

## ABSTRACT

Master's thesis consist of 119 pages, including 109 main text, 45 figures, 32 tables, 54 sources by the list of references.

The object of this Master's thesis is the system of automatic control of compressor units using frequency control induction motor. The aim is to study the work of such systems and compare its energy efficiency with other methods of automatic control of compressor units, creating a practical basis of such system. Result of work is a demonstration of improvement of energy efficiency of compressor units using the investigated method of control, a program for implementation of the control system.

*AUTOMATION, INDUCTION MOTORS, FREQUENCY INVERTERS, COMPRESSOR, FREQUENCY CONTROL, PLC, ENERGY EFFICIENCY.*

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