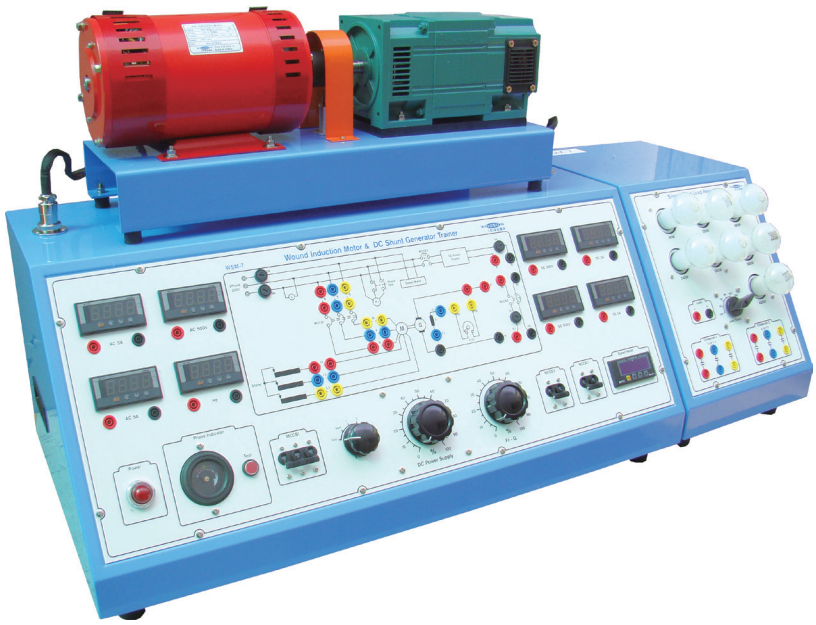
WSM-7

Wound Induction Motor & DC Shunt Generator Trainer



Experiment

- Construction of wire wound motor and measurement of winding resistance.
- Secondary resistance starting method of wire wound motor.
- Forward-reverse operation of wire wound motor.
- Non-load & load experiment of wire wound motor.
- Slip measurement of wire wound motor.
- Measurement the power factor of wire wound motor.
- The characteristic of rotor of wire wound motor.
- Construction and measurement of winding resistance of shunt generator.
- Non-load & load characteristic experiment of Shunt Generator.

Specification

▣ Main Controller

- Main Voltage : 3 Phase 220V / 50/60Hz (380V / 415V - Selective)
- Switch(MCCB)
- Field Resistor
- Phase Rotation Indicator
- Phase Test Switch
- Secondary resistance Starter
- AC & DC Voltmeter
- AC & DC Amperemeter
- Digital Speed meter
- Frequency Meter

▣ Electric Machine

- Wound Induction Motor
  - Input Voltage : 3 Phase 220V
  - Output : 360W(1/2Hp)
  - Pole Number : 4 Pole
  - Continuous rating : 1450~ / 1750rpm~
  - Wiring of rotor : Y connection
- DC Shunt Generator
  - Input Voltage : DC 200V
  - Output : 360W(1/2Hp)
  - Pole Number : 2 Pole
  - Continuous rating : 1500 / 1800rpm

▣ Load Resistor

- Capacity : 0 ~ 420W
- Condenser 1 : 2.2μF × 3EA
- Condenser 2 : 4.7μF × 3EA

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
- Analog Frequency Meter & DC Volt Meter : 1EA
  - 45 ~ 65Hz & mV