SUMMARY

The degree project contents: pages - 72 pictures - 13 tables – 5 applications -, sheets - and the image of the 3 letters A1.

This thesis project completed the design and research of electric induction motor conveyor installations with frequency control. We investigated the suitability of scalar frequency control to control the speed of the conveyor belt depending on the performance of the supply of rock material.

The method of mathematical modeling received energy efficiency performance that provides frequency control with close to nominal constant moment load and speed change is achieved.

INDUCTION MOTORS, CONVEYORS, ADJUSTABLE ELECTRIC DRIVE, FREQUENCY CONTROL, SYNTHESIS, CHARACTERIZATION, RESEARCH.