

Annotation

Qualifying Master's Degree in Chernihiv National Technological University. The work was performed on the topic "Electric drive control system of a special-purpose machine-tool".

The purpose of the study of this work is to restore and modernize the machines that have ceased to be exploited, but in our time again become relevant.

In this work the object of machine control is considered - asynchronous three-phase engine. An overview of its construction and management features has been made.

Also, the maximum possible protection of the work of a specialized machine was developed to prevent reliable and safe operation of this equipment.

In the design section the assembly drawing of the electric panel and the control panel is executed.

So, as the machine has large dimensions, for a better understanding of the principle of work and calculation of materials, an electrical connection scheme was made.

The analysis of specific solutions to ensure the necessary system capabilities associated with the development of the device diagram, is presented in the section "Description of the scheme and calculation of elements of the scheme."

Algorithmic and programmatic components of the system are listed in the "Software part" section.

The project is presented by explanatory note for 122 p .; drawings -18; sources - 21; applications - 6; posters – 5.