

THE SUMMARY

The diploma project is represented on 74 pages and contains 19 figures, 8 tables and 4 posters A1.

The aim of the degree project is the developing of vector-controlled asynchronous electrical drive for mining elevating system.

To achieve this goal the following main tasks was completed: analytical review of mining elevators, 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 supply and frequency converter choice, 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 desinging of electric drive for mining elevator.

Calculation and implementation of this degree project were provided by means of use of the following programs: MATLAB R2012b, Microsoft Office Word 2010, Microsoft Office Visio 2003, Mathcad 15.

LIFT, ELECTRIC DRIVE, FREQUENCY CONVERTER, MOMENT OF
INERTIA, TACHOGRAM OF THE MOVEMENT, STATIC MOMENT,
VECTOR CONTROL, SIMULATION.

					6.050702.2216.028.BP			
Chan	Sh.	№ of docum.	Sign.	Date	Electric drive of minig lift	Li.	Page	Pages
Designed		N. Ryabchenko						
Checked		V. Pyzhov					7	74
Reader		J. Haydenko				NTUU «KPI», FEA, gr. EP-22		
R. control		B. Priymak						
Approve		S. Peresada						