

ABSTRACT

The diploma project executed on 77 pages and contains 19 figures, 3 tables and 3 posters A1.

To achieve this goal, the following tasks were solved: analytical review in the field of automated electric drive of industrial mixers and drying units, determination of the required engine power, mathematical model of the electromechanical object and calculation of static and dynamic parameters of the electric drive, control system synthesis, research of dynamic processes of electromechanical system, automation of technological process, health and safety.

Calculation and implementation of this degree project were provided by means of use of the following programs: MATLAB 2015 + Simulink, Microsoft Office Word 2016, Microsoft Office Visio 2015, sPlan 7.0, AutoCAD 2015.

DRUM DRYING AGGREGATE, INDUCTION MOTOR, FREQUENCY CONVERTER, SYNTHESIS, VECTOR CONTROL, SIMULATION.

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<i>Ch.</i>	<i>Sh.</i>	<i>Nº docum.</i>	<i>Sign.</i>	<i>Date</i>	<i>Electric drive and automation of the drum drying aggregate Abstract</i>	<i>Liter.</i>	<i>Sh.</i>	<i>Scale</i>
<i>Designed</i>		<i>V. Leshchenko</i>						
<i>Checked</i>		<i>V. Teriaiev</i>					7	77
<i>Reader</i>						<i>NTUU «Igor Sikorsky KPI », FEPEA, gr. EP-32</i>		
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<i>Approve</i>		<i>S. Peresada</i>						