

## SUMMARY

The diploma project is executed on 83 pages and contains 21 figures and 7 tables and 3 posters A1.

The purpose of the diploma project is the study of the work and design of the electromechanical system of the lifting plant.

In carrying out the diploma project the following tasks were solved: an analytical review of operating modes and constructions of elevator lifting installations was carried out, an analysis of various systems of electric drives used for elevators, requirements for electric drives was formed, the choice of electric motor and elements of the electromechanical system was justified, the model of the electromechanical system in MATLAB Simulink software environment was made, dynamic and static operating modes of the system under different load sizes are investigated.

The implementation of this diploma project was provided through the use of the following programs: Microsoft Office Word 2016, MATLAB R2009b, Splan 7.0.

ASYNCHRONOUS ELECTRIC DRIVE, ALGORITHM OF ASYNCHRONAL  
ENGINE CONTROL, MATHEMATICAL MODELING, DYNAMIC  
CHARACTERISTICS, ELEVATOR, LIFTING PLANT FREQUENCY CONTROL

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