

INTERNATIONAL STANDARD

**Rotating electrical machines –
Part 5: Degrees of protection provided by the integral design of rotating
electrical machines (IP code) – Classification**





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Figure 9 – Test set-up for determining the protection against high-pressure/steam-jet cleaning – degree of protection against ingress of water IP X9 for small enclosures 23

Table 1 – Test requirements for guards..... 8

Table 2 – Degrees of protection indicated by the first characteristic numeral 9

Table 3 – Degrees of protection indicated by the second characteristic numeral 10

Table 4 – Test and acceptance conditions for first characteristic numeral 12

Table 5 – Test conditions for second characteristic numeral 16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES –

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International Standard IEC 60034-5 has been prepared by IEC technical committee 2: Rotating machinery.

This fifth edition cancels and replaces the fourth edition, published in 2000, and its Amendment 1:2006. This edition constitutes a technical revision.

The main technical changes with respect to the previous edition are:

- the inclusion of an additional second numeral 9 including its test method,
- an additional note for clarification in Table 3,
- a clarification on the term open drain hole,
- a clarification on the ingress of dust in Table 4,
- pressure values given now in Pa only,
- a clarification in the scope on the applicability of this standard for (Ex) motors,
- a new Clause 3 with definitions,

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

CDV	Report on voting
2/1960/CDV	2/1972A/RVC

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.

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

A list of all parts in the IEC 60034 series, published under the general title *Rotating electrical machines*, can be found on the IEC website.

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