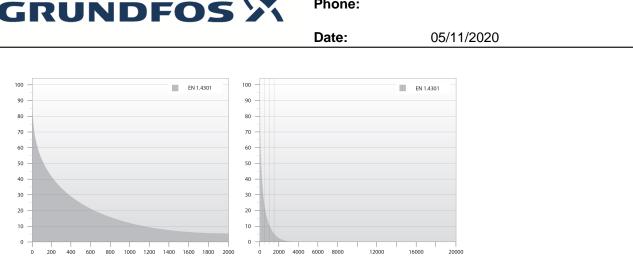


_	Date: 05/11/2020
	Description
	SP 14-23
	Notel Product nicture may differ from actual product
	Product No.: 98699361
	Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All stee components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pum carries drinking water approval.
	The pump is fitted with a 5.5 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 fitted with the Grundfos Tempcon sensor that, by use of powerline communication together with a MP204 control panel, enables temperature monitoring.
	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 corrosic 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).
1	





The elastomer parts in the pump offer good wear resistance and long service intervals. The bearings are made of LSR (Liquid Silicone Rubber), sealing rings are made of TPU (Thermoplastic Poly-Urethane) and the non-return valve is made of NBR (Nitrile-Butadiene Rubber). The special elastomer material of the bearings offers increased resistance to sand and other abrasive particles (from 50 to 150 mg/l).

In case the pump is used for pumping water with high content of hydrocarbons or solvents, Grundfos offers FKM rubber parts (Fluorocarbon) which are oil and temperature-resistant up to 90 °C.

The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is inevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear rings and seal rings) to maintain high performance and a long lifetime.

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 is fitted with the Grundfos Tempcon temperature sensor device that includes a NTC-resistor which senses the temperature. The resistor is built-in close to the winding. The temperature is converted into a high-frequency signal which is sent via the submersible drop cable and which can be converted into a temperature reading by means of Grundfos MP204.

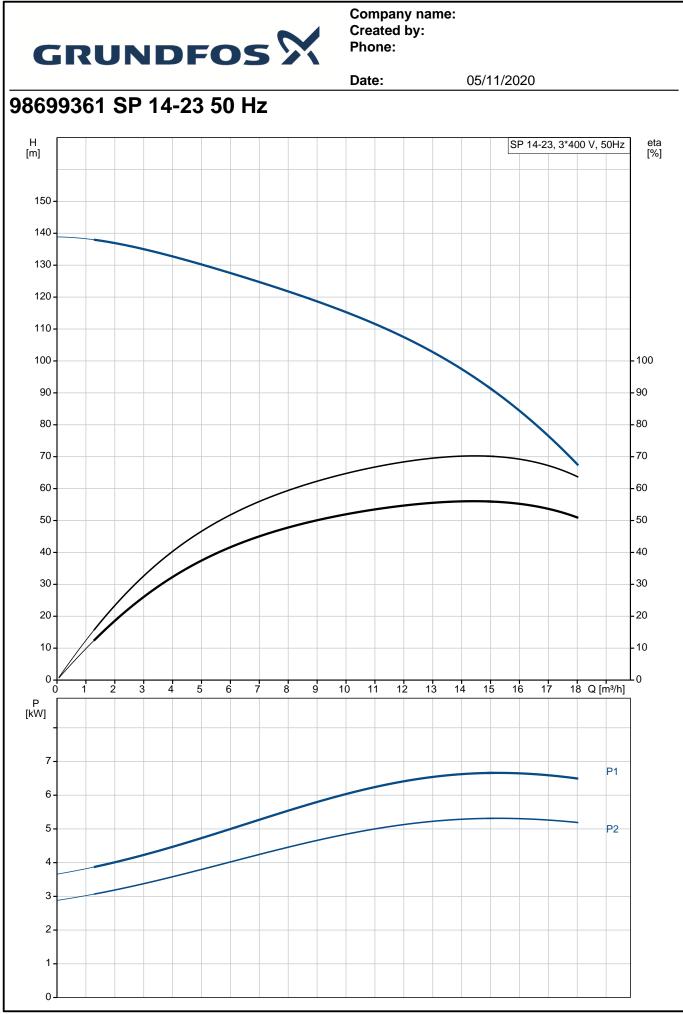
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



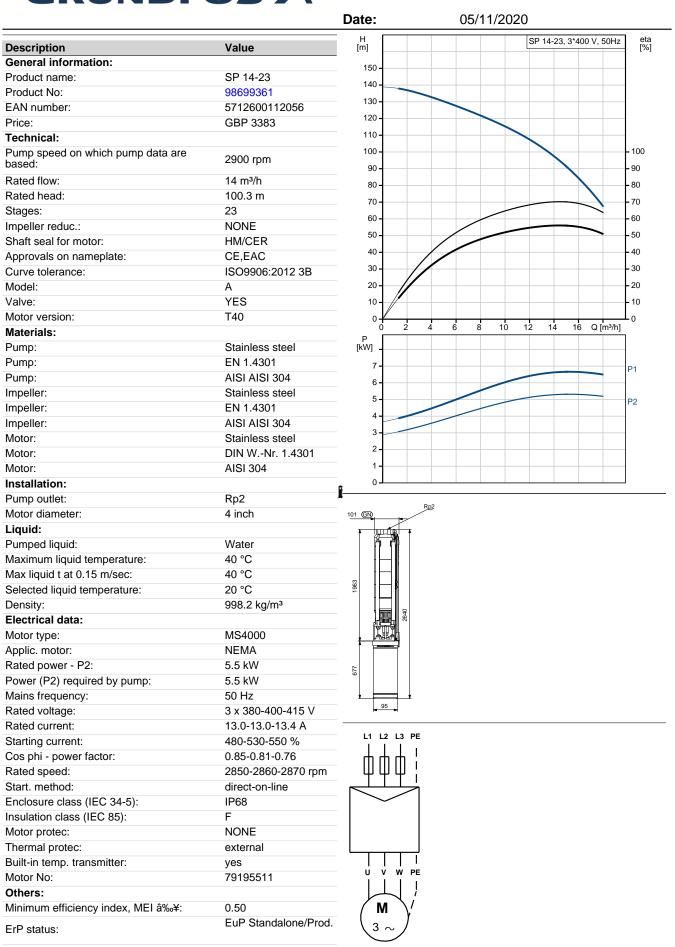
Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Selected liquid temperature: Density:	Water 40 °C 40 °C 20 °C 998.2 kg/m ³	
Technical: Pump speed on which pump da Rated flow: Rated head:	ata are based: 14 m³/h 100.3 m	2900 rpm



HM/CER CE,EAC ISO9906:2012 3B T40 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
CE,EAC ISO9906:2012 3B T40 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
ISO9906:2012 3B T40 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
T40 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
T40 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
Stainless steel DIN WNr. 1.4301 AISI 304 Rp2				
DIN WNr. 1.4301 AISI 304 Rp2				
AISI 304 Rp2				
Rp2				
4 inch				
5.5 kW				
5.5 kW				
2850-2860-2870 rpm				
direct-on-line				
IP68				
79195511				
Others:				
‰¥: 0.50				
EuP Standalone/Prod.				
49.3 kg				
5				
DK				
84137029				
	4 inch MS4000 5.5 kW 5.5 kW 50 Hz 3 x 380-400-415 V 13.0-13.0-13.4 A 480-530-550 % 0.85-0.81-0.76 2850-2860-2870 rpm direct-on-line IP68 F yes 79195511 ‰¥: 0.50 EuP Standalone/Prod 49.3 kg 87 kg 0.192 m ³ 388482023 4762713	4 inch MS4000 5.5 kW 5.5 kW 50 Hz 3 x 380-400-415 V 13.0-13.0-13.4 A 480-530-550 % 0.85-0.81-0.76 2850-2860-2870 rpm direct-on-line IP68 F yes 79195511 ‰¥: 0.50 EuP Standalone/Prod. 49.3 kg 87 kg 0.192 m ³ 388482023 4762713 DK	4 inch MS4000 5.5 kW 5.5 kW 50 Hz 3 x 380-400-415 V 13.0-13.0-13.4 A 480-530-550 % 0.85-0.81-0.76 2850-2860-2870 rpm direct-on-line IP68 F yes 79195511 ‰¥: 0.50 EuP Standalone/Prod. 49.3 kg 87 kg 0.192 m ³ 388482023 4762713 DK	









		Date:	05/11/2020
Description	Value		
Net weight:	49.3 kg		
Gross weight:	87 kg		
Shipping volume:	0.192 m ³		
Danish VVS No.:	388482023		
Finnish LVI No.:	4762713		
Country of origin:	DK		
Custom tariff no .:	84137029		

