

SUMMARY

The diploma project is executed on 66 pages and 19 pictures, 4 tables and 3 posters A1.

In this diploma project on the basis of analytical review the requirements to the electric drive of the escalator are formed, on the basis of parameters and characteristics the system of frequency control is chosen. An asynchronous motor of type 4A315M8UZ is calculated and selected. The frequency converter is selected and the speed controller is synthesized. Based on the description of the control system, a model of the electromechanical system based on the Matlab Simulink application software package was formed. By the method of modeling, graphs of escalator dynamic modes are obtained.

FREQUENCY CONTROL, ELECTRIC DRIVE, ESCALATOR, CONTROL SYSTEM, FREQUENCY CONVERTER, SIMULATION, MATLAB SIMULINK.

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