

Annotation

Diploma work was carried out on an improved electric overhead traveling crane on the "frequency converter – induction motor" system. It includes the following sections: a special section, life safety and economic department.

Given the need for modernization of the special section of the modern converter that provides asynchronous electric. Construction of the bridge crane and the power characteristics of the engine, the calculated mechanical properties and diagrams have been chosen. At the same time, a block diagram of a motor drive system WG created using MATLAB program transition and discussed.

Life safety section provides the necessary environmental protection measures, safety and noise and fire safety equipment is provided. Noise reduction and fire pump is selected.

Designed and capital costs in the feasibility and basic version of the project cost accounting application, as well as economic efficiency are calculated net present value of the project.