**AUTOMATION**

**ELECTROMECHANIC COMPONENT BOARD**

The board allows performing the most important experiments in industrial electrical plants. The components are connected to the board front panel through 2 mm terminals for what concerns the low voltage controls and through 4 mm safety terminals for the connections to the mains. All the components are identified through a clear synoptic diagram showing their type and symbol. The board includes:

- 1 power supply, 24 V
- 1 bipolar switch, 1 - 0 - 2
- 1 thermal relay
- 2 timers
- 5 push-buttons
- 5 signaling lamps
- 5 remotely controlled switches with relevant auxiliary contacts

On the back side of the board there are switches to allow for the introduction of faults by the teacher.

The board is complete with a kit of connecting leads.

Power supply: single-phase from mains.

**NOTE:** It can be connected to a PLC such as the DL 2210A or DL 2210B.

Accessories: the electromechanical component board can be used together with a Dahlander motor, such as DL 2102D, or a squirrel cage motor, such as DL 10115AV.

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**SQUIRREL CAGE MOTOR CONTROL**

The board, allowing the simulation of starting systems for the motors with squirrel cage rotor, is equipped with a clear synoptic diagram that shows through terminals: the push-buttons, the thermal relay contacts, the contactor coils and the signaling lamps. The system, besides the board, includes a three-phase asynchronous motor supplied at the reduced voltage of 42 V, complete with educational base and terminals that make easy the connection to the simulation panel. The speed meter, connected to an opto-encoder, allows measuring the rotation speed of the motor.

Besides, a magneto-thermal switch and an emergency key allow the immediate interruption of the supply circuit in case of overload or short-circuit.

With this system, the student will be able to study the following:

- Telestarting of three-phase asynchronous motor
- Running teleinversion
- Star-delta telestarting
- Bias teleswitch
- Star-delta telestarting with running teleinversion
- Bias teleswitch for two speed motor of Dahlander connection

The checking and the automatic management are carried out by means of PLC.

Complete with educational manual.

Power supply: single-phase from mains.

**NOTE:** It can be connected to a PLC such as the DL 2210A or the DL 2210B.