

ABSTRACT

The thesis project is executed by 58 pages and contains 16 figures, tables 3 and 4 posters A1.

In carrying out the diploma project was decided following main problems: analytical review of the design features of the axial fan, power calculation and choice of engine, choice of frequency converter, development and research system frequency motor control, modeling electromechanical systems, development of electric circuit electric, health and safety.

Obtaining results in this paper can be used in the manufacture of modern system of electric fan.

Calculation and realization of the diploma project were provided by using the following software: MATLAB R2013b, Microsoft Office Word 2007, Microsoft Office Visio 2007, Mathcad 14, AutoCAD 2011.

FANS, INDUCTION MOTORS, SYNTHESIS, FREQUENCY,
SIMULATION, DESIGN OF THE ELECTRICAL PRINCIPLE.

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<i>Chan</i>	<i>Sh.</i>	<i>Nº docum.</i>	<i>Sign.</i>	<i>Date</i>	Automatic Electric ventilation system			<i>Liter.</i>	<i>Sh.</i>	<i>Scale</i>	
<i>Designed</i>	<i>El Hamdaui Muad</i>									5	
<i>Checked</i>	<i>Pyzhov</i>										
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<i>R. control</i>	<i>Teraev</i>										
<i>Approve</i>	<i>Peresada</i>				NTUU «KPI», FEPEA, gr. ED-21						