

**SIMULATION OF THREE PHASE SWITCHED RELUCTANCE
MOTOR BY USING XCOS**

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ABSTRACT

This report represents the idea of using Xcos simulation software to simulate the performance of non linear model for closed loop of 3 Phase Switched Reluctance Motor. Key to understanding in details of SRM is throughout its torque equation. Torque expression is derived based on relationship of current and rotor position. One of the main problems of SRM is due to high torque ripple and unsmooth torque production. Torque ripple minimization can be possessed by controller unit system such as current controller and speed controller. Thus, PID controller is applying in the system to improve its performance.

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