjastih elektronskih komponent z eno odprtino skozi izvrtino (IEC 60915:2006 (EQV) + popravek maj 2007)**

Fixed capacitors and resistors for use in electronic equipment - Preferred dimensions of shaft ends, bushes and for the mounting of single-hole, bush-mounted, shaft-operated electronic components

Festkondensatoren und Widerstände zur Verwendung in Geräten der Elektronik - Vorzugsmaße für Wellenenden, Buchsen und für die Einloch-Buchsenmontage von wellenbetätigten elektronischen Bauelementen

Résistances et condensateurs fixes utilisés dans les équipements électroniques - Dimensions préférentielles concernant les terminaisons des axes, les canons et le montage par le canon sur trou unique des composants électroniques munis d'un axe de commande

**Ta slovenski standard je istoveten z: EN 60915:2007**

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**ICS:**

31.040.10	Fiksni upor	Fixed resistors
31.060.10	Fiksni kondenzatorji	Fixed capacitors

**SIST EN 60915:2008**

**en,de**

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EUROPEAN STANDARD

**EN 60915**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2007

ICS 31.040; 31.060

English version

**Fixed capacitors and resistors for use in electronic equipment -  
Preferred dimensions of shaft ends, bushes and for the mounting  
of single-hole, bush-mounted, shaft-operated electronic components  
(IEC 60915:2006 + corrigendum 2007)**

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utilisés dans les équipements  
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(CEI 60915:2006 + corrigendum 2007)

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Vorzugsmaße für Wellenenden, Buchsen  
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von wellenbetätigten elektronischen  
Bauelementen  
(IEC 60915:2006 + Corrigendum 2007)

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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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 40/1654/CDV, future edition 2 of IEC 60915, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 60915 on 2007-09-01.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the EN has to be implemented<br>at national level by publication of an identical<br>national standard or by endorsement | (dop) | 2008-06-01 |
| – latest date by which the national standards conflicting<br>with the EN have to be withdrawn  | (dow) | 2010-09-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60915:2006 + corrigendum May 2007 was approved by CENELEC as a European Standard without any modification.

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**Annex ZA**  
(normative)**Normative references to international publications  
with their corresponding European publications**

The following referenced documents are indispensable for the application 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 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 60390	– <sup>1)</sup>	Dimensions of spindle ends for manually operated electronic components	HD 363 S1	1977 <sup>2)</sup>
IEC 60620	– <sup>1)</sup>	Dimensions for the mounting of single-hole, bush-mounted, spindle-operated electronic components	HD 391 S3	1988 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

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# INTERNATIONAL STANDARD

**IEC  
60915**

Second edition  
2006-11

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**Fixed capacitors and resistors for use  
in electronic equipment – Preferred dimensions  
of shaft ends, bushes and for the mounting  
of single-hole, bush-mounted, shaft-operated  
electronic components**  
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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

**P**

*For price, see current catalogue*

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIXED CAPACITORS AND RESISTORS FOR USE  
IN ELECTRONIC EQUIPMENT –  
PREFERRED DIMENSIONS OF SHAFT ENDS, BUSHES AND FOR THE  
MOUNTING OF SINGLE-HOLE, BUSH-MOUNTED, SHAFT-OPERATED  
ELECTRONIC COMPONENTS**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of 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, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). 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. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60915 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This second edition cancels and replaces the first edition published in 1987 and constitutes a minor revision, related to Tables, Figures and references.

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

CDV	Report on voting
40/1654/CDV	40/1783/RVC

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 2.

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

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

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

The contents of the corrigendum of May 2007 have been included in this copy.

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IN ELECTRONIC EQUIPMENT –  
PREFERRED DIMENSIONS OF SHAFT ENDS, BUSHES AND FOR THE  
MOUNTING OF SINGLE-HOLE, BUSH-MOUNTED, SHAFT-OPERATED  
ELECTRONIC COMPONENTS**

## **1 Scope and object**

This International Standard is applicable to variable capacitors, potentiometers and variable resistors for use in electronic equipment.

The dimensions given in this standard have been selected from IEC 60390 and IEC 60620 because the ranges of dimensions included in these standards were considered too large and contained too many variants for capacitors and resistors for electronic equipment. Consequently this standard contains preferred dimensions for shaft ends and bushes and for the mounting of single-hole, bush-mounted, shaft-operated variable capacitors, variable resistors and potentiometers. If other dimensions not listed in this standard have to be used, it is recommended to select them also from the above-mentioned standards.

## **2 Normative references**

The following referenced documents are indispensable for the application 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 60390, *Dimensions of spindle ends for manually operated electronic components*

IEC 60620, *Dimensions for the mounting of single-hole, bush-mounted, spindle-operated electronic components*

## **3 Preferred dimensions of shaft ends and bushes**

All dimensions are in mm.