

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Rotating electrical machines –
Part 12: Starting performance of single-speed three-phase cage induction
motors**

**Machines électriques tournantes –
Partie 12: Caractéristiques de démarrage des moteurs triphasés à induction à
cage à une seule vitesse**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES –

**Part 12: Starting performance of single-speed
three-phase cage induction motors**

FOREWORD

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International Standard IEC 60034-12 has been prepared by IEC technical committee 2: Rotating machinery.

This third edition cancels and replaces the second edition, published in 2002, and its amendment 1, published in 2007. It constitutes a technical revision.

The main technical changes with regard to the previous edition are as follows:

Clause or subclause	Change
1	Part of note 3 moved to the regular text
3	Definition of locked rotor current and of rated voltage added
5	New design letter E for extended efficiency motors, explanation of all design letters, and description of new designs NE, NEY, HE, and HEY
6.2 and 9.2	Limits for locked rotor apparent power for E(Ex)e motors replaced by a reference to IEC 60079-7 Formula added to calculate locked rotor current from apparent power
7 and 10	Definition of new limits for locked rotor apparent power for extended efficiency motors (new table 3)
Tables	Tables 1 and 4 to 7 extended down to $P_N = 120$ W Name of type of protection updated according to IEC 60079-7 Ed. 5

The text of this standard is based on the following documents:

CDV	Report on voting
2/1789/CDV	2/1821A/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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

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