

Title (en)
METHOD AND APPARATUS FOR TORQUE CONTROL OF A MACHINE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR DREHMOMENTREGELUNG EINER MASCHINE

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT DE CORRIGER LE COUPLE D'UNE MACHINE

Publication
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Application
EP 00959983 A 20000907

Priority
US 0024535 W 20000907

Abstract (en)
[origin: WO0220332A1] An exemplary embodiment of the invention is a method for torque control of a PM synchronous machine (105). The method includes obtaining a torque command signal (Tcmd) and a machine speed (ω_m) and determining an operating mode (112, 114) in response to the torque command signal (Tcmd) and the machine speed (ω_m). The operating mode (112, 114) includes a first operating mode (112) and a second operating mode (114). In the first operating mode (112), a stator phase voltage magnitude (V) is computed and an angle (δ DEG) between the stator phase voltage (V) and a stator phase back emf (E) is determined in response to the stator phase voltage magnitude (V). In the second operating mode (114), the stator phase voltage (V) is set to a predetermined magnitude (Vm) and the angle (δ DEG) between the stator phase voltage (V) and the stator phase back emf (E) is determined in response to the predetermined magnitude.

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CPC (source: EP)
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Citation (search report)

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- [Y] WO 9929031 A2 19990610 - KONE CORP [FI], et al
- [A] EP 0748038 A2 19961211 - KOLLMORGEN CORP [US]
- See also references of WO 0220332A1

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