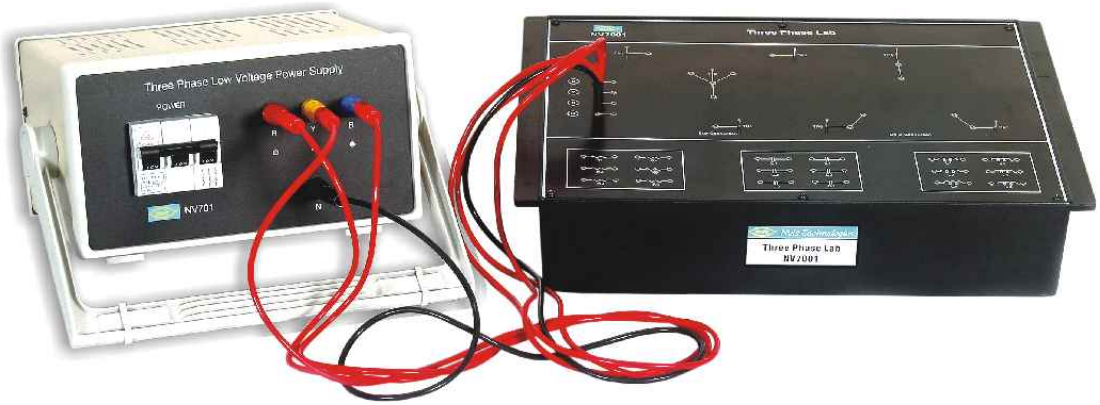
Nuis Technologies

NV7001

Three Phase Lab



The Three Phase Lab NV7001 with Three Phase Low Voltage Power Supply NV701 is an elite training system for the electrical laboratories. The NV701 is a three phase low voltage supply that provides 18 V of low voltage which is highly safe. This system is valuable in understanding the basic concepts of Three phase circuits like star-delta connections, their phase and line voltages, currents etc. Being different from the present scenario, this system is designed in such a way that a student can himself make connections of three phase circuits because all the experiments are performed on low voltage. The product is designed with keeping in mind that R, L, C combination can be connected in series as well as in parallel in Three Phase circuits.

- **Designed considering all the safety standards**
- **Hands on Practice**
- **Stand alone operation**
- **Test points are provided to measure line and phase parameters**
- **Provided with a detailed Operating manual**
- **Low cost training system**
- **2 Years Warranty**

Experiments that can be performed

- Study of Three phase low voltage power supply NV701
- Study of Three phase star connection
- Study of Three phase delta connection
- Study of Three phase circuits with balanced load
- Study of Three phase circuits with unbalanced load
- Three phase power measurement

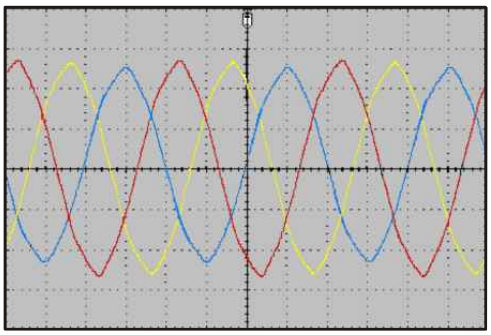
Technical Specifications

Three Phase Low Voltage Power Supply NV701

Input	:	Three Phase Mains (230 V Phase voltage, 415 Line voltage 50 Hz) ± 10%
Outputs	:	18 V Phase voltage, 28 V line voltage 50 Hz ± 10%
MCB (Power Switch)	:	Three Phase
Dimension (mm)	:	W 250 × D 235 × H 125

Three Phase Lab NV7001

Input	:	18 V each phase, 50 Hz ± 10%
Loads		
Resistors	:	1 K, 10 K, 100 K
Capacitors	:	10 uf, 100 uf and 1000 uf
Inductors	:	5 mH, 10 mH, 20 mH
Dimension (mm)	:	W 365 × D 265 × H 120



Three Phase Waveforms

Subject to change

Conceptual Study Boards (Optional) For NV7001 Three Phase Lab

EB01

Three Phase Supply Configuration Module

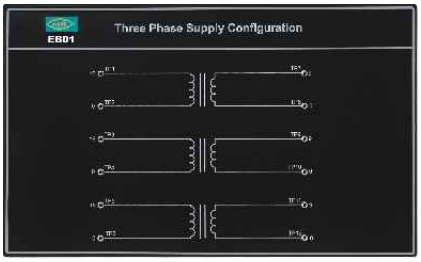
EB01 The Three Phase Supply Configuration module is useful in getting familiar with the Three phase supply configurations. It helps in understanding the working of three phase transformers and their different configurations in star and delta connections.

Experiment that can be performed

To understand Three phase power supply configurations

Technical Specifications

Input : 18 V each phase, 50 Hz ± 10%
Output : 9 V
Dimensions (mm) : W 250 × D 152 × H 43



EB02

Three Phase Rectifiers Module

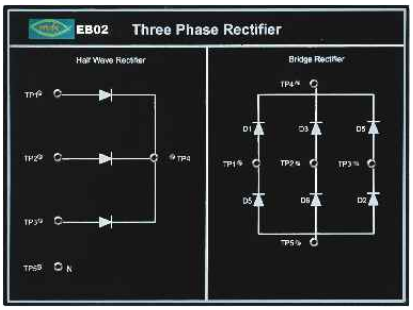
EB02 The Three Phase Rectifiers module is again a versatile module, helpful in understanding the concept of three phase rectifier operation. This module contains silicon diodes for the connections of Half wave and Full wave bridge rectifiers.

Experiment that can be performed

Study of three phase rectifiers

Technical Specifications

Input : 18 V each phase, 50 Hz ± 10%
Output : 18 V Rectified three phase
Dimensions (mm) : W 175 × D 130 × H 30



Subject to change

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