

Title (en)
SWITCHING ARRANGEMENT AND METHOD FOR CONTROLLING AN ELECTROMAGNETIC RELAY

Title (de)
SCHALTANORDNUNG UND VERFAHREN ZUM ANSTEUERN EINES ELEKTROMAGNETISCHEN RELAIS

Title (fr)
DISPOSITIF DE COMMUTATION ET PROCÉDÉ DE CONTRÔLE D'UN RELAIS ÉLECTROMAGNÉTIQUE

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Abstract (en)
[origin: WO2009062536A1] The invention relates to a switching arrangement for controlling an electromagnetic relay comprising a relay coil (11) and relay contacts, two switching devices (12a, 12b) being arranged in a current path (10) with the relay coil (11). A control device (13) is provided and set up in such a way as to close the two switching devices (12a, 12b) in order to generate a current flow through the relay coil (11), and to open the two switching devices (12a, 12b) in order to interrupt a current flow through the relay coil (11). The aim of the invention is to provide a circuit arrangement and an above-mentioned method. In order to design such a circuit arrangement in such a way that an anticipatory check of the relay coil (11) and the two switching devices (12a, 12b) for errors is enabled, the control device (13) is designed to send test signals (P_A, P_B) to the first and the second switching devices (12a, 12b). A conversion device (15) is subjected to a measuring voltage (U mess) which is converted into a binary response signal (BS). An error in the relay coil (11) or one of the switching devices (12a, 12b) is displayed when the course of the binary response signal (BS) deviates from an expected course. The invention also relates to a corresponding method for controlling an electromagnetic relay.

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