

Title (en)  
METHOD AND DEVICE FOR DYNAMIC POWER REGULATION OF A DRIVEN POLYPHASE SYNCHRONOUS MACHINE

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR DYNAMISCHEN LEISTUNGSREGELUNG EINER ANGETRIEBENEN MEHRPHASIGEN SYNCHRONMASCHINE

Title (fr)  
PROCEDE ET DISPOSITIF POUR LA REGULATION DE PUISSANCE DYNAMIQUE D'UNE MACHINE SYNCHROME POLYPHASEE MENEES

Publication  
**EP 1034616 A1 20000913 (DE)**

Application  
**EP 98962264 A 19981116**

Priority

- DE 9803352 W 19981116
- DE 19752940 A 19971128

Abstract (en)  
[origin: DE19752940A1] The invention relates to a method and a device for dynamic power regulation of a driven synchronous machine. According to the invention, actual load angle values (  $\delta$  ) are determined on the basis of the actual position (L1, Ls) of the synchronous machine (2) and the detected supply voltage space vector ( $\langle u \rangle$ ). Regulation occurs by rotating the stator (14) of the driven synchronous machine (2) to an actual load angle value (  $\delta^*$  ) that is determined by power regulation. This enables full regulation of the effective power hunt of a driven regulated synchronous machine (2).

IPC 1-7  
**H02P 9/10**; **H02P 9/04**

IPC 8 full level  
**H02K 5/26** (2006.01); **H02K 16/00** (2006.01); **H02P 9/04** (2006.01); **H02P 9/10** (2006.01)

CPC (source: EP)  
**H02K 5/26** (2013.01); **H02K 16/005** (2013.01); **H02P 9/04** (2013.01); **H02P 9/105** (2013.01)

Citation (search report)  
See references of WO 9929036A1

Designated contracting state (EPC)  
DE DK NL

DOCDB simple family (publication)  
**DE 19752940 A1 19990602**; **DE 19752940 C2 19991118**; EP 1034616 A1 20000913; WO 9929036 A1 19990610

DOCDB simple family (application)  
**DE 19752940 A 19971128**; DE 9803352 W 19981116; EP 98962264 A 19981116