

ABSTRACT

Diploma paper consists of 100 pages, 29 figures and 3 pages of graphics.

Developing of electromechanical system of two-sectional conveyor based on induction motor is given in this paper. Method of frequency regulation for velocity of AC electric drive for conveyor was described. Power calculation, selection of an engine, conveyor belt, roller supports and power equipment was done according to the initial data. Structural scheme of SAC (system of automatic control) was designed. Parameters of dynamic sections were defined. Research of the dynamic properties of the system ‘the frequency converter - induction motor – conveyor’ was done. Circuit diagram based on complex electric drive was designed. Based on the results of the work done conclusions were made.

AUTOMATION, INDUCTION MOTOR, TOWING EFFORT, REEL, ROLLER SUPPORTS, FREQUENCY CONVERTER, ELECTRIC DRIVE, FREQUENCY CONTROL, CONVEYOR BELT

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