

# SUBMERSIBLE ELECTRICAL DEWATERING PUMP

## SPG73M 7.5 HP ( 5.6 Kw)

4" (100 mm) Hose  
(Flange / NPT / BSP - Optional)

### Applications of Sovereign Submersible Electrical Dewatering Pumps :

- Construction Activities
- Fire fighting Services
- Flooded Basement
- Pre Mining Activities
- Open Sumps
- Public utility works
- Hydro Power Station
- Ships and shipyards
- Tunnels & Trenches
- Water Supply System



### DESIGN ADVANTAGES

- Options for Impeller MOC:
  - a) For abrasive and corrosion resistance application impeller are in ASTM A217 Gr. CA15 (SS 410)
  - b) For Sea water and Corrosive application impeller available on request in ASTM A351 Gr. CF8M (SS 316)
- SS 304 Strainer, Outlet, Hardware and SS 431 Rotor Shaft.
- Tandem TC/TC mechanical seals enclosed in pressure compensated oil chamber.
- Thermal Cutouts are imbedded in motor winding for maximum protection.
- Nitrile rubber lined diffuser and wear plate for field adjustment.
- For saline environment Zinc Anode are available.
- Pumps are also available in complete SS 316 construction.
- Pumps are available for any combination of voltage and frequency on request.
- The Pump is epoxy coated for long life.

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## TECHNICAL DETAILS

### MECHANICAL SEAL

Tandem TC/TC mechanical seals enclosed in pressure compensated oil chamber.

### BALL BEARINGS

Upper and lower bearing are single row, deep groove ball bearings.

### POWER CABLE

Cable Size : 4 core 2.5 sq.mm + 2 core 1.0 sq.mm

Cable Length : 20 meters

PVC insulated, water and oil proof copper conductor flexible cable.

### STRAINER

Hole Size (mm) : 30 x 10

Material of construction : S.S. 304

### STANDARD MOC

Impeller : S.S. CA15, Nitride Hardened to 50-55 HRC

Rotor Shaft : S.S. 431

Diffuser / Wear Plate : Nitrile Rubber Lined

Stator Casing : Extruded Aluminum with Epoxy Powder coating

Outer Casing : Extruded Aluminum with Epoxy Powder coating

Hardware : S.S 304

### ELECTRICAL MOTOR (DOL - START)

2 Pole continuous rated induction motor with squirrel cage rotor.

Frequency (Hz) : 50

AC Supply (Phase) : 3

Voltage (V) : 415

Power Rating (Kw) : 5.6

Current Rating (FL) (Amp) : 12.5

Speed (RPM) : 2850

Motor Winding Insulation Class : H

Max. temp. of pumped Fluid (°C) : 40

Max. Start / Stop per hour : 15

### PUMP WEIGHT

Approx. without cable (Kg) : 55

### PUMP SUBMERGENCE

Pump submergence below Fluid level minimum 85 mm & maximum 15 meters.

### SOLID HANDLING CAPACITY : 10 mm

(Optional items are at extra cost.)

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## PERFORMANCE CURVES

