

Title (en)

METHOD FOR DETECTING A DEFECTIVE COOLING FAN AND FOR GENERATING AN ALARM SIGNAL

Title (de)

VERFAHREN ZUR ERKENNUNG EINES DEFEKTEN LÜFTERS UND ZUR ERZEUGUNG EINES ALARMSIGNALS

Title (fr)

PROCEDE PERMETTANT DE DETECTER LA DEFAILLANCE D'UNE SOUFFLANTE ET DE PRODUIRE UN SIGNAL D'ALARME

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Application

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Abstract (en)

[origin: WO03055030A1] The invention relates to a method for generating an alarm signal in a motor which comprises a rotor (50) whose effective operating speed is in a standard zone (nSoll, TSoll) and can deviate from said standard zone if defective, and is to be monitored for such a defective state. At least one alarm trigger speed (nAOn, TAOOn) and at least one alarm switch-off speed (nAOOff, TAOOff) are determined, the latter being closer to the standard zone than the first. A hysteresis zone is defined between an associated pair of alarm trigger speed and alarm switch-off speed. If the speed to be monitored, starting from the hysteresis zone, approaches the alarm trigger speed, an alarm trigger criterion (Flag_DIR=0) is generated (Fig. 13: S178). The duration of said alarm trigger criterion is monitored (Fig. 13: S184, 192). When the duration reaches a predetermined value (tdOn), an alarm signal (ALARM) is activated (Fig. 13: S186, 194). The invention also relates to a corresponding motor.

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