SMART MCB (MINI CIRCUIT BREAKER) BASED ON MICROCONTROLLER ATMEGA16

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ABSTRACT
Electrical power limitations and imbalances electricity usage is a classic problem for any electrical user. There are some users who installing a small electric power but the load of users is huge. However some users are already installed a large power electric in his place but electrical load who are used is small. This is one factor imbalance of electrical usage in most of the electricity usage.

The Smart MCB work by the efficiency of electricity use when the load to be down, for example if it is under 400 watts MCB 2 Amperes will be active, and if the load is below 900 watts MCB 4 Ampere will be active, so efficiency of the electricity’s cost rate can be maximized because the cost of electricity power at 4 Ampere MCB is more expensive than the rate of power at MCB 2 Ampere.

In Smart MCB obtained the test results that Smart MCB can be optimized the power consumption by power electric transfer between MCB 2 Ampere, MCB 4 Ampere, and MCB 6 Ampere.

Key words: Microcontroller, Hall Effect Current Sensor, MCB (Mini Circuit Breaker).
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