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A REVIEW OF NOVEL TECHNIQUES FOR SWITCHED RELUCTANCE MACHINE TO REDUCE TORQUE RIPPLE

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ABSTRACT

Electric motors are crucial parts for a wide range of applications, but there are numerous choices. Without the expensive cost or torque ripple issues of induction or permanent magnet motors, for instance, inverter frequency machines offer tremendous power and reliability. Notwithstanding the benefits over other electric motors that SRM offers, its biggest disadvantage is that it needs a more complicated control system. Commutation switching machines have downsides, especially when operating at high speeds, such as acoustic noise and torque ripple. Which system will benefit from the low torque ripple and acoustic noise varies frequently on the application being utilized, thus it is difficult to say. We examine these common tendencies in technology and how they aid in reducing machine noise and torque ripple.