

Title (en)
ELECTRONIC CIRCUIT FOR A RELAY WITH A DETERMINABLE TIME-RATING

Publication
EP 0019651 B1 19831207 (DE)

Application
EP 79101750 A 19790601

Priority
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Abstract (en)
[origin: EP0019651A1] 1. Electric circuit arrangement for a relay with time behaviour determinable by the actuation of a switch, comprising a timing pulse generator (210), a divider chain (7), astable and/or monostable and/or bistable trigger stages, logic linkage members and an output circuit for the actuation of the relay, characterised in that the output of at least one stage of the divider chain (7) controlled by the timing pulse generator (210), preferably through a divider preliminary stage (211), acts upon a bistable trigger stage (1) pertaining to a FLIP-FLOP function chain, the output signal (43) of which trigger stage, together with a control signal ("1", "2" or "3") delivered by the switch, lies on leads (11, 12, 13) in the input circuit through a linkage member chain assembled from some of the logic linkage members, possibly with inclusion of OR-members (42), Negation members (39, 44), NOR-members (46, 52), at the entry of the output circuit (41, 55), while the control signal ("1", "2" or "3"), possibly together with a RESET-signal (236a, 240a), lies on at least one of three terminals (14a, 14b, 14c) of the leads (11, 12, 13) of the input circuit, of which (a) the first terminal (14b) lies through a first condition combination (BK1), consisting of a first (9) and a second (8) OR-member connected in series with one of its inputs in each case, (b) the second terminal (14a) lies through a second condition combination (BK2), consisting of the first condition combination (BK1) and a NOR-member (10) connected in series before this at a second input of the first OR-member (9) (c) and the third terminal (14c) lies through a third condition combination (BK3), consisting of monostable trigger stage (15) (MONO-FLIP-FLOP), Negation members (17), NOR-members (19) and bistable trigger stage (FLIP-FLOP) (23), on the reset input (5) of the divider chain (7), while the output signals of the linkage member chains act with bistable trigger stages (for example 37 "FF4 ", 116 "FF2 ", 23 "FF3 ") or NOR-member (for example 46) each upon a further input of the NOR-member (10) of the second condition combination (BK2).

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