

Title (en)

CONTROL CIRCUIT FOR AN ELECTROMAGNETIC RELAY TO INTERRUPT AN AC CIRCUIT UNDER TENSION

Publication

**EP 0200099 B1 19910911 (DE)**

Application

**EP 86105271 A 19860416**

Priority

DE 3514300 A 19850419

Abstract (en)

[origin: EP0200099A2] In a control circuit for a relay for switching an AC load, the zero transition of the AC voltage is sampled and is used to control the relay at a predetermined response time before the next zero transition. In this case, the relay is connected via a timer (R1, C1) to a supply voltage (UN) which is significantly greater than the rated voltage of the relay, such that when the semi conductor switch is switched on, a voltage surge initially occurs on the relay winding which reduces the range of variation of the response time to a minimum level. In this way, the load circuit can be switched on and off fairly precisely in the vicinity of the zero transition. <IMAGE>

IPC 1-7

**H01H 9/56**

IPC 8 full level

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

CPC (source: EP)

**H01H 9/56** (2013.01); **H01H 47/043** (2013.01)

Citation (examination)

EP 0108538 A1 19840516 - HAWKER SIDDELEY REVENUE CONTR [GB]

Cited by

DE3739811A1; EP0818241A1; DE102005051762A1; DE4231242A1; WO2013189517A1

Designated contracting state (EPC)

AT CH DE FR LI NL

DOCDB simple family (publication)

**EP 0200099 A2 19861105; EP 0200099 A3 19890517; EP 0200099 B1 19910911**; AT E67341 T1 19910915; DE 3681326 D1 19911017

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