

SUMMARY

The diploma project comprises: 71 pages, 18 figures, 5 tables, 1 appendix, 1 specification and the graphical part on 3 pages A1.

In this project comparative analysis of vector control algorithms of induction motor for electric vehicle application is presented. Investigated algorithms were: indirect field oriented torque control and direct field oriented control with torque per ampere ratio maximization. Both algorithms provide asymptotic torque-flux tracking.

Energy efficiency of compared controllers is investigated by simulations.

INDUCTION MOTOR, ELECTRIC VEHICLE, FIELD ORIENTED CONTROL, MAXIMUM TORQUE PER AMPERE FIELD ORIENTED CONTROL, SYNTHESIS, CHARACTERISTICS, RESEARCH.

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Checked	S. Kovbasa					7	69	
N. Contr.						NTUU «KPI», FEA		
Approved.	S Peresada							