

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 B1 20230614 (EN)**

Application

**EP 19382882 A 20191008**

Priority

EP 19382882 A 20191008

Abstract (en)

[origin: EP3806127A1] 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

**H01H 47/04** (2006.01); **H01H 47/32** (2006.01)

CPC (source: CN EP)

**G05F 1/625** (2013.01 - CN); **H01H 47/04** (2013.01 - EP); **H01H 47/325** (2013.01 - EP); **H01H 2047/009** (2013.01 - EP)

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

DOCDB simple family (publication)

**EP 3806127 A1 20210414**; **EP 3806127 B1 20230614**; CN 112631362 A 20210409

DOCDB simple family (application)

**EP 19382882 A 20191008**; CN 202011071984 A 20201009