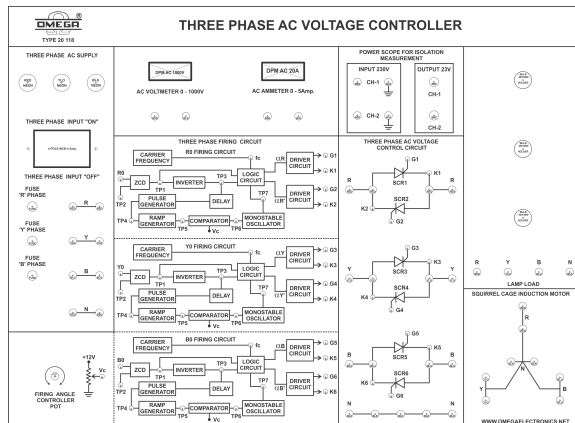


THREE PHASE AC VOLTAGE CONTROLLER

OMEGA TYPE 20 118



OMEGA TYPE-20118 Three Phase AC Voltage Controller is a useful Training System for Power Electronics Lab demonstrates 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 using ramp comparator scheme. TYPE 20118 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. Practical experience on this board carries great educative value for science and engineering students.

OBJECT

- 01 Study of Three Phase Firing Circuit.
- 02 Study of Three Phase AC Voltage Controller at Lamp Load.
- 03 Study of Three Phase AC Voltage Controller at Motor Load

FEATURES

The board consist of following built-in parts:

- 01 Power Scope of isolation measurement.
- 02 Provided with three phase motor.
- 03 High quality meters.
- 04 Three phase low voltage supply for gate circuit.
- 05 Three phase firing circuit provided with pulse isolation.
- 06 Test terminal provided to analyze the waveforms.
- 07 Designed by the considering all the safety precautions.
- 08 Diagram material representation of the circuits.

TECHNICAL SPECIFICATIONS

- 01 Three phase mains supply : 415v±10%,50Hz
- 02 Three phase machine type: Squirrel case induction Motor
- 03 Rated Power : 1HP
- 04 Power voltage : 415V
- 05 Power scope : Isolated 1500V/max
- 06 SCR Rating : SCR TYN 616, 600V/16A
- 07 Power Scope of isolation measurement : 10 : 1
- 08 Firing Angle Control : 30° to 150°
- 09 Digital AC voltmeter : 0-1000V
- 10 Digital AC Ammeter : 0-20A
- 11 Three Phase MCB : 6A (TPN)
- 12 Dimensions C.Pnl. (mm) : W800 x D350 x H600
Dimensions (motor) : W180 x D350 x H310mm
- 13 Weight C-Panel : 15kg (approx.)
Weight MG-Set : 48kg (approx.)

LIST OF ACCESSORIES:

- 01 Shrouded Patch cord 2mm length 50CM RED....08
- 02 Shrouded Patch cord 2mm length 50CM BLK.....08
- 03 Shrouded Patch cord 4mm length 50CM RED....06
- 04 Shrouded Patch cord 4mm length 50 CM BLK....06
- 05 Shrouded Patch cord 4mm length 100CM RED..02
- 06 Shrouded Patch cord 4mm length 100 CM BLK..02

OTHER APPARTUS REQUIRED:

- 01 DUAL TRACE CRO OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS