

SUMMERY

Master's diploma work contains: 104 pages; 22 figures; 24 tables; 38 references.

In this master's thesis, an system of control of the productivity of a circulating pump is developed and investigated. In this system the mode of working out the given productivity and stabilization of productivity at the variation of the hydraulic resistance of the system was investigated. The algorithm of frequency control with minimization of losses is developed. A comparative study of the effectiveness of three frequency control algorithms is performed.

The unit of control of the circulation pump of the individual heating point of the multistory building is synthesized. It prevents the pump from running dry, and when the signals from the pressure sensors are lost or the performance is lower than the permissible level.

ASYNCHRONOUS MOTORS, FREQUENCY CONTROL, INDIVIDUAL HEAT POINTS, SYNTHESIS CONTROL ALGORITHM, RESEARCH, MINIMIZE LOSSES.

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Розроб.		Савченко О.І.					6	120
Керівник		Приймак Б.І.				<i>НТУУ «КПІ» Каф. АЕМС-ЕП Гр. ЕП -32</i>		
Н. Контр.								
Затверд.		Пересада С. М.						