

**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 colored printed panel be inserted into grooved aluminium profile
- Frame part:
 - - Complete grooved aluminum profile frame structure
 - - Rubber cushions on frame bottom
 - - Engraved and colored 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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- 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 0Ω / 30Ω / 60Ω / 90Ω / 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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- - 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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