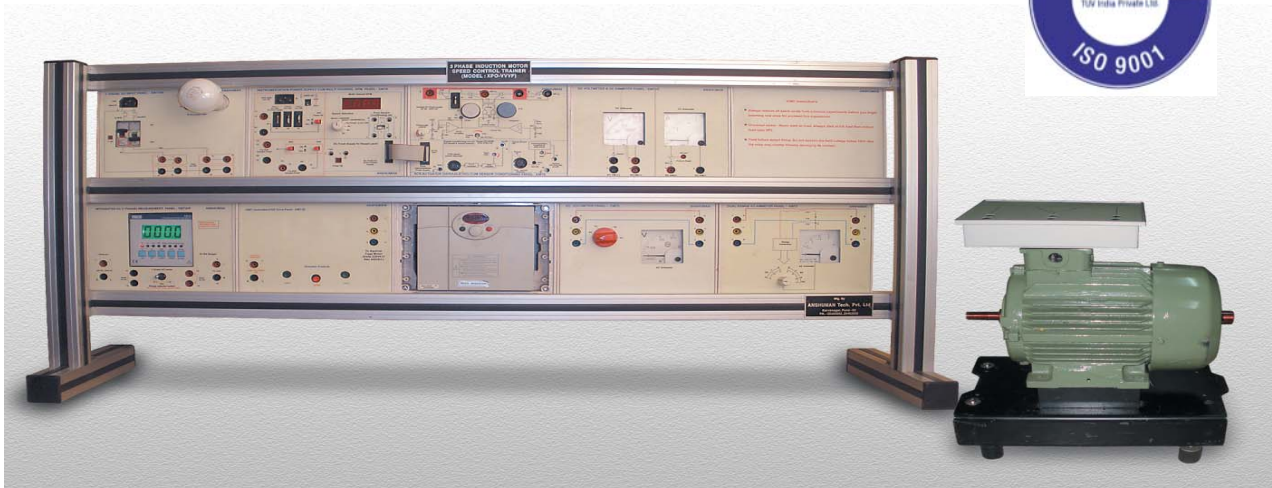


3 PHASE INDUCTION MOTOR SPEED CONTROL TRAINER (XPO - VVVF)



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 operative characteristics of ubiquitous squirrel cage induction motor.
- ◆ 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.

◆ 1 Motor, Alternator & Sync. Motor Panel (EMT 16A)

- 1 MCBs of 4A/1.6A - 2nos, bulb load.
- ◆ **Instrumentation Power supply cum Multichannel DPM panel (EMT 8) - optional : Required only when eddy brake loading is ordered.**
 - (a) ± 12 V, 500 mA
 - (b) +5V, 300mA
 - (c) Unregulated 17V dc/750 mA
 - (d) Line synchronizing signal.
 - (e) 13V / 3 Amp.
 - (f) Multi channel DPM for digital display of torque, speed etc
- ◆ **SCR Actuator (variable DC) cum sensor signal conditioning panel (EMT9) optional:- Required only when eddy brake loading is ordered.**
- Full bridge SCR based 0V-195V / 5 Amp cosine firing with linear characteristics.
- Supports signal conditioning circuit for speed, torque in kg wt to output 0-2.5Vdc (FS).
- ◆ **Integrated AC (1 phase) measurement panel (EMT20F)**
- 1 nos of Digital meter for 1 ph. parameters V, I, PF, W, VA, VAR, Hz, etc.
- Current specs = 1A/5A for 1ph. meter (170-250V).

◆ AC voltmeter panel (EMT2)

- Voltage range : 500V.
- 1 pole 4 way switch to select line voltage for three phase

◆ Dual range AC ammeter panel (EMT3)

- Current range: 2A/6A selectable.
- 1 pole 7 way switch to select phase current for three phase

◆ IGBT Controlled AC Drive panel (EMT33)

- 1) Input voltage: 230VAC. 50Hz
- 2) Output voltage: 3 phase 200 to 230VAC
- 3) Range (Frequency Control) : 0.1 Hz to 100 (400)Hz
- 4) Control Mode : Sine Wave PWM
- 5) Capacity : 1/2 HP (2 HP optional)
- 6) With Reverse And Forward Direction
- 7) Mech: single width for 1/2 HP & double length for 2HP

◆ Motor :

- 3 phase squirrel cage induction motor, 1/2 HP (2 HP optional), 4 pole, 1500RPM, 6 terminal (delta 220Vac/star 440Vac) motor with Hand held Tachometer for speed measurement

◆ Optional accessories:

- Eddy brake for loading with EMT 8 + EMT9 + EMT 6B for DC measurement, Torque & Speed measurement

MECHANICAL SPECIFICATIONS

- **Aluminum rack:** of 4 X 2 matrix used as flat demo panel system to house panels needed for the trainer ordered.
- **Dimensions :** 960 (L) x 300(W) x 545(H)mm

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Specifications subject to change without notice