

Title (en)

Low voltage power switch and method to avoid damage to contacts

Title (de)

Niederspannungsleistungsschalter und Verfahren zum Vermeiden von Kontaktabbrand in denselben

Title (fr)

Disjoncteur de puissance à basse tension et procédé pour éviter la détérioration des contacts

Publication

EP 1677323 A1 20060705 (DE)

Application

EP 04030922 A 20041228

Priority

EP 04030922 A 20041228

Abstract (en)

The method reduces the risk of contacts burning in a lower voltage power switch having at least one controllable semiconductor device (10) and at least one electromechanical switch device (20) connected in parallel to the semiconductor device. The method involves identifying the start and/or end of a switch on/off signal for closing and/opening the switch device. The method also involves generating an oscillating control signal lasting a predetermined period of time, to repeatedly successively switch the semiconductor device on, as soon as the start/end of the switch on/of signal is recognized. Independent claims also cover the low voltage switch and the use of such a switch.

IPC 8 full level

H01H 9/54 (2006.01); **H02P 1/26** (2006.01)

CPC (source: EP)

H01H 9/542 (2013.01)

Citation (search report)

[X] EP 0926809 A1 19990630 - SCHNEIDER ELECTRIC SA [FR]

Cited by

WO2020114816A1; CN108885952A; EP3664278A1; CN113169684A; WO2017174326A1; US11456683B2; US9263880B2; US9646795B2; US11232918B2

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