Title (en)

METHOD FOR POWERING A POLYPHASED ELECTRIC MOTOR WITH ELECTRONIC SWITCHING, AND SUPPLY CIRCUIT FOR IMPLEMENTING SAME

Title (de)

VERFAHREN ZUR SPEISUNG EINES MEHRPHASIGEN, ELEKTRONISCH KOMMUTIERTEN MOTORS UND SCHALTKREIS ZU SEINER ANWENDUNG

Title (fr)

PROCEDE POUR ALIMENTER UN MOTEUR ELECTRIQUE POLYPHASE A COMMUTATION ELECTRONIQUE, ET CIRCUIT D'ALIMENTATION POUR SA MISE EN OEUVRE

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Application

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Abstract (en)

[origin: FR2779587A1] The invention concerns a method for powering a polyphased electric motor with electronic switching (M) from a live power source (A), comprising a passive electrical filtering downstream of the power source (A), a conversion of the voltage supplied by the source (A) for powering the motor (M) phases, using a set of controllable switches presenting either an on-state, or an off-state, each combination of switch states defining a conversion configuration, regulating feeding current based on a current set value (Icons), and a sequence of magnetisation and demagnetisation cycles of the engine (M) initiated by set values for magnetising or demagnetising the phases. Said method further comprises, for at least a cycle sequencing period, several conversion configuration couples so that the supply average current best observes the current set value (Icons). The invention is useful for powering electrical household appliances.

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