Product Name: Product Code: CIVIL-ETE-52-0009 Electric Motor and Transformer Comprehensive Experimental Device **Description:** Electric Motor and Transformer Comprehensive Experimental Device **Technical Specification:** Technical parameters of the electric motor and transformer comprehensive experimental device Total dimension: 1950×700×1500mm Input power: three-phase, five-wire 380V±10% 50Hz/60Hz Output power: AC 380V Adjustable power safety terminal output AC 220V Safety terminal isolation output AC 24V Safety terminal isolation output DC 220V Safety terminal isolation output Capacity: < 1.5KVA Experiment project of the electric motor and transformer comprehensive experimental device 1. DC motor experiment a) DC generator b) DC shunt motor

c) DC motor start: series resistance start, reduction voltage start

d) The method of DC motor change veer

1/2

e) DC motor speed regulation characteristic experiment: change the armature loop in resistance, excitation circuit in a resistance, to reduce the armature voltage

2. Single-phase transformer experiment

- a), Single-phase transformer variable ratio K
- b), Single-phase transformer no-load experiment, acquisition of transformer no-load data IO, PO and UO.
- c), Single-phase transformer short-circuit experiment, acquisition of transformer short-circuit data UK, IK and RK.
- d), Single-phase transformer load experiment, acquisition of transformer load data UZ = f (IZ).

3. Three-phase transformer experiment

- a), Three-phase transformer winding polarity measurement
- b), Three-phase transformer coupling group measurement

4. Asynchronous motor experiment

- a), Three-phase winding asynchronous motor stator resistance test
- b), Three phase asynchronous motor no-load experiment: acquisition of no-load voltage U0, current I0, three-phase power P0, draw no load characteristic curve
- c), Three phase asynchronous motor short circuit experiment: acquisition shorted UK voltage, current IK, power PK, draw short circuit characteristic curve
- d), Calculate three phase asynchronous motor parameter
- e), Mechanical properties of three phase asynchronous motor in various operating conditions

Civil Mechanical India

Website: www.civilmechanicalindia.com, Email: export@civilmechanicalindia.com
Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, Phone: +91-0171-2643080, +91-0171-2601773