

MANUAL STAR-DELTA STARTERS

Specifications & Features:

- Range - available up to 15 HP/11KW
- Heavy duty 4P (AC-3), 16/25A Contactor with wide band operating coil
- Citation Relays protects motor from phase failure, phase reversal and phase imbalance
- Simple construction for easy maintenance
- Change over from Star to Delta through switch
- Starter can be set for manual or auto reset
- Ideal for Oil Mills, Flour Mills & Agri Industries.



MINI MANUAL STARTERS

Direct On-line manually operated, Mini starters are designed for non-reversing control of all type of squirrel cage motors with an intermittent duty of 15 starts per hour complying with performance requirement of IS 8544 Part I

Specifications & Features:

- Range - available up to 10HP (3PH) & up to 4HP (1PH)
- Flush and Base Mounting version available
- Trips automatically in low voltage conditions (with UV Coil)
- Prevents motor from restarting when power comes back
- Utilization category AC3 as per IEC 292-1 and IS 8544 Part I
- Insulation voltage 600V
- Thermal rating is 20A
- Operational current is 16A at 415VAC
- Frequency of operation 15 operations per hour
- Mechanical life 1x10⁶ operations
- Deep drawn Sheet Steel enclosure conforms to IP 51 as per IS 2147
- Terminal capacity One cable of 6 mm² or two cables of 4 mm²



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NHD CONTACTORS

NHD 4-Pole & 2-Pole Contactors (TOUGH, RUGGED, RELIABLE)

NHD 4 Pole contactors have definite use with many distinctive features. It is offered with choice of add-on auxiliary contact block with configuration 1 NO + 1NC, 2NO or 2NC

For single phase power control, 2-Pole Power contactor "CPG" type is based on the proven design of NHD 4P contactor, that has enjoyed the confidence of customers across various segments.

Specifications & Features:

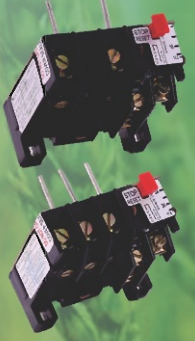
- Conforms to latest standard IEC 60947-4-1
- 4-Pole Power Contactor rating 12A,16A, 20A, 25A, 32A & 40A
- 2-Pole Power Contactor rating 12A,16A, 20A, 25A, 32A & 40A
- Compact and Robust Construction using high grade mouldings
- Weld resistant silver alloy contacts
- Encapsulated coil for high withstand capacity
- High Mechanical Endurance: 5 x 10⁶ operations
- High Electrical Endurance (AC-3): 1 x 10⁶ operations
- Maximum Frequency of operation: 600 operations per hour
- Standard Coil Voltages (AC): 24V, 48V, 110V, 220-240, 380-415 VAC 50 Hz
- Wide Band 160-220 VAC for 2P Contactors
- Wide Band 275-420 VAC for 4P Contactors
- Auxiliary Contacts : 1NO + 1NC or 2NO or 2NC options available
- Spare Coil and Contact Kit available



WP OVERLOAD RELAYS (2-POLE & 3-POLE)

Specifications & Features:

- 2-Pole relay upto 32A
- 3-Pole relay upto 32A
- CT operated relay from 24A to 600A
- Conforms to latest standard IEC 60947-4-1
- Ambient temperature compensated
- Test button for checking tripping mechanism
- Field convertible auto /manual reset
- Perfect protection to single phase & three phase motors
- Designed to withstand wide fluctuations in agricultural applications



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BCH SMART STARTER

Specifications & Features:

- Protections - Under Voltage & Over Voltage protection (Adjustable), Under load (dry run protection) (Adjustable), Overload & Short Circuit protection, Phase reversal fault and phase failure fault, Phase to phase unbalance protection on both Voltage & Current, Suitable locked rotor protection
- It can be operated remotely via landline, smart phone, laptop or web application.
- Suitable for outdoor application (IP-54) & impact strength (IK-6)
- Meter displays parameters related to current, voltage, PF, Frq, power & energy



REVERSING DOL STARTERS

Specifications & Features:

- Range available upto 20HP (relay range 22-30A)
- Deep drawn powder coated enclosure
- Auto manual selection through overload relay



1-PHASE DOL STARTERS

Specifications & Features:

- Range available upto 3HP (relay range upto 17.4-24A)
- DOL with 2Pole CPG Contactor & 2Pole OLR
- Encapsulated & hermetically sealed coil
- Auto manual selection through overload relay
- Powder coated deep drawn enclosure for excellent finish & durability



SUBMERSIBLE FLAT CABLE

3 Core Flat Cable

Specifications & Features:

- Range 1.0-35sq mm
- Conforming to IS 694:2010
- Use of ETP copper conductor 99.98% purity
- Thick sheathed PVC / XLPE insulated type cables available



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MCB (MINIATURE CIRCUIT BREAKER)

Specifications & Features:

- Rating: 6A to 63A
- Poles: 1P/SPN/2P/3P/TPN/4P
- Tripping Curve B & C
- Conforms to IS/IEC-60898-1
- IP 20 Degree protection (Finger Proofed terminals)
- Breaking Capacity 10kA
- Impulse voltage withstand 4 KV
- Suitable for isolation
- Terminal Capacity 35 sq. mm (Cu)
- Possibility of bus bar termination at both ends



Switchgear & Control Gear
Motor Starters & Submersible Pump Starters
Automation
Enclosures
Electric Motors
Wires & Cables
Reactive Power Management
Brakes and Crane Control
Custom Build Products



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BCH Motor Starter

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BCH ELECTRIC LIMITED

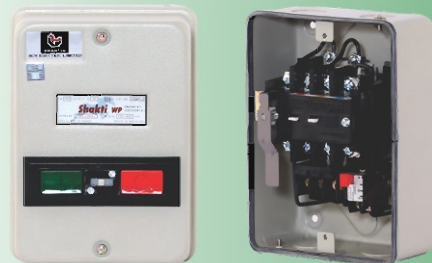
"SHAKTI" STARTERS

Shakti Starter is designed for operation and protection of agricultural pump motors. The starter is housed in a powder coated, deep drawn, sheet steel enclosure, resistant to the entry of dust and falling water.

SHAKTI & SHAKTI "WP" DOL STARTERS

Specifications & Features:

- Range - Available up to 24A relay rating
- Wide Band Coil available (190-400 VAC, 230-420 VAC etc.)
- Heavy duty 4P 20A (AC-3) Contactor with moulded coil
- Excellent temperature compensation between -10°C and +80°C (+55°C max. ambient)
- Conforms to latest standard IS/IEC 60947-4-1
- Enclosure Protection degree: IP 40



SHAKTI STAR - DELTA STARTERS

Specifications & Features:

- Range - up to 15 HP/11KW in semi and fully Automatic versions
- Wide band coil available (190-400 VAC, 275-420 VAC etc.)
- Heavy duty 4P 16A (AC-3) Contactor with moulded coil
- Automatic version with electronic timer for reliable change over from Star to Delta
- Protects motor from phase failure, phase reversal and phase imbalance
- Separate Terminal blocks for easy wiring and components safety



SHAKTI SUBMERSIBLE DOL PUMP STARTERS

Specifications & Features:

- Heavy duty 4P 20A (AC-3) Contactor with moulded coil
- Wide Band Coil available (190-400 VAC, 230-420 VAC etc.)
- Auto start with on delay timer (5-10 sec.)
- Protects motor from phase failure, phase reversal and phase imbalance
- Voltmeter with phase selector switch
- Short circuit protection version (Premium Model)
- Provision for dry run protection (Premium Model)
- Auto / Manual / Manual SPP selector switch
- Powder coated deep drawn Sheet Steel Enclosure



SHAKTI AUTO-START DOL STARTERS

Specifications & Features:

- Range up to 15HP
- Heavy duty 4P 20A (AC-3) Contactor with moulded coil
- Wide Band Coil (190-400 VAC, 230-420 VAC etc.)
- Auto Start with On-Delay Timer (5-10 Sec or 5 Min option)
- Auto/Manual/Manual SPP selector switch
- Phase reversal protection
- Phase imbalance protection
- Single phasing protection
- Powder coated Sheet Steel Enclosure



"CITATION" DOL STARTERS & INTERIORS

Citation M Direct-on-line Starter meets the need of high reliability in a wide range of applications. They are used for switching AC motors and offer complete motor protection against overloads, single phasing & severe unbalanced voltages.

Specifications & Features :

- Range - available up to 40 HP
- Selection of manual & automatic resetting of overload relay
- Wide Band Coil from 260-400 VAC, 275-420 VAC, 380-415 VAC etc.
- Excellent temperature compensation between -10°C and +80°C (+55°C max. ambient)



"CITATION" STAR-DELTA STARTERS

Citation M Star Delta Starters are used for controlling AC motors and offer complete motor protection against overloads, single phasing and severe unbalanced voltages in accordance with latest IS/IEC specifications.

Specifications & Features:

- Range - available up to 375 HP
- Fully-Automatic & Semi-Automatic versions
- Wide Band Coil from 260-400 VAC, 275-420 VAC, 380-415 VAC etc.
- Protects motor from phase failure, phase reversal and phase imbalance
- Selection of manual & automatic resetting of overload relay
- Excellent temperature compensation between -10°C and +80°C (+55°C max. ambient)
- Conforms to latest standard IS/IEC 60947-4-1



"CITATION" SUBMERSIBLE PUMP STARTERS

DOL STARTERS

Specifications & Features:

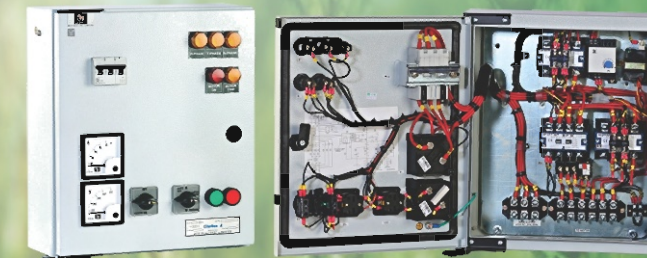
- Available in Economy & Premium versions
- Heavy duty 4 pole Contactor with moulded coil
- Range - available up to 32A relay rating
- Wide Band Coil from 260-400 VAC, 275-420 VAC, 380-415 VAC etc.
- Protects motor from phase failure, phase reversal and phase imbalance
- Short circuit protection (Premium Version)
- Separate Ammeter and Voltmeter
- Voltmeter with phase selector switch
- Motor On & Trip indications
- Provision for dry run protection
- Powder coated sheet steel enclosure
- Conforms to latest standard IS/IEC 60947-4-1



STAR DELTA STARTERS

Specifications & Features:

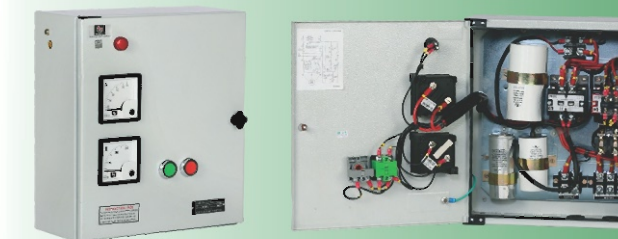
- Available in Economy & Premium versions
- Heavy duty 4 pole Contactor with moulded coil
- Range - available up to 90A relay rating
- Wide Band Coil from 260-400 VAC, 275-420 VAC, 380-415 VAC etc.
- Protects motor from phase failure, phase reversal and phase imbalance
- Short circuit protection (Premium Version)
- Separate Ammeter and Voltmeter
- Powder coated sheet steel enclosure
- Voltmeter with Phase Selection Switch
- Conforms to latest standard IEC 60947-4-1



SUBMERSIBLE PUMP STARTERS FOR 1-PHASE APPLICATIONS

Specifications & Features:

- 1-Phase SPS with 2-Pole CPG Contactor and relay up to 23-32Amp (for water cooled submersible pumps)
- 1-Phase SPS with Mini-DOL up to 11-20 Amp relay range (for oil cooled submersible pumps)
- Wide range of variants to serve the need of all customers
- Wide band encapsulated coil (160-220 VAC)
- Complete isolation of supply to motor when starter is off.
- Provision for dry run protection
- Powder coated sheet steel enclosure
- Various combination of Start & Run Capacitors to run all types of Pumps



OIL - IMMERSED STARTERS

This starter has a definite edge over the other brands available in market due to its superior protection and easy maintenance, which have been a matter of concern for the customer so far. BCH Starters address these issues and provide complete peace of mind to the customer & electrician.

Specifications & Features:

- Range - available DOL up to 20 HP (Upto 24A Relay range)
- Range - available Star Delta up to 35 HP (Upto 32A Relay range)
- Suitable for low voltage applications
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide band coil operating voltage (220-400 VAC, 380-415 VAC etc.)
- Dust proof, powder coated deep drawn sheet steel enclosure
- Easy replacement of contacts and coil
- Enclosure Protection degree: IP 54
- Light weight and best aesthetic appeal in its category

