

Annotation

The diploma project is dedicated to the topic "Calculation of electric power plants." The main part of the project is made asynchronous motor frequency managed drilling rig. We were chosen and calculations of the induction motor and given its mechanical characteristics. Create a virtual model of the drive. Learned a virtual model of the program Matlab showed qualitatively transition processes, satisfying the technical requirements of the process.

For safety of life are considered the measures taken to reduce the noise and vibration generated in the production site, calculations are made of protective earthing of electrical devices placed in the drilling machine and fire and explosion hazards defined class room where the drilling rig.