

Annotation

Completed thesis project on the topic of "Automated electric drive of the conveyor". The project includes the following sections: special part, life safety and the economic part.

Special parts were given a General definition, characteristics, working principle and kinematics of the plate conveyor. The selected engine, gearbox and inverter drive. Built the functional and structural scheme of a closed-loop automatic control system. Also was built a block diagram of a system thyristor Converter – DC motor in the environment of Mathlab and are considered transients of the system.

In topic life safety is considered dangerous and harmful factors kovarnogo shop. It was calculated the protective earth.

In the economic part of the calculated techno-economic goals, the difference between the prices of equipment and energy costs, as well as the economic efficiency of the actuator.