

ABSTRACT

Diploma project is presented on _ pages contains _ figures and _ tables.

In this project the automated electromechanical system of sewage pump station has been designed. Its work with both $U/f=\text{const}$ and $U/f^2=\text{const}$ frequency control algorithms has been researched.

In the Matlab (Simulink) the model of sewage pump station which includes driving motor 4A132S4Y3 and both of frequency control algorithms has been created. The graphs that characterize working processes of motor and the system in general have been obtained with simulation.

The electric drive that meets the requirements of the system has been chosen from the catalog. The conclusion has been made.

SEWAGE PUMP STATION, PUMP, FREQUENCY CONVERTER,
INDUCTION MOTOR, FREQUENCY CONTROL.

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