

عنوان مقاله:

Geometric Parameters Design of a Linear Switched Reluctance Motor and 3-D Finite Element (FE) Analysis

محل انتشار:

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خلاصه مقاله:

This paper presents the geometric parameters design of a 4-phases linear switched reluctance motor. The design methodology employed enabled a swift initial design of the lamination geometric parameters such as air-gap length, rotor pole arc length, stator pole arc length, number of winding turns per pole and the determination of the dc coil turns, maximum dc flux and minimum dc coil area. To evaluate the machine performance, the numerical technique has been utilized. In the numerical analysis, 3-D Finite Element (FE) analysis has been carried out using a MagNet CAD package (Infolytica Corporation Ltd.), for a Four-phase linear SR motor as a design example to support the efficacy of the proposed design procedure.

کلمات کلیدی:

LSRM, 3-D Finite Element (FE) analysis

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