

## MAGNUM SINGLE PHASING PREVENTER WITH AUTO-START UNIT



MAGNUM Single Phasing VOLTAGE SENSING PREVENTER & AUTO START UNIT is a powerful electronic circuit which prevents three phase operated electrical machines from single phase cut off, phase sequence reversal and unbalanced voltage. It can be used for any three phase motor upto 20H.P.

### APPLICATIONS

- Electrical Panels.
  - Compressor Motors.
  - Submersible Pumps.
- Any other three phase application

### SALIENT FEATURES

- This is a microcontroller based product which switches on three phase motor automatically & also protects it against under voltage, wrong phase sequence and phase failure condition.
- LED is provided to check the status of incoming power supply.
- Longer working life, in lieu of finest raw materials usage.
- Option to switch on the motor automatically (to start the motor automatically when power resumes).

### FUNCTIONS

- Protects the motor from
  - a) Single Phasing
  - b) Reverse Phasing
  - c) Unbalanced Supply Voltage
- Low/High Voltage Cut-off  
Option to automatically switch on the panel after power supply resumes.

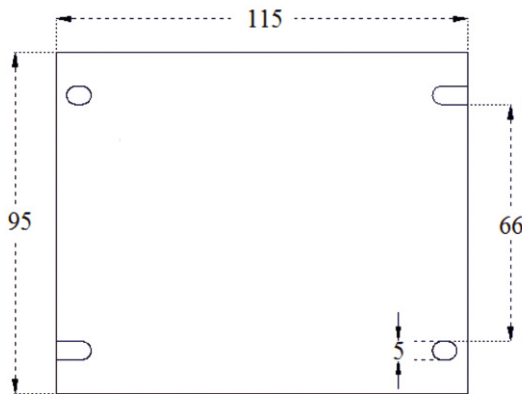
### SELECTION AND ORDERING RATINGS

Sl. No	Catalogue No	Type	Power (HP)
1	Am48	Voltage Sensing	0.5-20

## TECHNICAL SPECIFICATIONS

System Voltage: 415V+/-20%,50V	Frequency: 50 Hz
Auxiliary Supply: 415V+/-20%,50V	Trip delay Time: 4-7 secs
High Voltage Trip: 450V	Recommend Wiring: 1.0 Sq. mm
Low Voltage Trip: 320V	Humidity: Up to 95% RH
Voltage Imbalance: +/-10%	Weight: 418 grams
Output Contact Rating: 1C/o potential free, 6A resistive at 230V or 1A at 415V at 0.5 P.F	
Fail Safe: Relay energizes in healthy conditions and trips in faulty	

## DIMENSIONS TO MOUNT THE PREVENTER (mm)



\*The specifications shown may vary from the actual product. Please contact for the latest update.

## MAGNUM PRODUCT RANGE

### A. Major Product Lines

•Submersible Pump Panels- D.O.L (Single and Three Phase) •Open Well Pump Panels •DOL Motor Starters

### B. Sub - Assemblies

•AC Contactors • Over Load Relays •Run & Start Capacitors •Preventer with Auto-Start- Voltage Sensing

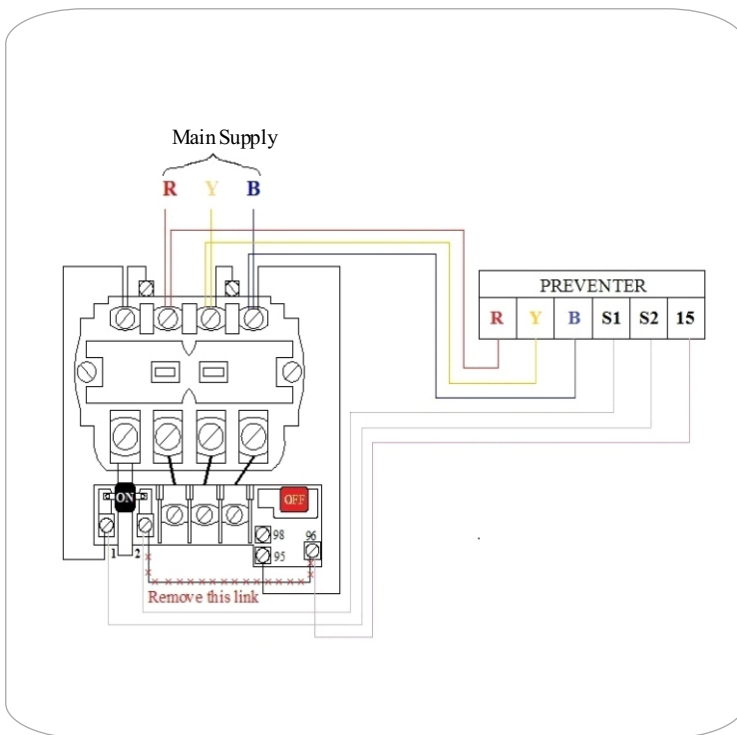
### C. Spares

•Contactor Housing •Push Buttons •Coils •Connectors •E-Core •Indicator Lamps •Rotary Switches  
•Analogue Meters •Spare Part Kits •Motor Starter Spares



## CONNECTING MAGNUM PREVENTER TO BCH TYPE DOL STARTER

### DIAGRAMATIC REPRESENTATION

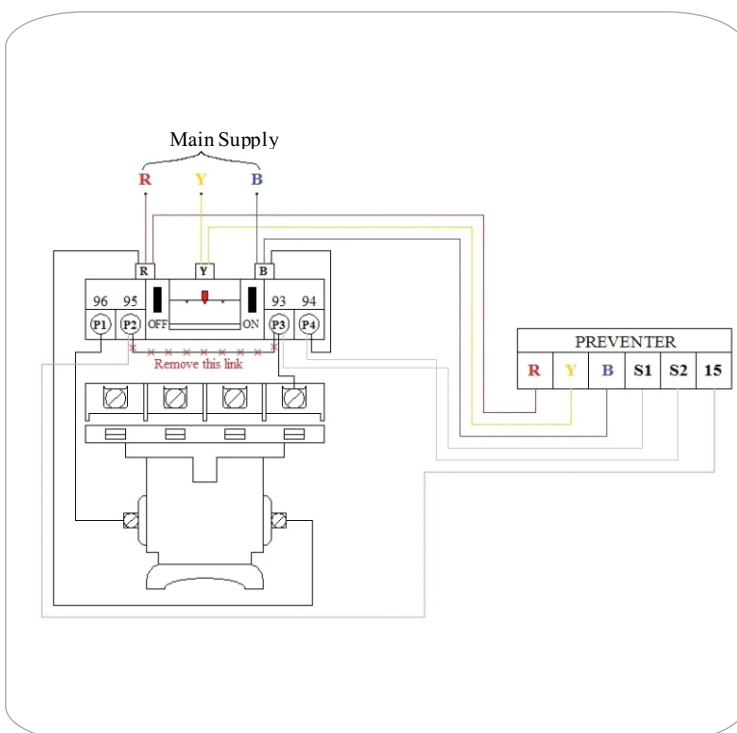


#### Steps to connect the preventer to BCH type DOL Starter

- 1) Connect R,Y,B (Preventer) to R,Y,B (Relay) respectively.
- 2) Connect S1 to Auxiliary (2)
- 3) Connect S2 to Auxiliary (1)
- 4) Connect 15 to Relay 96
- 5) Remove the link b/w Auxiliary (2) to Relay 96 (as shown in the diagram)

## CONNECTING MAGNUM PREVENTER TO L&T TYPE DOL STARTER

### DIAGRAMATIC REPRESENTATION



#### Steps to connect the preventer to L&T type DOL Starter

- 1) Connect R,Y,B (Preventer) to R,Y,B (Relay) respectively.
- 2) Connect S1 to Relay P3/93
- 3) Connect S2 to Relay P4/94
- 4) Connect 15 to Relay P2/95
- 5) Remove the link b/w P2/95 to P3/93 (as shown in the diagram)