



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 60098:2019**  
**01-september-2019**

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**Analogni zvočni diski in oprema za reproduciranje**

Analogue audio disk records and reproducing equipment

iTeh STANDARD PREVIEW  
(standards.iteh.ai)

**Ta slovenski standard je istoveten z: prEN IEC 60098:2019**

<https://standards.iteh.ai/catalog/standards/sist/c91e4c30-2c8a-4431-9a3e-a95714d2dff7/sist-en-iec-60098-2020>

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**ICS:**

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# 100/3261/CDV

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OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING <b>Attention IEC-CENELEC parallel voting</b> The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.  The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

**Analogue audio disk records and reproducing equipment**

PROPOSED STABILITY DATE: 2025

NOTE FROM TC/SC OFFICERS:

## 1 Explanation (not to form part of the publication)

2 IEC (600)98 3rd Edition was published in 1987 and is a stabilized standard that does not  
3 undergo routine review. However, a valid proposal for a technical change has been received,  
4 which automatically revokes the stabilized status and initiates the normal maintenance  
5 procedure.

6 The current edition is not available in digital form, except as a scanned image, so it has been  
7 agreed that a full revision should be undertaken to produce a fourth, fully digitized edition,  
8 conforming to current ISO/IEC Directives and editorial rules, and fully updating the text,  
9 without unintended technical changes. Definitions have been updated to refer directly to IEV  
10 806. There are, of course, very numerous editorial changes.

11 The Figures are not yet converted to digital form. This will be done before publication.  
12 Rotation speed has been excluded from the Figure titles because it is not relevant to the  
13 dimensions.

14 The definition of 'rated value' has been aligned with the IEV. [There is a historical reason for  
15 the former unique definition, which no longer applies.]

16 The lists of test records that were in in Annexes A, C and D in the previous edition, are out  
17 of-date and are not included. National Committees are encouraged to submit details of such  
18 test records that are now available.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ANALOGUE AUDIO DISK RECORDS AND REPRODUCING EQUIPMENT**

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**FOREWORD**

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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 60098 has been prepared by IEC technical committee 100: Audio, video and multimedia systems and equipment.

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This fourth edition cancels and replaces the third edition published in 1987. This edition constitutes a full revision.

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197

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

198

– addition of a tolerance on groove width

199

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

FDIS	Report on voting
100/XX/FDIS	100/XX/RVD

200

201

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.

202

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



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

- 206 • reconfirmed,
- 207 • withdrawn,
- 208 • replaced by a revised edition, or
- 209 • amended.

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

The National Committees are requested to note that for this document the stability date is 2022

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ANALOGUE AUDIO DISK RECORDS AND REPRODUCING EQUIPMENT****1 Scope**

215 This standard applies to analogue audio disk records and the corresponding  
216 professional and domestic reproducing equipment. It excludes amplifiers and  
217 loudspeakers, methods of measurement for which can be found in IEC 60268-3, IEC 60268-  
218 5, IEC 60268-21 and IEC 60268-22 (in preparation) respectively.

219 This standard specifies the characteristics which are necessary to ensure compatibility  
220 between analogue audio disk records and the corresponding reproducing equipment.

221 It also lists and defines the most important characteristics affecting the performance of  
222 reproducing equipment, and establishes agreed methods of measurement for these  
223 characteristics

**2 Normative references**

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

229 IEC 60050-806:1996 *Recording and reproduction of sound and video.*

230 IEC 60263:1982 (under revision) *Scales and sizes for plotting frequency characteristics and*  
231 *polar diagrams.*

232 IEC 60386:1972 *Method of measurement of speed fluctuations in sound recording and*  
233 *reproducing equipment.*

234 IEC 60417[online database] *Graphical symbols for use on equipment [viewed 2018-07-23].*  
235 *Available at <http://www.graphical-symbols.info/>*

236 IEC 61672-1:2013 *Sound level meters - Part 1: Specifications*

237 IEC 62368-1:2018 *Audio/video, information and communication technology equipment - Part 1:*  
238 *Safety requirements*

**3 Terms and definitions**

240 For the purposes of this document, the terms and definitions given in IEC 60050-806 and the following  
241 apply. ISO and IEC maintain terminological databases for use in standardization at the  
242 following addresses:

243 • ISO Online browsing platform: available at <https://www.iso.org/obp>

244 • IEC Electropedia: available at <http://www.electropedia.org/>

**3.1****rated value**

247 value of a quantity used for specification purposes, established for a specified set of operating  
248 conditions of a component, device, equipment, or system

249 [Source: IEC 151-16-08]

250 Note 1 to entry The rated value is normally the value stated by the manufacturer.

**3.2****nominal value**

253 value of a quantity used to designate and identify a component, device, equipment, or system

254 Note 1 to entry – The nominal value is generally a rounded value.

255 [Source IEC 151-16-09]

256 **4 General**257 **4.1 Scales for graphical presentation of data**

258 Linear or logarithmic scales are recommended for graphical presentation. Linear decibel  
 259 scales are equivalent to logarithmic scales. Other kinds of scale, such as double  
 260 logarithmic, should be avoided. When using decibel scales, the zero reference should, if  
 261 possible, be the rated value. In those cases, where each of the scales refers directly to  
 262 physical units, it is recommended to avoid a combination of linear and logarithmic scales.

263 Where quantities represented by the axes are of the same kind, it is recommended that the same  
 264 unit length be used for both.

265 Linear scales with remote zero point should be avoided as far as possible. For further  
 266 information see IEC 60263.

267 **4.2 Scales for frequency characteristics**

268 Graphs should be drawn with frequency in Hz on the x-axis with a logarithmic scale, and the  
 269 level expressed in dB on the y-axis with a linear scale. The scale ratio should be such that  
 270 the length representing one decade of frequency is the same as the length representing  
 271 25 dB or 50 dB difference in level. The preferred length per decade is 50 mm. If the  
 272 size of the graph is changed, the scale ratio should be left unaltered.

273 **5 The disk**274 **5.1 Types of disk record**

275 The types of disk record given in Table 1 shall be standard.

276

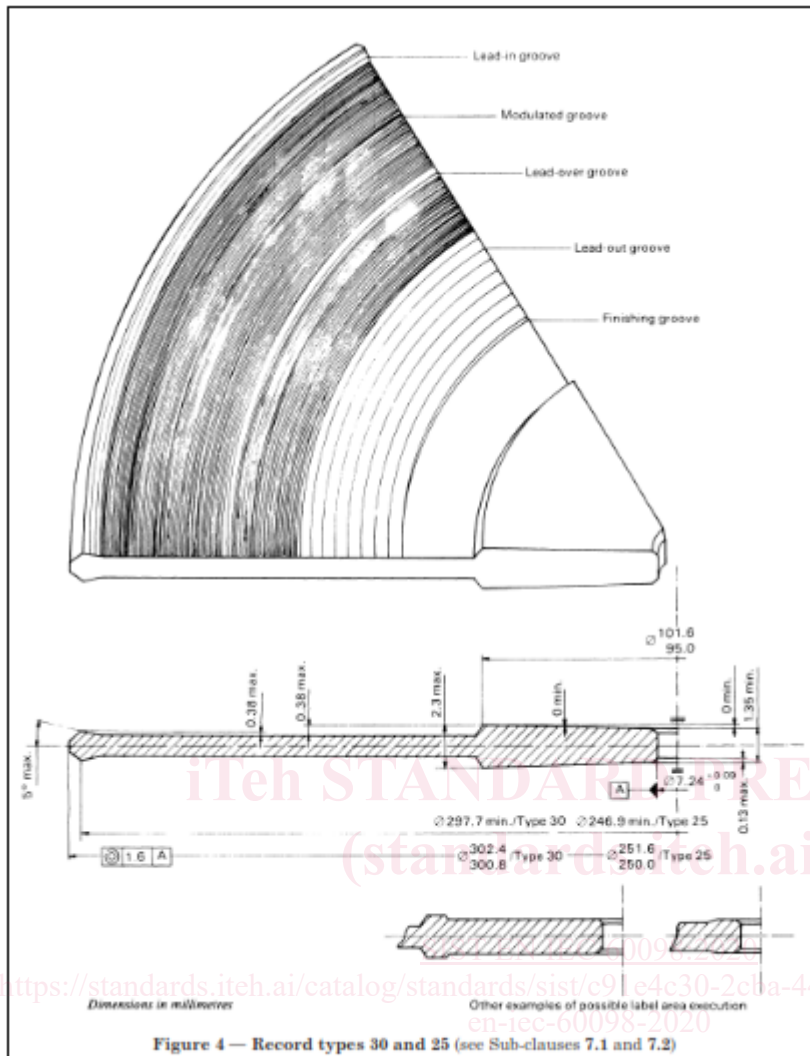
(Table 1 Standard types of disk)

Type designation	Nominal diameter (cm)	Nominal speed (rev/min)
3033	30	33 $\frac{1}{3}$
2533	25	33 $\frac{1}{3}$
1733	17	33 $\frac{1}{3}$
3045	30	45
2545	25	45
1745	17	45

277

278 **5.2 Dimensions of disk**

279 The dimensions for types 30xx and 25xx are shown in Figure 1.



280

281

**Figure 1 Dimensions for record types 30xx and 25xx**

282 The dimensions for type 17xx are shown in Figure 2.