

Qty.	Description
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SP 5A-44



Note! Product picture may differ from actual product

Product No.: [05101K44](#)

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 4 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 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 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: 180 m
 Shaft seal for motor: HM/CER
 Approvals on nameplate: CE,EAC
 Curve tolerance: ISO9906:2012 3B
 Motor version: T40
 Specification for shaft end: CYLINDRICAL

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

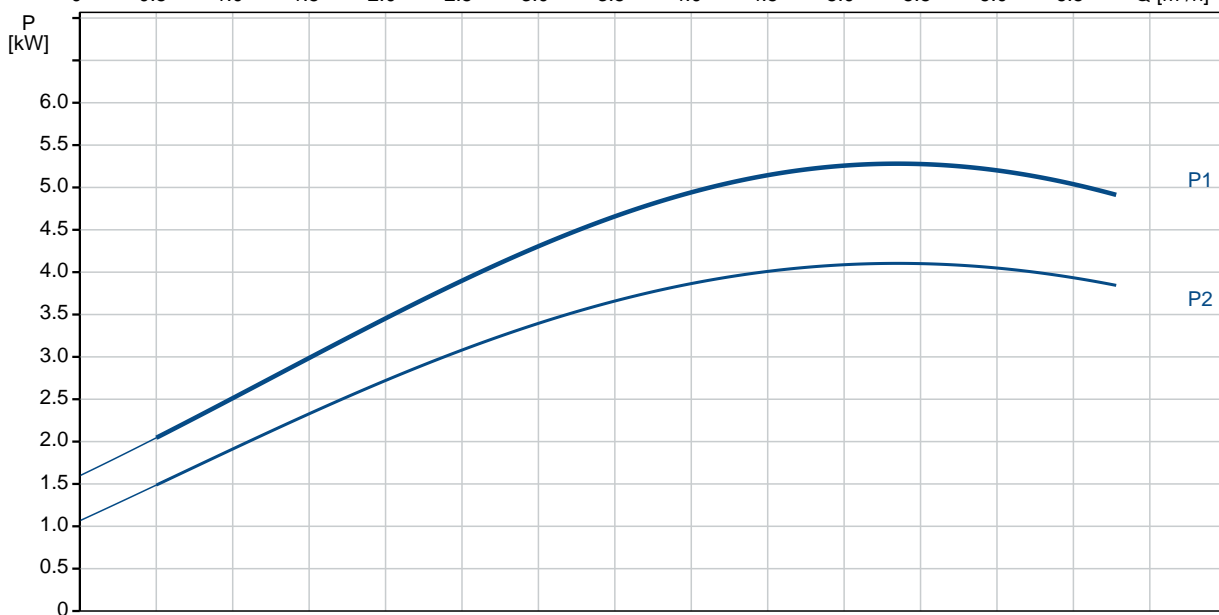
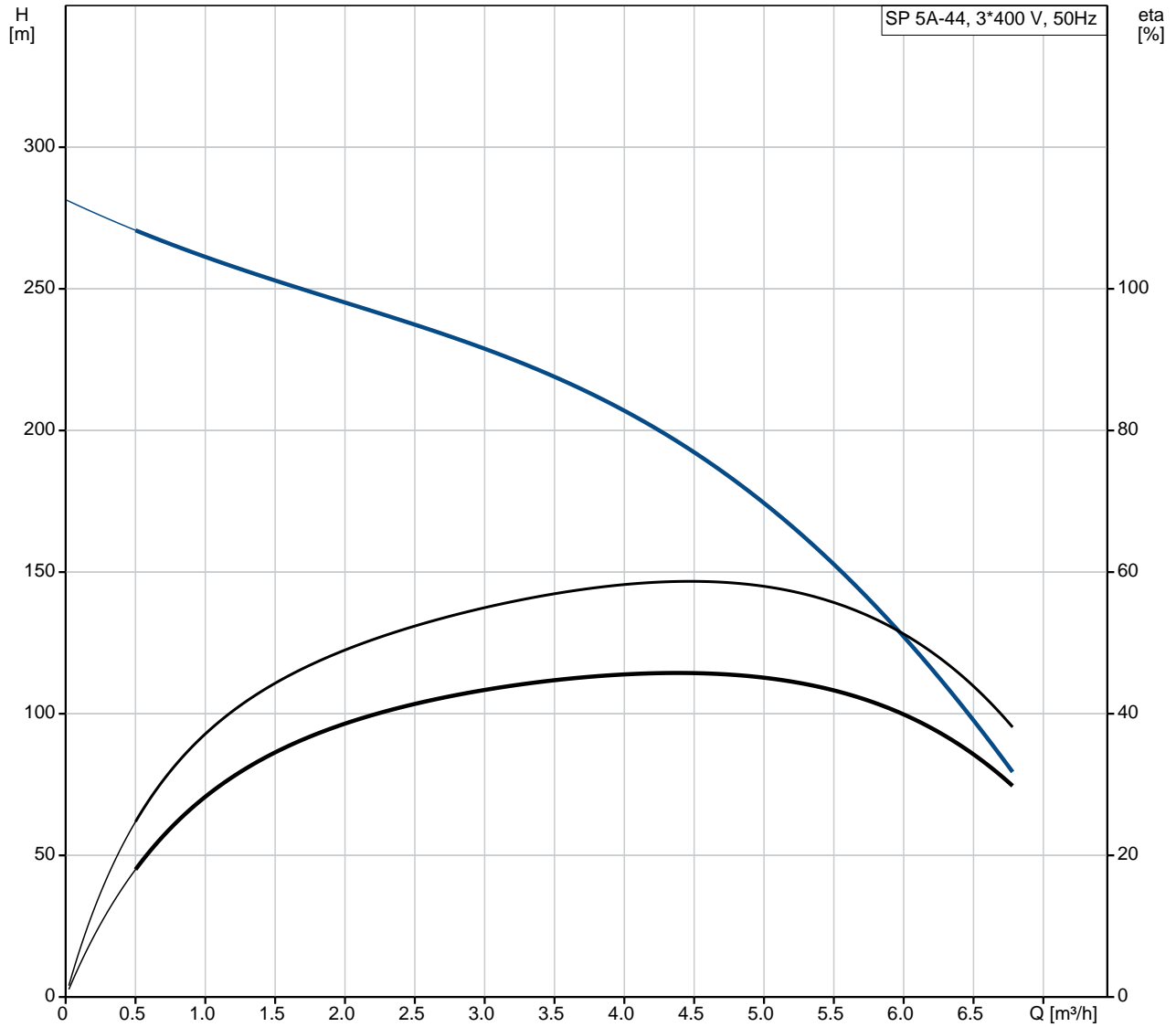
Qty. | **Description****Electrical data:**

Motor type: MS4000
Rated power - P2: 4 kW
Power (P2) required by pump: 4 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-400-415 V
Rated current: 9.75-9.60-9.80 A
Starting current: 460-500-530 %
Cos phi - power factor: 0.85-0.80-0.77
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: 79194510

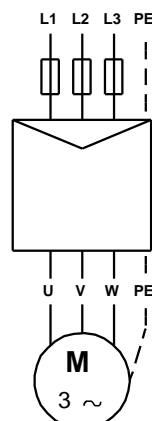
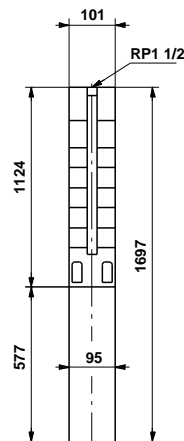
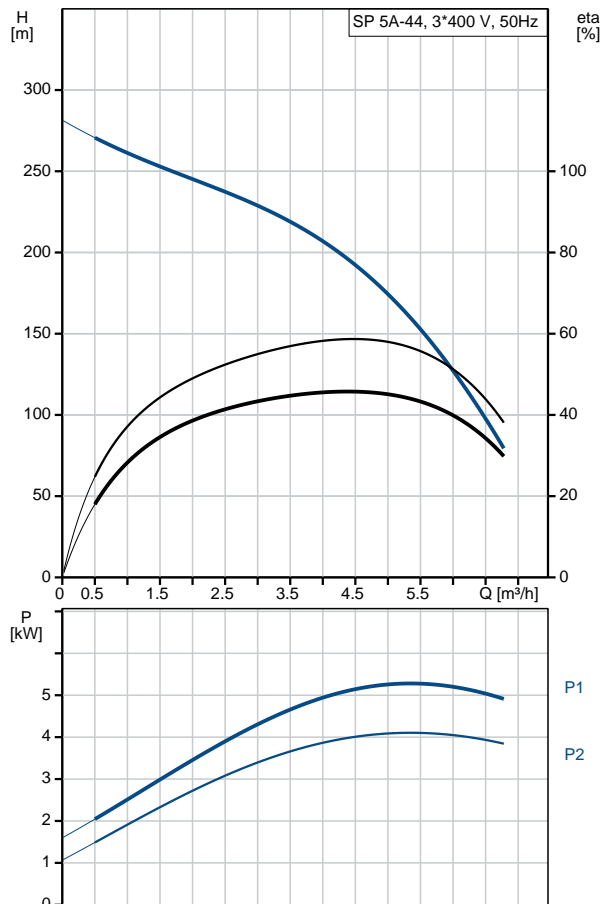
Others:

Minimum efficiency index, MEI $\eta_{\%}$: 0.56
ErP status: EuP Standalone/Prod.
Net weight: 37.9 kg
Gross weight: 43.5 kg
Shipping volume: 57.1 m³
Danish VVS No.: 388315440
Swedish RSK No.: 5852808
Norwegian NRF no.: 9040881
Country of origin: GB
Custom tariff no.: 84137029

05101K44 SP 5A-44 50 Hz



Description	Value
General information:	
Product name:	SP 5A-44
Product No:	05101K44
EAN number:	5708601059353
Price:	3.379,00 GBP
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	5 m ³ /h
Rated head:	180 m
Stages:	44
Impeller reduc.:	NONE
Shaft seal for motor:	HM/CER
Approvals on nameplate:	CE,EAC
Curve tolerance:	ISO9906:2012 3B
Model:	A
Valve:	YES
Motor version:	T40
Specification for shaft end:	CYLINDRICAL
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
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/m ³
Electrical data:	
Motor type:	MS4000
Applic. motor:	GRUNDFOS
Rated power - P2:	4 kW
Power (P2) required by pump:	4 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	9.75-9.60-9.80 A
Starting current:	460-500-530 %
Cos phi - power factor:	0.85-0.80-0.77
Rated speed:	2850-2865-2875 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Motor protec:	NONE
Thermal protec:	external
Built-in temp. transmitter:	no
Motor No:	79194510
Others:	
Minimum efficiency index, MEI %:	0.56





Company name:

Created by:

Phone:

Date:

01/08/2019

Description	Value
ErP status:	EuP Standalone/Prod.
Net weight:	37.9 kg
Gross weight:	43.5 kg
Shipping volume:	57.1 m ³
Danish VVS No.:	388315440
Swedish RSK No.:	5852808
Norwegian NRF no.:	9040881
Country of origin:	GB
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05101K44 SP 5A-44 50 Hz

