

SUMMARY

The degree project contains 74 pages, 13 figures, 1 table, 1 specification, 1 addition, 3 sheets of a graphic part.

In the present degree project the electric drive of the mechanisms of moving and serve of electrode wire of welding automat. The electric drive mechanism of moving represents a transistor frequency converter – induction motor system. As a frequency converter the converter ABB ACS355 company. Methods of vector adjustment of AC drives speed are described. The brief description of the frequency converter and the engines used in the developed drive are given; according to the initial data the choice of the electric motor and the power equipment is made, a block diagram of the automatic control system is developed, and also the research of static and dynamic properties of the TFC-IM system is made.

THE ELECTRIC DRIVE, INDUCTION, ADJUSTABLE, HE
FREQUENCY CONVERTER, WELDING AUTOMAT, MECHANISM OF
SERVE OF ELECTRODE WIRE, RESEARCH, THE STATICS, THE
DYNAMICS.

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