

ABSTRACT

Automatic Transfer Switch is a tool that can move the main power supply to the backup power supply automatically. When the main power supply is interrupted or disconnects to. This ATS with various components such as contactor, relay and delay relay timer as automatic control for easy to manufacture and minimize in component usage.

A tool for monitoring the performance of a microcontroller based Automatic Transfer Switch by using 2 SCT current sensor 013-000 to measure current flow in the Automatic Transfer Switch.

The output of this final project is the transfer in Automatic Transfer Switch automatically or manually, the comparison of current value with clampmeter. On the measurement of current error value of 9.73% and switching between sources of 2.34 seconds.

Keywords: *Automatic Transfer Switch, Microcontroller, SCT013-000*