SUMMARY

Diploma project contains: pages - 63, drawings - 13, tables -6, graphic part on sheets A1.

The aim of the work is to develop a scheme of automation, connection diagrams and an assembly scheme for the electromechanical system of granulation of bulk substances.

An analytical review of general principles of control of electromechanical systems is carried out, the basic methods of speed control are shown, general principles of vector control are revealed. The motor and frequency converters have been selected, the protection devices have been calculated, the type and area of the conductors have been selected, the case for the control cabinet has been selected. A detailed description of the automation system is carried out. In project ware presented the main features and ways of setting up frequency converters. An analysis has been made and a customization map for each frequency converter has been created.

ELECTRICAL MECHANICAL SYSTEM OF LINE ON GRANULATION OF MUTUAL RECTIFIERS, AUTOMATIC SYSTEM, VECTOR CONTROLLING AC MOTOR, TECHNOLOGICAL PARAMETERS.