

Title (en)

CONTROL CARD FOR THE BRUSHLESS DIRECT CURRENT MOTOR

Title (de)

STEUERKARTE FÜR EINEN BÜRSTENLOSEN GLEICHSTROMMOTOR

Title (fr)

CARTE DE COMMANDE POUR MOTEUR À COURANT CONTINU SANS BALAIS

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Application

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Priority

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Abstract (en)

[origin: WO2011073127A1] The present invention relates to a motor control card (1) used for controlling the brushless direct current (BLDC) motors, having a three-phase inverter (3) which transforms direct current received from the AC-DC converter (2) to three phase current by means of the transistors, a sensing unit (4) that detects the rotor position, a microprocessor (5) that provides speed control of the motor (M) by generating pulse width modulation PWM signals having suitable duty cycle by means of the PI algorithm included in its software. The microprocessor (5) applies a PWM signal generated thereby by increasing the duty cycle within the commutation (X) duration wherein the current applied to the motor (M) is transferred from one phase to the other phase in the three phase inverter (3), in order to reduce torque oscillations and therefore motor noise. The brushless direct current (BLDC) motors are used in household appliances like dishwashers or washing machines.

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