



# SUBMERSIBLE PUMP STARTERS for Single Phase Pumps



BCH ELECTRIC LIMITED  
*we care for you*

# Submersible Pump Starters

---

## 1- Phase Submersible Pump Starter (with Mini Manual DOL Starter)



### The product Offer

1. 1- Phase SPS with Mini- Manual DOL Starter up to a maximum relay range of 11.0-20.0 Amp. in Economy, Standard and Premium versions.
2. 1- Phase SPS with 2 Pole Contactor and Relay (maximum relay range up to 17.4-24.0 Amp.) in Economy and Standard versions.

### Type of Submersible Pumps

1. Oil Cooled
2. Water Cooled

In Oil cooled Submersible pumps, because of lesser starting torque requirements, RUN Capacitor alone is sufficient and a separate START capacitor is not required.

SPS with Mini-Manual DOL starter is specifically designed for oil cooled submersible pumps and equipped with RUN capacitor.

These SPS starters are available in 3 versions:

1. Economy (without meters),
2. Standard (with Ammeter)
3. Premium (with Ammeter and voltmeter)

### Salient features of Submersible Pump Starter with Mini-Manual DOL Starter.

#### Features of Mini DOL Starter

Ref Standard	: IS 13947-4-1
No of Poles	: 2
Operating Temp Limits	: -20° C to +60° C Ambient
Rated Current (Ie) Amps	: 16A, AC 3
Operational Voltage (Ue)	: 240V
Rated Thermal Current (Ith)	: 20 Amps
Rated Insulation Voltage	: 600 V
Mechanical life	: 1 lakh operation
Frequency of operation	: 15 / hr.
Version	: Single-phase
Operation	: Manual

#### Termination

Separate conveniently located terminal block for easy termination.

#### Enclosure

Enclosures are made out of CRCA steel sheets. These are powder coated to provide better corrosion resistance. A special hinge construction allows the door to open 180°. It facilitates easy maintenance. Bakelite knob is used for door locking. Conduit entry is provided at the bottom. Enclosures are dust proof.

#### Run Capacitor

Run Capacitor is provided in a plastic enclosure, is of reputed brand.

#### Mounting

Direct mounting on 2 nails. A paper template is provided to help in drilling holes on the wall. Alternatively, the starter can be mounted on 2 diagonally opposite mounting holes.

#### Other Features

1. Indicating Light
2. 2- Earthing Points

# Submersible Pump Starters

---

## 1- Phase Submersible Pump Starter (with 2 Pole Contactor & Relay)



Submersible pump starters with 2 pole contactor and relay are specifically designed to address Water cooled submersible pumps and equipped with a run capacitor and 1/2 start capacitors .

### 2 Pole Contactor

1. Conforms to IS13947-4-1.
2. Field proven 2 Pole NHD contactor for reliable performance and long life
3. Encapsulated coil.
4. Wide band coil of 160-220V as standard
5. Complete isolation of Supply to motor when the starter is off with the help of auxiliary Contact block
6. Spare contact kit & coil.

### 2 Pole Over Load Relay

1. Highly sensitive over load relay
2. Operating Temperature 5° to +50° C
3. Auto/Manual reset facility after trip

### Termination

Separate Terminal block for easy termination.

### Enclosure

Enclosures are made out of CRCA steel sheets. These are powder coated to provide better corrosion resistance. A special hinge construction allows the door to open 180°. It facilitates easy maintenance. Bakelite knob is used for door locking. Conduit entry is provided at the bottom. Enclosures are dust proof.

### Starting and Running Capacitors

One Starting and (1/2) Running Capacitors of reputed brand are provided depending upon the HP of the SPS. Up to 1.5 HP, 1 Starting and 1 running capacitor is provided, while in 2 and 3 HP, 1 Starting and 2 running capacitors are provided in a bigger enclosures. Starting Capacitors are in double aluminum can with built-in discharge resistors. Capacitors are held in position with the help of very sturdy metallic clamps.

### Mounting

Direct mounting on 2 nails. A paper template is provided to help in drilling holes on the wall. Alternatively, the starter can be mounted on 4 holes.

### Other Features

1. Indicating Light
2. Earthing Points



# SUBMERSIBLE PUMP STARTERS for Single Phase Pumps



BCH ELECTRIC LIMITED  
*we care for you*



# Submersible Pump Starters

---

## 1- Phase Submersible Pump Starter (with Mini Manual DOL Starter)



### The product Offer

1. 1- Phase SPS with Mini- Manual DOL Starter up to a maximum relay range of 11.0-20.0 Amp. in Economy, Standard and Premium versions.
2. 1- Phase SPS with 2 Pole Contactor and Relay (maximum relay range up to 17.4-24.0 Amp.) in Economy and Standard versions.

### Type of Submersible Pumps

1. Oil Cooled
2. Water Cooled

In Oil cooled Submersible pumps, because of lesser starting torque requirements, RUN Capacitor alone is sufficient and a separate START capacitor is not required.

SPS with Mini-Manual DOL starter is specifically designed for oil cooled submersible pumps and equipped with RUN capacitor.

These SPS starters are available in 3 versions:

1. Economy (without meters),
2. Standard (with Ammeter)
3. Premium (with Ammeter and voltmeter)

### Salient features of Submersible Pump Starter with Mini-Manual DOL Starter.

#### Features of Mini DOL Starter

Ref Standard	: IS 13947-4-1
No of Poles	: 2
Operating Temp Limits	: -20° C to +60° C Ambient
Rated Current (Ie) Amps	: 16A, AC 3
Operational Voltage (Ue)	: 240V
Rated Thermal Current (Ith)	: 20 Amps
Rated Insulation Voltage	: 600 V
Mechanical life	: 1 lakh operation
Frequency of operation	: 15 / hr.
Version	: Single-phase
Operation	: Manual

#### Termination

Separate conveniently located terminal block for easy termination.

#### Enclosure

Enclosures are made out of CRCA steel sheets. These are powder coated to provide better corrosion resistance. A special hinge construction allows the door to open 180°. It facilitates easy maintenance. Bakelite knob is used for door locking. Conduit entry is provided at the bottom. Enclosures are dust proof.

#### Run Capacitor

Run Capacitor is provided in a plastic enclosure, is of reputed brand.

#### Mounting

Direct mounting on 2 nails. A paper template is provided to help in drilling holes on the wall. Alternatively, the starter can be mounted on 2 diagonally opposite mounting holes.

#### Other Features

1. Indicating Light
2. 2- Earthing Points

# Submersible Pump Starters

---

## 1- Phase Submersible Pump Starter (with 2 Pole Contactor & Relay)



Submersible pump starters with 2 pole contactor and relay are specifically designed to address Water cooled submersible pumps and equipped with a run capacitor and 1/2 start capacitors .

### 2 Pole Contactor

1. Conforms to IS13947-4-1.
2. Field proven 2 Pole NHD contactor for reliable performance and long life
3. Encapsulated coil.
4. Wide band coil of 160-220V as standard
5. Complete isolation of Supply to motor when the starter is off with the help of auxiliary Contact block
6. Spare contact kit & coil.

### 2 Pole Over Load Relay

1. Highly sensitive over load relay
2. Operating Temperature 5° to +50° C
3. Auto/Manual reset facility after trip

### Termination

Separate Terminal block for easy termination.

### Enclosure

Enclosures are made out of CRCA steel sheets. These are powder coated to provide better corrosion resistance. A special hinge construction allows the door to open 180°. It facilitates easy maintenance. Bakelite knob is used for door locking. Conduit entry is provided at the bottom. Enclosures are dust proof.



### Starting and Running Capacitors

One Starting and (1/2) Running Capacitors of reputed brand are provided depending upon the HP of the SPS. Up to 1.5 HP, 1 Starting and 1 running capacitor is provided, while in 2 and 3 HP, 1 Starting and 2 running capacitors are provided in a bigger enclosures. Starting Capacitors are in double aluminum can with built-in discharge resistors. Capacitors are held in position with the help of very sturdy metallic clamps.

### Mounting

Direct mounting on 2 nails. A paper template is provided to help in drilling holes on the wall. Alternatively, the starter can be mounted on 4 holes.

### Other Features

1. Indicating Light
2. Earthing Points

