

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  
**F02N 11/08** (2006.01); **F02N 11/10** (2006.01)

CPC (source: EP)  
**F02N 11/087** (2013.01); **F02N 11/10** (2013.01)

Cited by  
CN103228905A

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1316722 A1 20030604**; **EP 1316722 B1 20070404**; DE 60219268 D1 20070516; DE 60219268 T2 20080103; ES 2284799 T3 20071116;  
FR 2834756 A1 20030718; FR 2834756 B1 20041015

DOCDB simple family (application)  
**EP 02292919 A 20021126**; DE 60219268 T 20021126; ES 02292919 T 20021126; FR 0115555 A 20011130