

Title (en)
ROTATING ELECTRICAL MACHINE WITH OPTIMISED ARRANGEMENT

Title (de)
ELEKTRISCHE DREHMASCHINE MIT VERBESSERTER ANORDNUNG

Title (fr)
MACHINE ÉLECTRIQUE TOURNANTE À CONFIGURATION OPTIMISÉE

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EP 3602755 A1 20200205 (FR)

Application
EP 18712219 A 20180322

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Abstract (en)
[origin: WO2018177896A1] The invention relates mainly to a rotating electrical machine of a motor vehicle, comprising a rotor (12) having an axis (X) comprising at least one permanent magnet (20) and a stator (11) surrounding the rotor and comprising a body (24) provided with a plurality of slots (30) and an electrical winding (25), the winding comprising phase windings (26) arranged in the slots, each phase winding being formed by at least one conductor (35). The rotor (12) comprises 3, 4 or 5 pairs of poles. The stator comprises two three-phase systems, each formed by three delta connected phase windings (26). The number of conductors (35) per slot (30) is strictly greater than 2 and each conductor has an active portion (40) inserted in a corresponding slot (30), the active portion with a substantially rectangular section being of a radial length (L2) smaller than or equal to 3.6 mm.

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