

Title (en)
ELECTRONIC DEVICE FOR THE ENERGIZATION OF AN ELECTROMAGNETIC ELEMENT

Publication
EP 0067185 B1 19850904 (DE)

Application
EP 82900090 A 19811216

Priority
DE 3047488 A 19801217

Abstract (en)
[origin: WO8202115A1] Electronic device for the energization of an electromagnetic element, particularly a stroke-coil or a coil of an electromagnetic switching apparatus having a magnetic circuit with a coil, a yoke and an armature. A comparator (5) receives a predetermined current order value $U(I_{\text{oll}}?)$ and an actual measured current value $U(I_{\text{ist}}?)$. When the actual value goes down below the order value, the comparator (5) actuates, through a monostable flip flop element (6), a switching transistor (1) supplied by a supply voltage $U_v?$, arranged in the main current circuit of the electromagnetic element (2). After the constant conduction duration $t_{\text{ein}}?$ has elapsed, it blocks the transistor (1). With a variable conduction duration $t_{\text{ein}}?$ of the switching transistor (1), there results a variation of the current order value, function of the set conduction duration. In order to obtain a reliable operating mode of an electromagnetic switching apparatus comprising a coil, there is established a high actuation current order value and, after operation of the switching apparatus, a reduced maintaining current order value. For the operation of different switching states of the switching apparatus, the coil inductivity is taken into account.

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CPC (source: EP)
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DE3615908A1; DE3908192A1

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BE FR

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WO 8202115 A1 19820624; AT 384119 B 19871012; AT A908981 A 19870215; CH 659345 A5 19870115; DE 3047488 A1 19820722; DE 3152626 C1 19930429; DE 3152626 D2 19830811; EP 0067185 A1 19821222; EP 0067185 B1 19850904; GB 2105132 A 19830316; NL 8120487 A 19821101; SE 439400 B 19850610; SE 8204712 D0 19820816; SE 8204712 L 19820816

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