



Motor and Electrical Technology Trainer

Equipment Overview

- This trainer covers technologies such as 'Electromechanics', 'Electrical Machine and Drive', 'Small and Special Electric Machine', 'Motor Control', 'Relay Touch Control', 'Electrical Control' and so on, which is suitable for school motor and electrical technology training.
- The instrument and meters, dedicated power supply, motors and experimental components are connected by dedicated wires with removable bases, easy to extend for new functions.
- Internal and external voltage/current leakage protection device to ensure the short circuit protection function of each power output.
- All the motors are specially designed, with characteristics of power saving, energy saving, low noise, etc. Each power output is designed with monitoring and short-circuit protection function.



Training Content

- DC generator
- DC shunt motor
- DC series motor
- Single phase transformer
- Three phase transformer
- Three phase transformer connect group and asymmetric short circuit
- Three phase three-winding transformer
- Single phase transformer parallel running
- Three phase asynchronous motor start and speed regulation
- Double speed asynchronous motor
- Three phase asynchronous generator
- Running characteristic of three phase synchronous generator
- Grid-connected operation of three phase synchronous generator
- Three phase synchronous generator
- Parametric measurement of three phase synchronous generator
- Stepper motor experiment
- Inching control circuit of contactor

Note :
Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!

- Inching control and self-lock circuit
- Positive-negative rotation interlocking circuit of contactor
- Positive-negative rotation interlocking circuit of button
- Dual positive-negative rotation interlocking circuit of button and contactor
- Starting sequential control circuit (I)
- Starting sequential control circuit (II)
- Stopping sequential control circuit
- Remote and local control circuit
- Manual contactor controlled series resistor reduction voltage starting circuit
- Time relay controlled series resistor reduction voltage starting circuit
- Contactor controlled Y-Δ reduction voltage starting circuit
- Time relay controlled Y-Δ reduction voltage starting circuit
- Energy consumption braking control circuit of asynchronous motor
- C620 lathe electrical control

Technical Parameters

1. Input power supply: AC 380V $\pm 10\%$, 50Hz
2. Input power: <1.5KVA
3. Packing weight: 285kgs (approx.)
4. Dimension: 1600mm×730mm×1650mm (approx.)
5. Personal safety protection: Current mode leakage protection, voltage mode leakage protection,



DJ-01 adjustable resistor module (I)



- (1) 100Ω /1.5A resistor (3pcs)
- (2) Fuse protector (3pcs)
- (3) 11-step adjustable rotary knob (3pcs)
- (4) Safety connecting socket (red/black/green) (3pcs)
- (5) Iron cover with carrying handles
- (6) Dimension: 490mm×150mm×95mm

DJ-02 adjustable resistor module (II)Module



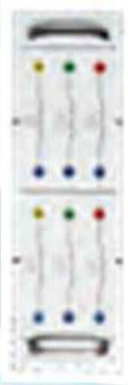
- (1) 1kΩ /0.15A resistor (3pcs)
- (2) Fuse protector (3pcs)
- (3) 11-step adjustable rotary knob (3pcs)
- (4) Safety connecting socket (red/black/green) (3pcs)
- (5) Iron cover with carrying handles
- (6) Dimension: 490mm×150mm×95mm

DJ-03 three phase synchronizing meter module



- (1) Power grid line voltage 220V related sockets
- (2) Generator line voltage 220V related sockets
- (3) OFF-ON toggle switch
- (4) Three phase switch and related sockets
- (5) Three phase synchronizing meter: 100V, available for Hz/S/V pointer indication
- (6) Iron cover with carrying handles
- (7) Dimension: 490mm×150mm×95mm

DJ-04 three phase group transformer module



- (1) Three groups of single phase transformer: primary 220V/0.35A, secondary 55V/1.4A
- (2) Two groups of x/y/z sockets
- (3) Two groups of A/B/C sockets
- (4) Iron cover with carrying handles
- (5) Dimension: 490mm×150mm×95mm

DJ-05 rotary lamp, grid-connected switch module



- (1) Rotary lamp: green/red/yellow 2 each
- (2) Connecting sockets: green/red/yellow 2 each
- (3) Close button: green
- (4) Open button: red
- (5) Three groups of connecting sockets for grid-connected switch
- (6) Iron cover with carrying handles
- (7) Dimension: 490mm×150mm×95mm

DT-01 electrical relay control module (I)



- (1) AC220V contactor (2pcs)
- (2) Time relay (2pcs): 10s delay
- (3) 220V button indicator (2pcs): red
- (4) 220V button indicator (2pcs): green
- (5) Travel switch (4pcs)
- (6) Plastic cover with carrying handles
- (7) Dimension: 490mm×300mm×100mm

DT-02 electrical relay control module (II)



- (1) AC220V contactor (4pcs)
- (2) Three phase switch: OFF-ON
- (3) Bridge rectifier unit
- (4) Thermal relay unit(2pcs)
- (5) Fuse protector (2pcs)
- (6) Limiting resistor unit
- (7) Indicator light unit
- (8) Control transformer unit
- (9) Plastic cover with carrying handles
- (10) Dimension: 490mm×300mm×100mm

Power supply and indication module

Stepper motor and driver control module

Digital measuring instrument module

DC excited motor

DC excited generator

Three phase synchronous motor

Three phase squirrel cage asynchronous motor

Three phase double speed asynchronous motor

Three phase wound rotor type asynchronous motor

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