



46708 Power Electronic Training Board has been designed specifically for the study of Three phase Full wave AC voltage controller drive with Triggering Circuit. Practical experience on this board carries great educative value for Science and Engineering Students.

Object

1. To study of Three phase Full wave AC voltage controller.

Features

The board consists of the following built-in parts:

1. Three Phase line commuted Full wave bridge converter.
2. Four pole Miniature Circuit Breaker (MCB) 0.5Amp.
3. 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. Angles of the negative group of three diodes.
4. Firing angle control potentiometer.
5. Three 415:50V at 0.2Amp transformer for rectifications & 6V AC supply for Triggering
6. $\pm 12V$ at 100mA, IC regulated Power Supply for Triggering Circuits.
7. Three nos. Driver Circuits with Pulse Transformers.
8. High Frequency Gated Dual Gate Firing 3 nos.
9. Three Phase Inbuilt Resistive Load.
10. Two $3\frac{1}{2}$ digital panel meter for measurement of AC voltage range 0-300V.
11. Adequate no. of other Electronic Components.
12. Three jewel lights.
13. The unit is operative on 3Phase 415VAC at 50Hz
14. Good Quality, reliable safety Shrouded sockets are provided at appropriate places on panel for connections/ observation of waveforms.
15. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
16. Weight : 7.300 Kg. (Approx.)
17. Dimension : W 415 x H 165 x D 315.

List of Accessories:

1. Patch cord 4 mm length 50cm Red...10
2. Patch cord 4 mm length 50cm Black.10

Other Apparatus Required:

1. Dual trace CRO 20MHz

Note: Specifications are subject to change.