Abstract
Pump is one type of single phase ac motor single phase capacitor belonging. This motor can work with voltage 220VAC supply. In general, a motor is only spinning at only one type of rotational speed. Rotary speed control on the pump is also called the motor driver. Motor rotation speed setting that simple can be done with the help of a motor driver circuit using a TRIAC Q4004LT. Where is the principle used PWM (Pulse Width Modulation) is to set the pulse width in the form of a digital voltage potentiometer which serves as a support shear resistance. Where the shear resistance is able to manipulate the barrier and the voltage will be the voltage input to the IC NE 555. IC NE 555 function as PWM dc current. While TRIAC on single phase ac motor driver is functioning trigger voltage ac current to be generated.

Keywords: pump, single phase ac motors, ac motor driver, TRIAC Q4004LT, PWM, NE 555, potentiometer