

SUMMARY

The diploma project contains 2 chapters. First one is executed on 127 pages and contains 36 figures and 16 tables. Second one has 64 pages.

The purpose of the work is to describe the algorithm of the project for the automation of the electromechanical system of supply and exhaust ventilation.

The paper describes the sequence of building a project for an example of a system of mechanical ventilation of a parking. The technological scheme and principles of operation of typical heating and ventilation systems are described. The following theoretical foundations concerning the construction of the power supply system and the grounding of installations of automation objects are given below. Provided rules for calculating electrical loads and calculating the section of conductors.

The last part examines the algorithm for creating a basic set of working drawings for the system of automatic control of mechanical ventilation of the parking.

The calculation and implementation of this course project was provided using the following programs: MATLAB R2015a, Microsoft Office Word 2016, Autocad 2016.

AUTOMATION OF ELECTRICAL MECHANICAL SYSTEMS, REFRACTORY VENTILATION, ELECTRICAL SUPPLY SYSTEM, GROUNDING, ELECTRICAL EQUIPMENT SELECTION, DESIGNER DRAWINGS, PROGRAMED LOGICAL CONTROLLER, MODBUS, RS-485.

	Letter	Nº of doc.	Sign	Date				
Devel.	A. Otroshko				<i>Summary</i>	L.	Page.	Pages
Checked	S.Kovbasa						7	127
Recension	V. Chumak					NTUU "Igor Sikorsky Kyiv Polytechnic Institute", AEMS- ED		
N. Contr.								
Approved	S. Peresada							