

ABSTRACT

Diploma project contains 114 pages, among them there are 101 main text pages, 50 pictures, 23 tables, 6 sheets of the graphic part.

The purpose of the project is to develop an automated electromechanical system for positioning the transport line.

In this work, a system of asynchronous motor with slip compensation was developed. Theory of automatic control of electric drive, control systems of electric drives are used in the elaboration of the task.

On the basis of the FC-AM, a control system is implemented. From the asynchronous engine Siemens 1LA7096-4AA10 with a power of 1.5 Kw and cylindrical three-stage gearbox 5Z3-125. The method of mathematical modeling investigates transients with and without slip compensation.

EXPLANATORY NOTE, REPORT, AUTOMATIC CONTROL SYSTEM, SUNTHESIS, SLIDING COMPENSATION, ASYNCHRONOUS MOTOR, GEARBOX, TRANSPORT, STARTUP

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