

3D FEM Validation of Homo-Heteropolar Synchronous Machine for Wind or Hydro Applications

Marcel Topor, Sorin Ioan Deaconu

Electrical Engineering and Industrial Informatics Department

Politechnica University of Timisoara Timisoara, Romania

sorin.deaconu@fih.upt.ro

Lucian Nicolae Tutelea

Electrical Engineering Department Politechnica University of Timisoara Timisoara, Romania

luci@lselectronics.upt.ro

Ilie Nucă, Marcel Burduniuc

Department of Electrical Engineering Technical University of Moldova

Chişinău, Moldova

Abstract—In an effort to introduce a low cost (PM less), low power electric wind or hydro generators, this paper reports on preliminary design aspects, 3D FEM analysis of a 2.5 KVA, 250- 1000 rpm, reactive homo-heteropolar brushless synchronous machine (RHHBSM).

Keywords-homo-heteropolar synchronous machine; reactive machine; low power wind and hydro applications; 3D FEM analysis

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