

## SUMMARY

The diploma project comprises: pages 61, figures 20, tables 10 and the graphical part on 3 pages A1.

In this graduation project, the choice of an asynchronous motor was made, the calculation of the power converter and its elements selected, the controller and sensors were chosen for it.

Also, an algorithm for direct vector control of the voltage and current connection of the asynchronous motor was synthesized, which provided the asynchronous motor control system with such properties as smooth start-up and smooth adjustment of engine speed throughout the frequency range and increase of the speed control range. This algorithm was modeled in the Matlab environment, taking into account the change in the static moment and speed of the asynchronous vector with vector control.

SYNCHRONOUS ENGINE, ELECTRICAL VEHICLE, VECTOR CONTROL, SYNTHESIS, CHARACTERISTICS, STRUCTURAL SCHEME, INVERTER, MOSFET, IGBT.

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Developer	Y. Pasioka			Automation and electric drive of the scraper feeder <i>Summary</i>	L.	Page	Pages	
Checked	N. Krasnoshapka					7	61	
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