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British Standard

General requirements for rotating electrical machines

Part 142. Specification for mechanical performance: vibration

Règles générales pour les machines électriques tournantes
Partie 142. Vibrations mécaniques — Spécifications

Allgemeine Anforderungen an umlaufende elektrische Maschinen
Teil 142. Verhalten der Maschinen bei Ansprachung durch Schwingungen

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Foreword

This Part of BS 4999 has been prepared under the direction of the Power Electrical Engineering Standards Committee and supersedes BS 4999 : Part 50 : 1978, which is withdrawn.

This Part has been issued to implement the decision to renumber all the Parts of BS 4999 to bring the Part numbers more into line with those of IEC Publication 34.

In addition to the renumbering of the Part, the inclusion of the Part number in the point numbering system, adopted in Part 50, has been abandoned. No technical changes have been made to the text of BS 4999 : Part 50 : 1978.

Section one of this Part implements the CENELEC* Harmonization Document HD 347. It has been agreed within CENELEC that the method of balancing for rotating

electrical machines up to 400 mm shaft centre height be in accordance with ISO 2373-1974 published by the International Organization for Standardization (ISO) and that the recommended maximum limits of vibration severity given for guidance in the annex to that ISO standard be a requirement in national standards implementing the CENELEC Harmonization Document.

The text of clauses 1, 3, 4, 5, 6 and 8 therefore reproduce the text of the ISO standard with the editorial alterations necessary to align with the CENELEC Harmonization Document. Clause 7 does not align with the CENELEC Harmonization Document but specifies the key convention required by IEC 34-14.

Compliance with a British Standard does not of itself confer immunity from legal obligations.



*European Committee for Electrotechnical Standardization.