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A motor driver couples to an auxiliary power supply and to a motor having a winding. The motor driver comprises a switching circuit that has an auxiliary node coupled to the auxiliary power supply and a winding node coupled to the winding. The switching circuit is configured to store energy in the inductance of the motor winding and to deliver energy the auxiliary power supply. To store energy, the switching circuit and the winding are coupled to establish a current in the winding. To deliver energy, the switching circuit delivers the current in the winding to the auxiliary node.

