

BENCH FOR GROUP TESTING OF ELECTRIC MEASUREMENTS AND MACHINES

Mod. 2385/EV

INTRODUCTION

The electrical and mechanical characteristics of this bench of "universal" type enable to use this equipment in laboratories of electrical engineering for the implementation of experimental programs of electric measurements and machines; it is an alternative solution of bench mod. 2390/EV.

The main characteristic of this bench is its wide working top and a power supply unit of reduced size that can be positioned indifferently on its longer or smaller side; that supplies the bench with a working capacity for 4-5 students. The power supply unit is sized to carry out general electric measurements and measurements on the electric machines of "POWER" modular system.

TRAINING PROGRAM:

- Measurements of DC and AC voltage or current
- Measurements of resistance
- Measurements of DC and single-phase power
- Measurements of frequency, capacitance and inductance
- Measurements of three-phase active and reactive power
- Measurements of power factor
- Measurements on DC machines
- Measurements on synchronous machines
- Measurements on asynchronous machines
- Measurements on transformers

TECHNICAL SPECIFICATIONS:

This bench is made of press-formed sheet steel and sections, chemically treated and painted with several coats of epoxy varnish. The working top is of chipboard coated with bonded laminate. Two drawers with flush-mounted handles and key locks are fixed under the working top. The desk, that can be positioned on the longer or smaller side of the bench, can be opened from the rear side for inspection and service.

The described electric components are included in the desk. The control, protection and testing devices are mounted on the silk-screen-printed fore plate of aluminium alloy.



ELECTRIC CHARACTERISTICS:

- **Main control device of electro-magnetic type**, with key switch, high-sensitivity magneto-thermal differential circuit breaker and stop/emergency pushbutton
- **Service line** with two single-phase sockets of 230 V and three-phase output 400 / N / PE with safety terminals, protected by four-pole magneto-thermal differential circuit breaker of 10 A
- **Variable three-phase line of 0-430 Vac / 0-500 Vdc – 5 A**, protected by fuses, electro-magnetic control device and separate digital instruments for measuring AC and DC output voltages, safety terminals
- **AC-DC extra-low voltage line – 6-12-24-48 V – 4 A**, protected by fuses, safety terminals
- Control switch, protection fuses, terminals of use are prearranged for a regulated power supply unit of 12 V – 15 A

Dimensions: 2000x1000x880 + 1000x450x350 mm (console)

Net weight: 128 kg

OPTIONAL ACCESSORY:

- Regulated power supply unit of 12 Vdc – 15 A, with electronic protection against short-circuits and overloads, and automatic reset

POWER SUPPLY:

3 x 400 V / N / PE 50-60 Hz
 (3 x 220V/ N / PE other voltages on demand).
 Max. absorption: 6 kVA