

A New Design Permanent Magnets Reluctance Generator

Authors : Andi Pawawoi

Abstract : Instantaneous electromagnetic torque simple reluctance generator at a time can be positive and negative at other times. It is utilized to design a permanent magnet reluctance generator specifically. Generator is designed by combining two simple reluctance generator, consists of two rotors are mounted on the same shaft, two output-windings and a source field of the permanent magnet. This design expected electromagnetic torque on the rotor are able to reduce both, so the input torque generator can be smaller. Rotor flux is expected only to regulate the flow of both output windings alternately, until the magnetic energy is converted into electrical energy, such as occurs in the transformer. To test this design made prototype trials. The test results showed that the new design permanent magnets reluctance generator is able to convert energy from magnets to electrical, this is proven by the existence 167% power output compared to the input shaft.

Keywords : energy, magnet permanent, reluctance

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