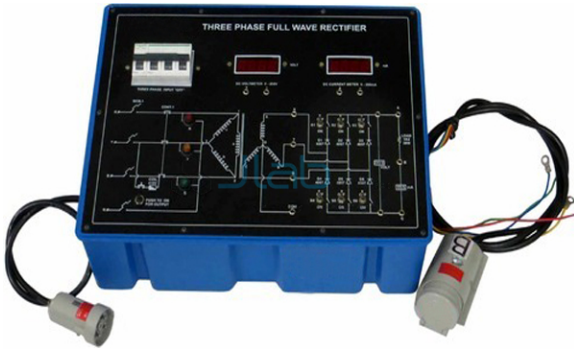


Product Code . JL-PET-1443

Three Phase Fully Controlled Thyristorized Bridge Converter



Description

Three Phase Fully Controlled Thyristorized Bridge Converter

- Power Electronic Training Board has been designed specifically for the study of Three Phase Fully Controlled Thyristorized Bridge Converter 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 Full-wave Controlled Rectifier
- To study the operation of a 3 phase Full-wave Controlled Bridge Rectifier with R load
- To study the operation of a 3 phase Full-wave Controlled Bridge Rectifier with R-L load
- To study the effect of Free Wheeling Diode on the output waveform

Features:

The board consists of the following built-in parts:

- Three Phase line commutated fully-controlled thyristorized bridge converter
- 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

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- Firing angle control potentiometer
 - Three 415 : 6 V Transformers AC supply for Triggering
 - Three 415 : 50 V at 1 Amp Transformer for rectification
 - $\pm 12V$ 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 and L load with Load voltage divider
 - Two 3½ digital panel meter (DPM) for measurement of voltage and current
 - One freewheel diode
 - Unearthed mains sockets for CRO
 - Adequate no. of other Electronic Components
 - Three Jewel light in red, Yellow and Blue Color
 - The unit is operative on 3-f 415V at 50Hz A.C. Mains
 - Adequate no. of patch cords stackable 4 mm spring loaded plug length ½ metre
 - Good 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:

- 15 Kg. (Approx.)

Dimension:

- W 445 x H 260 x D 470

Other Apparatus Required:

- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

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