基于 MCGS 的步进电动机控制

随着社会的发展和科技的进步，工业生产越来越趋向与自动化，自动控制方式中结合 PLC 和电脑最常用的，实现程序控制；数据采集和分析；参数设置。研发在 Windows 平台的组态软件系统 MCGS 是北京的昆仑通态自动化软件科技有限公司，MCGS 能够用于快速建造组态软件系统，生成上位机监控系统的组态软件。主要工作是完成前端数据的处理和控制，完成现场数据的采集和监测。MCGS 可以运行在 Microsoft Windows 98/NT /ME/WIN7/WIN10 等操作系统上。实现对工业生产的控制和监控。步进电动机则是在工业生产中至关重要的部分，设计中使用的步进电机广泛应用于数字控制机床和人机系统。本课题是基于 MCGS 的步进电动机控制，主要采用工业领域常用的人机界面软件 MCGS 和可编程控制器对步进电动机进行控制。

关键词 MCGS PLC 步进电动机

Title Stepping motor control based on MCGS

Abstract

With the development of society and the advancement of science and technology, industrial production has become more and more automated and the most commonly used method of combining PLC and computer in automatic control mode. The most commonly used automatic control mode is to combine PLC and computer to realize program control; data collection and analysis; parameter setting. MCGS is a set of configuration software system based on Windows platform developed by Beijing Kunlun Tongshi Automation Software Technology Co., Ltd., which is used to quickly construct and generate the upper computer monitoring system. It mainly completes on-site data collection and monitoring, front-end data processing and control. and can be used in Microsoft Windows 98 /NT/ Me / WIN7 /WIN10 and other operating systems. Realize the control and monitoring of industrial production. Stepper motors are the most important part in industrial production. The stepping motor used in the design is widely used in CNC machine tools and man-machine systems. This project is based on the control of stepping motor by MCGS. It mainly uses the commonly used man-machine interface software MCGS and PLC to control stepping motor.

Keywords MCGS PLC Stepping motor