

ABSTRACT**CONTROL OF SWITCHED RELUCTANCE MACHINES**

- 5 A switched reluctance drive comprises a reluctance machine, a controller, power switches actuated by the controller and a current transducer for monitoring the current in each phase winding. The controller employs a sensorless rotor position detection technique by injecting voltage pulses into the idle period of each phase winding in a chopping mode. Acoustic noise
10 associated with the injected pulses is concealed by varying the frequency at which the pulses are injected according to rotor speed. In an alternative embodiment the frequency is varied pseudo-randomly.

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