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GENERAL STUDY OF RELUCTANCE MOTORS FOR DRIVING LIGHT ELECTRIC VEHICLES

BY

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Abstract. The paper is proposing a new type of reluctance motor for direct driving of light electric vehicles, based on its placement inside the front wheel. There are considered two constructive types, the first one with larger teeth, medium torque, higher speed, the second one with fine teeth, high torque, but lower speed. At this comparative study both classical design methods and modern methods – based on Flux software, have been used.

Keywords: inverse reluctance motor, classic design, FEM analysis.