

## SUMMARY

The diploma project contains: pages - 63, drawings - 21, tables - 6 and graphic part on 3 sheets A1.

In this diploma project, a work was devoted to the development of a frequency controlled electric drive system for the underground ventilation system.

The system of frequency controlled electric drive was developed to be developed to bring in the movement of the fan, in accordance with the mode of operation of the subway ventilation system.

In the software environment Matlab Simulink conducted a study of the developed electric drive system. The characteristics of transient processes occurring in the system during start-up and loading of the engine shaft are obtained.

Elements of the power part of the electric drive have been developed and selected, that is, the frequency converter itself has been developed

INDUCTION MOTOR, FREQUENCY CONVERTER, VENTILATION OF METROPOLITEN, CHARACTERISTICS OF TRANSFER PROCESSES, MATLAB SIMULINK.

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	Letter	№ of doc.	Sign.	Date					
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