

SOVEREIGN PUMPING SOLUTIONS PVT. LTD.

B-132, ADDITIONAL MIDC, ANAND NAGAR, AMBERNATH (E), MH 421506, INDIA. Tel.: +91 7676137171, Website: www.sovereignpumps.com, Email: sales@sovereignpumps.com

SUBMERSILE ELECTRICAL SEWAGE PUMPS

SUBMERSIBLE PORTABLE INSTALLATION (S TYPE) AND SUBMERSIBLE PERMANENT INSTALLATION (P TYPE)

SPS107SH/PH 10 HP (7.5 Kw)

4" (100mm) Hose (Flange - Optional)

TECHNICAL DETAILS

MECHANICAL SEALS

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

BEARINGS

Upper bearing Lower bearing Single row, deep groove ball bearing.Double row, angular contact bearing.

POWER CABLE

Cable Size:4 core 4.0 sq.mm + 3 core 1.0 sq.mmCable Length:15 metersEPR insulated, water and oil proof copper conductor flexible cable.

IMPELLER

Type : Material : Single Channel C.I. IS210 FG 260

STANDARD MOC
Pump Casing
Rotor Shaft

Hardware

"O" Rings

Mech. Seals

C.I. IS 210 FG 260 SS 431 SS 304 Nitrile Rubber

TC/TC

MOTOR (DOL START)

continuous rated, 4-pole induction motor with squirrel cage rotor.

Frequency (Hz)	50
AC Supply (Phase)	3
Voltage (V)	415
Speed (RPM)	1450
Power Rating (Kw)	7.5
Current Rating (FL) (Amp)	16
Max. Temperature of Pumped Fluid (°C)	40
Max. Starts/Stop Per Hour	15

PUMP DIMENSIONS

Pump height (mm): 840Pump Width (mm): 715

PUMP WEIGHT

(S - Type) Approx. without cable (Kg) : 185 (P - Type) Approx. without cable (Kg) : 250

PUMP SUBMERGENCE

Pump submergence below Fluid level maximum 10 meters.

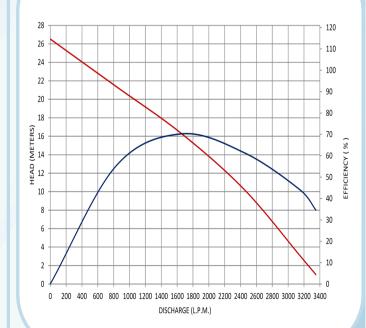
SOLID HANDLING CAPACITY : 75 mm

SURFACE TREATMENT

Primer with Epoxy and black choleric paint for long life.



PERFORMANCE CURVES





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Pioneering Innovative Advantages

SPS107SH/PH

10 HP (7.5 Kw)

Protection of Motor : Motor is a prime mover part of the pump so the protection is an utter most important. So, Thermal Cut-off Switch 50C Normally Closed are embedded in motor winding. Thermal switches a versatile and reliable thermal protector used to prevent overheating and ensure safety. This device is designed to interrupt the current flow when the temperature rises to a specified set point, effectively protecting the connected components or system from potential damage due to excessive heat. Motors are H class insulated (max temperature up to 180°C).

Bearings : Pumps are provided with Double groove angular contact bearings are fitted on the rotor at the impeller side (DE) for maximum trust loads to be taken by the pump and the upper ball bearing (NDE) is a single row dip groove ZZ bearing. All the ball bearings are filled with high temperature lithium grease containing special anti-corrosive addictive which ensures long life during the life cycle of the pumps .

Pump Body : Due to robust

usage of pump and with minimum submergence at operation site, it is recommended to use Cast Iron for best heat dissipation. Cast Iron is the best suitable material for Neutral & Alkaline liquid i.e. Rain Water, Waste water, Sewerage etc.

Motor/Rotor shaft sealing :

Tandem double mechanical seals (TC vs TC) are used for leak proof sealing to protects the motor from muddy water, abrasive application thus ensuring long life.

Installation :

Pumps are available in both Portable (S) Type & Permanent type installation (P) . **Cable protections :** Cable and its leads are sealed in such a way that water enter is far from impossible because it has cable grommets to seal the diameter of the cable and lead grommets to seal the individual leads wire which are subsequently connected to motor leads by wire nut connector and cover with heat shrink.

> Cable Arrester : Which is fitted to the cable and protect the pump cable connections for any pulling of the cable. Arrester holds cable from coming out from the gland.

Power cables : Power cables are 100% water and oil proof available in any form PVC/EPR/ HO7RNF depends upon the application where the pump is been used.

For abrasive application :

We are providing Cast Iron impeller for sewage application. also providing impeller in SS 410, SS 316 & 27% high chrome impeller (optional) for better life in abrasive and muddy applications.

Agitator : Agitator is to break up and prevent the formation of solids or debris that may otherwise cause clogging or blockages in the pump system. In fact, it loosen the soil for better performance of the given application. (optional)



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- * DOL / STAR-DELTA CONNECTIONS
- * PUMP DRY RUN PROTECTION
- * PUMP SINGLE PHASING PROTECTION
- * PUMP OVERLOAD PROTECTION
- * PUMP UNDER LOAD PROTECTION

- * THERMAL CUT-OFF PROTECTION
- *** OPERATING VOLTAGE & CURRENT DISPLAY**
- * IP54 INGRESS PROTECTION FOR INDOOR PANELS
- * IP65 INGRESS PROTECTION FOR OUTDOOR PANELS
- * AVALILABLE IN ANALOG & DIGITAL CONTROL SYSTEM