



**69055 Automatic Motor Control Panel :** This panel consists of single phase ac supply terminals with MCB and indicator. Low voltage ac supply of 24V @ 96VA. Three phase ac supply terminals with MCB and indicators. DOL starter with manual control and control using programmable timer. Rotor Resistance starter for slipping induction motor control. 2 nos of Multifunction Digital programmable timers are provided for ON /OFF timing applications. 2 nos of single changeover limit switches are provided for experimental purpose. One no. 24V DC Inductive sensor with single change over relay outputs with builtin 24V DC supply for experimental purpose. One no. 24V DC capacitive sensor with single change over relay outputs with builtin 24V DC supply for experimental purpose. Single phase 16 Amps Industrial socket for single phase ac supply output with 3 core 1 sqmm cable. Three phase 16 Amps industrial socket for 3 phase ac supply output with neutral and Ground with 5 core 1.5 sqmm cable. 70 nos of 4 mm stackable patchcords are provided along with this panel. This panel can be used for manual and auto control of 3 phase induction motor, slipping induction motor. Study of multifunction digital programmable timers. Study of Inductive and capacitive sensors. Study of limit switches.

**Front Panel Details:**

1. Single Phase Supply:

- A) Mcb : Single Pole, 6 Amps Mcb.
- B) Indicator : 16 Mm Indicator
- C) 230v Ac : 230v Ac Mains Terminals After Mcb.
- D) 24v Ac : 24 V @ 2 A Ac Supply Terminals.

2. Three Phase Supply:

- A) Mcb : Three Pole, 6 Amps Mcb.
- B) Indicators : 16 Mm Indicators
- C) 3 Phase -415v Ac : 415 V 3 Phase Ac Supply Terminals After Mcb.  
R Y B N R, Y, B And Neutral Terminals.

3. D O L Starter:

- A) Input : Dol Starter Input Terminals
- B) Output : Dol Starter Output Terminals
- C) On : Push Button Switch to Switch On Dol Starter In Manual Control.
- D) Off : Push Button Switch to Switch Off Dol Starter In Manual Control.
- E) Manual / Auto : Switch to Select Manual / Automatic Control.
- F) No : Normally Open Contact Of Starter For Auto Control Of Dol Starter.
- G) For / Rev : Switch to Select Motor Rotation Direction.

Note: Specifications are subject to change.

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4. Rotor Resistance Starter:

- A) Switch : Rotary Switch For Rotor Resistance Control.
- 0 : Off Position – No Resistance In the Rotor.
- 1 : Speed 1 –high Resistance
- 2 : Speed 2 - Medium Resistance
- 3 : Speed 3 - Low Resistance
- 4 : Full Speed – Rotor Get Shorted – Zero Resistance
- B) Rotor : R 1, R 2, R 3 : Terminals to Connect Rotor Of Slipring Motor.

5. Timer – 1:

- A) Timer : XT – 546 – Programmable Digital Timer
- B) No : Normally Open Contact Of Timer.
- C) Nc : Normally Close Contact Of Timer.
- D) Start : Push Button Switch to Start the Timer.
- E) Stop : Push Button Switch to Stop the Timer
- F) Aux. Supply : Mains Switch For Auxillary Supply- 230v Ac.

6. Timer – 2

- G) Timer : XT – 546 – Programmable Digital Timer
- H) NO : Normally Open Contact of Timer.
- I) NC : Normally Close Contact of Timer.
- J) Start : Push Button Switch To Start The Timer.
- K) Stop : Push Button Switch To Stop The Timer
- L) Aux. Supply : Mains Switch For Auxillary Supply- 230v Ac.

7. Inductive Sensor:

- A) COM : Common Terminal Of Relay Output.
- B) NO : Normally Open Terminal Of Relay Output.
- C) NC : Normally Close Terminal Of Relay Output
- D) GND : Gnd Point Of 24 V Dc Supply For Sensor.
- E) 24V : 24 V Dc Supply Point For Sensor.
- F) Output : Sensor Output Terminal.

8. Capacitive Sensor:

- A) COM : Common Terminal Of Relay Output.
- B) NO : Normally Open Terminal Of Relay Output.
- C) NC : Normally Close Terminal Of Relay Output
- D) GND : GND Point Of 24 V DC Supply For Sensor.
- E) 24V : 24 V Dc Supply Point For Sensor.
- F) Output : Sensor Output Terminal

9. LIMIT SWITCH – 1.

- A) Switch : Single Change Over Limit Switch
- B) COM : Common Point Of Limit Switch - 1
- C) NO : Normally Open Contact Of Limit Switch - 1
- D) NC : Normally Close Contact Of Limit Switch - 1

10. Limit Switch – 2.

- A) Switch : Single Change Over Limit Switch
- B) COM : Common Point Of Limit Switch - 2
- C) NO : Normally Open Contact Of Limit Switch - 2
- D) NC : Normally Open Contact Of Limit Switch – 2

- 11. Supply Socket – Single Phase : Single Phase Industrial Socket.
- 12. Supply Socket – Three Phase : Three Phase Industrial Socket.

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