



Product Type: Industrial Motor Trainer

Motor Type: Three-Phase Squirrel Cage Asynchronous Motor

Training Application: Electrical engineering and mechatronics motor control training (DOL, Soft Starter, VFD)

Electrical Specifications

- **Rated Voltage:** 380V / 400V / 415V
- **Rated Power:** 3.3 kW
- **Frequency:** 50 Hz / 60 Hz
- **Phase Configuration:** Three-phase
- **Starting Modes Supported:**
 - Direct-On-Line (DOL)
 - Soft Starter
 - Variable Frequency Drive (VFD)
 - Custom configurations (optional)

Design & Mechanical Features

- **Poles:** Dual-speed design (2 / 4 poles)
- **Motor Frame Material:** High-durability cast iron
- **Cooling Method:** IC411 (surface-cooled with internal fan)
- **Enclosure Type:** Totally enclosed fan-cooled (TEFC)
- **Mounting Structure:** Standard IEC frame (optional for test rig configuration)

Environmental & Operational Ratings

- **Insulation Class:** F (max temp rise +105°C)
- **Ingress Protection:** IP54 / IP55 (dust protected, water spray resistant)

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



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- **Ambient Temperature Range:** -15°C to +40°C
- **Installation Altitude:** ≤1000 m above sea level
- **Duty Type:** S1 (continuous operation)

Performance & Standards

- **Efficiency Class:** IE3 (Premium Efficiency)
- **Applicable Training Areas:**
 - Motor starting techniques
 - Energy efficiency demonstration
 - Load and torque characteristics
 - Motor wiring and fault simulation
 - Thermal and overload protection

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