

Product Name :
Advanced 3000W Machine Trainer for Electrical Lab

Product Code :
ADM-026-NE



Description :

Advanced 3000W Machine Trainer for Electrical Lab for Electric Motors Teaching Labs - Electrical Machine Trainer is a CKD (Complete Knocked Down) kit for building various types of machines. It is useful for construction of 23 types of different Electrical Machines. It is useful in giving student confidence & understanding constructional details & functional characteristics of electrical machines. The experience achieved by students, by themselves assembling various components viz, Armature, Stator, Slipring, Carbon, Rocker, Shaft, Pulley, Belt, Dial,...Assembling all components, Fitting & tightening, Connecting with Panel & Starting the system with desired results--this gets confidence in students & the feel of Industrial products.

Machine Trainer:

Specification of 1HP Electric Machine trainer is given ahead. Electric Machine Trainer is suitable for demonstrating the construction & working of DC Motor/DC Generator (Shunt, series & compound) with Interpole, Single phase capacitor run motor, 3Phase Induction motor, (Sq. cage & Slipring), AC Alternator (Single/Three Phase), Single phase universal & repulsion motor, AC Synchronous Generator. Set will be provided with metering panel, power supply panel, for 3Phase & Single phase supply, DC Rectifier panel for DC Motor & DC/AC Single phase variable supply source complete with common base frame & friction bracket dynamometer. Rating of DC Prime mover will be 1HP, 220V, 3000RPM, & other rating will be according to requirement.

Assemblies:

1) DC MACHINES

- DC Shunt motor without Interpole
- DC Shunt motor with Interpole
- DC Series motor without Interpole
- DC Series motor with Interpole
- DC Compound motor without Interpole
- DC Compound motor with Interpole

- DC Shunt Generator without Interpole
 - DC Shunt Generator with Interpole
 - DC Series Generator without Interpole
 - DC Series Generator with Interpole
 - DC Compound Generator without Interpole
 - DC Compound Generator with Interpole
 - DC Separately excited Generator without Interpole
 - DC Separately excited Generator with Interpole
- 2) AC MACHINES (Single Phase)
- Single Phase 4 Pole, Induction motor Capacitor Start/Run.
 - Single Phase AC Series motor.
 - Single Phase AC Generator Rotating Field
 - Single Phase AC Generator Rotating Armature.
 - Single Phase Universal motor.
- 3) AC MACHINES (Three Phase)
- AC 3 Phase Induction motor Squirrel cage type.
 - AC 3 Phase Induction motor Slipring type.
 - AC 3 Phase Generator Rotating field type.
 - AC 3 Phase Generator Rotating Armature type.
 - AC 3 Phase Synchronous Generator Rotating field type

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