SUMMARY

The master's dissertation comprises: pages - 110, figures - 28, tables - 15 and graphical part on pages A1.

In this master 's thesis, a research and comparative analysis of dynamic behavior of the vector control system taking into account the pulse - width modulation of the autonomous voltage inverter was carried out, for which a simulation program was developed in the package of applications MATLAB. A comparative analysis of the dynamic behavior of the vector control system is also performed taking into account the dead time of the inverter in mathematical modeling and experimentally.

Calculation and realization of the project was provided through the use of these programs: MATLAB R2016b, Microsoft Office Word 2010, Microsoft Office Visio 2010, MathType 6.9.

INDUCTION MOTOR, VECTOR CONTROL, OBSERVER, ENERGY PERFORMANCE, SIMULATION, TRANSIENTS

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