



Single Phase AC Motor Control Training System

Nvis 7015SF

New



Nvis 7015SF Single Phase AC Motor Control Training System is an exclusive and attractive training system for electrical laboratories. It provides complete learning on working of single phase capacitor start induction motor. Separate terminals have been provided for main winding, starting winding and capacitor so that students can understand the significance of individual windings along with the role of capacitor in the motor in a simple manner.

It includes phenomenon of excitation, running and reversing of the motor. All connections and appearance of panel are designed in a simple manner. Students can make connections by themselves.

Features

- Digital microcontroller based.
- Equipped with supply indication lamps.
- Control board consist of high grade FRP material to provide utmost safety to the users.
- Machine with class "F" insulation.
- Equipped with single phase DOL starter and AC drive.
- Machine with standard mechanical loading structure with rotor locking facility.
- High standard BS-10 terminal to avoid electrical shock.
- Brake-drum/pulley with heat suppression facility.
- Rust free power coated mechanical structure.
- Digital tachometer for speed measurement.



Scope of Learning

- Study running and reversing phenomenon of single phase induction motor.
- Study working of single phase induction motor using DOL starter.
- Study speed control of single phase induction motor using single phase AC drive configured through SCR based topology.
- Study of load test of single phase induction motor.

Technical Specifications

Mains supply : Single phase, 230V \pm 10%

Single phase induction motor

Type : Capacitor start

Rating : 1HP

Voltage rating : 220V

Speed : 1440 RPM \pm 5%

Insulation : Class 'B'

Loading arrangement : Mechanical

Brake drum/Pulley : Aluminum cast

DOL starter : 1HP, 230VAC

Single Phase AC drive

Topology : SCR based

Loading capacity : Upto 7A

Digital Meters

AC voltmeter : 450V

AC ammeter : 10A

MCB (SP) : 10A

Digital tachometer : 20,000 RPM