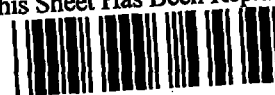


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ABSTRACTELECTRIC MACHINE CONTROLLER

5 A controller for a switched electric machine, especially
a switched reluctance motor, takes timing information
from a rotor position transducer to generate a switch-off
output at a point near maximum phase inductance in a
phase inductance cycle. A switch-on signal is generated
after a delay but still within the phase inductance
10 cycle. A simple form of single-pulse control is thereby
achieved. A comparator is also provided which monitors
phase winding current. A pulse generator is actuated by
the comparator when the winding current exceeds a
reference level and is used to control the motor in a
15 chopping mode at low speeds and is disabled by the
comparator at higher speeds when the single-pulse control
is used.