SUMMARY

Thesis performed at 117 pages, contains 38 illustrations, 5 tables.

In this work was performed analytical review of the literature field of electric passenger elevators. According to the task calculated and selected the engine for electric passenger elevator. The requirements for electric passenger elevator.

The synthesis of current regulator, flux and speed.

It was chosen the parameters of induction motor with squirrel cage needed for further simulation environment in Matlab Simulink. Elected frequency converter.

The model of induction motor vector control system and in the environment of Matlab / Simulink. Executed check compliance with the electric drive during simulation.

The graphical part includes an electric circuit principle, charts transients, kinematic scheme of a passenger elevator.

ASYNHRONYNYY ENGINE VECTOR CONTROL, FREQUENCY CONVERTERS, POWER CALCULATION, MODELING IN SIMULINK, PASSENGER ELEVATOR.