

Title (en)

METHOD AND DEVICE FOR DETECTING THE FAILURE OF AN EXCITATION CIRCUIT OF A POLYPHASE ALTERNATOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG EINES DEFEKTES BEI EINER ERREGERSCHALTUNG EINES MEHRPHASENGENERATORS

Title (fr)

PROCEDE ET DISPOSITIF DE DETECTION DE LA DEFAILLANCE DU CIRCUIT D'EXCITATION D'UN ALTERNATEUR POLYPHASE

Publication

**EP 2102670 A1 20090923 (FR)**

Application

**EP 07858741 A 20071127**

Priority

- FR 2007052403 W 20071127
- FR 0655667 A 20061220

Abstract (en)

[origin: WO2008074952A1] The method of detecting the failure of the excitation circuit of a polyphase alternator controlled by a regulator comprises the following steps: a) electrical information (lexc) is continuously taken from the excitation circuit (1); b) the electrical information taken in step a) is continuously compared with a predetermined threshold value (Iref); c) a logic state (LT) is continuously determined according to the result of the comparison made in step b); and d) if the logic state (LT) determined in step c) persists for a time at least equal to a predetermined delay time (6), an electrical continuity fault of said excitation circuit is signalled. This method is particularly suitable for machines having a rotor equipped with permanent magnets or having a high remanence of the magnetic circuit of the rotor.

IPC 8 full level

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