

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard
Rotating electrical machines –Part 9: Noise limits
(First Revision)

(ICS 29.160.01)

Rotating Machinery Sectional
Committee, ETD 15

Last date for comments-09/08/2024

NATIONAL FOREWORD

This Draft Indian Standard which is identical with IEC 60034-9:2021 ‘Rotating electrical machines – Part 9: Noise limits’ Issued By The International Electrotechnical Commission (IEC) is proposed to be adopted by the Bureau of Indian Standards on the recommendation of the Rotating Machinery Sectional Committee and approval of the Electrotechnical Division Council.

This standard was originally published in 1987. This revision has been undertaken to align the standard with the latest version of IEC 60034-9:2021.

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60034-1: 2022, Rotating electrical machines – Part 1: Rating and performance	IS 15999 (Part 1) : 2021/ IEC 60034-1: 2017 Rotating electrical machines - Part 1 : Rating and performance (Under Revision with latest Identical IEC)	Identical
IEC 60034-5, Rotating electrical machines – Part 5: Degrees of protection provided by the	IS/IEC 60034-5 : 2000 Rotating electrical machines: Part 5 degrees of protection provided by the integral design of rotating electrical machines (IP Code) - Classification	Identical

integral design of rotating electrical machines (IP code) – Classification	(<i>Second Revision</i>)	
IEC 60034-6, Rotating electrical machines – Part 6: Methods of cooling (IC Code)	IS 6362 : 1995/ IEC 60034-6: 1991 Designation of methods of cooling of rotating electrical machines (<i>First Revision</i>)	Identical
ISO 4871, Acoustics – Declaration and verification of noise emission values of machinery and equipment	IS/ISO 4871 : 1996 Acoustics - Declaration and Verification of Noise Emission Values of Machinery and Equipment	Identical

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
ISO 3741	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Precision methods for reverberation test rooms
ISO 3743-1	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for small, movable sources in reverberant fields – Part 1: Comparison method for a hard-walled test room
ISO 3743-2	Acoustics – Determination of sound power levels of noise sources using sound pressure – Engineering methods for small, movable sources in reverberant fields – Part 2: Methods for special reverberation test rooms
ISO 3744	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane
ISO 3745	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Precision methods for anechoic rooms and hemi-anechoic rooms
ISO 3746	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Survey method using an enveloping measurement surface over a reflecting plane
ISO 3747	Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering/survey methods for use in situ in a reverberant environment
ISO 9614-1	Acoustics – Determination of sound power levels of noise sources using sound intensity – Part 1: Measurement at discrete points
ISO 9614-2	Acoustics – Determination of sound power levels of noise sources using sound intensity – Part 2: Measurement by scanning

Only English language text has been retained while adopting it in this Indian Standard, and as such the page numbers given here are not the same as in the International Standard.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places

retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 60034-9:2021 or kindly contact:

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