



46706 Power Electronic Training Board has been designed specifically for the study of Three Phase Half wave converter 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 Half wave converter drive.

Features

The board consists of the following built-in parts:

1. Three Phase line commuted Half 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 230:165V at 0.5Amp transformer for rectifications & 6V AC supply for Triggering
6. $\pm 12V$ at 200mA, 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. DC Shunt Motor $\frac{1}{2}$ HP, 1500RPM.
10. Two $3\frac{1}{2}$ digital panel meter (DPM) for measurement of voltage.
11. Adequate no. of other Electronic Components.
12. Three jewel lights.
13. The unit is operative on 3Phase 415V at 50Hz A.C. Mains.
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 (Board) : 6 Kg. (Approx.)
17. Weight (Motor) : 19.00Kg
18. Dimensions : W 350 \times D 450 \times H 600

List of Accessories:

1. Shrouded Patch cord 4 mm length 50cm Red..... 09
2. Shrouded Patch cord 4 mm length 50cm Blk..... 09
3. Shrouded Patch cord 4mm length 100cm Red..... 02
4. Shrouded Patch cord 4mm length 100cm Blk..... 03
5. BNC Lead with 4mm Banana-Pin length100cm.....01

Other Apparatus Required:

- 01 Dual trace CRO 20MHz

Note: Specifications are subject to change.