

ABSTRACT

The diploma design consists of 82 pages and encloses 27 figures, 6 tables.

AUTOMATIC ELECTRIC ESCALATOR ON SYSTEM VOLTAGE REGULATOR THYRISTOR – INDUCTION MOTOR

In this thesis project the development of elevator escalator system is carried out. The development is based on asynchronous motor with short circuit rotor

Thyristor controlled voltage regulator according to the source data. In the work the engine was designed and selected, the mathematical model of induction motor speed control and was synthesized by VRT-IM.

The dynamics of the system was investigated in two modes, including starting the escalator installation with a maximum load and low at thyristor control, and experiment with load and small escalator at direct start.

Also in the thesis the project functional diagram of the escalator installation was developed and the calculation of insulation cage was held in chapter of labor protection.

					6.050702.2220.024.БР			
Зм.	Арк.	№ докум.	Підпис	Дата				
Розробив	Касянчик І.О.				Асинхронний електропривод ескалатора метрополітену по системі ТРН-АД	Літ.	Аркуш	Аркушів
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