

Electrical equipment for CNC machine tools and construction of protection circuits for the system

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Abstract: This topic focuses on the electrical power supply for CNC machine tools, while also designing and implementing an effective protection circuit to ensure operational safety and enhance system reliability. The main objective is to research and propose technical solutions to optimize the CNC product manufacturing process through precise and safe power control. By combining theoretical and experimental methods, the topic aims to contribute to the improvement of mechanical machinery manufacturing technology, thereby bringing benefits to the manufacturing industry in particular and technological development in general.

Keywords: CNC machine tools, electrical system protection, electronic circuits, reliability, operational safety