



Electrical Installation and Maintenance Trainer

Distribution Box



Electrical Control Box



Sensor Unit



Motor Unit



Motion Control Unit



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



Equipment Overview

- Electrical installation and maintenance trainer is a common training platform that is developed to meet the maintenance electrician and electrical installer skills training requirements.
- It is made of steel meshed plate and steel dedicated sectional material and equipped with self-locking truckles, which is convenient for moving and usage. The surface of trainer is plastics sprayed, the design height is convenient for operation that students can feel the environment of construction site by standing on level 1 of the ladder, which is safe and effective.
- The meshed plate can be stripped easily, the steel dedicated sectional material is designed with pipe hole that by using ribbon can fix the wire and pipe fixed on it. Equipped with PVC pipe bender, the PVC pipe can be bent into 90°.
- It covers training content such as cable tray installation , PVC pipe installation , droplight, incandescent seat, fluorescent lamp, switches, sockets, distribution box, control box installation, etc. The control and controlled plant adopted for this trainer including AC asynchronous motor, DC motor, stepper motor, servo motor, temperature controller, galvanic couple, PLC, frequency converter, touch screen and so on. Each operation group is equipped with movable tool car and component cabinet, which is convenient for component storage and construction.
- Safety protections: grounded, lead protection, safety in accordance with related standards. Overcurrent, overload, earth leakage protection function.

Technical Parameters

1. Input Voltage: Three-phase five-wire, AC 380V/220V $\pm 7.5\%$, 50Hz
2. Working environment: Insulated floor or carpet
3. Training device main meshed plate size: 798mm $\times$ 768mm
4. Training device dimensions: 2006mm $\times$ 1003mm $\times$ 2410mm
5. Training device material: Steel plate, thickness ≥ 1.5 mm
6. Maximum power consumption: ≤ 1.5 KW

Training Content

- Meter box installation
 - Distribution box installation
 - Fluorescent lamp installation
 - Incandescent light installation
 - Ceiling lamp installation
 - Energy saving lamp installation
 - High pressure sodium lamp installation
 - PVC pipe processing and layout
 - PVC pipe threading
 - Switch and socket installation
 - Junction box installation
 - Line distribution design
 - Construction specifications learning and training
 - Construction safety requirements learning and training
 - Remote and local control of one lamp
 - Trunking wiring construction training
 - Concealed work construction training
 - Disconnecting switch installation
 - Distribution line wiring training
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- 1). Metal bridge combination and installation training
 - 2). Plastic trunking laying training
 - 3). Metal line pipe laying training
 - Electrical control box installation
 - Electrical control circuit installation training
 - 1). Three phase asynchronous motor direct starting, parking control circuit connection
 - 2). Contactor interlocked three-phase AC asynchronous motor forward and reverse control circuit connection
 - 3). Button interlocked three-phase AC asynchronous motor forward and reverse control circuit connection
 - 4). Button, contactor interlocked three-phase AC asynchronous motor forward and reverse control circuit connection
 - 5). Three-phase AC asynchronous motor Y- Δ (manual switch) starting control circuit connection
 - 6). Three-phase AC asynchronous motor Y- Δ (time relay switch) starting control circuit connection
 - 7). Stator winding series resistance starting control circuit connection
 - 8). Three-phase AC asynchronous motor energy consumption braking control circuit connection
 - 9). Three-phase AC asynchronous motor reverse braking control circuit connection
 - 10). Motor sequential control circuit connection (Qty ≤ 3)
 - 11). Motor round trip control circuit connection
 - 12). Center lathe control circuit connection
 - 13). Electric block control circuit connection
 - 14). Three-phase AC asynchronous motor inching and continuous rotation control circuit connection
 - 15). Remote and local control circuit connection
 - 16). Button switched double speed motor speed control circuit connection
 - 17). Time relay switched double speed motor speed control circuit connection
 - 18). Centrifugal switch coupled reverse braking control circuit connection
 - Frequency converter panel function parameter setting and operation training
 - Motor inching control, start and stop control of frequency converter
 - Motor speed multistratum control
 - Power frequency, variable frequency switching control
 - Analog quantity control based motor open loop speed regulation
 - Panel operation based motor open loop speed regulation
 - Frequency converter protection and warning function training
 - PLC based frequency converter open loop speed regulation
 - PLC controlled motor sequential starting
 - PLC controlled three-phase asynchronous motor Y- Δ starting circuit
 - Touch screen, PLC, frequency converter comprehensive training
 - Two phase hybrid stepping motor control
 - AC servo motor control