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Fractional slot concentrated winding

Spargo, C.M. and Mecrow, B.C. and Widmer, J.D. and Morton, C. (2015) 'Application of fractional-slot concentrated windings to synchronous reluctance motors.', IEEE transactions on industry applications., 51 (2). pp. 1446-1455. This paper presents an investigation into the application of fractional-slot concentrated windings to synchronous reluctance motors. The advantages and disadvantages of the synthesis of such a machine are explored with thermal aspects included, and a comparison with a similar topology, i.e., the switched reluctance motor, is also presented where appropriate. The differences in electric drive between the two reluctance motors are briefly explored. Finite element studies show that the fractional-slot concentrated wound machine can exhibit higher efficiency and torque density when compared with conventional synchronous reluctance and induction motors, and the electromagnetic model is validated through testing of a prototype machine, with thermal results also reported. Despite the many benefits, high torque ripple and low power factor reduce the topologies' desirability and are identified as an area of further research. Item Type: Article Full text: (AM) Accepted Manuscript Download PDF (488Kb) Status: Peer-reviewed Publisher Web site: statement: © 2014 IEEE. Personal use of this material is permitted. Permission from IEEE must be obtained for all other uses, in any current or future media, including reprinting/republishing this material for advertising or promotional purposes, creating new collective works, for resale or redistribution to servers or lists, or reuse of any copyrighted component of this work in other works. 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IEEE Trans Magn 45(1):127-132 CrossRef Abdennadher I, Masmoudi A (2015) Armature design of low voltage FSPMSMs: an attempt to enhance the open-circuit fault tolerance capabilities. IEEE Trans Ind Appl 51(6):4392-4403 CrossRef Title Fractional-Slot Concentrated Windings: Design and Analysis DOI Publisher Springer Singapore

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