

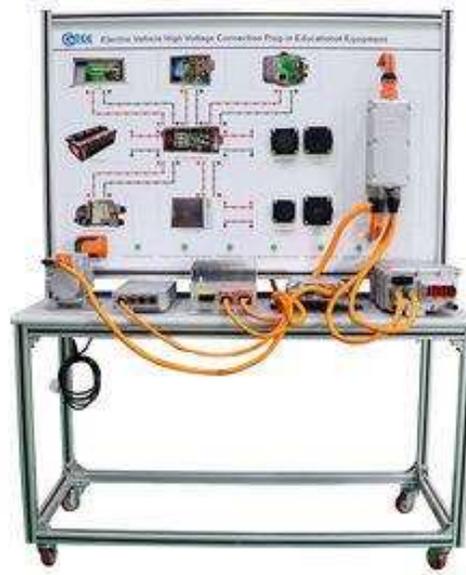
## Electrical Wiring Trainer Board

Model: LT- ED22

Brand: L-TEK

Country of origin China

Assembly by LabTech



### Description:

The Electrical Wiring Trainer Board should consist of below:

Electrical Training System: Provide available electrical components and interconnect in different configurations.

Acquire the basic knowledge on electrical engineering, installations and electrical measurements.

Study the means to check the main laws and principles.

Component symbols and electrical diagrams are represented on the front panel.

The symbols and electrical diagrams of each component are clearly represented on the front panel.

The connections are eased by 4mm terminals and cables of different colors. The power supplies are included with extra low safety voltage.

General switch, fuse and signaling lamp:

Safety single-phase transformer 115-230V/ 6-12-24 VAC-1 A

Fuse-holder with fuse type 6×30-1A

Moving iron ammeter with range: 0.5-1A Moving

iron voltmeter with range: 25 V

Resistors of different values (2, 4, 8, 16, 31.5, 63, 250, 500, 1000, 2000) linear rheostat 100/25W

Diodes 6A-100V

Lamp-holder with 24-V signaling lamp 24-Vac buzzer

Electrolytic capacitor, 100 F25Vdc Electrolytic capacitors, 500 F25Vdc Inductances 60 mH 0.5 A

Electrical Sequence Trainer: Hands-on electrical sequence practices using various electrical components with electric contact. Simulates real life components and power source that is being

used in the field Ensures safety using insulated connection cables and insulated connection terminals

**Experimental Contents:**

Basic circuit Logic circuit

Self-holding circuit Timer circuit Priority circuit Detection circuit

Lamp and alarm circuit Motor

operational circuit Reactor-driving

circuit Jog circuit

Forward & reverse circuit Delay operation circuit Time activation circuit

Y- $\Delta$  operational circuit

Earth leakage circuit breaker (ELCB): 1 Nos Rated

voltage: AC 220V 60Hz

Rated current: 30A

Rated residual current: 30mA Electronic

contactor (5a2b): 3 Nos

Contact capacity: AC 240V/18A / 4.5kW Auxiliary

contact capacity: AC 240V 3A Electronic overload relay

(EOCR, 1/2HP): 1 Nos Internal CT (sensor): 3-CT

(tunnel type)

Current setting: 0.3 ~ 1.5A Trip time

setting: 0 ~ 30 sec.

Contact capacity: AC 250V 3A (Resistive load) Relay (4C):2 Nos

Contact capacity: AC 220V 3A (Resistive load) Timer (30 seconds): 1Nos

Operational method: ON delay

Output contact capacity: AC 220V 1.5A (Resistive load) Flicker timer (6 seconds): 1 Nos

Operational method: ON Start

Output contact capacity: AC 220V 2.5A (Resistive load) 3-phase induction motor: 1 Nos

Operating voltage: 3-phase AC 220V / 380V / 25W

Type of motor: Squirrel cage rotor, 4-pole and Y- $\Delta$  Starting Rotary disc: Rotational speed detection type

Electronic brake: Intensity control function Proximity sensor: 1Nos

Digital counter: 1Nos

DC power supply: 1ea Output: DC 24V 1A (fuse) Lamp: 4 Nos

Buzzer: 1 Nos Push button: 4 Nos

Toggle switch (1a1b): 2 Nos Fuse and fuse holder: 2 Nos Supports angle adjustment: 1 Nos

**STANDARD ACCESSORIES:**

Power cord: 1Nos

4 $\emptyset$  insulated connection cable: 1set

User's guide & experimental manual: 1set



Digital Multifunctional Meter:

Showing electrical wiring tips on the LCD screen User-defined backlight setting (10/20/30 sec.)

±0.2% precision

Fast and accurate response rate Effective measurement of RMS values

Indication of a measured data in the minimum, maximum and average values Earth resistance measurement in two points and three points

Automatic Power OFF function

Bluetooth communication

Displays the connection of reed wires AUTO/MANUAL range selection

Initiation of calibration by pressing a key button ACV: 0.0-750.0V True RMS

DCV: 0.0-999.9V

Insulation resistance (MEG  $\Omega$ ):

DC 1000V: 0.00M $\Omega$  ~ 9.99M $\Omega$ , 10.00M $\Omega$  ~ 99.99M $\Omega$ ,

