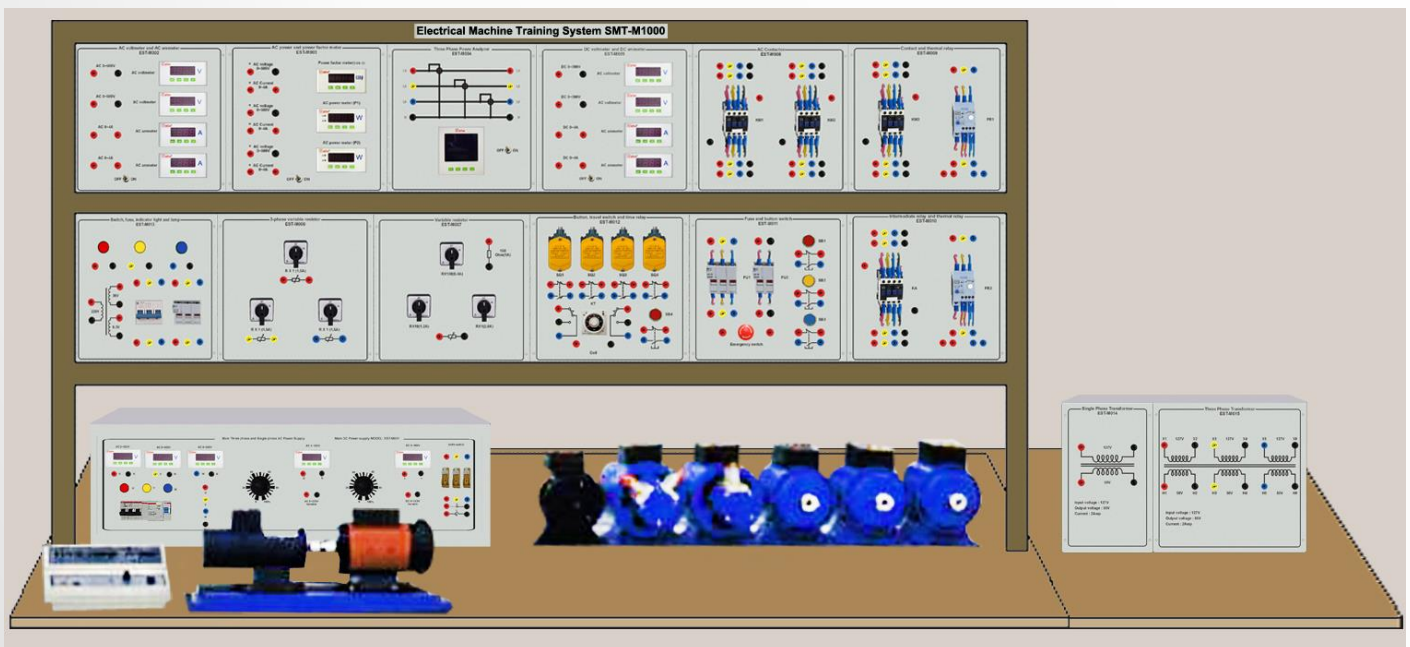


ELECTRICAL MACHINES TRAINING SYSTEM SMT-MACDC01

Motor, Electric Traction & Electrical Control Trainer



ELECTRICAL MACHINES TRAINING SYSTEM SMT- MACDC01

Electrical motor, Electric Traction & Electrical Control Trainer is a most advance modular electrical, electric traction and motor drive engineering trainer, with speed, torque, power and work regulation and measurement instruments, for training of “ Electric Technology Basic” and “Electric Motor Control Circuit”, in various technical and vocational schools, colleges and poly technics.

ELECTRICAL POWER ENGINEERING

- Measuring the feature of DC generator.
- Measuring the feature of separately excited DC motor.
- Speed regulation characteristic research of separately excited DC motor.
- Measuring series excitation, compound excitation DC motor mechanical features.
- Researching single phase transformer operating characteristic.
- Single phase transformer parallel operation.
- Three phase transformer link recognition and connect line.
- The working performance research of three quirrel cage asynchronous motor.
- Measuring the mechanical features of three quirrel cage asynchronous motor.
- Operating characteristic research of three phase wound rotor motor.
- Operating characteristic research of capacitor split-phase single phase asynchronous motor.
- Operating characteristic research of three phase synchronous motor.
- Three phase asynchronous motor reversible control circuit.
- Working station automatic go and back cycle control circuit.
- Three phase synchronous motor sequential control circuit.
- The $Y-\Delta$ control circuit of three phase synchronous motor.
- Three phase synchronous motor dynamic braking circuit.
- Three phase wound rotor type synchronous motor starting and control circuit.

No.	Component	description	Quantity
1	Work station	1600mm×800mm×1550mm	1
2	Three phase power supply switch panel	Include voltage indication、 power turn-on display、 overload and leakage protection etc	1
3	Three phase isolation transformer	500VA×3	3
4	AC three phase adjustable power supply	500VA×3	1
5	AC single adjustable power supply	500VA	1
6	DC adjustable power supply	DC 0V~175V, 5A	1
7	Digital AC voltmeter	0—500V	2
8	Digital AC ammeter	0—3A	2
9	Digital DC voltmeter	0—300V	2
10	Digital DC ammeter	0—3A	2
11	Digital AC watt meter		2
12	Digital power factor meter		1
13	DC permanent-magnet tacho-generator	Output voltage 36V; 1500 r/min ; $\Delta < 0.5\%$	1
14	permanent-magnet dynamometer DC	110V/2.8A ; 250W; 1500 r/min	1
15	precise guideway		1

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16	Rotating speed、torque、mechanical torsionmeter	Red, green, yellow	1
17	adjustable resistor		1
18	variable resistor	0→30Ω; 1.8A	3
19	resistor	100Ω, 100W	2
20	single phase winding core type transformer	100VA	1
21	single phase transformer (Type R)	200VA	1
22	three phase winding core type transformer	150VA	1
23	DC compound generator	110V/1.1A; 120W; 1000r/min	1
24	separately excited DC servomotor	110V/1.25A; 120W; 1000r/min	1
25	DC cumulative compound generator	110V/1.58A; 120W; 1000 r/min	1
26	Three phasesquirrel cage asynchronous motor	150W; 1400 r/min; 220V/Δ	1
27	Three phase wound rotor type asynchronous motor	120W; 1380 r/min; 220V/Y	1
28	Three phase double speed asynchronous motor	220V; 120W/90W; 2800 /1400 r/min ; 2Y/Δ	1
29	single phase capacitor asynchronous motor	220V; 120W ; 1400 r/min	1
30	Three phase synchronous machine	220V; 90W; 1500 r/min $U_{FN}=10V$ $I_{FN}=0.8A$	1
31	Control circuit apparatus: include contactor, intermediate relay, time relay, fuse, thermorelay, push button, ravel switch etc. 20 units		

Technical parameters

Power supply: AC 380V±10%, 50Hz

Dimension: 1650×800×1650mm

Capacity: 1.5KVA