

Title (en)

Method and device for control of a electromechanical relay

Title (de)

Verfahren und Einrichtung zur Steuerung eines elektromechanischen Relais

Title (fr)

Procédé et dispositif de commande pour un relais électromécanique

Publication

EP 0997921 B1 20011212 (DE)

Application

EP 99119944 A 19991011

Priority

DE 19849684 A 19981028

Abstract (en)

[origin: EP0997921A1] The control method involves driving the relay's coil (4) with an electronic drive unit (5). The AC voltage null crossings are detected, with subsequent detection of a current pulse occurring when the load is switched on. The relay coil is driven after a delay following the last null crossing, after entering a switching command to the drive unit. An estimated delay is defined for initialization and incrementing or decrementing the delay, for subsequent cycles, depending on the sign of the current pulse to switch the relay (3) closer to the null crossing time. An Independent claim is also included for an electromechanical relay.

IPC 1-7

H01H 47/04

IPC 8 full level

H01H 9/56 (2006.01); **H01H 47/04** (2006.01)

CPC (source: EP)

H01H 9/56 (2013.01); **H01H 47/02** (2013.01); **H01H 2009/566** (2013.01)

Cited by

EP1353345A3; DE102018118329B3; CN108335931A; CN105580101A; CN109686617A; EP2107585A3; EP4333010A1; US9887053B2; DE102021126011A1; US9064661B2; EP3605579A1

Designated contracting state (EPC)

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