

Annotation

In the research paper outlines the rationale of modernization of the In the research paper outlines the rationale of modernization of the escalator. An analysis and justification of choice of asynchronous motor based on the frequency with the inverter system. Produced motor selection 4AHK315510Y3 and frequency converter ATV61HD75M3X. A drive control system of the escalator and studies the dynamic mode of operation in the structural and virtual models in MATLAB software environment. Investigated and analyzed transients under different operating systems .

As part of the Economic conducted a feasibility study for the final work .

In the " Safety" calculates the allowable acceleration. We consider the protection of electrical devices during the operation of the escalator , calculates protective vanishing and the choice of protective devices .