

**Product Name :**  
Three Phase Half Controlled Thyristorized Bridge Converter

**Product Code :**  
NLAB-ELECTRONICSAB270001



**Description :**

Three Phase Half Controlled Thyristorized Bridge Converter

**Technical Specification :**

Three Phase Half Controlled Thyristorized Bridge Converter

To study the nature and generation of Control Signal for 3 phases half wave Controlled Rectifier

To study the operation of a 3f Half Wave controlled bridge rectifier with R load

To study the operation of a 3f Half Wave controlled bridge rectifier with R-L load

To study the effect of freewheeling diode on the output waveform

**Features:**

The board consists of the following built-in parts:

Three Phase line commuted half-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.

Firing angle control potentiometer.

Three 415:

6V transformers AC supply for Triggering.

Three 415:

50V at 1 Amp transformers for rectifications.

± 12V & +5V DC at 500mA, IC Regulator Power Supply for Triggering Circuits.

Three nos.

Driver Circuits with Pulse Transformers.

High Frequency Gated Dual Gate Firing 3 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.

The jewel light in Red, Blue & Yellow colour.

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 metres.

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.

## Naugralabequipments

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