WSM-18

DC Compound Motor & Synchronous Generator Trainer

Experiment

- The construction of DC motor and winding resistance measurement.
- Starting method of shunt motor and speed control.
- Load characteristic experiment of shunt & compound & series motor.
- Efficiency measurement of shunt motor by loss separation method.
- Forward / reverse operation method of DC motor.
- Measuring of Structures and twisted wire resistances of Synchronizer.
- No-load and Short Testing of Three Phase Synchronous Generator.
- Load Testing of Three Phase Synchronous Generator.
- Starting Methods of Three Phase Synchronous Motor.

Specification

▣ Main Controller

- Main Voltage : 1 Phase 220~240V & 3 Phase 220V / 50/60Hz (380V / 415V - Selective)
- Switch(MCCB)
- DC Power Supply
- Field Resistor
- Synchronous Indicator
- 3 Phase Power Connector (External Power)
- Starter Block
- Exciter
- Start Push Button
- AC & DC Voltmeter
- AC & DC Amperemeter
- Digital Speed meter
- Frequency Meter

▣ Electric Machine

- DC Compound Motor
  - Input Voltage : DC 200V
  - Output : 360W(1/2Hp)
  - Pole Number : 2 Pole
  - Continuous rating : 1500 / 1800rpm
- Synchronous Generator
  - Input Voltage : 3 Phase 220V
  - Output : 360W(1/2Hp)
  - Pole Number : 4 Pole
  - Continuous rating : 1500 / 1800rpm

▣ Load Resistor

- Capacity : 0 ~ 420W

Accessory

- Experiment Manual : 1Copy
- Test Lead (Banana Plug) : 1Unit
- Power Cable : 1EA
- Dust Cover : 1Set

Option

- 3 Phase Digital Watt Meter : 1EA
- DC Power Supply : 1EA
  - 0 ~ 30V

* Product's design and appearance can be changed without any notice.