

ABSTRACT

POWER SUPPLY CIRCUIT OF AN EXCITATION COIL OF AN ELECTROMAGNET

Power supply circuit in direct current or rectified alternating current of a coil of an electromagnet equipped with at least one principal winding (B1) and a secondary winding (B2), characterized in that it comprises switching means (10) of a first controlled conductivity semiconductor element (T2) capable of providing or blocking the supply of the secondary winding (B2), and in that said means (10) are arranged between the principal winding (B1) and the command of the semiconductor element (T2) and comprise a second semiconductor element (T1) and a voltage adaptation circuit (11) which is connected to the principal winding (B1) and to the command of the second semiconductor element (T1), the latter being connected to the first semiconductor element (T2) in order to block this said semiconductor element (T2) when the voltage between the command and the output of the second semiconductor element (T1) reaches a threshold voltage (V_s) greater than a value (V_1) corresponding to the start of the closing of the electromagnet.

Fig. 1