

Title (en)

Electronic command circuit for an automotive engine starter

Title (de)

Elektronische Schaltung zur Steuerung eines Startermotors

Title (fr)

Circuit de commande électronique d'un démarreur de véhicule automobile

Publication

EP 1316722 B1 20070404 (FR)

Application

EP 02292919 A 20021126

Priority

FR 0115555 A 20011130

Abstract (en)

[origin: EP1316722A1] The vehicle starter motor control circuit includes an electromagnetic contactor (CT) whose coil (L) is controlled by power transistors (T1, T2). The power stage (10) includes a diode (D1) which prevents the flow of current in the reverse direction, in the event of the inversion of polarity of the battery. <??>The electronic control circuit for a vehicle starter motor comprises an electromagnetic contactor (CT) whose coil (L) is excited via an electronic switch with power transistors (T1, T2). A management unit (G) co-operates with the electronic switch in order to control the excitation current through the coil. A free-wheeling diode (D2) is connected in parallel with the terminals of the coil. The power stage (10) includes a diode (D1) which prevents the flow of current in the reverse direction, in the event of the inversion of polarity of the battery. The electronic switch comprises a first transistor (T1) controlled by the management unit, and a second transistor (T2) mounted in series with the first, controlled in all-or-nothing mode by a logic gate (ET) sensitive to the open/closed state of the starter switch (K).

IPC 8 full level

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CPC (source: EP)

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