



46583 Power Electronic Training Board has been designed specifically for the study of Three Phase Thyristorized AC Regulator with Triggering Circuit.

Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

- To study the nature and generation of Control Signal for 3 phase Thyristorized AC Regulator.
- To study the operation of a 3 phase Thyristorized AC Regulator with R load.
- To study the operation of a 3 phase Thyristorized AC Regulator. with R-L Load (Induction Motor.)

FEATURES

The board consists of the following built-in parts:

- Three Phase thyristorized AC Regulator.
- Three pole power contractor with /AC coil complete with Push-to-ON switch. /
- Four pole Miniature Circuit Breaker (MCB).
- Three separate identical cards consisting of Zero Crossing Detector, Integrator, Comparator and Pulse Generator one for each phase, for controlling the triggering angles of the positive group of three thyristors. Another card in conjunction with above three cards for controlling the triggering angles of the negative group of three thyristors.
- Firing angle control potentiometer.
- Three 415: 100 Vat 1 Amp Transformer for rectification and 6VAC supply for Triggering.
- $\pm 12V$ at 500mA, IC Regulator Power Supply for Triggering Circuits.
- 5V at 500mA, IC Regulator Power Supply for Triggering Circuits.
- Six nos. Driver Circuits with Pulse Transformers.
- High Frequency Gated Dual Gate Firing 6 nos.
- R Load
- Digital AC Voltmeter 3 1/2 Digit Range 0-200V.
- Digital AC Current Ammeter 3 1/2 Digit Range 0-2Amp.
- Unearthed mains sockets for CRO.
- Adequate no. of other Electronic Components.
- Three Jewel light in red, Yellow and Blue Colour
- The unit is operative on 3 Phase 415V at 50HzA.C. Mains.
- Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.
- God Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- Weight : 12 Kg. (Approx.)
- Dimension : W 415 xH 165 xD 315 (mm)

LIST OF ACCESSORIES:

- Patch cord 4mm length 50cm Red & Black 22Nos.

OTHER APPARATUS REQUIRED:

- Dual trace CRO

Note: Specifications are subject to change.

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