

MAGNUM[®]

More Power, Better Controls

USER MANUAL

SINGLE PHASE OPEN WELL PUMP PANEL

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KALP CONTROLS

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INTRODUCTION

Dear Customer,

Congratulations on purchase of MAGNUM OPEN WELL PUMP PANEL. This is made with heavy duty components, which protects your pump from hazards caused due to over-current.

Located in Bangalore, Kalp Controls commenced its operations in the year 2009. At Kalp Controls, we are focused on offering you heavy duty,

1. Submersible Pump Panel - DOL & Star Delta
2. Open Well Pump Panel
3. Starters - DOL & Start Delta
4. Single Phasing Preventer & Auto Start Unit.
5. Spares like Contactor, Relay, Capacitor, Meters etc.

ABOUT MAGNUM SINGLE PHASE OWPP PANEL:

MAGNUM Single Phase OPEN WELL PUMP PANELS are elegantly designed generally comprise of MCB and heavy duty run capacitor. Control Panels that help open well pumps to switch on and off, and also ensure the motor runs efficiently with their run capacitors.

Functions:

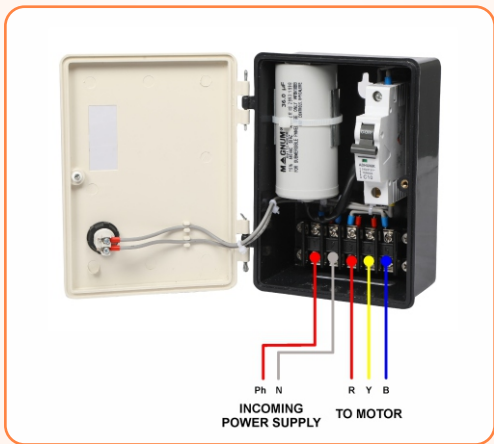
1. Switches your pump/motor on and off.
2. Maintains torque level while the pump is running.
3. Protects the pump from over current.
4. Protects the pump from Short Circuit.

Salient Features:

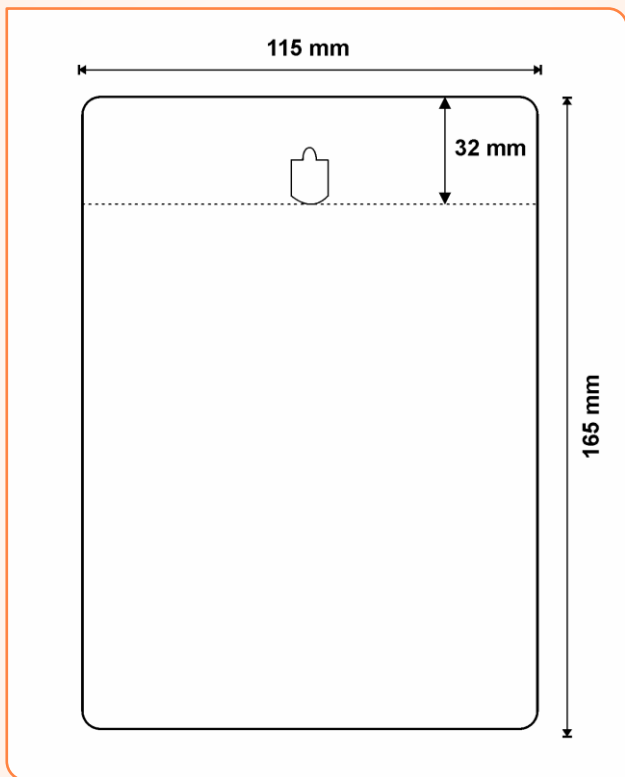
1. Engineered Poly Carbonate Enclosure withstands High Temperature and is free from Short- Circuit and Corrosion unlike the metal ones.
2. Heavy Run Capacitors.
3. Fitted with Miniature Circuit Breaker for reliable overload and short circuit protection.
4. Easy & quick mounting.
5. Ergonomic design with aesthetic looks.
6. No screw protrusion from the panel, hence additional safety from water, dust, corrosion and electric shock.

INSTALLATION INSTRUCTIONS:

1. This Control Panel is designed to run only a Single-Phase Open Well Pump.
2. It is very important to ensure the current rating (power in H.P) of your motor and Control Panel are same.
3. Drill holes as per the given Mounting Templates.
4. Control Panel to Open Well Pump connection,



- i. Connect the incoming power supply to P and N terminals of the connector as shown in the above picture.
- ii. Connect the motor cable Red to R of the connector, Yellow to Y of the connector and Blue to B of the connector.

MOUNTING TEMPLATE: (Not to scale)

SWITCHING AND OPERATING:

1. Switch on the supply.
2. Ensure MCB is in ON position (Upwards)
3. The motor can be switched off by MCB.

TECHNICAL SPECIFICATIONS:

1. Power range : 0.5/1/1.5/2 HP
2. MCB : Single Pole (6A to 20A)
3. Area : (172*122*72) mm
4. Net Weight : 0.6 Kg
5. Frequency : 50Hz
6. Insulation Voltage Ac (Vi) : 660V
7. Ambient Temperature : -25°C to +55°C
8. Terminal Capacity : 1 * 16 (mm)² or 2 * 10 (mm)²

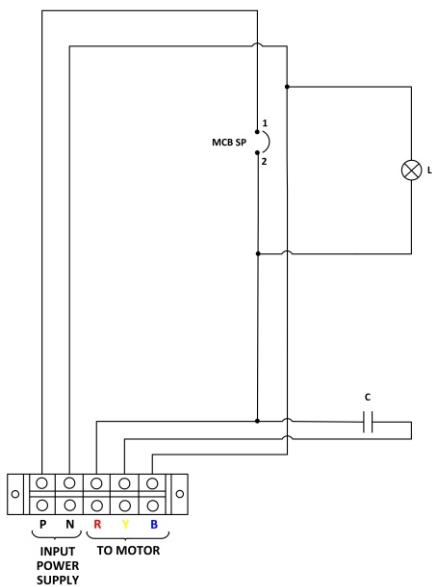
Normal Configuration of the Panel:

Sl. No.	Power (HP)	Catalogue No.	Run Capacitor (μf)	MCB Range (A)
1	0.5	OWPPH	25	6
2	1	OWPP1	36	10
3	1.5	OWPP1H	50	16
4	2	OWPP2	72	20

PANEL DIMENSIONS:



CIRCUIT DIAGRAM:



**MAGNUM SINGLE PHASE OPEN WELL
PUMP PANEL - STANDARD**

NOTES:

P => PHASE (SUPPLY)
 N => NEUTRAL (SUPPLY)
 R & B => MAIN WINDING TERMINALS
 Y => AUXILIARY WINDING TERMINAL
 C => RUN CAPACITOR
 L => MOTOR ON LAMP

PRECAUTIONS & MAINTENANCE:

1. It's best that a qualified electrician installs the panel and repairs it in case of any problem.
2. A dust free environment is vital for long run of the control Panel. It is very important to keep the control Panel away from water or moisture. In very humid places it is strongly recommended to keep it in a closed setting.

TROUBLE SHOOTING:

1. If motor/pump does not start:
 - Reset the MCB and then try starting again
2. If motor draws excess current:
 - Absence of water or load in the pump.

SPARES AND ASSEMBLIES AVAILABLE FOR THIS PANEL:

Part Description	Specification	Part No.
Magnum Run Capacitor	25 μ f	CR25
	36 μ f	CR36
	50 μ f	CR50
	72 μ f	CR72
	100 μ f	CR100
Terminal Block 5Way H-Type	30A	CBO35H
LED Indicator 220V,16mm (R)	APL 21	ISL16R

Warranty Policy:

This product carries a warranty, against manufacturing defects only for a period of **12 months** from the **date of** manufacturing.

1. The warranty is however subject to provision of proper usage, efficient maintenance and **does not cover** defects arising out of **fire accident, Voltage Surge, Inefficient maintenance, faulty operation and willful or accidental damage**. Warrant is not covered for charred or burnt components at all.
2. The company will not be liable for any consequential loss, injury or damages attributable to defect or failure of its products.
3. We believe in our products and hence provide you with product guarantee, should it prove to be defective due to faulty workmanship or otherwise, we will remedy the defect or replace the faulty parts or the whole product at our discretion, as soon as possible, free of cost.
4. This product is made from quality raw materials and skilled assemblers. We believe in our product and hence provide you with this warranty of 12 months.
5. Proof of purchase (Invoice) is to be produced to avail the warranty.