WSM-5

Electric Machine Structure Trainer



Introduction

- This trainer is designed for studying structure of a motor & generator.
- This trainer has each assemble part such as a rotor, magnetic pole and brush.
- It is possible to make and operate a motor and generator directly.
- It consists of several type electric machine.
- Permanent magnet and field coil DC
- Generator, rotary field type and rotary type
- Generator, rotary converter and generator, permanent
- Magnet &DC motor, synchronous motor &3 phase induction motor
- Shading coil type 1 phase induction motor

Experiment

Generator

- The Principle of Generator.
- DC Generator by Permanent Magnet
- Rotation Magnetic Field type Single Phase AC Generator
- Rotary Armature type Generator

Motor

- DC Motor by Permanent Magnet
- Shunt motor
- AC Commutator motor
- Squirrel Cage Induction motor
- Repulsion motor
- Shading Coil motor

- AC Generator by Permanent Magnet
- DC Generator by Magnetic Field Winding
- The Three phase Generator
- Rotary Converter
- Series Motor by Magnetic Field Winding
- Compound motor
- Rotor Field
- Pole-number Alteration motor
- Resistor Motor (Spilt-Phase Motor)

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

WSM-5

Electric Machine Structure Trainer

Specification

- Main Voltage: 1 Phase 220~240V / 50/60Hz
- Working Table
- Working Frame
- 3 Step
- 220 ~ 240V Output Socket
- Module Storage Cabinet : 1EA

■ Experiment Module

- WSM5-01 Low Voltage Supply Module
- WSM5-03 AC Electric Machine Yoke Module
- WSM5-05 Field Resistor Module
- WSM7-07 Three Phase Load Module
- WSM5-09
 Driving Motor Module
- WSM5-11 DC Ampere Meter Module
- WSM5-13DC Volt Meter Module

- WSM5-02DC Electric Machine Yoke Module
- WSM5-04 Starting Resistor Module
- WSM5-06 DC Load Module
- WSM5-08 Pole-Changing Switch Module
- WSM5-10 AC Ampere Meter Module
- WSM5-12AC Volt Meter Module
- WSM5-14 Analog DC Volt Meter Module

■ Graphic Panel

WSM5-M1DC Electric Machine



WSM5-M2Compound Motor



■ WSM5-M3
Phase Splitting Motor



■ WSM5-M4
Repulsion Motor



■ WSM5-M5
Three Phase Motor



WSM5-M6Pole Changing Motor



■ WSM5-M7 Rotary Converter Motor



03

WSM-5

Electric Machine Structure Trainer



[Assemble Part]

■ Electric Machine Assemble Part

- WSM5-101 Rotor with Copper Wire
- WSM5-103 2 Pole Rotor
- WSM5-105 Wound Rotor
- WSM5-107 Compass (Rotor Indicator)
- WSM5-109 Wide Magnetic Pole
- WSM5-111 Narrow Magnetic Pole with Support
- WSM5-113 Field Winding (300Turn)
- WSM5-115 Field Winding (1700Turn)
- WSM5-117 Brush
- WSM5-119 Plug Type Condenser B
- WSM5-121 Axis of Rotor
- WSM5-123 T Type Wrench
- WSM5-125 Insulation Rotor
- WSM5-127 Brush Holder Bolt

- WSM5-102 3 Pole Rotor
- WSM5-104 Squirrel Cage Rotor
- WSM5-106 Flat Type Copper Wire
- WSM5-108 (Circle) Permanent Magnet
- WSM5-110 Wide Magnetic Pole with Support
- WSM5-112 Polarization Magnetic Pole
- WSM5-114 Field Winding (700Turn)
- WSM5-116 Brush Holder
- WSM5-118 Plug Type Condenser A
- WSM5-120 Bulb (6V)
- WSM5-122 Bolt
- WSM5-124 Belt
- WSM5-126 Spanner

Accessory

■ Experiment Manual: 1 Copy

■ Power Cable : 1 Unit

■ Test Lead (Banana Plug): 1 Set

■ Dust Cover: 1 Set

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