







Magnum Trishakti Star Delta Starter MaK-1

Introduction

Magnum Trishakti Star Delta Starters Mak-1 are made for higher H.P Motors. The starters are manufactured using best raw materials, for uninterrupted flawless performance whilst controlling your motor/pump

Salient Features

- 1. Powder coated MS enclosure for corrosion resistance.
- 2.Rugged MaK-1 contactors with wide voltage band (250-440V).
- 3.Fitted with MaK-1 type relay for reliable overload protection.
- 4. Manual reset facility after overload protection.
- 5.ON/OFF status is visible through the window provided on top of the enclosure.
- 6.A latch on the push button can be used to keep the stop button locked, thus preventing accidental starting.
- 7. Current peak on changeover from star to delta.
- 8. Mechanical load on changeover from star to delta.
- 9.Easy & quick mounting.
- 10. Ergonomic design with aesthetic looks.
- 11. There is a provision for using an auxiliary contact block with configuration 2No + 2NC.

Functions

- 1. Switches your pump/ motor ON and OFF.
- 2. Protects the pump/motor from over-current.
- 3. Trips when there is a persistent overload on the motor.
- 4. Ensures reliable performance in high temperatures, humidity & under-voltage conditions.

Applications

Magnum three phase Star Delta starters Trishakti are reliable "Workhorses" for domestic, agricultural and industrial applications. Star Delta Starters are used in

- •Industries Heavy machineries
- •Floor Mills, compressor, lathe and others
- Water Irrigation Pumps

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/MaK-1Heavy Duty 4 Pole

7.Relay: MaK-14 Pole

8.Area: Mak-1(210 * 390 * 1050) mm

9.Net Weight: 5.30 Kilograms

10.Insulation Voltage AC (Vi): 660V

11.Frequency & Ambient Temperature: 50Hz &

(-25°C to +55°C)

12.Terminal Capacity: 1 * 16 mm² or 2 * 10 mm²

13. Power range: Up to 20 HP/32A

14.Coil Voltage: 440 V

15.Phase: 3 Phase

16. Number of cable entries: 2+2 (top+bottom)

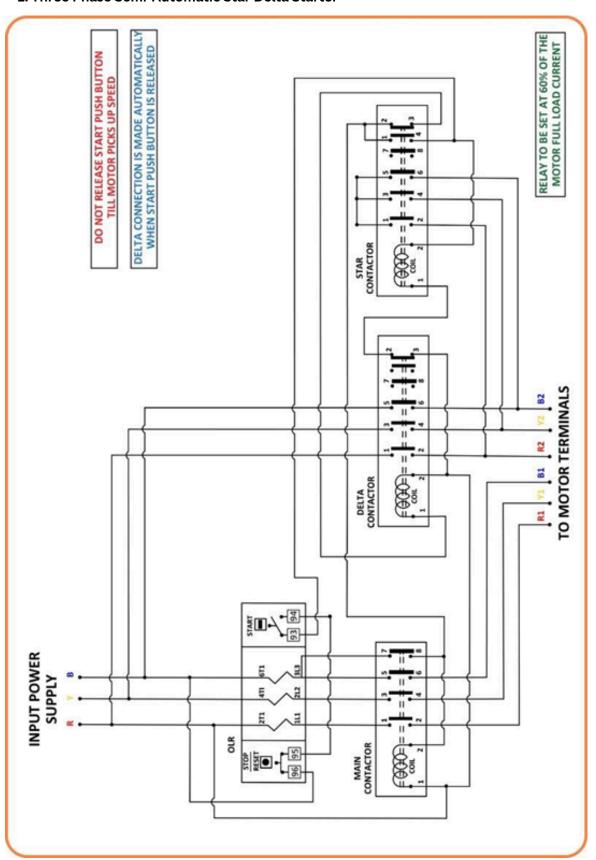
17.Enclosure cover: Detachable 18.Country of origin:





Circuit Diagram

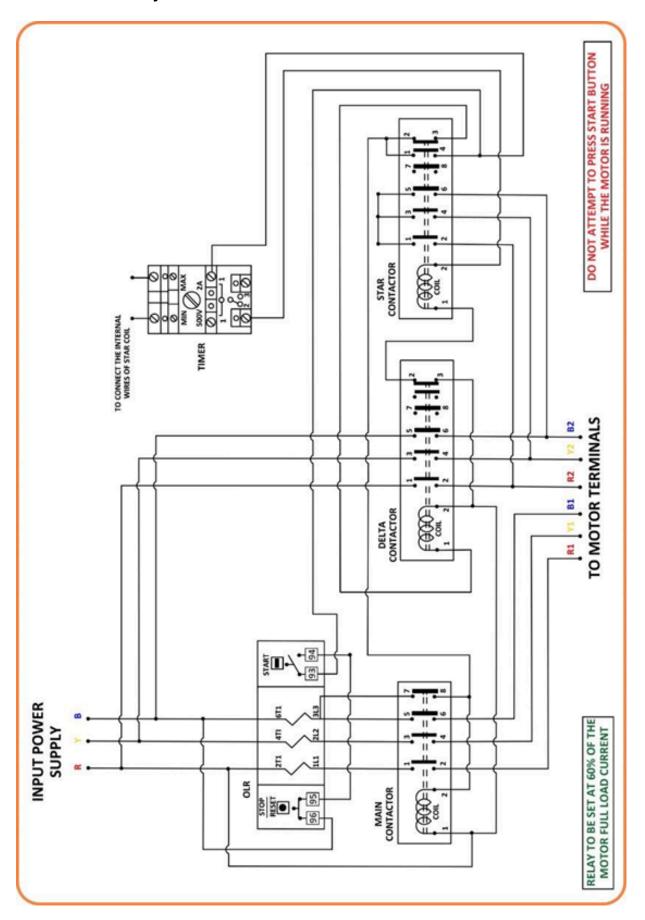
1. Three Phase Semi-Automatic Star Delta Starter







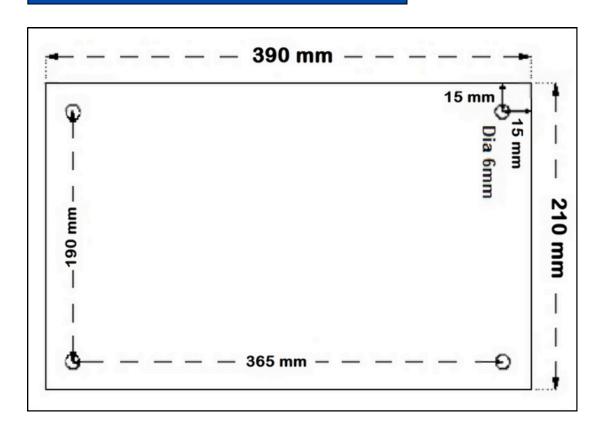
2. Three Phase Fully Automatic Star Delta Starter







Mounting Template (mm): (Not to Scale)



Selection & Ordering info.

Relay Range (Amps)	06-10	09-14	11-18	13-21	20-32	20-32
Power in H.P.	7.5	10	12.5	15	17.5	20
MaK-1 SASD	SDS7H	SDS10	SDS12H	SDS15	SDS17H	SDS20
MaK-1 FASD	SDF7H	SDF10	SDF12H	SDF15	SDF17H	SDF20
Std. Pkg.	4/ range					

Links

Product page - https://kalpcontrols.com/product/trishakti-star-delta-starters-mak-1/
Video url - https://www.youtube.com/playlist?list=PLOXFfzEEAifn1jazXer9HjUdur6MFA6qZ