

Engineering Development Project MG710101

Project Muller Martini

AC single phase circuit with 4 button and VSD

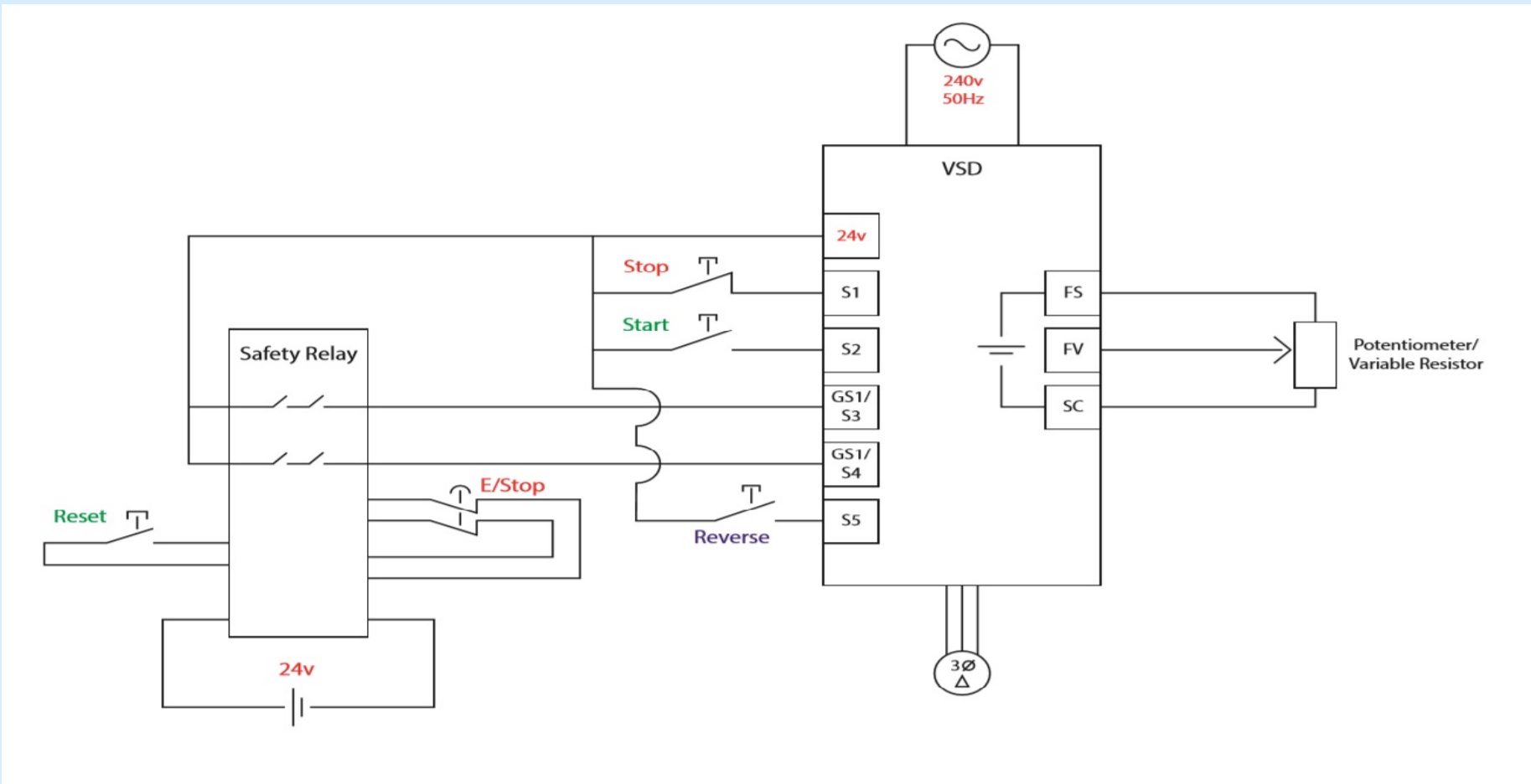
THE PROBLEM

Design and build prototype circuit for Muller Martini book binder.

THE SOLUTION

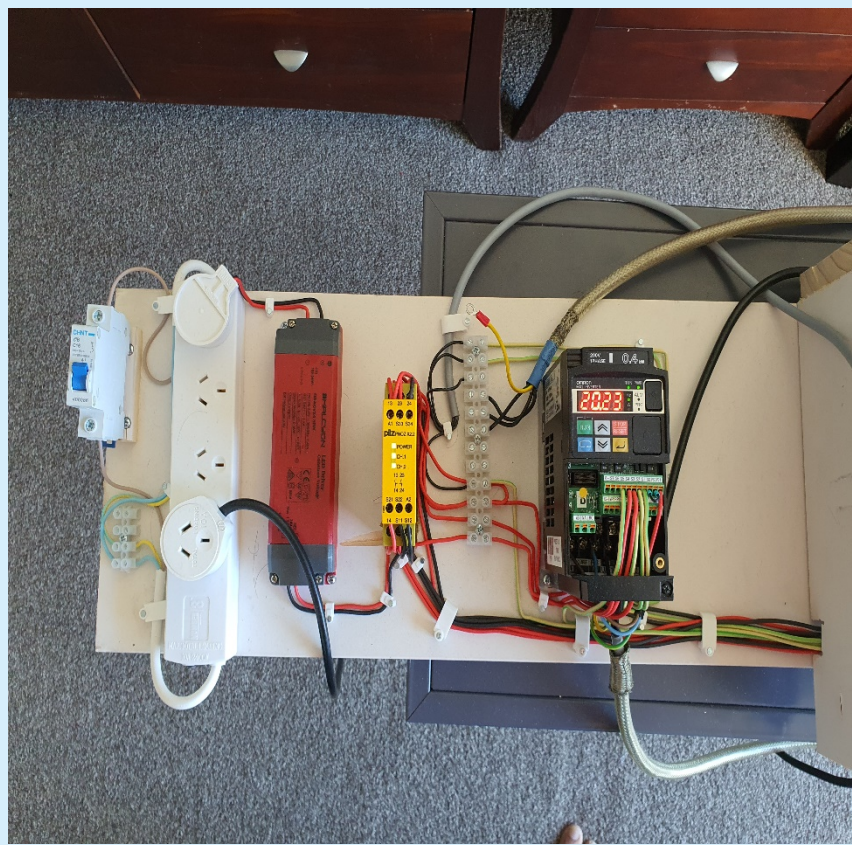
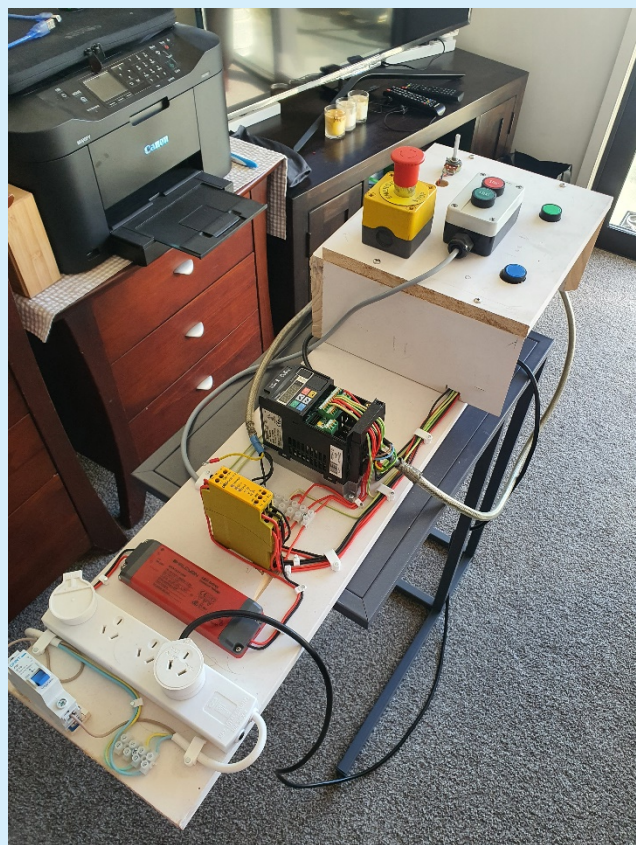
HARDWARE:

- ❖ Variable Speed Drive (VSD)
- ❖ Safety Relay
- ❖ LED driver Constant Voltage
- ❖ Momentary Pushbutton Switch
- ❖ Potentiometer / Variable Resistor
- ❖ Circuit Breaker



THE TESTING

It was decided that Variable Speed Drive (VSD) was the most efficient and easy way to control the motor. Safety Relay was also used to create more user and environmentally friendly as well as safe usage of the machine. The new circuit meets the requirements of the company therefore it was tested for simplicity, efficient and cost effective.



THE FUTURE

This project has the opportunity to continue development with the advancement of technology every year despite its simple, energy efficient and cost-effective design. With more time and resources this project could be made more robust to suit a whole range of machine. There is also the range of adding more safety devices to meet the higher safety rated machine and industry.

THANKS

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