

DC COMPOUND MOTOR/GENERATOR

GENERAL DESCRIPTION

The db-tech DB-DM-9 is DC Compound motor & DC Compound Generator is a device that converts mechanical energy to electrical energy. A compound DC generator is one in which the series flux and shunt flux cumulatively add as the load increase. In this device the DC compound motor & DC compound generator are cementationed face to face.



Specification

Experiment:

- The construction of DC motor and winding resistance Measurement.
- Starting method of shunt motor and speed control.
- Non-load characteristic experiment of shunt generator.
- Load characteristic experiment of the shunt generator.
- Load characteristic experiment of the compound Generator.
- Load characteristic experiment of shunt motor.
- Load characteristic experiment of series motor.
- Load characteristic experiment of compound motor.
- Efficiency measurement of shunt motor by loss separation method.
- Forward-and-reverse operation method of DC motor

Control Board:

1. Power : 1ΦAC, 220V, 50Hz
2. DC Voltage Meter : 2 EA
3. DC Ampere Meter : 4 EA
4. Power Lamp : 1 EA
5. MCCB : 4 EA
6. Auto Starter : 1 Set
7. Excitation Power : 1 Set
8. 100W Coil Formers VR : 1 EA
9. 200W Coil Formers VR : 1 EA
10. Digital Speed Meter : 1 Set
11. Speed Detector : 1 EA
12. DC Power Supply : 1 Set
13. Electric Machine Assembly : 1 Set
14. Style : Steel, Portable Type

Electric Machine:

1. DC Compound Motor : 1 Set
2. Voltage : DC 200V
3. Output : 360Watt(1/2HP)
4. Number of Pole : 2 Poles
5. Excitation Type : Compound
6. Rating Speed Counter : 1800rpm(1500rpm)
7. Style : Semi-enclosed Type
8. DC Compound Generator : 1 Set
9. Voltage : DC 200V
10. Output : 360Watt(1/2HP)
11. Number of Pole : 2 Poles
12. Excitation Type : Compound(Series, Shunt)
13. Rating Speed Counter : 1800rpm(1500rpm)
- Style : Semi-enclosed Type