



AC/DC ELECTRICAL MACHINES

RG 298

Description:

AC electro motors run through alternating electric current and are composed of a structure of a stator and rotor. These electro motors convert electrical power to mechanical power, rotary or reciprocating motion. Stators in DC electro motors are supplied from a external power supply which results in a current in the stator that produces a uniform electromagnetic field under the poles. The armature on the other hand is also supplied by an external power supply or the stator itself. This produces an electromagnetic field too. The interaction between the stator and armature fields creates a rotation which can then be converted to mechanical power. This training set has the capability of comprehensive training in relation to this type of machines. In this set, a three-phase asynchronous motor and a synchronous generator are coupled together. The three-phase asynchronous motor is controlled by the inverter. This equipment is based on the latest educational standard of the Ministry of Science and Technical and Vocational Universities, the unit includes the main panel, moving motor and rail for coupling the machines.

Specifications:

- Winding rotor asynchronous motor
- Squirrel-cage asynchronous rotor
- Chassis and coupling rail
- AC Measurement device
- Signal light, RCCB, miniature fuse
- Constant 3-phase output
- Variable voltage power supply for excitation current
- DC Power supply
- Digital tachometer with sensor
- Synchronous motor set
- Variable rheostat and three-phase rheostat
- Three-phase continuously variable resistive load
- Three-phase variable step capacitive load (14 steps)
- Continuously variable three-phase inductive load
- Drive
- Auto transformer
- Torque meter
- DC Machine
- DC measurement devices
- Control Panel
- Wheeled metal structure with electrostatic paint and MDF top
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

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Applications:

1. Familiarity with the operation of AC motors
2. unloaded experiment
3. Short circuit test
4. Synchronous generator loading test by resistive load
5. Synchronous generator loading test by inductive load
6. Familiarity with the operation of DC motors
7. DC motors speed control
8. Series DC motor loading test

Required For Operation:

- 3-Phase 25 A Electricity
- Relative Humidity: 15% - 80%



Dimensions (L*W*H) mm:1300x 800 x 1500