

ABSTRACT

Masters diploma includes pages 130 pages, 48 figures, 26 tables.

The object of research is an asynchronous motor when powered by a soft starter.

The subject of research is electromagnetic, electromechanical and power processes in an asynchronous motor with power from soft starters with a varied voltage variation diagram.

The investigations were carried out using the methods of the theory of electric machines of alternating current, the theory of automatic control, methods for studying nonlinear control systems of electric drives, and mathematical modeling.

Based on the analytical review performed, the following tasks will be solved in this paper: a review of the application possibilities and the main functions of modern soft starters, the development of models for the TRN-AD system, comparison of various laws for varying the amplitude of the stator voltage during start-up and braking by opposing, investigation of the quasi-frequency control method and selection rational way of its schematic implementation, development of a start-up project.

ASYNCHRONOUS MOTOR, SOFT STARTER, TIRISTOR VOLTAGE REGULATOR, DIRECT START, SOFT START, DECELERATION.

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					Лит. Лист Листов Research of asynchronous motors with soft starters. Abstract <i>КПІ, ФЕА, ЕП-61м</i>		