

SUBMERSIBLE ELECTRICAL DEWATERING PUMP

SPG505M 50 HP (37.2 Kw)

8" (200 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.

BEARINGS

Upper bearing : Single row deep groove ball bearing.
Lower bearing : Double tandem single row angular contact bearing.

POWER CABLE

For STAR-DELTA Start

Cable Size : (4 core 10.0 sq.mm + 2 core 1.0 sq.mm) + (4 core 10.0 sq.mm)
Cable Length : 40 meters both Cables

For DOL Start

40 meters long (4core 10.0 sq.mm + 2 core 1.0 sq.mm) cable will be provided.

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

STRAINER

Hole Size (mm) : 40 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 : Aluminum Casting with Epoxy Powder coating
Outer Casing : M.S. with Epoxy Powder coating
Hardware : S.S. 304

ELECTRICAL MOTOR (STAR DELTA - START)

2 Pole continuous rated induction motor with squirrel cage rotor.

Frequency (Hz) : 50
AC Supply (Phase) : 3
Voltage (V) : 415
Power Rating (Kw) : 37.2
Current Rating (FL) (Amp) : 65
Speed (RPM) : 2850
Motor Winding Insulation Class : H
Max. temp. of pumped Fluid (°C) : 40
Max. Start / Stop per hour : 15

*Pumps are also available in DOL Start (Optional)

PUMP WEIGHT

Approx. without cable (Kg) : 375

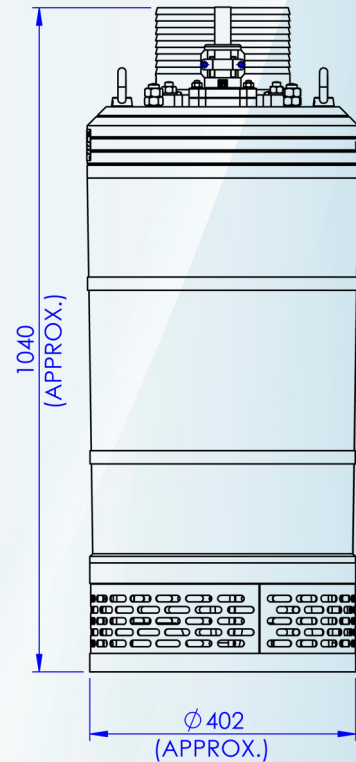
PUMP SUBMERGENCE

Pump submergence below Fluid level minimum 125 mm & maximum 15 meters.

SOLID HANDLING CAPACITY : 10 mm

(Optional items are at extra cost.)

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PERFORMANCE CURVES

