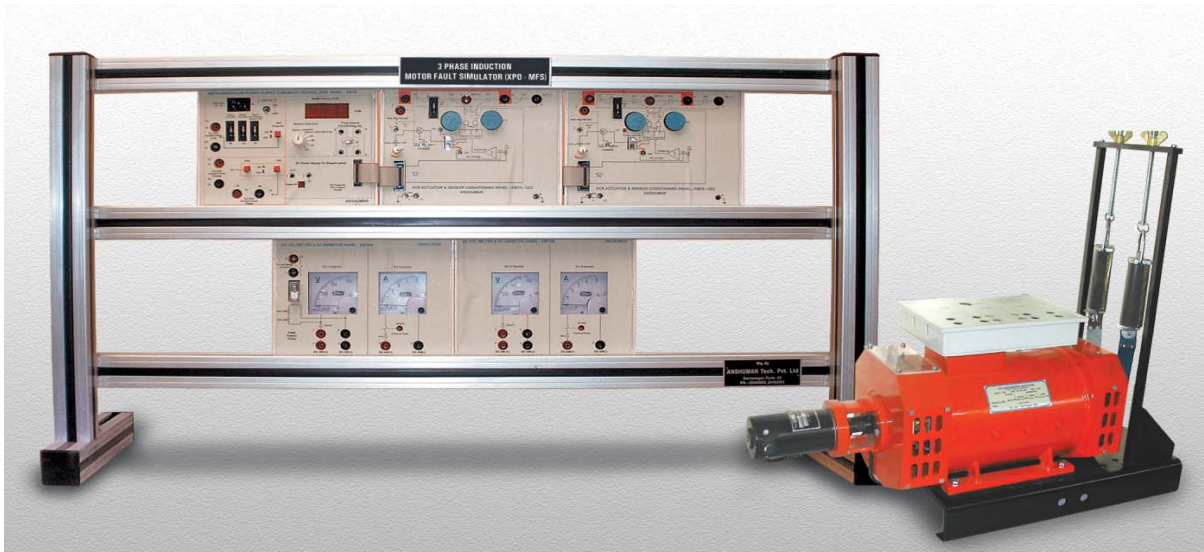


3 PHASE INDUCTION MOTOR FAULT SIMULATOR (XPO - MFS)



SALIENT FEATURES

- ◆ Easy and safe wiring by students due to 4mm sturdy shrouded banana patch cords and shrouded socket arrangement for high voltage circuits.
- ◆ Facilitates easy learning about fault characteristics of ubiquitous squirrel cage induction motor.
- ◆ Teaches troubleshooting through introduction of fault switches.
- ◆ Each panel has ABS molded plastic sturdy enclosure, and colorful screw less overlays showing circuit diagram & its connection tag numbers for easy understanding and connections.
- ◆ Set of Instructor Guide & Student Workbook.

TECHNICAL SPECIFICATIONS

A] Aluminum profile flat demo panel system (table top), carrying various high voltage components housed in plastic enclosures (panel) to minimize shock possibility.

- ◆ **Input 3 phase DOL Starter panel (EMT1)**
 - 4 pole MCB of 415 V/1A.
 - DOL 9A Contactor with 230V / 50 Hz / 11VA COIL.
 - Bimetallic thermal O/L relay with range 1.4A - 2.3A.
- ◆ **AC voltmeter panel (EMT2)**
 - AC voltmeter of 0-600V for three phase voltage measurement by selector switch.
 - The selector switch facilitates monitoring all three line voltages namely RY, YB and BR as well as 1 phase voltage monitoring.
- ◆ **AC Ammeter panel (EMT3)**
 - AC Ammeter of 2A/6A for three phase current measurement by selector switch.
 - The selector switch facilitates monitoring all the three line currents.
 - The panel also facilitate single phase current monitoring along with thermal output of rating 2A, 4A, 6A.
- ◆ **FWD/REV, Star-Delta starter panel (EMT 4)**
 - FWD/REV, 3 pole 3 way switch with centre OFF, 6A/440V.
 - Star/Delta switch 3 pole, 3 way with centre OFF, 6A/440V

- ◆ **3 Phase sequence indicator Panel (P30)**

- Study 3 phase 440V Electric utility supply - Determination of over voltage, under voltage, single phasing and reverse phasing / Displays OV, UV, SB, RP on digital display

- ◆ **Motor**

- 3 phase squirrel cage induction motor, ½ HP, 4 pole, 1500RPM, 6 terminal (delta 220Vac/star 440Vac) motor with built in thermal cutout (NC contact).

- ◆ **Fault simulator built on the panel on top of motor shrouded under cover.**

- ◆ **Study toggle switches to introduce faults.**

- ◆ **List of faults:**

- 1) Over current.
- 2) Under current.
- 3) High. Temperature
- 4) Single phasing
- 5) Reverse phasing
- 6) Under voltage.
- 7) Over voltage
- 8) Winding open

MECHANICAL SPECIFICATIONS

- **Aluminum rack** of 4 X 2 matrix used as flat demo panel system to house panels needed for the trainer ordered.
- **Dimensions** : 500(H) X 910(L) X 300(D)mm

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Specifications subject to change without notice

