

Using PLC S7-300 to control the motor inverter.

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Abstract: This topic aims to research and deploy an automation system using the Programmable Logic Controller (PLC) S7-300 combined with an Inverter to effectively control motor operation. With the development of automation technology, optimizing the motor operation process is necessary to enhance productivity and reduce power consumption. The objective of the topic is to build an advanced control system that meets the requirements of high accuracy and performance in practical applications. Through theoretical and experimental research, the topic aims to provide a practical solution for automatically managing and controlling electric motors, contributing to the promotion of PLC technology applications in this field.

Keywords: PLC S7-300, Inverter, Electric Motor, Automation, Energy Management