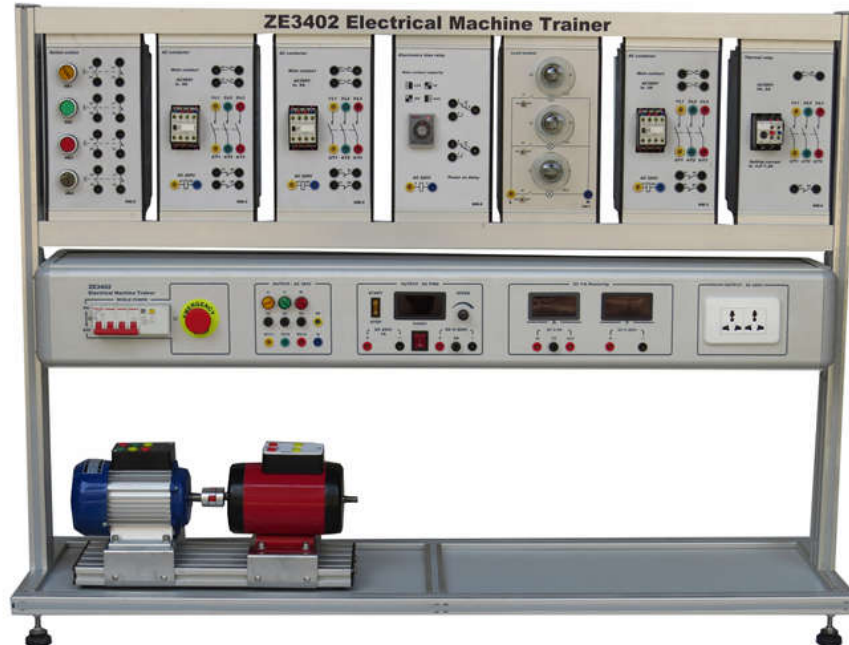




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Jinan Should Shine Import And Export Co., Ltd.

ZE3402 Electrical Machine Trainer



I, Product overview

1.1 Overview

The training device includes various types of inductive motors and industrial control components. Through relevant experiments, the operating characteristics of DC motors and three-phase asynchronous motors can be familiarized, the control principles and control methods are mastered, and the corresponding knowledge and skills of students are cultivated. It is suitable for the teaching and skills training assessment of higher vocational colleges, junior colleges, secondary vocational schools and technical schools.

1.2 Features

- (1) The training platform adopts aluminum profile column frame structure, with cushion on the bottom, measuring instrument and training power supply built-in integrated installation, easy to use and not easy to damage.
- (2) The motor is fully equipped and can be used in combination to complete the training content of various courses.
- (3) The training platform has a good security protection system.



II. Technical parameters

- (1) Input power: three-phase five-wire system 380V±10% 60Hz
- (2) Dimensions: 1600mm × 400mm × 1200mm
- (3) Machine capacity: <1.5KVA
- (4) Weight: <150kg
- (5) Working conditions: ambient temperature -10 ° C ~ +40 ° C Relative humidity <85% (25 ° C)

III. Product composition

3.1 Power Control Screen

The power control panel adopts an aluminum alloy profile panel, and the closed box structure is integrated with the lower placement frame.

3.2 Power Control Screen Configuration

- (1) Three-phase five-wire power input, controlled by leakage circuit breaker, with emergency stop control button. In emergency, press the emergency stop button breaker to cut off the power.
- (2) It is equipped with a power indicator, a power outlet, and a safety power output terminal.
- (3) Configure the AC motor special protection switch, built-in AC power supply, with short circuit protection.
- (4) Built-in AC power supply with short circuit protection.

3.4 Companion devices

- (1) One DC shunt motor
- (2) 1 set of three-phase asynchronous motor
- (3) Time relay control unit
- (4) Thermal delay overcurrent relay control unit
- (5) Contactor interlock circuit control unit
- (6) Button module
- (7) DC voltage measurement module
- (8) AC voltage measurement module
- (9) DC current measurement module
- (10) AC current measurement module



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IV. Experiment list

4.1 Three-phase squirrel cage asynchronous motor related experiments

- (1) Principles of three-phase asynchronous motor
- (2) Static test of three-phase asynchronous motor
- (3) Operation test of three-phase asynchronous motor
- (4) Forward and reverse conversion control of three-phase asynchronous motor
- (5) Star-delta start control of three-phase asynchronous motor
- (6) Thermal delay overcurrent relay control of three-phase asynchronous motor
- (7) Time relay controls the delay start and delay stop of the three-phase asynchronous motor

4.2 Mutual excitation DC generator related experiments

- (1) Motion function and transmission group test
- (2) Static test of motor technical parameters
- (3) Motor control circuit connection and function
- (4) Technical test of sports function