

SUBMERSIBLE ELECTRICAL DEWATERING PUMP

SPG53M 5 HP (3.7 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) : 25 x 6

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) : 3.7

Current Rating (FL) (Amp) : 8.0

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) : 48

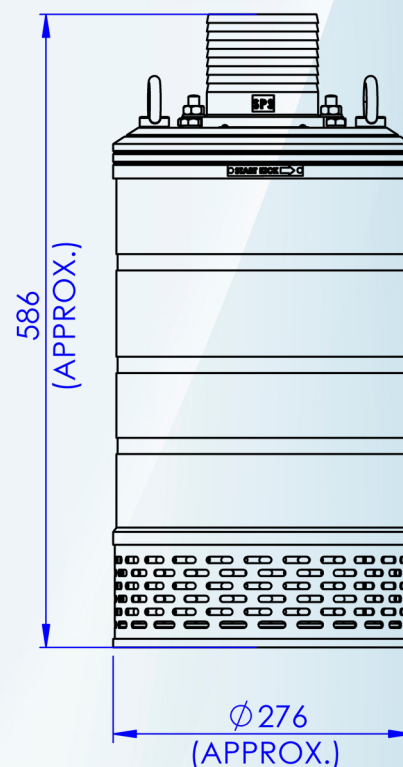
PUMP SUBMERGENCE

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

SOLID HANDLING CAPACITY : 6 mm

(Optional items are at extra cost.)

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PERFORMANCE CURVES

