

Title (en)

ELECTRICAL MACHINE HAVING AN INTEGRATED TEMPERATURE SENSOR AND ROTOR CONDITION CAPTURE SENSOR

Title (de)

ELEKTRISCHE MASCHINE MIT INTEGRIERTEM TEMPERATURSENSOR UND ROTORZUSTANDSERFASSUNGSSENSOR

Title (fr)

MACHINE ÉLECTRIQUE À CAPTEUR DE TEMPÉRATURE INTÉGRÉ ET CAPTEUR D'ÉTAT DE ROTOR

Publication

**EP 3881416 A1 20210922 (DE)**

Application

**EP 19804625 A 20191104**

Priority

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Abstract (en)

[origin: WO2020098871A1] The invention relates to an electrical machine (1) for a drive of a motor vehicle, having a stator (2), a rotor (3) which can be rotated relative to the stator (2), a temperature sensor (4) arranged and designed to capture a temperature of the stator (2), and a rotor condition capture sensor (5) which is arranged and designed to capture a rotational speed and/or rotational position of the rotor (3) and is accommodated in a stator-fixed manner, wherein the temperature sensor (4) and the rotor condition capture sensor (5) are implemented as subsystems (6, 7) of a common sensor system (8), wherein a first subsystem (6) having the temperature sensor (4) has an elastic thermally conductive contact element (9) connected to the temperature sensor (4), which contact element (9) is permanently fitted to a contact region (10) of the stator (2). The invention also relates to a hybrid module (20) having this electrical machine (1).

IPC 8 full level

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CPC (source: EP US)

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