

STUDY OF DIRECT ON LINE STARTER, STAR-DELTA STARTER, CONNECTION AND RUNNING A 3-PHASE INDUCTION MOTOR AND MEASUREMENT OF STARTING CURRENT

Model : VTPL-1100



AC Squirrel Cage Motor with pony brake loading arrangement with dial type spring balance with control panel. Technical Specification: A.C. SQUIRREL CAGE INDUCTION MOTOR 2 HP WITH DOL / STAR DELTA STARTER with Mechanical Load - AC MOTOR:- It should be A.C. 3 Phase 2HP 415 volts, 50 Hz, Efficiency – 86.3% on full load Squirrelcage Induction Motor, horizontal foot mounted.

FEATURES : The components fitted on the Panel labeled with the name of the component.

All accessories connected with internal wiring.

Anti vibration mounts will be provided.

The Control panel shall consist of an Instrument panel with all digital meters shall highly accurate Micro-controller based with Diagrammatic representation for the ease of connections and student can easily understand the concept of machine and the control panel should be made of 40x40 Sq. mm aluminium conveyor section with all the accessories mounted on the bakelite sheet / M.S. Sheet with Vinyl Sticker as

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per the circuit diagram of the experiment with laminated wooden top on the working area. The basic frame work shall be made of 32 x 32 x2 mm tubular mild steel. The MS sheet used should be min. 2 mm in thickness for sturdiness. The overall dimensions should be not less than W = 1200 mm ; D = 900 mm ; H = 1500 mm . A 25mm thick work top made from 25mm wood based plain particle board with one side post forming (full round profile) 0.8mm marino laminate and another side 0.6mm white balancing laminate. Remaining three sides of the work top should be lipped with 2mm PVC edge band. Leveling screws with base should be provided on the legs of the Work Bench.

CONTROL PANEL ACCESSORIES : DOL / Star Delta Starter, Patch cords for connecting Machine to panel Electric Panel Board for AC Induction Motor, Voltmeter with selector switch Off/R/Y/B/BR, Ammeter Starter in line with specifications, ICTP Iron clad triple pole with neutral Link with HRC fuses, Bakelite base Indicating lamp LED type 12mm size for incomer & Motor starting in color code, RPM Indicator with Sensor Machine

Note: There may be any change in specification due to continuous R & D without notice.

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