Electrical equipment and hardware construction for a three-phase asynchronous motor speed stabilization system using PLC S7-1200

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Abstract: This topic aims to solve the problem of improving the performance of a three-phase asynchronous motor speed control system through electrical equipment and hardware construction based on the PLC S7-1200. Through a process of theoretical research combined with experimentation, the topic will provide an effective solution for applications requiring precise motor speed control. The expected result is a robust and reliable control system, while also contributing to the development of automation technology in the field of technical electronics.

Keywords: PLC S7-1200, Speed control system, Asynchronous electric motor, Automation hardware, Precise control