



**46627** Industrial Installation Trainer is a rugged training system for the Electrical laboratories mounted on Aluminum profile rack with sturdy table top flat panel. Each panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections. The product helps you to get fully acquainted with the basic concepts and functioning of an Industrial Installation Trainer.

#### Features

- Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrangements for high voltage circuits
- Each panel is made of non-breakable tough acrylic plate and colorful screw-less overlays showing circuits diagrams & its connection tag numbers for easy understanding and connection
- Numerous possibilities of testing of electrical circuits.
- Separate Transformer winding cores and copper coils for understanding step-up and step-down transformers
- Separate motor re-winding of motor rotors: assembly & re-assembly of a motor

#### Technical Specifications

##### Aluminum Trainer Rack (69700)

Aluminium trainer rack made up aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange conveniently to perform experiments. Dimension Length 1100×Height 1000

##### Input 3 Phase DOL Starter Panel (69701)

- 3 Phase direct on-line (DOL) starter,
- 4 Pole MCB of 415v/4a
- Pilot lamps for indication r, y, b phases
- Contactor 9a, 415 VAC
- Push button start, stop & emergency switch
- 3 Phase industrial socket with 4c\*1sqmm (5 mtr)
- Shrouded socket

##### Lamp Load (69713)

- 3 Nos. Lamp 100W with Holder & switch
- Shrouded socket 12Nos.

##### Earth Fault Resistor ELCB Panel (69705.1)

- 2 MCB single phase
- 1 Bulb Load
- 1 Toggle switch for Normal and earth fault condition
- Shrouded socket 7Nos.

##### Three Phase Contactor Panel (69772)

- 9A contactor with 230vac / 50hz, with coil contacts
- 2 NO & 2 NC contacts terminal
- 3 Output terminals for R, Y, B phases
- Shrouded socket

##### Switch Panel - 4 (69768.1)

- 1 Mushroom switch with 1 NO & 1 NC
- 1 Illuminated push switch with 1 NO & 1 NC
- 5 Push switch with 1 NO & 1 NC
- Shrouded socket 32 Nos.

##### Switch Panel - 3 (69767.1)

- 24 VDC operated NPN type proximity (2nos.) sensor with output terminal

Note: Specifications are subject to change.

- One change over type limit switch with NO & NC contact
- 3 Pole , 7 way cam switch
- Shrouded socket

#### **Alarm Annunciate Panel (69769)**

- 24 vdc/220 vac power supply for annunciator (internal/ external)
- 4 nos of fault contacts
- 4 nos of fault windows with flashing & alarm indication
- Shrouded socket

#### **AC/DC Supply With Timer Relay Panel (69773)**

- 220 VAC Power Supply
- 24 VDC SMPS Output
- 2 Nos of 24VDC/220VAC Timer Relay
- Each Timer Relay Supports 2 NO & 2 NC Contacts
- Shrouded socket

#### **Relay Panel (69770)**

- 8 Nos of 24 VDC SPST relay
- LED indication for each relay
- Each relay supports 1 NO & 1 NC contact
- Shrouded socket

#### **Multifunction Meter Panel (69702)**

Bidirectional Multifunction Meter  
3 Phase 4 wire, 440V, Current 5A  
LED display  
Aux supply 230V, 45-65Hz, 5W  
To measure parameters ie Voltage Current.,KVA,  
Frequency, Power factor, Active Power  
(W),Reactive Power (vary) etc.  
Shrouded socket 08Nos. etc.

#### **Three Phase Squirrel Cage Induction Motor (69308)**

- Voltage : 415V AC 50Hz
- Capacity : 300W/4Pole m/c
- RPM: 1500 RPM
- Shrouded socket 6nos. × Depth 350mm.

#### **List of Experiments**

01. To study the working of meters
02. To study the working of DOL Starter
03. To study the working of Contactor
04. To study the working of Over Load Relay
05. To study the working of CAM Switch
06. To study the working of Proximity Switch
07. To study the working of Lamp load
  - 7.1 To study the working of Lamp Load in Star
  - 7.2 To study the working of Lamp Load on Delta
08. To study the working of Alarm Accunciator
09. To study the working of SMPS & Relay
10. To study the working of Timers
11. To study the working of 3 Phase Induction Motor in Star & Delta Connection
  - 11.1 To study the working of 3 Phase Induction Motor in Star Connection
  - 11.2 To study the working of 3 Phase Induction Motor in Delta Connection
12. To study the working of Earth Fault Resistor ELCB Panel

Note: Specifications are subject to change.