

ABSTRACT

The diploma project is executed on 72 pages and contains 26 figures, 4 tables and 3 posters A1.

The aim of the diploma project is the modernization of industrial electric mixer to improve its technical performance and productivity.

To achieve this goal decided the following main tasks: analytical review the design features of electric drive of the industrial mixers, power calculation and choice of engine, calculation of basic elements of power part and choice of frequency converter, research and development of a system of the direct vector control electric drive, health and safety.

Calculation and implementation of this degree project were provided by means of use of the following programs: MATLAB R2010b, Microsoft Office Word 2013, Microsoft Office Visio 2013.

MIXER, ELECTRIC DRIVE, AUTOMATIZATION, INDUCTION MOTOR, FREQUENCY CONVERTER, SYNTHESIS, SIMULATION.

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<i>Chan</i>	<i>Sh.</i>	<i>№ docum.</i>	<i>Sign.</i>	<i>Date</i>	The automated electric drive of the industrial mixer <i>Abstract</i>	<i>Liter.</i>	<i>Sh.</i>	<i>Scale</i>
<i>Designed</i>	<i>Tymofoiev D.V.</i>						7	72
<i>Checked</i>	<i>Teryaev V.I.</i>					<i>NTUU «KPI», FEA, gr. ED-21</i>		
<i>Reader</i>								
<i>R. control</i>								
<i>Approve</i>	<i>Peresada</i>							