

SUMMARY

The diploma project comprises: pages 84, figures 19, tables 4, appendix 3 and the graphical part on 3 pages A1.

In this thesis project completed synthesis and comparison of direct torque vector control algorithms for induction motor. Studied standard algorithm of vector torque control with and without feedback voltage. Both algorithms provide working asymptotic trajectories given torque and flux.

Dynamic and energy efficiency of torque-flux vector control is checked by method of mathematical modeling.

INDUCTION MOTOR, ELECTRIC VEHICLE, TRACTION ELECTRIC DRIVE, FIELD ORIENTED CONTROL, SYNTETHIS, CHARACTERISTICS, BLOCK DIAGRAMS, RESEARCH, MATHEMATICAL MODELING.

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