

Title (en)

METHOD FOR DETERMINING THE MAGNET TEMPERATURE IN SYNCHRONOUS MACHINES

Title (de)

VERFAHREN ZUM BESTIMMEN DER MAGNETTEMPERATUR BEI SYNCHRONMASCHINEN

Title (fr)

PROCEDE POUR DETERMINER LA TEMPERATURE DE L' AIMANT SUR DES MACHINES SYNCHRONES

Publication

**EP 1969714 A1 20080917 (DE)**

Application

**EP 06830681 A 20061218**

Priority

- EP 2006069841 W 20061218
- DE 102005062588 A 20051227

Abstract (en)

[origin: DE102005062588A1] The method involves measuring the phase voltage (U ind) and the rotational speed (n) of a permanently excited electrical machine e.g. synchronous machine (1), and determining a magnet temperature of the electrical machine from the measured phase voltage and the rotational speed of the electrical machine. The phase voltage is measured in the no-load operation of the machine, where the peak value of the phase voltage is determined. The phase current of the electrical machine is limited when the magnet temperature exceeds a predetermined threshold value. An independent claim is also included for a device for determining the magnet temperature of a permanently excited electrical machine.

IPC 8 full level

**H02P 29/02** (2006.01)

CPC (source: EP US)

**G01K 7/42** (2013.01 - EP); **G01K 13/08** (2013.01 - EP); **H02P 29/0241** (2016.02 - EP US); **B60L 2240/36** (2013.01 - EP US); **G01K 2205/00** (2013.01 - EP); **G01K 2217/00** (2013.01 - EP); **G01R 31/343** (2013.01 - EP US); **Y02T 10/64** (2013.01 - EP US)

Citation (search report)

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