



**46586A Electrical Home 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 Electrical Machines & Generator.

### Experiments

- 01 To study and measure Line & Phase Voltages
- 02 To study and measure Current in Three Phase Circuits
- 03 To study working of Control Transformer
- 04 To study working of Door Bell System
- 05 To study working of Electric Door Opener System
- 06 To study working of Buzzer System
- 07 To study working of Dimmer (Fan Regulator)
- 08 To study working of Two way Switch
- 09 To study working of Voltage Selector Switch
- 10 To study working of Door Station System
- 11 To study working of Timer Control Lamp System
- 12 To study connection of 1 phase 5 pin Output Socket
- 13 To study connection of 3 phase 5 pin Output Socket

### Provide Panels

	Order Code	Qty.
01 Aluminum Trainer Rack .....	69700	1
02 Input Three Phase DOL Starter Panel .....	69701	1
03 MCCB Block .....	69755	1
04 Ammeter / Multifunction meter Panel .....	69774	1
05 1 Phase Switch/Socket 13A Panel .....	69775	1

### INPUT 3 PHASE DOL STARTER

#### Panel Order Code - 69701

- 1 MCB 4 Pole 4Amp.
- 2 Pilot lamps for indication R, Y, B phases

Note: Specifications are subject to change.

06	Incandescent Lamp & Mercury Lamp Block .....	69776	1
07	3 Phase Industrial Socket & 1 Phase Switch/Socket 13A Panel .....	69777	1
08	Incandescent Lamp Block .....	69778	1
09	1 Phase Switch/Socket 16A Panel .....	69779	1
10	Switch Panel - 1 .....	69780	1
11	3 Phase Voltage / Current Selector & Cam Switch Panel .....	69781	1
12	Stepping Relay Panel .....	69782	1
13	2 Way 3/4 Terminal 10A Switch Panel .....	69783	1
14	Switch Panel - 2 .....	69784	1
15	Switch and Transformer Block .....	69785	1
16	Latch & Timer Relay Panel .....	69786	1
17	Push Button / Buzzer / Electric Door & Door Bell Panel .....	69787	1
18	24V / 240V AC Control Relay Panel .....	69788	1
19	1 Phase Industrial Socket & 1 Phase Switch/Socket 16A Panel .....	69789	1
20	Voltmeter/Ammeter and Pilot Signaling Lamp Panel .....	69790	1
21	1 Phase ELCB / MCB Panel .....	69791	1
22	3 Phase ELCB / MCB Panel .....	69792	1
23	Sub-Station Intercom Panel .....	69793	1
24	Sub-Station Phone Panel .....	69794	1
25	Push Button & Door Phone Signaling Panel .....	69795	1
26	Master Phone Door Station Intercom Panel .....	69796	1

- 3 Contractor 9Amp, 230 VAC
- 4 Push button start, stop & emergency switch
- 5 Shrouded safety socket 4mm for double output

#### **MCCB BLOCK PANEL**

##### **Order Code - 69755**

- 1 MCCB Three phase 63Amp
- 2 Shrouded safety socket 4mm for Input/Output

#### **AMMETER/MULTIFUNCTION METER PANEL**

##### **Order Code - 69774**

- 1 3 Phase Multifunction Meter
- 2 V, A, Hz, Pf, KVA, KW, KWH
- 3 LED Display, 3 Phase, 4 Wire Aux Supply 230V, 45-65 Hz, 5W, CT Input 5A
- 4 DPM Ammeter AC, 0-20AMP
- 5 Shrouded safety socket 4mm for Input/Output

#### **1 PHASE SWITCH/SOCKET 13A PANEL**

##### **Order Code - 69775**

- 1 5 Pin Socket with Switch, 13A - 2nos.
- 2 Shrouded safety socket 4mm for Input/Output

#### **INCANDESCENT LAMP & MERCURY LAMP BLOCK**

##### **Order Code - 69776**

- 1 Incandescent Lamp Holder with 15W/230V Lamp 4nos.
- 2 Mercury Lamp Holder with lamp
- 3 Shrouded safety socket 4mm for Input

#### **3 PHASE INDUSTRIAL SOCKET & 1 PHASE SWITCH/SOCKET 13A PANEL**

##### **Order Code - 69777**

- 1 5 Pin Socket with Switch, 13A
- 2 3 Phase Industrial socket 2 Nos., 16A

- 3 Shrouded safety socket 4mm for Input/Output

#### **INCANDESCENT LAMP BLOCK**

##### **Order Code - 69778**

- 1 Incandescent Lamp Holder - 4nos.
- 2 15W/230V Incandescent Lamps - 4nos.
- 3 Shrouded safety socket 4mm for Input

#### **1 PHASE SWITCH/SOCKET 16A PANEL**

##### **Order Code - 69779**

- 1 1-Phase Socket with Switch, 16A with Led Indication - 2nos.
- 2 Shrouded safety socket 4mm for Input/Output

#### **1 PHASE SWITCH/SOCKET 16A PANEL**

##### **Order Code - 69779**

- 1 1-Phase Socket with Switch, 16A with Led Indication - 2nos.
- 2 Shrouded safety socket 4mm for Input/Output

#### **SWITCH PANEL - 1**

##### **Order Code - 69780**

- 1 1 Way 2 Terminal 10A Switch 4nos.
- 2 Bell/ Door SPST Switch 2nos.
- 3 Dimmer (Regulator), 230VAC 2nos.
- 4 Illuminated Switch 2 Nos.
- 5 Shrouded safety socket 4mm for Input/Output

#### **3 PHASE VOLTAGE / CURRENT SELECTOR & CAM SWITCH PANEL**

##### **Order Code - 69781**

- 1 3 Phase voltage Selector Switch (RY, YB, BR)
- 2 3 Phase Current Selector Switch (R, Y, B)
- 3 ON/OFF Cam Switch 415V, 10Amp 2nos.
- 4 Shrouded safety socket 4mm for Input/Output

Note: Specifications are subject to change.

### STEPPING RELAY PANEL

#### Order Code - 69782

- 1 SPST Relay 4nos, 24VAC Operated
- 2 Toggle Switch For Relay Switching Sequence 2nos.
- 3 Shrouded safety socket 4mm for Input

### 2 WAY 3/4 WAY TERMINAL 10A SWITCH PANEL

#### Order Code - 69783

- 1 2 Way 3 Terminal 10A Switch 4nos.
- 2 2 Way 4 Terminal 10A Switch 4nos.
- 3 Shrouded safety socket 4mm for Input/Output

### SWITCH PANEL - 2

#### Order Code - 69784

- 1 1 Way 2 Terminal 10A Switch 4nos.
- 2 Bell/ Door SPST Switch 2nos.
- 3 Toggle Switch SPDT 4nos.
- 4 Shrouded safety socket 4mm for Input/Output

### SWITCH AND TRANSFORMER BLOCK

#### Order Code - 69785

- 1 1 Way 2 Terminal 10A Switch 4nos.
- 2 Control Transformers Input 240 VAC Output 6V/12V/ 24VAC 2nos.  
2 NO & 2 NC Contacts Terminal 2 NO & 2 NC Contacts Terminal
- 3 Shrouded safety socket 4mm for Input/Output

### LATCH & TIMER RELAY PANEL

#### Order Code - 69786

- 1 Latch relay 220VAC 2 NO & 2 NC Contacts Terminal LED Indication for Each Relay
- 2 Timer Relay 20-230VAC 2 NO & 2 NC Contacts Terminal
- 3 Shrouded safety socket 4mm for Input/Output

### PUSH BUTTON/ BUZZER/ ELECTRIC DOOR LOCK & DOOR BELL PANEL Order Code - 69787

- 1 Push Button switch with 1 NO & 1 NC Contacts 2NOS.
- 2 Buzzer 12 VAC Input
- 3 Door Bell ,12VAC Input
- 4 Electric Door Lock 12VAC Input
- 5 Shrouded safety socket 4mm for Input/Output

### 24V/240V AC CONTROL RELAY PANEL

#### Order Code - 69788

- 1 Relay 24VAC 2 C/O 2nos.
- 2 Relay 240VAC 2 C/O 2nos.
- 3 Shrouded safety socket 4mm for Input/Output

### 1 PHASE INDUSTRIAL SOCKET & 1 PHASE SWITCH/SOCKET 16A PANEL

#### Order Code - 69789

- 1 1 Phase Industrial Socket, 16A 2nos.
- 2 5 Pin Switch/Socket 16A With Led Indication
- 3 Shrouded safety socket 4mm for Input/Output

### VOLTMETER/AMMETER AND PILOT SIGNALING LAMP PANEL

Note: Specifications are subject to change.

### Order Code - 69790

- 1 DPM Size 48 x 96mm AC Voltmeter 500 Volts
- 2 DPM Size 48 x 96mm AC Ammeter 5AMP
- 3 Pilot Signaling Lamps, 230VAC 3nos.
- 4 Shrouded safety socket 4mm for Input/Output

### 1 PHASE ELCB/MCB PANEL

#### Order Code - 69791

- 1 ELCB 63 Amp 1 Phase 2 Pole
- 2 MCB 16 Amp 1Phase 1 Pole 2nos.
- 3 MCB 6 Amp 1Phase 1 Pole 5nos.
- 4 Shrouded safety socket 4mm for Input/Output

### 3 PHASE ELCB / MCB PANEL Order Code - 69792

- 1 ELCB, 63 Amp 3 Phase 4 Pole
- 2 MCB 16 Amp 3 Phase 3 Pole
- 3 Shrouded safety socket 4mm for Input/Output

### SUB-STATION INTERCOM PANEL

#### Order Code - 69793

- 1 4 Extension Intercom System
- 2 LED Indications for Power, Com & Each Extension
- 3 I/P Supply 230VAC with ON-Off, Ind.

### SUB-STATION PHONE PANEL Order Code - 69794

- 1 Telephone System
- 2 Receiver/Handset with Dial pad
- 3 Support Connectivity with Intercom System

### PUSH BUTTON & DOOR PHONE SIGNALING PANEL

#### Order Code - 69795

- 1 Micro Switch 250V 4Amp with Indicator
- 2 230 VAC AC Supply Input Shrouded socket 4mm for Signaling
- 3 Door Station System Having Camera, Bell, Mic & Speaker
- 4 Power & Communication Interface Port DB9 Connector, Male

### MASTER PHONE DOOR STATION INTERCOM PANEL

#### Order Code - 69796

- 1 Master Phone Door Station System
- 2 LCD Display, Camera, Mic & Speaker
- 3 Communication Interface Port DB9 Connector, Male
- 4 DB9 Cable Female To Female for Communicating Door Station
- 5 I/P Supply 230VAC with ON-Off, Ind.

### ALUMINUM INDUSTRIAL INSTALLATION TRAINER RACK

#### Order Code - 69700

Aluminium trainer rack made up aluminium profile size 40x40mm, foldable and light in weight 10 panel setup can be interchange conveniently to perform experiments. Dimension Length 1100x Height 1000 x Depth 350mm.