





Technical Specifications:

• Well-designed tabletop electrical machine training system, should offer integrated solution for the electrical & mechanical performance test, verification and measurement of different AC and DC motors.

• All motors and generators should come with standard aluminium profile mounting base, coupling for easy experimental combination via universal shaft couplings

• The experiment of each motor should be operated with electrical panel through 4mm safety sockets

• The frame should adopt complete aluminium profile as support frame with engraved and colorized printed panel be inserted into grooved aluminium profile

- Frame part:
- - Complete grooved aluminum profile frame structure
- Rubber cushions on frame bottom
- - Engraved and colorized printed inclined panel of 60-degree angle
- - Circular connectors for main frame with power/rotary encoder
- DC calibrated machine:
- - 220V, 1500r/min, 2.2A, 355W

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

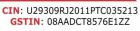


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Order Code -23247243.36 Electrical Machine Trainer.

AC power supply:

• - Through 4mm safety socket, with short current & leakage protection, phase indication

- - Start, stop and emergency switches
- - Three phase 380V output
- - Three phase 220V output
- - Single phase 220V output
- DC power supply:
- Fixed DC 24V output, max 2A with power switch, indicator and short circuit protection

• - Variable DC 0 - 24V, max 4A output with voltage indication, power switch, indicator and short circuit protection

• Fixed DC 220V output, max 0.5A with power switch and short circuit protection

• - Variable armature DC 0-220V output with voltage indication, power switch and short circuit protection

- Load resistor:
- - Variable resistor $0\Omega / 30\Omega / 60\Omega / 90\Omega / infinite, max 0.3A, with selective switch$
- Load resistor 300Ω, 100W, max 0.5A
- - Field resistor $1k\Omega$, 100W, max 0.38A with rotary switch
- - Field resistor $2k\Omega$, 150W, max 0.27A with rotary switch
- Load lamp & switch unit:
- - Lamp AC220V, green x3
- One-way toggle switch x2
- - Three-way toggle switch
- Voltage & Current measurement:
- - Voltmeter digital AC0...450V
- Voltmeter digital DC0...300V

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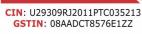
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- Ammeter digital AC0...3A
- - Ammeter digital DC0...5A
- Speed measurement:
- Digital Tachometer: 0...9999 rpm
- - Optical encoder with synchronous belt and wheel
- Three phase voltage regulators:
- - 1KW regulator, 0...450V, 0...250V variable output
- Indicating lamp R/G/Y
- - Output voltage monitoring meter x3
- Selective input and output voltage display
- Spring gauge force readout mechanism:
- - Dynamometer of limit load 50N
- - Coupling for motor connection
- Belt connection with micro bearing mechanism
- Accessories:
- Shaft couplings for each motor
- - Safety whole sealing cable: conductor cross section: 16AWG tinned copper wire,

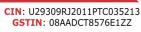
3kV, 20A, with axial socket

- - Experiment guidebook
- Experiment Motors:
- Squirrel cage motor (I) –
- Type: 3P asynchronous
- Voltage: 380V (Delta)
- Current: 1.12A
- Power: 180W
- Speed: 1430 rpm
- Squirrel cage motor (II) –

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- Type: 3P asynchronous
- Voltage: 220V (Delta) / 380V (Star)
- Current: 1.14A / 0.66A
- Power: 180W
- Speed: 1430 rpm
- Squirrel cage motor (III) –
- Type: 3P asynchronous
- Voltage: 220V (Delta)
- Current: 0.5A
- Power: 100W
- Speed: 1420 rpm
- Squirrel cage motor (IV) –
- Type: 3P dual speed
- Voltage: 220V (Delta/Star)
- Current: 0.6A
- Power: 90W/120W
- Speed: (2820/1400) rpm
- Resistor split phase motor –
- Type: 1P
- Voltage: 220V
- Current: 1.45A
- Power: 90W
- Speed: 1400 rpm
- Capacitor running motor –
- Type: 1P
- Voltage: 220V

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- Current: 1A
- Power: 120W
- Speed: 1420 rpm
- Capacitor starting motor –
- Type: 1P
- Voltage: 220V
- Current: 1.45A
- Power: 90W
- Speed: 1420 rpm
- DC permanent magnet motor –
- Type: DC motor
- Voltage: 220V
- Current: 1.5A
- Power: 200W
- Speed: 1800 rpm

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