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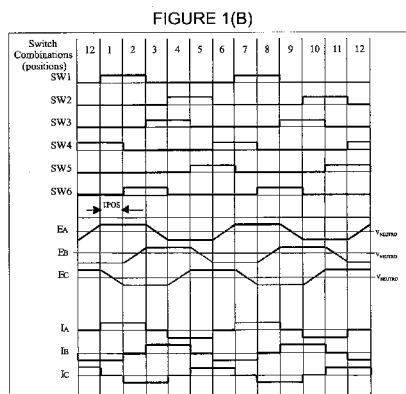
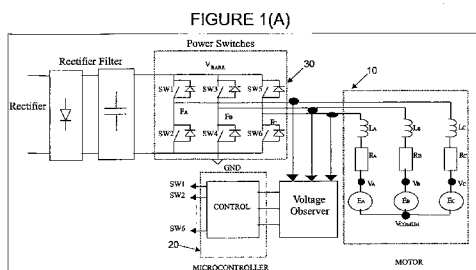
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(54) Title : ANTICIPATORY CONTROL SYSTEM FOR ELECTRIC MOTOR AND ANTICIPATORY CONTROL METHOD FOR ELECTRIC MOTOR APPLIED TO CYCLIC LOADS

(54) Título : SISTEMA DE CONTROLE ANTECIPADOR PARA MOTOR ELÉTRICO E MÉTODO DE CONTROLE ANTECIPADOR PARA MOTOR ELÉTRICO APLICADOS A CARGAS CÍCLICAS



(57) Abstract : The present invention relates to an anticipatory control system and method for electric motor applied to cyclic loads, said system having an electric motor (10), at least an electronic control unit (20), at least an electronic power unit (30), and at least an electric position-monitoring device. The electric motor (10) is electrically driven by the electronic power unit (30), the electronic power unit (30) is electrically controlled by the electronic control unit (20), the system comprises an average speed controller and a device for monitoring the position of the electric motor, both implemented by the electronic control unit (20). The speed controller is designed to monitor an average speed of the electric motor (10), the position-monitoring device is designed to monitor and store an instantaneous speed (V_i) in each position of the electric motor (10) and estimate, for each position, an instantaneous control speed (V_c) of the electric motor (10), the electronic control unit (20) is designed to calculate an average voltage (V_m) from the average speed monitored, and the electronic power unit (30) is designed to drive electrically the electric motor 10 by a control voltage value ($V_{control}$). This control voltage value is ($V_{control}$) calculated by multiplying the average voltage (V_m) by the result of the division of the instantaneous control speed (V_c) by the average speed.

(57) Resumo :

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