



FEATURES & POWER INFRASTRUCTURE

- Requires 3-phase power / 120 - 208 VAC

CORE EQUIPMENT SET

- Three-Phase Synchronous Motor/Generator
- Three-Phase Transformer Bank
- Lead-Acid Battery Pack
- Timing Belt
- Connection Lead Set

Eddy Current Dynamometer / Power Supply with Manual and Computer-Based Control

- Data Acquisition and Control Interface
- Four-Pole Squirrel Cage Motor
- Resistive Load

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



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- Inductive Load
- Capacitive Load
- Transformer
- Permanent Magnet DC Motor
- Synchronising Module / Three-Phase Contactor, 120 V, EN

TECHNICAL SPECIFICATIONS

Four-Quadrant Eddy Current Dynamometer / Power Supply

Dynamometer Mode Specifications

- Magnetic Torque 0 to 3 N·m (0 to 27 lbf·in)
- Direction of Rotation CW / CCW
- Speed 0 to 1500 r/min
- Nominal Power 350 W

Power Supply Mode Specifications

- DC Voltage 0 to ± 150 V
- AC Voltage (RMS) 0 to 105 V (no-load)
- DC Current 0 to \pm A
- AC Current (RMS) 0 to 3.5 A
- Maximum Output Power 500 W
- Communication Port USB

Power Requirements 120 V - 6 A - 60 Hz (live, neutral, and ground wires)

DC Motor/Generator

- Motor Output Power 175 W
- Generator Output Power 120 W
- Armature Voltage 120V DC
- Shunt Field Voltage 120V DC
- Full-Load Speed 1800 r/min
- Full-Load Motor Current 2.8 A
- Full-Load Generator Current 1 A
- Capacitor-Start Motor
- Line Voltage 120V
- Mechanical Power 175W
- Full-Load Speed 1715 r/min
- Full-Load Current 4.6A
- Universal Motor

Included as part of the operational rotating machines subsystem.

OTHER EQUIPMENT & ACCESSORIES

Motor specifications are subject to change, motor shown above are Indicative, Actual Product can Vary.



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- Variable Three-Phase Power Supply
- Fuse SB 5.0 A
- Mobile Workstation
- Three-Phase Power Receptacle - NEMA L21-20R

SYSTEM REQUIREMENTS & INSTALLATION

- Maximum Current 10 A
- Typical Current 1.5 A per student group
- AC Power Network Installation 3 phases (120/208 V – 60 Hz), star (wye) configuration including
 - neutral and ground wires, protected by a 20 A circuit breaker
- AC Power Network Connector NEMA L21-20

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