



SUBMERSIBLE PUMP STARTER WITH DRY RUN PROTECTION 1-PHASE APPLICATIONS

Specifications & Features:

- Range upto 3HP
- 2-Pole Contactor and 2-Pole relay up to 22-30Amp
- Digital display to show ampere & voltage
- Microcontroller based technology
- Auto Off Timer - 1 to 60 Min (Field settable)
- Fault log (last 10 faults)

Protections:-

- Dry Run 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90% of rated set current (Field settable)
- Overload (Field settable)
- Over Voltage protection - Factory set at 265V



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 1x10⁷ operations
- Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- Terminal capacity One cable of 6 mm² or two cables of 4 mm²



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 NHD Contactor rating 12A, 16A, 20A, 25A, 32A & 40A
- 2-Pole CPG Contactor rating 12A, 16A, 20A, 25A, 32A & 40A
- 2-Pole CPGN Contactor rating 16A, 20A, & 25A
- Compact and Robust Construction using high grade moulding
- 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 160-220V & 140-240V for 2P Contactors
- Wide Band 275-420V, 310-400V, 230-360V, 260-400V for 4P Contactors
- Auxiliary Contacts : 1NO + 1NC or 2NO or 2NC options available
- Spare Coil and Contact Kit available



OVERLOAD RELAYS (2-POLE & 3-POLE)

Specifications & Features:

- 2-Pole relay upto 32A
- 3-Pole relay upto 40A
- 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



SHAKTI AUTO - START DOL STARTERS

Specifications & Features:

- Range up to 24A relay
- Heavy duty 20A (AC-3) Contactor with moulded coil
- Wide Band Coil (190-400V, 275-420V)
- Auto Start with On-Delay (5-10 Sec or 5 Min option)
- Auto/Manual/Manual SPP selector switch
- Phase reversal protection
- Phase imbalance protection
- Single phasing protection
- Powder coated deep drawn sheet steel enclosure for excellent finish & durability



CITATION P AUTO DOL STARTER

- Range - available up to 40A relay rating
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide Band Coil options 260-400 VAC, 310-420 VAC, 380-415 VAC
- **Separate Terminal Block** for incoming & outgoing for easy wiring & component safety
- Protects motor from phase failure, phase reversal and phase imbalance
- Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1



CITATION P DOL STARTER

- Range - available up to 40A relay rating
- Equipped with highly reliable and accurate overload relay for motor protection
- **Separate Terminal Block** for easy wiring & component safety
- Wide Band Coil options 260-400 VAC, 310-420 VAC, 380-415 VAC
- Protects motor from phase failure, phase reversal and phase imbalance
- **Bigger size** Powder Coated Deep drawn Sheet Steel enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1



REVERSING DOL STARTERS

Specifications & Features:

- Range available upto 20HP (relay range 22-30A)
- Heavy duty 4P NHD Contactor
- Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- 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 sheet steel enclosure for excellent finish & durability



SUBMERSIBLE FLAT CABLE

3 Core Flat Cable with XLPE insulation

Specifications & Features:

- Range 1.5-16sq mm
- Use of 99.98% pure ETP copper conductor with 101% conductivity
- The operating temperature of XLPE is 90 degree C
- It is covered with extra protection of cores which provide protection wall of sheath
- Working with extreme voltage fluctuations & higher current carrying capacity

3 Core Flat Cable

Specifications & Features:

- Range 1.0-120sq mm
- Conforming to IS 694:2010
- Thick sheathed PVC Insulated type cables available



CRDRF

Specifications & Features:

- Range 0.5-6.0sq mm with coil size 90mtr, 180mtr & 270mtr
- Double insulation with Anti rodent PVC
- Glossy & smooth surface finish



FR & FRLSH

Specifications & Features:

- Range 0.5-300sq mm with coil size 100 mtr.
- Superior Flame retardant characteristics with Low emission of toxic gases

MULTICORE CABLE

Specifications & Features:

- Range upto 24 cores with type A PVC
- Coil size in multiple of 100mtr is available
- Special PVC formulation for stress free insulation to ensure long life

MCB (MINIATURE CIRCUIT BREAKER)

Specifications & Features:

- Rating: 0.5A to 63A
- Poles: SP/SPN/DP/TP/TPN/FP
- Tripping Curve B & C
- Conforms to IS/IEC-60898-1 (6A-63A) & IS/IEC60947-2 (0.5 - 5A)
- 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



Also available BCH RCCB's & MCB Distribution Boxes



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Motor Starters & Submersible Pump Starters
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Enclosures
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BCH Motor Starter

Think Starter Think BCH



BCH ELECTRIC LIMITED

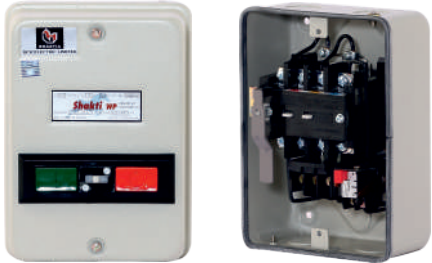
“SHAKTI” STARTERS

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, which are resistant to the entry of dust and falling water.

SHAKTI & SHAKTI “WP” DOL STARTERS

Specifications & Features:

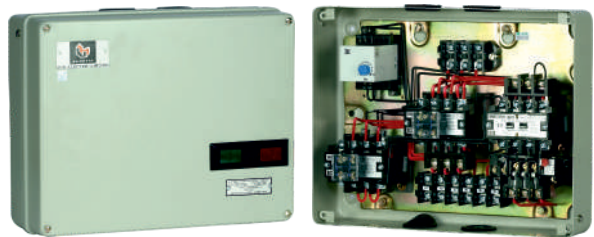
- Range - Available up to 24A relay rating
- Wide Band Coil available (190-400V, 275-420V & 380-415V)
- Heavy duty 20A (AC-3) Contactor with moulded coil
- Equipped with highly reliable and accurate overload relay for motor protection
- Overload relay - Excellent temperature compensation between -10°C and +80°C (+55°C max. ambient)
- Conforms to latest standard IS/IEC 60947-4-1
- Degree of protection IP54



SHAKTI STAR - DELTA STARTERS

Specifications & Features:

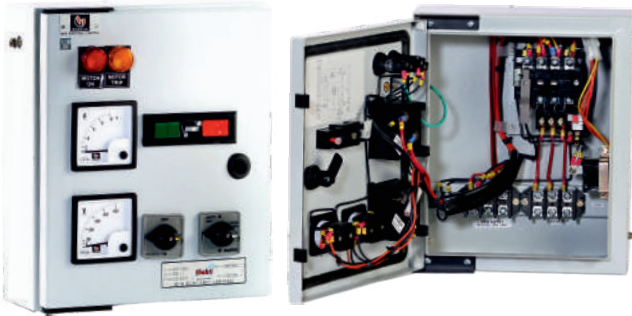
- Range - Available up to 24A relay rating in semi and fully Automatic versions
- Wide band coil available (260-400V, & 380-415V)
- Heavy duty 4P 16A (AC-3) Contactor with moulded coil
- Equipped with highly reliable and accurate overload relay for motor protection
- Automatic version with electronic timer for reliable change over from Star to Delta
- Separate Terminal blocks for easy wiring and components safety



SHAKTI DOL SUBMERSIBLE PUMP STARTERS

Specifications & Features:

- Range - Available up to 24A relay rating
- Heavy duty 20A (AC-3) Contactor with moulded coil
- Wide Band Coil available (190-400V, 275-420V & 380-415V)
- Auto Start with On-Delay (5-10 Sec or 5 Min option)
- Protects motor from phase failure, phase reversal and phase imbalance
- Voltmeter with phase selector switch
- Auto / Manual SPP / Bypass selector switch
- Powder coated Sheet Steel Enclosure for excellent finish & durability
- + Conforms to latest standard IS/IEC 60947-4-1



SHAKTI P DOL SUBMERSIBLE PUMP STARTERS

Specifications & Features:

- Range - Available up to 24A relay rating
- Heavy duty 20A (AC-3) Contactor with moulded coil
- Wide Band Coil available (190-400V, 275-420V & 380-415V)
- + Better esthetic look & easy to maintain due to use of Bus Bar
- Auto Start with On-Delay (5-10 Sec or 5 Min option)
- Protects motor from phase failure, phase reversal and phase imbalance
- + Rocker Switch to switch off control supply
- SPP with integrated Auto / Manual SPP / Bypass selector switch
- Powder coated Sheet Steel Enclosure for excellent finish & durability
- + Conforms to latest standard IS/IEC 60947-4-1
- + Degree of Protection IP54



“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 260-400V & 380-415V
- Equipped with highly reliable and accurate overload relay for motor protection
- + Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- Overload relay - 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
- Equipped with highly reliable and accurate overload relay for motor protection
- Overload relay - Excellent temperature compensation between -10°C and +80°C (+55°C max. ambient)
- Fully-Automatic & Semi-Automatic versions
- Wide Band Coil from 260-400V, 275-420V, 380-415V
- Protects motor from phase failure, phase reversal and phase imbalance
- Selection of manual & automatic resetting of overload relay
- + Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1

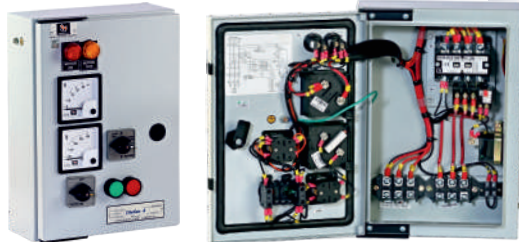


“CITATION” SUBMERSIBLE PUMP STARTERS -

DOL SPS

Specifications & Features:

- Available in Economy & Premium versions
- Heavy duty 4 pole Contactor with moulded coil
- Range - available up to 40A relay rating
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide Band Coil from 260-400V, 275-420V, 380-415V
- Protects motor from phase failure, phase reversal and phase imbalance
- Short circuit protection (Premium Version)
- Separate Ammeter and Voltmeter
- Voltmeter with voltage selector switch
- Motor On & Trip indications
- Provision for dry run protection
- + Powder coated Sheet Steel Enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1
- + Degree of Protection IP54



STAR DELTA SPS

Specifications & Features:

- Available in Economy & Premium versions
- Heavy duty 4 pole Contactor with moulded coil
- Range - available up to 135 A relay rating
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide Band Coil from 260-400V, 310-400V, 380-415V
- Protects motor from phase failure, phase reversal and phase imbalance
- Short circuit protection (Premium Version)
- Separate Ammeter and Voltmeter
- + Powder coated Sheet Steel Enclosure for excellent finish & durability
- + Voltmeter with voltage selector switch
- Conforms to latest standard IEC 60947-4-1
- + Degree of Protection IP54



“CITATION” P SUBMERSIBLE PUMP STARTERS

DOL SPS - P Series

Specifications & Features:

- + Range - available up to 40A relay rating
- Heavy duty NHD Contactor with moulded coil
- + Wide Band Coil available (260-400V, 310-420V & 380-415V)
- Equipped with highly reliable and accurate overload relay for motor protection
- + SPP with integrated Auto / Manual SPP / Bypass selector switch
- Protects motor from phase failure, phase reversal and phase imbalance
- + Better esthetic look & easy to maintain due to use of Bus Bar
- Separate Ammeter and Voltmeter
- + Rocker Switch to switch off control supply
- Motor On & Trip indications
- Provision for dry run protection
- + Powder coated Sheet Steel Enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1
- + Degree of Protection IP54



STAR DELTA SPS - P Series

Specifications & Features:

- + Range - available up to 40A relay rating
- Heavy duty NHD Contactor with moulded coil
- + Wide Band Coil available (230-360V, 260-400V, 310-420V & 380-415V)
- + Better esthetic look & easy to maintain due to use of Bus Bar
- + Auto Start with On-Delay (5-10 Sec or 5 Min option)
- Equipped with highly reliable and accurate overload relay for motor protection
- + SPP with integrated Auto / Manual SPP / Bypass selector switch
- Protects motor from phase failure, phase reversal and phase imbalance
- + Voltmeter with voltage selector switch
- + Rocker Switch to switch off control supply
- + Powder coated Sheet Steel Enclosure for excellent finish & durability
- Conforms to latest standard IS/IEC 60947-4-1
- + Degree of Protection IP54



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)
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide range of variants to serve the need of all customers
- Wide band encapsulated coil (160-220V & 170-240V)
- Complete isolation of supply to motor when starter is off.
- Provision for dry run protection
- + Powder coated Sheet Steel Enclosure for excellent finish & durability
- Various combination of Start & Run Capacitors to run all types of Pumps
- + Degree of Protection IP54



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 - DOL up to 24A Relay range
- Range - Star Delta up to 32A Relay range
- Suitable for low voltage applications
- Equipped with highly reliable and accurate overload relay for motor protection
- Wide band coil operating voltage (220-400V & 380-415V)
- + Powder coated deep drawn sheet steel enclosure for excellent finish & durability
- Easy replacement of contacts and coil
- Best aesthetic appeal in its category

