

**Product Name :**  
Energy Efficiency In Electric Motors

**Product Code :**  
ASTRALAB-SUPPLYA21075



**Description :**

Energy Efficiency In Electric Motors

**Technical Specification :**

The trainer allows studying the Energy Efficiency in a hydraulic circuit with motor driven pump controlled by an inverter.

Trainer for the study of the Energy Efficiency in the control of electric motors.

## Training Objectives of Energy Efficiency In Electric Motors

Learning and setting a Multifunction Network Analyzer (MNA).

Learning and programming an advanced PLC with operator interface.

Learning and programming an industrial Variable Speed Drive (VSD).

Introduction to electric motors.

Introduction to the different sensors/actuators used in this trainer and their main features (float switch, flow sensor, pressure sensors and solenoid valves).

Learning the energy savings with electric motors and drives.

Possibility to import data (saved on micro SD card) in Microsoft Excel environment for processing.

3-phase motor driven pump, 0.37 kW, with cast iron body and brass impeller, max. flow rate 40 l/min.

Flow rate transducer, 1 to 40 l/min.

Pressure transducer, 0 to 10 bar, output signal range 0-10 V.

Inverter, 0.4 kW, PID control mode as standard, 7 user-configurable preset speeds.

Pressure switch, 1 to 12 bar.

Three 2-way NC electrovalves, direct control, brass body.

Multifunction network analyzer, line voltages and currents, total active and reactive power, power factors, active and reactive energies, etc.



## Astra Scientific

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