AC Motor Control Inverter

Category: Electrical Engineering · Model reference: MZM-4013



SPECIFICATIONS

DESCRIPTION
The trainer has been created for learning of speed control of AC motor with Inverter controller. Can be control both open-loop and close-loop method. Used frequency inverter as speed control unit. The individual units of an experimental set-up are connected via 4-mm. safety sockets which are arranged in large, synoptically graphical symbols or current flow diagrams. Due to the vertical arrangement of the experimental panels, the experimental set-up can be seen from a far distance and can be adapted step by step to the course of the lessons or lectures

Technical Module
(1) Three phase asynchronous motor with rating 1.5HP/2HP, 415V. – 2 units
(2) Single phase induction motor with rating 1HP, 240V. – 2 units
(3) Three Phase Watt Meter– 1 Unit
(4) Lamp Load 220VAC - 1 Unit
(5) Digital Ammeter AC/DC - 1Unit
(6) Digital Volt Meter AC/DC– 1Unit
(7) Frequency Meter - 1Unit
(8) Power supply console variable AC and DC power - 1Unit
· There are six modules as per follows:
· Socket Outlet240/415VAC
· Power Socket 240/415VAC
· Power Supply 240VDC 1A
· Double Outlet 2P + PE 16A 240VAC
· Schuko Socket 2P + PE 16A 240VAC
· Main Power Supply 240/415VAC

EXPERIMENT TOPIC
(1) Start-stop control induction motor with key pad
(2) Start-stop control induction motor with external signal
(3) Motor control reversing
(4) Motor speed control by variation frequency type
(5) Motor speed control by voltage variation
(6) Fixed time frequency increment start motor and stop according to frequency decrement
(7) Motor speed control with voltage and frequency variation.
(8) Analysis of the voltage and frequency ratios.
(9) Motor speed control by jog frequency type
(10) Fixed time frequency increment start motor and stop motor with DC brake
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