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Motor Starter

Introduction - Motor Starter

0.50HP to 60.0 HP



DOL

4.0HP to 25.0HP



Agro Starter

4.0HP to 50.0HP



Star Delta Motor Starter

4.0 HP to 300.0HP



Fully Automatic Star Delta Motor Starter



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TC Motor Starters have been designed to meet the requirement of industrial and agro segment in the Indian tropical conditions considering the ease of installation and maintenance to protect the electric drives.

TC motor starter range includes direct-on-line Starters, Reversing Starters & Star Delta Starters, Which have been re-engineered to meet application needs of Indian industries. They afford reliable protection to motors against Overload & Single phasing, conforming to IS 13949-4-1.



Range:

❖ DOL Motor Starters

- DOL starter in sheet steel enclosure rating 0.50HP to 60HP
- DOL starter in plastic enclosure rating 0.50HP to 20HP
- Reversing DOL starter in sheet steel enclosure rating 0.50HP

❖ Star Delta Motor Starters

- Semi automatic star delta starter in sheet steel enclosure rating 4HP to 50HP
- Fully automatic star delta starter in sheet steel enclosure rating 4HP to 300HP
- Star Delta Starters have been re-engineered with liberal contactor rating selection & layout.





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- Start Delta Starter have all three contactors of same rating.
- Fully Automatic Star Delta Starters have been provided with Pneumatic Star Delta Timers for Smooth Changeover function.

Star Delta Starters

Features & Benefits

- Liberal choice of heavy duty contactors.
- Main Star & Delta Contactors of same rating.
- Pneumatic Star Delta Timer for reliable changeover function.
- Choice of wide Band No Volt Coil upto 35 HP
- Plug-in terminal block for incoming and outgoing aluminium cables upto 35 Hp
- Specious product layout for maintenance ease & aluminium cable termination.
- Large enclosure with IP55 protection category for industrial application.

Easy Cable Terminations

Fully automatic star delta starters upto 35HP been provided with add-on plug-in terminal blocks, which can be pre-wired & fitted on to contactors or overload relays, making terminations reliable & easy.

Whereas, Star Delta Starters above 40HP & have very specious layout within enclosure having provision of adequate size terminal for accepting aluminum cable from bottom.





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Features & Benefits

❖ Motor Protection

All motor starters are provided with thermal overload relay type LR1D which provide full protection against operational overload, single phasing and unbalanced voltages. The overload relay is manual reset type to ensure that motors cannot be started unless the tripping cause has been investigated and removed. Each relay has 1 NO / 1 NC potential free contacts and ambient temperature compensated from -40°C to 60°C.

❖ Contactors

DOL motor starters have D-Range contactors whereas in the star delta starters, D and F-Range contactors are used depending upon the HP rating. The liberal selection of contactor has been made for long trouble-free life. Motor starters have the option of various wide band coil voltages to suit different voltages requirement of the application.

❖ Enclosures

Each DOL starter up to 60HP and star delta starter up to 35HP is housed in elegant, sturdy design, deep drawn enclosure to IP-55 category, which is powder coated to suit polluted industrial and agricultural environment.

❖ Add-On Terminals

Agro DOL starters in sheet steel enclosure up to 10HP have provision of additional terminal to accept incoming power cables. Whereas, fully automatic star delta starter up to 25HP have been provided with Add-on terminal blocks which can be pre-wired and fitted on to the contactor or overload relay to have easy and reliable cable termination.