

## A REPORT

A diploma project is done in 66 pages, it includes 18 pictures, 3 tables and 3 papers of graphic part.

In this work it is projected electro-mechanic system of tram with asynchronous electrical drive. Made the calculation and selection of the asynchronous motor. Vector control system is investigated by mathematical modeling. It is elaborated the functional system of traction electrical drive, it is brought an algorithm of management and it is researched the characteristics. Calculation and execution of this diploma project is carried out by using the following programs: *SIMNON*, *Microsoft Office Word 2007*, *Microsoft Office Visio 2007*.

### THE KEY WORDS

ASYNCHRONOUS ELECTRICAL DRIVE, FREQUENCY MANAGEMENT,  
THE ALGORITHMS OF MANAGEMENT, MATHEMATICAL MODEL,  
TRANSITIONAL PROCESSES, FREQUENCY CONVERTER.

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Розроб.		Сіреньок В.О.						7	66	
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