ML100

Machine & Drive Lab Supply Unit

Overview

Machine & Drive Lab Main Frame can operate both AC and DC machines and transformers up to 1 KW, it is designed to be combat and can be expanded to enable the trainees to add up to 10 modules, by using a set of interchangeable modules the trainees can execute different experiments.



Specifications

- The Unit contains a vertical panel divided into two sections a control section and an aluminum panel section used for fixing the experimental modules. In addition to horizontal work bench.
- The control panel section is also provided with circuit breakers to protect the unit, overload LED that lights up when the unit is overloaded, and emergency button and On/Off switch to operate the unit
- The control panel includes a knobs to control the values of AC and DC voltage power supplies.
- The training system can supply machines with power up to 1 KW.

Universal power supply (ML100.01)

- **Three-phase fixed power supply.**
  - » Output voltage: 3x 400VAC, 50-60 Hz
  - » Short circuit protection with 3-pole
  - » CB up to 25A
  - » Over and Under Voltage Protection
  - » Phase Sequence Protection
  - » Motor protection switch adjustable from 20A to 25A

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» Output from 4mm banana safety sockets L1 ,L2,L3 ,N AND PE

- **Universal AC/DC Variable Power Supply**



- Technical Data:
  - » Current: up to 6 A
  - » Voltage: 0 : 400VAC / 0 : 220 VDC
  - » Short circuit protection
  - » Overload protection
  - » Output from 4mm banana safety sockets
  - » AC : L1, L2, L3, N and PE
  - » DC : +VE, -VE

- **Variable DC Power Supply**



- Technical Data:
  - » Output current: up to 2.2 A
  - » Output voltage: 0 : 220V
  - » Short circuit protection
  - » Maximum output power 500W
  - » Output from 4mm banana safety sockets +VE, -VE

- **Fixed DC Power Supply**



- Technical Data:
  - » Short circuit protection
  - » Output current: 2A
  - » Output voltage: 220V
  - » Output power: 440W
  - » Output from 4mm banana safety sockets +VE, -VE

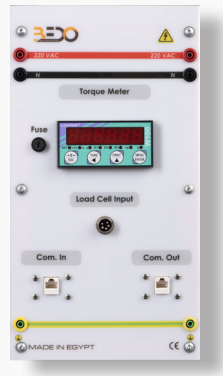
Main Modules Kit
Code: (ML100.02)

- **Digital Meter (ML100.02.01)**



- Technical Data:
  - » Input voltage: 220V, 50-60 Hz on 4 mm safety banana socket
  - » RS-485 interface
  - » 2-Channels AC / DC Current Measurement
  - » Measurement Range Up to 5 A
  - » 2-Channels AC/DC Voltage Measurement
  - » Voltage measurement: Up to 250 V - 500V
  - » Fuse protection

- **Torque meter (ML100.02.02)**



- Technical Data:
  - » 220 V, 50-60 Hz Supply from 4 mm banana socket

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» RS-485 interface

» Input for load cell connection via special connector

- **Cut-Off Switch Module 3-Pole (ML100.02.03)**



- Technical Data:
  - » Switch position: 0 - 1 (rotary switch)
  - » Contact rating: 690V, 16A max.
  - » Inputs/outputs: 4mm safety sockets
- **Contactors and switching circuits training set (ML100.03.04)**
  - With this set, basic contactor circuits can be assembled that include protective and operating elements.
  - Sub-assemblies:
    - » 4 X Latched push-button switches, 1 NO/1 NC
    - » 1X Set of Four indicator lamps (Red , Blue, Yellow and Green)
    - » 3X Main Contactor, 3-Pole, with Auxiliary Contacts Block (2 N.O / 2 N.C)
    - » 1 Remote pulse switch, 1 changeover contact
    - » 2x Multi-Function Timer (On-Delay, Flicker and Interval Modes)
    - » Range: (0.5 sec -10 hours) Adjustable
    - » 1 X Line circuit breaker, 3-pole
    - » 1X Line circuit breaker, single-pole
    - » 2x Red Push Button (1 N.O/ 1 N.C)
    - » 2x Emergency Stop Push Button (2 N.C)
  - Technical Data:
    - » Nominal power contacts: 230/400VAC, 16AC
    - » Nominal control contacts: 230VAC, 5AC

Scope of Delivery

- Machine & Drive Lab Supply Unit (ML100)
- Hard copy user manual

Options

- Electrical Machines & Transformer Lab 300 Watts (ML300)
- Electrical Machines & Transformer Lab 500 Watts (ML500)
- Electrical Machines & Transformer Lab 1K Watts (ML1000)
- AC Drive 300 Watts (AD300)
- AC Drive 500 Watts (AD500)
- AC Drive 1K Watts (AD1000)
- DC Drive 300 Watts (DD300)
- DC Drive 500 Watts (DD500)
- DC Drive 1K Watts (DD1000)
- Digital content (BI01)
- Storage Unit (BI03)

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