

Title (en)

ELECTRICAL MACHINE STATOR PROVIDED WITH INSULATING SHEETS OF OPTIMIZED LENGTH OF WIRES CONNECTED TO THE COILS, AND CORRESPONDING ELECTRICAL MACHINE

Title (de)

STATOR EINER ELEKTRISCHEN MASCHINE MIT ISOLIERFOLIEN MIT OPTIMIERTE LÄNGE VON MIT DEN SPULEN VERBUNDENEN DRÄHTEN UND ENTSPRECHENDE ELEKTRISCHE MASCHINE

Title (fr)

STATOR DE MACHINE ELECTRIQUE MUNI DE GAINES D'ISOLATION DES FILS RELIES AUX BOBINES AYANT UNE LONGUEUR OPTIMISEE ET MACHINE ELECTRIQUE CORRESPONDANTE

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Application

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Abstract (en)

[origin: WO2014174201A2] The invention relates mainly to a stator (10) for a multiphase rotary electric machine comprising a set of coils wound around teeth of the stator, each one having an input and an output comprising one single or several parallel wires. The input is intended to be interconnected with other inputs to form the neutral point of the machine and the output is intended to be interconnected with other outputs to form one of the phases (U, V, W) of the machine. Each phase is associated with a bundle of wires (FU), this bundle (FU) being divided into two bundle portions (FU1, FU2), these two bundle portions running around part of the circumference of the stator (10) in two opposite directions in order to connect the outputs of the coils that make up one and the same phase. The stator also comprises a set of insulating sheets (40) protecting the wires of each bundle portion (FU1, FU2). According to the invention, each bundle (FU) is divided in a dividing zone (SU) situated near a connection of one or more bundles of wires (FU) with an output (U3) of one of the coils belonging to the phase corresponding to said bundle, so that the insulating sheets (40) extend around the circumference of the stator (10) from the dividing zone (SU) to an output (U2, U4) of a next coil of a phase or between the outputs of two successive coils (28) of said phase all have substantially the same length as one another.

IPC 8 full level

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