

ABSTRACT

Diploma project contains 80 pages, 33 drawings, 3 sheets of graphics and 3 additions.

By the developed functional diagram assembly, installation and connection of the laboratory bench have been produced. Technical specifications and features of the frequency inverter have been described, advices to quickly put into operation have been given. NORD CON software have been described.

The method of mathematical modeling has been used to study the systems of vector control of the synchronous engine, namely the control of torque, speed, position.

Experimentally removed characteristics of the algorithm of indirect vector control of the speed of the asynchronous engine. Developed laboratory bench is to be used by students in scientific and research projects and in laboratory works on the subject "Systems of software and tracking traffic control".

ELECTRIC POWER, INDUCTION MOTOR, SYNCHRONOUS MOTOR,
FREQUENCY INVERTER, NORDAC, LOAD UNIT, VECTOR CONTROL,
FREQUENCY CONTROL, LABORATORY BENCH.

					6.050702.4119.008.BW		
Змн.	Лист	№ докум.	Підпис	Дата			
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