

Title (en)

CONTROL SYSTEM AND METHOD FOR AN ELECTROMECHANICAL CONTACTOR OF A POWER CIRCUIT

Title (de)

STEUERSYSTEM UND VERFAHREN FÜR EINEN ELEKTROMECHANISCHEN SCHÜTZ EINER LEISTUNGSSCHALTUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE COMMANDE D'UN CONTACTEUR ÉLECTROMÉCANIQUE D'UN CIRCUIT ÉLECTRIQUE

Publication

EP 3806127 A1 20210414 (EN)

Application

EP 19382882 A 20191008

Priority

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Abstract (en)

Control system and method for an electromechanical contactor of a power circuit, the electromechanical contactor comprising:• a contact (1), movable between two positions: an open position and a closed position in which the contact (1) produces the connection,• a coil (2), in mechanical connection with the contact (1) and configured to drive the contact (1) between the open and the closed positions.The control system comprising a regulated power supply (3) connectable to the coil (2) and a controller (4) for varying the relationship k between the output voltage V_{OUT} and the feedback voltage V_{FBK} from at least a first relationship k_1 to a second relationship k_2 , being $k_2 < k_1$, such that, the regulated power supply (3) varies the provided output voltage V_{OUT} from a first output voltage V_{OUT1} to a second lower output voltage V_{OUT2} for reducing power consumption of the coil (2).

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

- [X] EP 1009006 A1 20000614 - SCHNEIDER ELECTRIC IND SA [FR]
- [A] EP 3147923 A1 20170329 - MITSUBISHI ELECTRIC CORP [JP]
- [A] WO 8202115 A1 19820624 - BBC BROWN BOVERI & CIE [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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