

SUMMARY

The diploma project is executed on 68 pages and contains 41 figures, 6 tables and 3 posters A1.

The aim of the degree project is to modernize the system of electric drive of passenger lift by developing of vector-controlled asynchronous electrical drive.

To achieve this goal decided the following main tasks: analytical review of elevator hoisting installations, requirements for an automated system the elevator and electric control system, power calculation and choice of engine and electrical equipment, calculation of basic elements of power part and choice of frequency converter, research and development of a system of the indirect vector control electric drive, health and safety.

The results of the degree project can be used for modernization electric drive of passenger lift.

Calculation and implementation of this degree project were provided by means of use of the following programs: MATLAB R2009b, Microsoft Office Word 2010, Microsoft Office Visio 2013, Mathcad 14, AutoCAD 2009.

LIFT, INDUCTION MOTOR, REDUCERS, ELECTRIC DRIVE, FREQUENCY CONVERTER, MOMENT OF INERTIA, TACHOGRAM OF MOVEMENT, STATIC MOMENT.

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| Designed | | O. Benhammou | | | <i>Induction motor electric drive of speed passenger elevator Summary</i> | Li. | Page | Pages |
| Checked | | V Bovkunovich | | | | | 7 | 68 |
| Reader | | | | | | NTUU «KPI», FEA, gr. EP-21 | | |
| R. control | | | | | | | | |
| Approve | | S. Peresada | | | | | | |