

ABSTRACT

A controller for a brushless DC motor without a position sensor.

The invention relates to a controller (24) for a brushless DC motor without position sensor including an inverter (22) adapted to drive the motor under chopper control (30, 31) and utilizing a counter electromotive force generated in stator coils of respective phases as a rotor is rotated in order to detect a position of the rotor and thereby to generate a commutation signal, said controller comprising a commutation timing signal generator (25) serving to gen-

erate the commutation timing signal, an output pattern mode generator (26) serving to generate output patterns of several types with which said stator coils are excited, a coincidence detector (28) adapted to detect a coincidence between these signals output from said two generators (25, 26) and a starting controller (29) adapted to stop a motor drive output once when no coincidence is detected by said coincidence detector (28) and to cause a restarting.

FIG. 3

