

Rotating electrical machines of particular types or for particular applications

Part 16. Rotating electrical machines with type of protection 'N'

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PEL/2, Rotating electrical machinery, upon which the following bodies were represented:

- Association of Consulting Engineers
- Association of Electrical Machinery Trades
- Association of Manufacturers of Power Generating Systems
- ERA Technology Ltd.
- Electricity Association
- Health and Safety Executive
- Institution of Incorporated Executive Engineers
- Institution of Plant Engineers
- Ministry of Defence
- Power Generation Contractors Association (PGCA (BEAMA Ltd.))
- Rotating Electrical Machines Association (BEAMA Ltd.)
- United Kingdom Offshore Operators Association

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Foreword

This Part of BS 5000 has been prepared by Technical Committee PEL/2. It supersedes BS 5000 : Part 16 : 1985 which is withdrawn. It applies to rotating electrical machines up to and including 15 kV.

This Part of BS 5000 sets out minimum requirements for rotating electrical machines with type of protection 'N', i.e. non-sparking rotating electrical machines with surface temperature limitations for use in hazardous areas designated zone 2 as defined in BS 5345 : Part 1.

This edition introduces technical changes but it does not reflect a full review or revision of the standard, which will be undertaken in due course. The additional technical change now incorporated principally relates to raising the upper voltage of low voltage machines from 660 V to 690 V.

At present there is no corresponding international standard. International work has been completed on document IEC 79-15 : 1987 *Electrical apparatus for explosive gas atmospheres Part 15: Electrical apparatus with type of protection 'N'*, but this only has the status of a report.

Certification. Attention is drawn to the Health and Safety at Work, etc. Act 1974 [1], the Factories Act 1961 [2], the Mines and Quarries Act 1954 [3], the Regulations made under these Acts, and also any other appropriate statutory requirements or Byelaws. These place responsibility for complying with specific safety requirements on the manufacturer and the user. Further information relating to the requirements for certification of apparatus used in applications other than Group I (mining) or explosive processing and manufacture, is provided in BS 5345 : Part 1. BS 5345 : Part 7 is the appropriate standard for the installation and maintenance of type 'N' apparatus.

Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing product surveillance which may be coupled with assessment of a supplier's quality systems against the appropriate standard in the BS EN ISO 9000 series.

Enquiries as to the availability of third party certification schemes are forwarded by BSI to the Association of British Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

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

Summary of pages

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