Building a speed stabilization control program for a three-phase asynchronous motor using PLC S7-1200.

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Abstract: This topic focuses on building a control system using a Programmable Logic Controller (PLC) S7-1200 to maintain a stable speed for a three-phase asynchronous electric motor. The research context reflects the necessity in modern industry for precise and efficient speed control solutions. The objective of the topic is to develop a control program that ensures stable and safe operation for the motor. The method combines theoretical and experimental approaches to build and optimize the system. The significance of the research lies in its applicability in industrial fields, while also providing a flexible design solution for manufacturers and engineers.

Keywords: PLC S7-1200, electric motor control, speed stabilization