

Title (en)

PHASE CHOPPING CONTROL FOR OPERATING A RESISTIVE CHARGE CONNECTED TO AN AC NETWORK

Publication

EP 0224227 B1 19890503 (DE)

Application

EP 86116222 A 19861122

Priority

DE 3541771 A 19851126

Abstract (en)

[origin: EP0224227A2] 1. A phase-chopping control unit for the operation of a resistive load connected to an a.c. mains voltage, comprising a triac (Tr) connected in series with the resistive load (Ro), an RC element connected in parallel to the triac (Tr), and consisting of a capacitor (C) and a resistance chain (R) formed by at least two series-connected resistors (R1, R2), and a diac (DT) connected between the junction point of the capacitor (C) to the resistance chain (R), and to the grid of the triac (Tr), characterized in that the timer which is formed by the capacitor (C) and the adjacent resistor (R1) is connected in parallel to a compensating element (K) which has a voltage characteristic which is opposed to that of the capacitor (C) of the timer, where the compensating element (K) is directly connected to the a.c. mains voltage via a series-connected circuit (Z) which determines the impedance.

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H02M 5/257; H05B 39/08

IPC 8 full level

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