Title (en)

ELECTRIC INDUCTION MACHINE

Title (de)

ELEKTRISCHE DREHFELDMASCHINE

Title (fr)

MACHINE ELECTRIQUE A INDUCTION

Publication

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Application

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Abstract (en)

[origin: WO2006097196A1] The invention relates to an electric induction machine having a stator that is impinged upon by an electromagnetic rotating field. Said stator comprises a yoke with stator teeth having at least partially circumferential grooves in which cools are disposed which generate a magnetic field, and a rotor. Said rotor can be rotated about an axis, and comprises permanent magnets and is separated from the stator by an air gap. The rotor is fixed to a pulley and the stator teeth in the stator are combined to modules the number of which corresponds to the current phases or to the integer multiples thereof. Every module comprises a number of at least one stator tooth. Directly adjacent stator teeth of a module have an opposite polarity of the magnetic field at an optional ratio of pole pitch of the rotor to tooth pitch of the stator of 9/8. The inventive design allows to provide an especially flat electric drive, especially for an elevator drive, which has an increased power density while having a considerably reduced torque ripple.

IPC 8 full level

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CPC (source: EP US)

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