

Title (en)

METHOD AND CIRCUIT ARRANGEMENT FOR DETERMINING THE ROTOR POSITION OF AN EC MOTOR IN THE STANDSTILL STATE

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG ZUR BESTIMMUNG DER ROTORLAGE EINES EC-MOTORS IM STILLSTAND

Title (fr)

PROCEDE ET CIRCUIT DE DETERMINATION DE LA POSITION DU ROTOR D'UN MOTEUR A COMMUTATION ELECTRONIQUE A L'ARRET

Publication

**EP 1982409 A1 20081022 (DE)**

Application

**EP 06819854 A 20061130**

Priority

- EP 2006069086 W 20061130
- DE 102006004166 A 20060130

Abstract (en)

[origin: DE102006004166A1] The method involves determining two rise times of the phase currents till reaching the predetermined threshold values in an unsaturated condition and by utilizing saturation effects of the rotor (14) and stator irons. The allocation of a magnetic axis to a stator block is determined from a rise time of the currents in the unsaturated condition of the rotor iron and the polarity of the rotor is determined from another rise time of the currents during the current feed with saturation effects. An independent claim is also included for a circuit arrangement for run-up control of an external combustion engine.

IPC 8 full level

**H02P 6/18** (2006.01)

CPC (source: EP US)

**H02P 6/085** (2013.01 - EP US); **H02P 6/185** (2013.01 - EP US)

Citation (search report)

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DE FR GB

DOCDB simple family (publication)

**DE 102006004166 A1 20070802**; CN 101336510 A 20081231; CN 101336510 B 20110914; EP 1982409 A1 20081022; US 2008303516 A1 20081211; US 7893649 B2 20110222; WO 2007085312 A1 20070802

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