Title (en)

DUAL MODE CONTROLLER FOR A BRUSHLESS DC MOTOR

Title (de)

ZWEIMODENSTEUERUNG FÜR EINEN BÜRSTENLOSEN GLEICHSTROMMOTOR

Title (fr)

UNITE DE COMMANDE BIMODE D'UN MOTEUR A COURANT CONTINU SANS BALAIS

Publication

EP 0789948 A1 19970820 (EN)

Application

EP 95936875 A 19950929

Priority

• US 9513165 W 19950929
• US 31599094 A 19940930

Abstract (en)

[origin: WO9610863A1] A dual mode controller for a brushless DC motor provides driving signals to an electronic commutator in two distinctly different modes defined by a predetermined transition speed. An encoder supplies motor position signals to the controller for use in generating the driving signals. At speeds below the transition speed the driving signals are generated in phase with the position signals. At speeds above the transition speed the phase of the driving signals is substantially advanced. This reduces the back EMF in the stator windings and substantially increases the maximum no-load speed of the motor.

IPC 1-7

H02P 6/08; H02P 6/14

IPC 8 full level

H02P 6/08 (2006.01); **H02P 6/14** (2006.01)

CPC (source: EP US)

H02P 6/08 (2013.01 - EP); **H02P 6/10** (2013.01 - US); **H02P 6/15** (2016.02 - EP); **H02P 6/181** (2013.01 - EP)

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