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FINITE ELEMENT ANALYSIS OF SWITCHED RELUCTANCE MOTOR DRIVE UNDER FAULT CONDITIONS

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Abstract

The dynamic response of a Switched Reluctance Motor (SRM) is analyzed by the structural and electromagnetic Finite Element Method (FEM). The dynamic behavior of the motor under failure operation leads us to diagnosis of faults and rotor eccentricity in switched reluctance machines by monitoring the dynamic response (Torque and Speed). The behavior of switched reluctance motor error is investigated in this paper.

Keywords : Finite Element Method, Simulation, Switched Reluctance Motor