

## SUMMARY

Thesis contains of 142 pages, 50 drawings and 3 appendices. The graphic part contains of 6 sheets.

Structure of master thesis includes the following sections:

1. Analytical review of the literature;
2. Selection of energy part for electric bus;
3. Direct vector torque control for traction induction motor;
4. Mathematical modeling of dynamic and energy characteristics of the vehicle;
5. The technical implementation aspects for electric bus.

The aim of the project is to develop procedures for designing the basic units of electric bus for urban transport.

In thesis provides analytical review of literature, reviewed existing structures for constructing transmission, inverter and power supply for urban electric buses. The aspects of the technical implementation of the key components of the power section are reviewed in the thesis. The algorithms of torque vector control and traction motors are simulated for necessary modes of electric system electric bus.

The graphical part includes block diagrams of algorithms, functional and schematic diagram of power, graphics dynamic processes.

ELECTRIC BUS, TRACTION MOTOR, BATTERY, TORQUE VECTOR CONTROL, MODELING, TRACTION INVERTER.

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