

Date: 01/08/2019

Qty. | Description

1 SP 5A-33



Note! Product picture may differ from actual product

Product No.: 05001K33

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 3 kW MS4000 motor with sand shield, mechanical shaft 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.

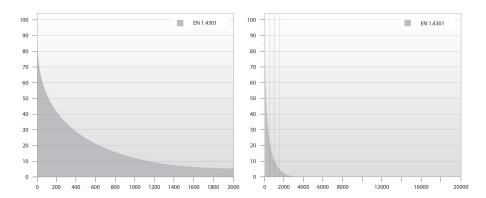


Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosionand 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).



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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 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 a tungsten carbide/ceramic replaceable mechanical shaft seal. The material combination provides optimum sealing, resistance and long life. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal.

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:

Pumped liquid: Water
Maximum liquid temperature: 40 °C
Max liquid t at 0.15 m/sec: 40 °C
Selected liquid temperature: 20 °C

Density at selected liquid temperature: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2900 rpm

Rated flow: 5 m³/h
Rated head: 135 m
Shaft seal for motor: HM/CER
Approvals on nameplate: CE,EAC

Curve tolerance: ISO9906:2012 3B

Motor version: T40
Specification for shaft end: SPLINE

Materials:

Pump: Stainless steel

EN 1.4301 AISI 304

Impeller: Stainless steel

EN 1.4301 AISI 304

Motor: Stainless steel

DIN W.-Nr. 1.4301

AISI 304

Installation:

Pump outlet: RP1 1/2 Motor diameter: 4 inch



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Electrical data:

Motor type: MS4000
Rated power - P2: 3 kW
Power (P2) required by pump: 3 kW
Mains frequency: 50 Hz

 Rated voltage:
 3 x 380-400-415 V

 Rated current:
 7.70-7.85-8.10 A

 Starting current:
 460-490-500 %

 Cos phi - power factor:
 0.82-0.77-0.73

 Rated speed:
 2850-2865-2875 rpm

 Start. method:
 direct-on-line

Enclosure class (IEC 34-5): IP68
Insulation class (IEC 85): F
Built-in temp. transmitter: no

Motor No: 79194508

Others:

Minimum efficiency index, MEI â%¥: 0.50

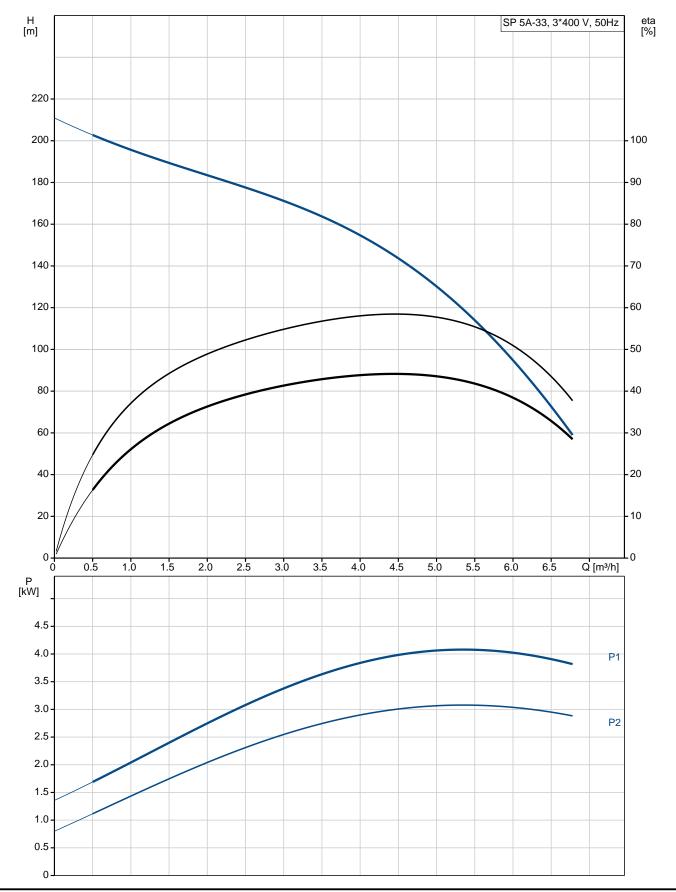
ErP status: EuP Standalone/Prod.

Net weight: 29.8 kg Gross weight: 31.6 kg Shipping volume: 21.7 m³ Danish VVS No.: 388315330 Swedish RSK No.: 5852975 Norwegian NRF no.: 9040878 Country of origin: DK Custom tariff no .: 84137029



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05001K33 SP 5A-33 50 Hz





Date: 01/08/2019 H [m] SP 5A-33, 3*400 V, 50Hz eta [%] Description Value **General information:** SP 5A-33 Product name: 220 Product No: 05001K33 200 100 5708601059339 EAN number: 180 90 Price: 1.707,00 GBP Technical: 160 -80 Pump speed on which pump data are 2900 rpm based: 140 -70 Rated flow: 5 m³/h 120 -60 Rated head: 135 m Stages: 33 100 50 Impeller reduc.: NONE 80 40 Shaft seal for motor: HM/CER 60 30 Approvals on nameplate: CE,EAC ISO9906:2012 3B Curve tolerance: 40 20 Model: 20 10 YES Valve: T40 Motor version: 0.5 1.5 3.5 4.5 5.5 Q [m³/h] **SPLINE** Specification for shaft end: P [kW] Materials: Stainless steel Pump: EN 1.4301 **AISI 304** Impeller: Stainless steel P2 EN 1.4301 **AISI 304** Motor: Stainless steel DIN W.-Nr. 1.4301 **AISI 304** Installation: 101 Pump outlet: RP1 1/2 RP1 1/2 Motor diameter: 4 inch Liquid: Pumped liquid: Water Maximum liquid temperature: 40 °C 849 Max liquid t at 0.15 m/sec: 40 °C Selected liquid temperature: 20 °C Density at selected liquid temperature: 998.2 kg/m³ 342 Electrical data: Motor type: MS4000 **GRUNDFOS** Applic. motor: 497 95 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V L1 L2 L3 PE Rated current: 7.70-7.85-8.10 A Starting current: 460-490-500 % Cos phi - power factor: 0.82-0.77-0.73 Rated speed: 2850-2865-2875 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): NONE Motor protec: Thermal protec: external Built-in temp. transmitter: nο Motor No: 79194508 Others: M Minimum efficiency index, MEI ≥: 0.50 3 ~



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Description	Value
ErP status:	EuP Standalone/Prod.
Net weight:	29.8 kg
Gross weight:	31.6 kg
Shipping volume:	21.7 m ³
Danish VVS No.:	388315330
Swedish RSK No.:	5852975
Norwegian NRF no.:	9040878
Country of origin:	DK
Custom tariff no.:	84137029



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05001K33 SP 5A-33 50 Hz

