

## SUMMARY

The diploma project is executed on 63 pages and 33 pictures, 2 tables and 3 posters A1.

In this diploma project, an analytical review of existing aggregates for the drying of industrial and agricultural products has been conducted. The choice of drum drying unit as the most efficient and universal is substantiated. The choice of the engine and power electrical equipment was made, the automation of the technological process of the dryer operation was performed. The electric drive control system of the drying unit is designed on the basis of the logic relay, which allows us to perform all operations in automatic mode. The graphs of transients are obtained by mathematical modeling.

**ELECTRIC, FREQUENCY CONTROL, DRYING APPLIANCE,  
DEVELOPMENT, AUTOMATIC, MATHEMATIC MODEL, RESULTS.**

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|           |                |           |      |      | 6.050702. 5109.006.BW   |   |      |       |  |
|           | Letter         | № of doc. | Sign | Date | <i>Automated electric drive of a drying<br/>machine</i><br><br><i>Summary</i> | L.  | Page | Pages |  |
| Devel.    | Zolotoruk V.V. |           |      |      |   |   | 7    | 63    |  |
| Checked   | Teriaev V.I.   |           |      |      |   | NTUU «Igor Sikorsky Kyiv<br>Polytechnic Institute», FEA |      |       |  |
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