

ELECTRICAL TRAINER



Salient Features

- § Each of following standalone Electrical trainers may need a set of associated panels which are mounted in a light weight sturdy aluminum flat demo panel system.
- § Facilitates easy and safe wiring by students due to 4mm sturdy shrouded banana patch cords and shrouded socket arrangement for high voltage circuits.
- § Each panel has ABS molded plastic sturdy enclosure, and colorful screwless overlays showing circuit diagram & its connection tag numbers for easy understanding and connections.
- § Set of Instructor Guide & Student Workbook.

Mechanical specifications:

- **Aluminum rack:** of 1* 4/2*5 matrix used as flat panel demo panel system to house 4/10 panels needed for the trainer ordered.
- **Dimensions :** 500(H)*910(L)*300(D)mm or 940(H)*1176(W)*305(D)mm



1] 1 Phase & 3 Phase transformer trainer (Model : XPO -TT) : Can order either 1KVA/3KVA (300VA/300VA) wattage rating. Weights are mentioned for heavier 1KVA/3KVA model.

| Sr. No. | Technical Specs | Integrated Transformer Panel Nt. Wt = 66kg / 109 Grkg (1KVA/3KVA) | |
|---------|-----------------|--|--|
| | | 1 phase | 3 phase |
| 1 | VA rating | 1KVA (300VA) | 1KVAx3 = 3KVA (100VAx3=300VA) |
| 2 | Construction | (2) Nos. of double wound iron core EI step down X'mer | 1no of iron core strip lamination type step down Delta primary / Star secondary design. |
| 3 | Primary | 230Vac / 4.5A (230Vac/1.3A), 50Hz brought out on 2x2 sockets x 3 (2) primaries | 3 nos. Isolated primaries 0-415 / 2.5A (0.24A) at 50Hz brought out on 3x3 sockets |
| 4 | Secondary | 110Vac/9A (200Vac-1.5A) brought out on 2x2 sockets x 3 secondaries. | 3nos. of isolated winding groups main - 56V/9A (110V/0.5A), Zigzag 56V/9A (110V/0.5A) Tertiary 110V/2A (220V/0.25A). Brought out on 3x3x3 sockets. |

5) Control Panels - Light wt sturdy Aluminium powder coated flat demo panel system containing modular panels as follows - Dimension (mm) = 940 (W) x 1176 (H) x 305(D) Nt. Wt. 27kg (42 Grkg)

| Sr. No. | panel Function | 3KVA/ 1KVA | | 300VA / 300VA shares panels with XPO-EMT | |
|---------|---|--------------|-----------|--|-----------|
| | | Name | Qty | Name | Qty |
| 1 | Input 3 phase DOL starter panel | EMT1A | 1 | EMT1 | 1 |
| 2 | AC Secondary voltmeter panel | EMT2 | 1 | EMT2 | 1 |
| 3 | AC Primary voltmeter panel | EMT2A | 1 | EMT20 | 1 |
| 4 | Dual range primary side AC ammeter panel | EMT3A | 1 | Combined with EMT20 | 1 |
| 5 | Dual range secondary side AC ammeter panel | EMT3B | 1 | EMT3B | 1 |
| 6 | FWD - OFF-Rev switch panel | EMT4A | 1 | EMT4 | 1 |
| 7 | Milliohmmeter (V-I method) / Rect -Cap load panel | EMT6C | 1 | EMT6C | 1 |
| 8 | Resistive load panel | EMT20A,B,C | 3 | EMT 14A/14B | 1 |
| 9 | Dimmer panel | EMT20D | 3 | Table top standalone | 1 |
| 10 | 3 pole ON OFF panel | EMT20E | 1 | EMT14A/14B | - |
| 11 | 230V/ 1φ Transformer panel | EMT15C | 1 | Table top | 1 |
| 12 | 415V/ 3φ Transformer primary panel | EMT15D | 1 | Table top | 1 |
| 13 | 415V/ 3φ Transformer secondary panel | EMT15E | 1 | Shared with primary | - |
| 14 | 1φ MCB isolator panel | EMT16A | 1 | EMT16 | 1 |
| 15 | Integrated AC (1phase) measurement panel | | | EMT 20F | 1 |
| | | Total | 18 | | 13 |

