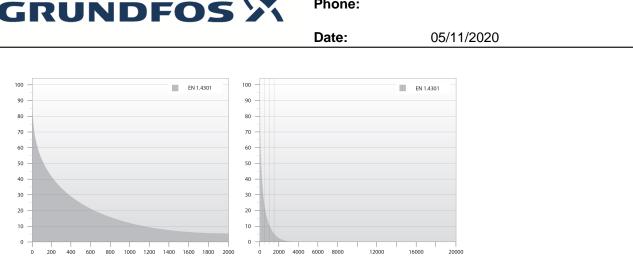


	Date: 05/11/2020
	Description
	SP 14-20
	Note! Product picture may differ from actual product
	Product No.: 98699360
	Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All stee
	components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pun
	carries drinking water approval.
	The pump is fitted with a 5.5 kW MS4000 motor with sand shield, mechanical shaft seal, water-lubricated journa 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.
	EUP
	READY
	TECHNOLOGY
	GRUNDFOS X
	Pump
	All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosid
	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).
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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.

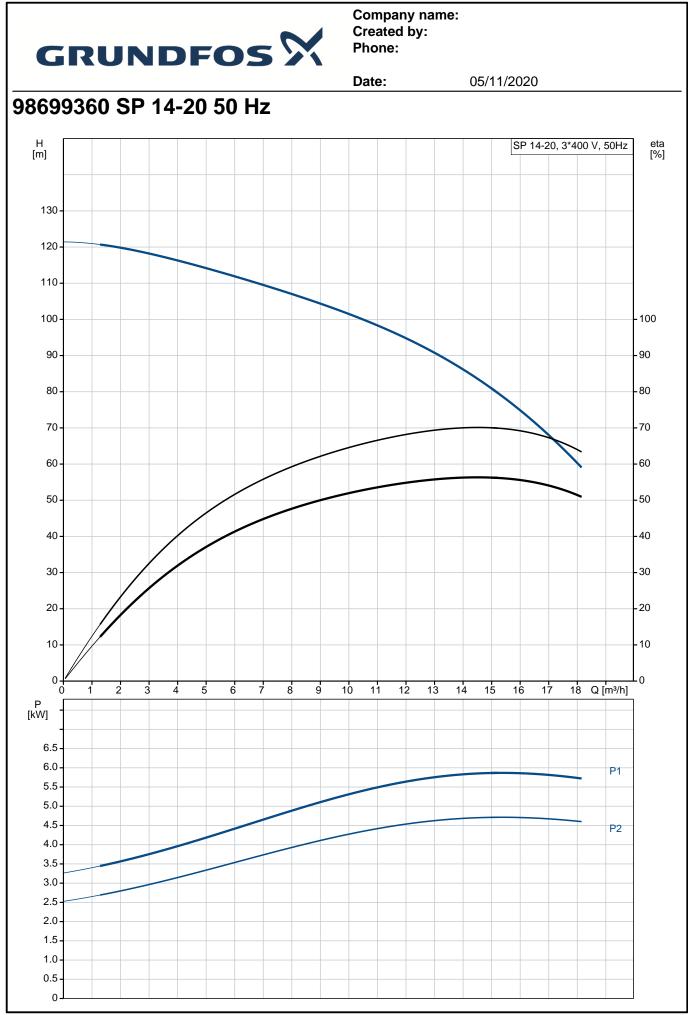
rpm



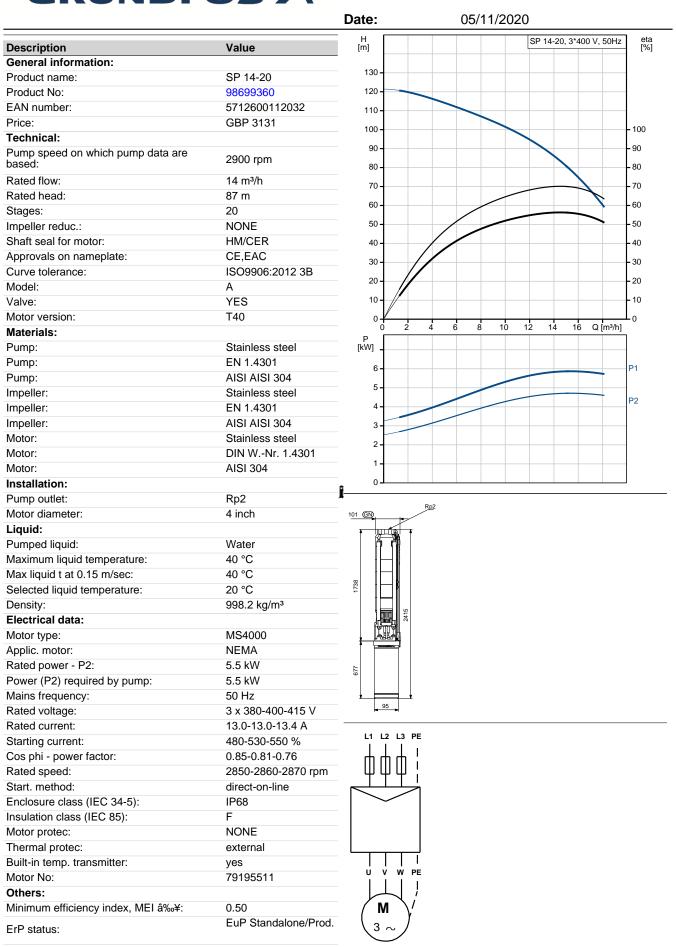
Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Selected liquid temperature: Density:	Water 40 °C 40 °C 20 °C 998.2 kg/m ³	
Technical: Pump speed on which pump d Rated flow: Rated head:	ata are based: 14 m³/h 87 m	2900



		Date:	05/11/2020	
Description				
Shaft seal for motor:	HM/CER			
Approvals on nameplate:	CE,EAC			
Curve tolerance:	ISO9906:2012 3B			
Motor version:	T40			
	140			
Materials:				
Pump:	Stainless steel			
	EN 1.4301			
	AISI AISI 304			
Impeller:	Stainless steel			
	EN 1.4301			
	AISI AISI 304			
Motor:	Stainless steel			
	DIN WNr. 1.4301			
	AISI 304			
Installation:				
Pump outlet:	Rp2			
Motor diameter:	4 inch			
Electrical data:				
Motor type:	MS4000			
Rated power - P2:	5.5 kW			
Power (P2) required by pump:	5.5 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-400-415 V			
Rated current:	13.0-13.0-13.4 A			
Starting current:	480-530-550 %			
Cos phi - power factor:	0.85-0.81-0.76			
Rated speed:	2850-2860-2870 rpm			
Start. method:	direct-on-line			
	IP68			
Enclosure class (IEC 34-5):				
Insulation class (IEC 85):	F			
Built-in temp. transmitter:	yes			
Motor No:	79195511			
Others:				
Minimum efficiency index, MEI				
ErP status:	EuP Standalone/Prod	l.		
Net weight:	47 kg			
Gross weight:	82.2 kg			
Shipping volume:	0.295 m ³			
Danish VVS No.:	388482020			
Finnish LVI No.:	4762712			
Country of origin:	DK			
Custom tariff no.:	84137029			
	51101020			









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