



Description:

The Induction Motor Test Bench is a comprehensive, heavy-duty educational and research platform designed for the performance testing of three-phase squirrel cage induction motors. Equipped with a Variable Frequency Drive (VFD) and a full starter panel, this test bench enables precise speed control, torque measurement, and complete performance characterisation in accordance with IEC 60034, IEC 61800, and CE standards.

1. MOTOR SPECIFICATIONS

Type : Three-phase squirrel cage induction motor
 Power Rating : 2 kW
 Supply Voltage : 415 V, 50 Hz, 3-phase
 Protection Class : IP55
 Insulation Class : Class F
 Rated Speed : \approx 1450 rpm

2. VARIABLE FREQUENCY DRIVE (VFD)

VFD Compatibility : Compatible with motor power rating
 Input Supply : 3-phase, 415 V
 Frequency Range : 0 – 60 Hz or higher
 Control Modes : V/f control and Vector control

3. STARTER PANEL

Starting Methods : DOL (Direct On Line), Star-Delta, Forward-Reverse
 Controls : Industrial push buttons, selector switches, indicator lamps
 Protection : Overload relay and circuit breaker protection

4. LOADING & MEASUREMENT SYSTEM

Load Type : Generator type

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Torque Measurement : Torque sensor (dedicated)
Speed Measurement : Digital tachometer / Encoder
Electrical Instruments : Voltage, current, power, power factor, frequency meters
Measurable Parameters : Speed, torque, slip, efficiency, power characteristics

5. MECHANICAL STRUCTURE

Frame : Heavy-duty steel test bench with adjustable motor mounting
Coupling : Flexible shaft coupling with alignment mechanism

6. STANDARDS & COMPLIANCE

Standards : IEC 60034, IEC 61800, CE Certified
Application : Electrical machines laboratory experiment

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