



46606 Three Phase AC Voltage Controller is a useful Training System for Power Electronics Lab to demonstrate the operational working of Three Phase AC Voltage Controller with different loading conditions. It includes the experiment such as speed control of Three Phase AC Motor through anti-parallel SCR configurations with fine control response. It helps students to know how to generate firing pulses for three phase converter using ramp comparator scheme.

46606 is equipped with SCR firing control circuit that deals with triggering, modulation and instrumentation deriving the operating characteristics and capabilities of Converter. It incorporates all the necessary test points in order to explain the gate circuit by analyzing gate waveforms through inbuilt Power Scope.

Features

- Power Scope for isolation measurement
- Provided with Three Phase Motor
- High quality meters
- Three Phase low voltage Supply for gate circuit
- Three Phase Firing Circuit provided with pulse isolation
- Test terminals provided to analyze the waveforms
- Designed by considering all the safety precautions
- Diagrammatic representation of circuits
- Learning material CD
- 2 Year Warranty

Scope of Learning

- Study of Three Phase Firing Circuit
- Study of Three Phase AC Voltage Controller at Lamp Load
- Study of Three Phase AC Voltage Controller at Motor Load

Technical Specifications

| | |
|--------------------------|--|
| Three Phase Mains Supply | : 415V \pm 10%, 50Hz |
| Three Phase Machine | |
| Type | : Squirrel Cage Induction Motor |
| Rated Power | : 1HP |
| Rated Voltage | : 415V |
| Power Scope | : Isolated 1500Vmax |
| SCR Rating | : SCR TYN616, 600V/16A |
| Firing Angle Control | : 30° to 150° |
| Meters Used | |
| Analog AC Voltmeter | : 0-500V |
| Analog AC Ammeter | : 0-5A |
| Three Phase MCB | : 5A (TPN) |
| Dimensions (mm) | : W 600 x D 450 x H 600 (panel) W 180 x D 350 x H 310 (motor) |
| Weight | |
| Panel | : 18kg (approximate) |
| Motor | : 23kg (approximate) |

Note: Specifications are subject to change.

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