Thank you for your interest in our products
Please contact us for more information, or visit our website

info@lenntech.com
tel. +31-15-261.09.00
fax. +31-15-261.62.89
Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

The pump is fitted with a 0.37 kW MS402 motor with sand shield, lip seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical stability and high efficiency. Suitable for temperatures up to 40 °C.

The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a Pt1000 sensor can be fitted.

The motor is for direct-on-line starting (DOL).

**Further product details**

The pump is suitable for applications similar to the following:
- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

The Grundfos SP pump is renowned for its high efficiency and already complies with the requirements of the Minimum Efficiency Index, and therefore Grundfos is amongst the best in class within submersible pumps.

**Pump**

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosion- and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).

The elastomer parts in the pump are made of NBR (Nitrile-Butadiene Rubber) and TPU (Thermoplastic Poly-Urethane) which offers good wear resistance and long service intervals.

The top chamber features a built-in non-return valve to prevent backflow and reduce the risk of water hammer.
The suction interconnector is fitted with a strainer to prevent large particles from entering the pump. The suction interconnector is designed to comply with NEMA standards for motor mounting/dimensions.

**Motor**

The stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings.

The shaft seal is of the lip seal type characterised by low friction against the rotor shaft. The NBR elastomer offers good wear resistance, good elasticity and resistance to particles. The rubber material is approved for use in potable water.

The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

**Liquid:**

<table>
<thead>
<tr>
<th>Pumped liquid:</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum liquid temperature:</td>
<td>40 °C</td>
</tr>
<tr>
<td>Max liquid t at 0.15 m/sec:</td>
<td>40 °C</td>
</tr>
<tr>
<td>Liquid temperature during operation:</td>
<td>20 °C</td>
</tr>
<tr>
<td>Density:</td>
<td>998.2 kg/m³</td>
</tr>
</tbody>
</table>

**Technical:**

| Speed for pump data: | 2900 rpm |
| Rated flow: | 5 m³/h |
| Rated head: | 16 m |
| Shaft seal for motor: | LIPSEAL |
| Approvals on nameplate: | CE,EAC |
| Curve tolerance: | ISO9906:2012 3B |
| Motor version: | T40 |

**Materials:**

| Pump: | Stainless steel EN 1.4301 |
| Impeller: | Stainless steel EN 1.4301 |
| Motor: | Stainless steel DIN W.-Nr. 1.4301 AISI 304 |

**Installation:**

| Pump outlet: | Rp1 1/2 |
| Motor diameter: | 4 inch |

**Electrical data:**

| Motor type: | MS402 |
| Type of motor: | CSIR |
| Rated power - P2: | 0.37 kW |
| Mains frequency: | 50 Hz |
| Rated voltage: | 1 x 230 V |
| Rated current: | 3.95 A |
| Starting current: | 380 % |
| Cos phi - power factor: | 0.77 |
| Rated speed: | 2860 rpm |
| Start. method: | direct-on-line |
| Enclosure class (IEC 34-5): | IP68 |
| Insulation class (IEC 85): | B |
| Built-in temp. transmitter: | no |

**Others:**

| Minimum efficiency index, MEI Q: | 0.56 |
| ErP status: | EuP Standalone/Prod. |
| Net weight: | 9.6 kg |
| Gross weight: | 10.9 kg |
| Shipping volume: | 8 m³ |
**General information:**
- **Product name:** SP 5A-4
- **Product No:** 5002104
- **EAN number:** 5700390227258

**Technical:**
- **Speed for pump data:** 2900 rpm
- **Rated flow:** 5 m³/h
- **Rated head:** 16 m
- **Stages:** 4
- **Shaft seal for motor:** LIPSEAL
- **Approvals on nameplate:** CE,EAC
- **Curve tolerance:** ISO9906:2012 3B

**Model:**
- **Valve:** pump with built-in non-return valve
- **Motor version:** T40

**Materials:**
- **Pump:** Stainless steel EN 1.4301
- **Impeller:** Stainless steel EN 1.4301
- **Motor:** Stainless steel DIN W.-Nr. 1.4301 AISI 304

**Installation:**
- **Pump outlet:** Rp1 1/2
- **Motor diameter:** 4 inch

**Liquid:**
- **Pumped liquid:** Water
- **Maximum liquid temperature:** 40 °C
- **Max liquid t at 0.15 m/sec:** 40 °C
- **Liquid temperature during operation:** 20 °C
- **Density:** 998.2 kg/m³

**Electrical data:**
- **Motor type:** MS402
- **Type of motor:** CSIR
- **Appli. motor:** NEMA
- **Rated power - P2:** 0.37 kW
- **Mains frequency:** 50 Hz
- **Rated voltage:** 1 x 230 V
- **Rated current:** 3.95 A
- **Starting current:** 380 %
- **Cos phi - power factor:** 0.77
- **Rated speed:** 2860 rpm
- **Start. method:** direct-on-line
- **Enclosure class (IEC 34-5):** IP68
- **Insulation class (IEC 85):** B
- **Motor protec:** CONTACT
- **Thermal protec:** internal
- **Built-in temp. transmitter:** no
- **Motor No:** 79213102

**Others:**
- **Minimum efficiency index, MEI Ø:** 0.56
- **ErP status:** EuP Standalone/Prod.
- **Net weight:** 9.6 kg
- **Gross weight:** 10.9 kg
- **Shipping volume:** 8 m³

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**Diagram:**
- Diagram of pump specification and connections.
5002104 SP 5A-4 50 Hz

Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.
5002104 SP 5A-4 50 Hz

Note! All units are in [mm] unless others are stated.