



## Magnum Executive MaK-1 Pump Control Panel - Three Phase

### Functions

1. Switches your pump on and off.
2. Protects the pump from:
  - Over – Current
  - Single phasing condition
  - Phase Reversal
3. Convenience to choose from three modes of operation
  - Auto – Automatically starts the motor, once power resumes. (Prevention function is also On)
  - SPP – Only Prevention function is On
  - Bypass – Prevention and Auto Mode is switched off. (This is not Recommended)
 (Note: There would be option to select certain on time delay between 30 seconds to 5 minutes)
4. Indicates incoming voltage and current drawn by the motor.


### Salient Features

1. Powder coated MS enclosure for corrosion resistance & sturdiness.
2. Rugged MaK-1/Mau Contactor with wide voltage band (250V to 440V).
3. Fitted with MaK-1/Mau type relay for reliable overload protection.
4. Fitted with SZ-5 S Single Phasing Preventor and Auto Start - protects motor from single phasing and phase reversal conditions.
5. Ergonomic design with aesthetic looks.
6. Fitted with Digital Meter to inspect the motor current and incoming power supply.
7. Indication lamps for voltage supply in between all the three phases.
8. Porcelain connectors for safe and easy termination.
9. Gasketed enclosure for protection from ingress of dirt and water.

### Introduction

Magnum Executive MaK-1 Pump Control Panel - T.P is a powerful controller for your Three Phase Pump/Motor. It comes in a powder coated MS Enclosure, has reliable MaK-1 Contactor and Relay combined with the protection of SZ5 Preventor. Digital Metering adds to the convenience.

### Technical Specifications

1. Enclosure: Powder Coated Mild Steel
2. Current: AC
3. Operating Voltage: 70% to 105% of coil voltage
4. Pick up voltage: Minimum 70% of coil voltage
5. Drop off voltage: Below 50% of coil voltage
6. Contactor: MaK-1 (4Pole) /MaK-1 Heavy Duty(4Pole) Or MaU 4 Pole
7. Relay: MaK-1 4 Pole/ MaU 3P
8. Area: 275 \* 252 \* 150 mm
9. Net Weight: 1) 4.30 Kilograms (for MaK-1) 2) 4.90 Kilograms (for Mau)
10. Insulation Voltage AC (Vi): 660V
11. Frequency & Ambient Temperature: 50Hz & (-25°C to +55°C)
12. Terminal Capacity: 1 \* 16 mm<sup>2</sup> or 2 \* 10 mm<sup>2</sup>
13. Power range: Up to 15 HP/32A (1.5/2/3/5/7.5/10/12.5/15 HP)
14. Coil Voltage: 440 V
15. Phase: 3 Phase
16. Number of cable entries: 2 (bottom)
17. Enclosure cover: Fixed
18. Country of origin: 

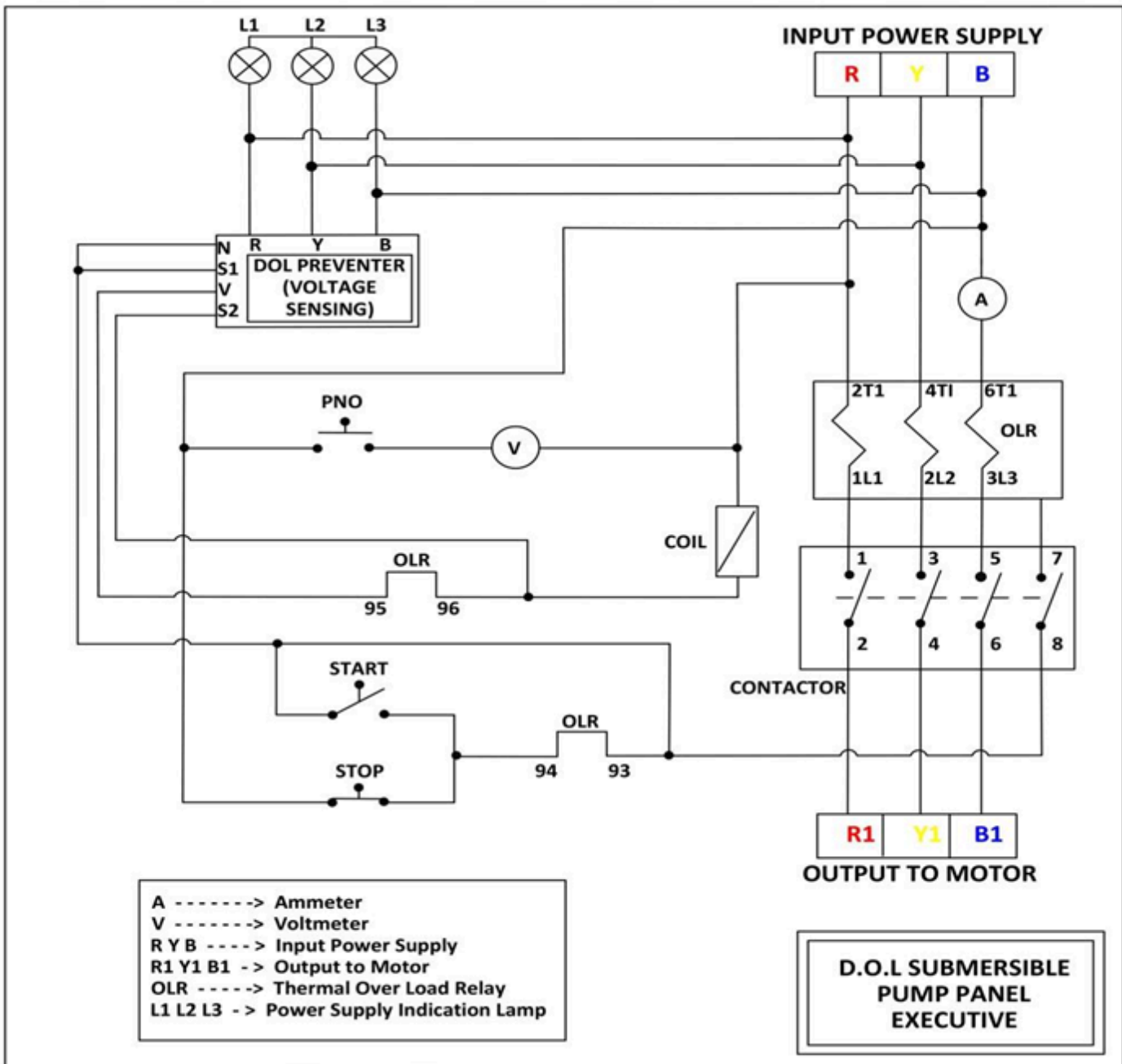
## Applications

Magnum Three phase DOL Pump Controllers/Starters are reliable "Workhorses" for domestic, agricultural and industrial applications. Magnum Controllers/Starters are found in many applications such as drainage, sewage pumping, general industrial pumping and slurry pumping.

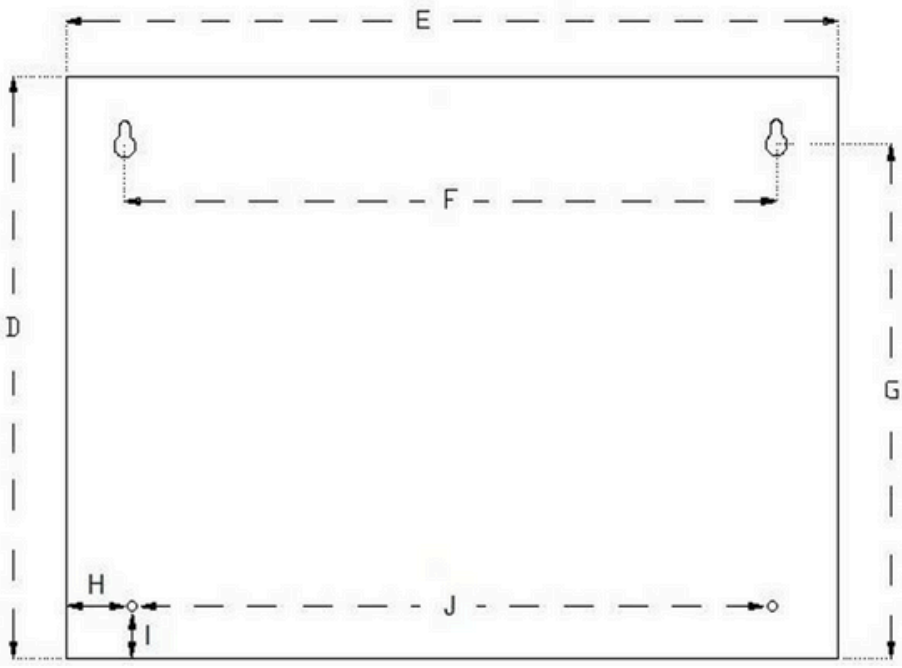
Also used to control,

\* Pumps/Motors \* Fans\* Compressors, lathes and other machinery \* Stirrers and mixers

## Circuit Diagram



**Mounting Template (mm): (Not to Scale)**



D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)
275	250	193	250	40	40	170

**Selection & Ordering info.**

<b>Relay Range (Amps)</b>	4-6.5	06-10	09-14	13-21	20-32	20-32	28-42
<b>Power in H.P.</b>	2	3	5	7.5	10	12.5	15
<b>MaK-1</b>	PTEK2	PTEK3	PTEK5	PTEK7H	PTEK10		
<b>MaU</b>	PTEU2	PTEU3	PTEU5	PTEU7H	PTEU10	PTEU12H	PTEU15
<b>Carton Pkg.</b>	4 units						

**Links**

Product page - <https://kalpcontrols.com/product/mak-1-three-phase-executive-dol-submersible-pump-panel/>  
 Video url - <https://www.youtube.com/playlist?list=PLOXFzEEAifkZpeLfs1T30uBuO6xd3pdQ>