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Product Name :
Energy Efficiency In Electric Motors

Product Code :
LBNY-0005-18400015



Description :

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:

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

Learning and setting a Multifunction Network Analyzer (MNA)

Learning and programming an industrial Variable Speed Drive (VSD)

Learning the energy savings with electric motors and drives

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

Introduction to electric motors

Learning and programming an advanced PLC with operator interface.

Technical Specification :

Flow rate transducer, 1 to 40 l/min.

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

Pressure switch, 1 to 12 bar

Three 2 away NC electro valves, direct control, brass body

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

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

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



Laboratory Instrument India