

Title (en)
ROTARY ELECTRIC MACHINE WITH SHRINK-FITTED BEARING

Title (de)
ROTIERENDE ELEKTRISCHE MASCHINE MIT SCHRUMPFLAGER

Title (fr)
MACHINE ÉLECTRIQUE TOURNANTE À PALIER FRETTÉ

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Application
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Abstract (en)
[origin: WO2018197640A1] The invention relates mainly to a rotary electric machine for a motor vehicle. The machine (10) comprises a shaft (13); a rotor (12); a stator (16) comprising a body (25) provided with slots, and a winding (26) inserted into the slots; a first bearing (37) and a second bearing (38) surrounding an assembly formed by the rotor and the stator and each comprising a housing (40, 44) for rotatably mounting the rotor shaft (13). The first bearing comprises a transverse flange (371) and a cylindrical wall (372) of axial orientation derived from an outer periphery of said flange. The second bearing comprises a transverse flange (48) closing the first bearing and at least one rim (63) projecting from the flange and forming a junction area (64) where it joins the first bearing. Furthermore, the stator body has a region (Z1) of shrink-fitting to the cylindrical wall.

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