

## **Annotation**

In this thesis, the design of phase rotary asynchronous motors, their structure and characteristics are considered. The equations of the motor armature and transmission parameters were compiled. In addition, an electromagnetic calculation of an asynchronous motor with a phase rotor was made and the number of slots was calculated, the parameters of the conductors, the number of slots and teeth were calculated, the length of the armature and the magnetic flux were determined, and the magnetic stresses on the sections of the magnetic circuit were calculated.

In the next section has performed the calculation of the influence of the anchor response, compensation actions magnetization of the armature, the cross section of the SRC, the conditions of calculation of the magnetic circuit, the main poles, additional poles, and calculate commutation parameters. Calculating the efficiency of the electric motor and building characteristics. In the section safety of life, I considered the issue of safety during operation of the electric drive, the impact of noise on the human body, and made a calculation of zoning. In the technical and economic part of the project.