

VIJAYANTA

VIJAI ELECTRONICS
28/147, CIVIL LINES
ROORKEE - 247667



SPEED CONTROL OF AC MOTOR USING TRIAC

Model –AVC-109

Speed control of AC motor using TRIAC model AVC -109 is very useful in the study and demonstration of the principle and working of a Speed control of AC motor. Student understand the firing method of TRIAC and speed control of AC motor different firing method. Multi colored Test Points are provided at various stages in the circuit to observe the waveforms and voltages. It is strongly supported by a comprehensive Instruction Manual complete with theory and operating details.

FEATURES

- Built in AC/DC power Supply.
- Firing angle control (0 to 180 degree).
- on board two firing Circuit.
- Isolated firing pulse .
- Test Points to observe the waveforms and voltages.

TECHNICAL SPECIFICATION

- Ramp and Pedestal firing circuit.
- DIAC firing circuit (with RC).
- 4mm sockets to check Voltage across load.
- IC based firing circuit.
- Universal motor 230V 1 / 8Hp
- Potentiometer is provided to vary the firing angle α (0 to 180 degree).
- 1:1:1 Pulse transformer is used for isolated triggering of SCR.
- TRIAC (600 volt 4 amp).
- Working voltage:(220-240) V AC.

EXPERIMENTS

- Design and construction of Speed control of universal motor .
- Study Speed control of universal motor at deferent firing angle.

ACCESSORIES

- One mains cord.
- One universal motor 230V, 1 / 8Hp (17000 RPM) .
- 8 nos. Patch card.
- Manual