SUMMARY

A diploma project contains: pages – 68, figures – 20 and graphic part on 2 letters of A1.

In the diploma project the controlled electric drive of alternating current for the modern tram was calculated. Based on the initial conditions, the total drive power was calculated and the 4A280M4U3 engine was selected. Then the parameters of its substitution scheme for further modeling were obtained by calculations, after which the obtained system was modeled in different operating modes.

The calculation and implementation of this diploma project were provided using the following programs: Microsoft Office Word 2016, Microsoft Office Visio 2013, Mathcad 15.0, MatLab R2009b, MathType 6.9.

INDUCTION MOTOR, CONTROLLED ELECTRIC DRIVE, FREQUENCY CONVERTER, PLANNING, TRAM, URBAN TRANSPORT, MODELING