

Company name: Created by:

		Date:	05/11/2020				
	Description						
	SP 17-9						
l	-						
	Note! Product pictu	ire may differ fror	n actual product				
	Product No.: 12A01909						
	Submersible borehole pump, suitable for pumping c	lean water. Ca	n be installed vertically or horizontally. All ste				
	components are made in stainless steel, EN 1.4301 carries drinking water approval.	(AISI 304), tha	at ensures high corrosive resistance. This put				
	The pump is fitted with a 5.5 kW MS4000 motor with	sand shield r	mechanical shaft seal, water-lubricated journ				
	bearings and a volume compensating diaphragm. T	he motor is a c	anned type submersible motor offering good				
	mechanical stability and high efficiency. Suitable for	-	•				
	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).						
1	Further product details						
	Further product details	ollowing.					
	The pump is suitable for applications similar to the f	ollowing:					
	•	ollowing:					
	The pump is suitable for applications similar to the for a raw-water supply	ollowing:					
	 The pump is suitable for applications similar to the formation and the supply irrigation groundwater lowering pressure boosting 	ollowing:					
	 The pump is suitable for applications similar to the formation and the supply irrigation groundwater lowering pressure boosting fountain applications. 	-					
	 The pump is suitable for applications similar to the formation and the supply irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned for its high efficient 	ciency and alre	ady complies with the requirements of the				
	 The pump is suitable for applications similar to the formation and the raw-water supply irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned for its high efficiency Index, and therefore Grundfos is 	ciency and alre	eady complies with the requirements of the best in class within submersible pumps.				
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05/11/2020

Qty. | Description

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

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.

Date:

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.

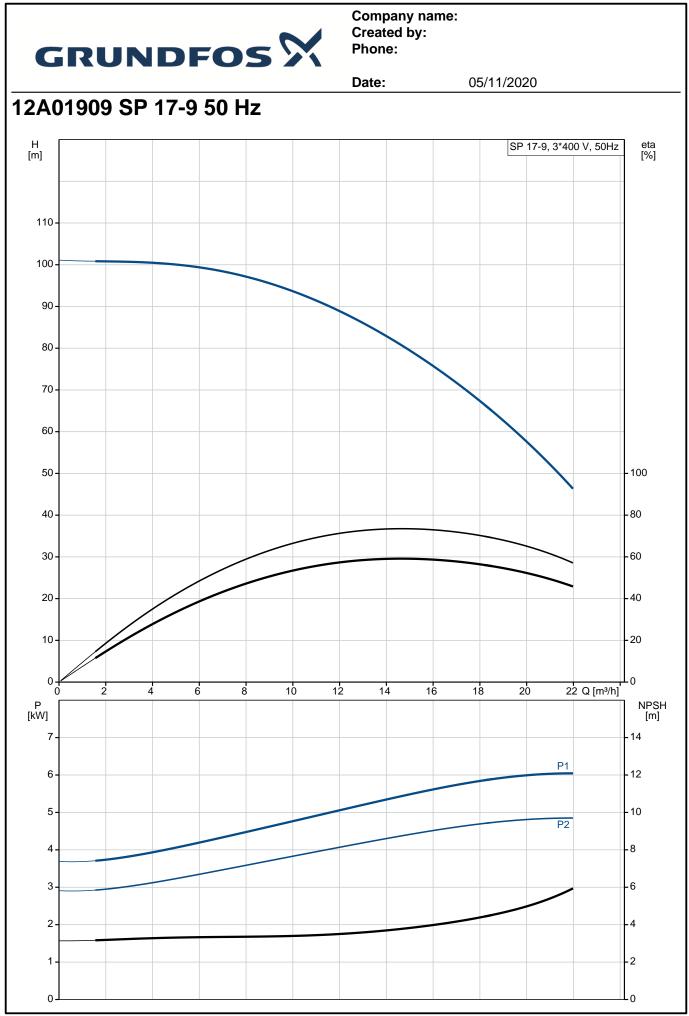
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



Water 40 °C 40 °C 20 °C 998.2 kg/m³
ata are based: 2900 rpm 17 m³/h 73 m 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



Jescription Installation: Pump ouldet: RP2 1/2 Motor diameter: 4 inch Electrical data:				Date:	05/11/2020	
Pump outlet:RP2 1/2Motor diameter:4 inchElectrical data:Motor type:MS4000Rated power - P2:5.5 kWPower (P2) required by pump:5.5 kWMains frequency:50 HzRated voltage:3 x 380-400-415 VRated voltage:3 x 380-400-415 VRated current:13.0-13.0-13.4 AStarting current:480-530-550 %Cos phi - power factor:0.85-0.81-0.76Rated speed:2850-2860-2870 rpmStart. method:direct-on-lineEnclosure class (IEC 34-5):IP68Insulation class (IEC 45):FBuilt-in temp. transmitter:yesMotor No:79195511Others:Motor No:Minimum efficiency index, MEI å%*:0.70Er P status:EuP Standalone/Prod.Net weight:43.2 kgGross weight:68.4 kgShipping volume:0.2 m³Danish VVS No.:388336090Finnish LVI No.:4762722Country of origin:DK	.	Description				
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Finnish LVI No.:4762722Country of origin:DK						
Country of origin: DK						
Custom tariff no.: 84137029						
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GRUNDF	05 21	Phone:			
		Date:	05/11/2020		
Description	Value	H [m]	SP 17	7-9, 3*400 V, 50Hz	eta [%]
General information:	Value	1			[,-]
Product name:	SP 17-9	110			
Product No:	12A01909	-			
EAN number:	5700391131189	100 -			
Price:	GBP 2977	90 -			
Technical:	02. 20.				
Pump speed on which pump data are based:	2900 rpm	80 - 70 -			
Rated flow:	17 m³/h				
Rated head:	73 m	60 -			
Stages:	9	50 -		1	100
Impeller reduc.:	NONE	-			
Shaft seal for motor:	HM/CER	40 -		- 8	30
	CE,EAC	30 -			60
Approvals on nameplate: Curve tolerance:	•	-			
	ISO9906:2012 3B	20-		- 4	40
Model:	B	10		2	20
Valve:	YES				
Motor version:	T40	0	5 10 15	L C 20 Q [m³/h])
Materials:		P [kW]		20 6 [11 /11]	NPSH
Pump:	Stainless steel	[kW]			[m]
Pump:	EN 1.4301	6-		P1 1	12
Pump:	AISI AISI 304				
Impeller:	Stainless steel	5 -		P2 -1	10
Impeller:	EN 1.4301	4 -		8	3
Impeller:	AISI AISI 304	3			6
Motor:	Stainless steel	2 -			1
Motor:	DIN WNr. 1.4301				
Motor:	AISI 304	1-		-2	2
Installation:				Lo)
Pump outlet:	RP2 1/2	RP2 1/	2		
Motor diameter:	4 inch	<u>134 GN</u>			
Liquid:					
Pumped liquid:	Water				
Maximum liquid temperature:	40 °C				
Max liquid t at 0.15 m/sec:	40 °C	ν, μ			
Selected liquid temperature:	20 °C	- 808			
Density:	998.2 kg/m ³	486			
Electrical data:					
Motor type:	MS4000				
Applic. motor:	GRUNDFOS				
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	95			
Rated current:	13.0-13.0-13.4 A				
Starting current:	480-530-550 %	L1 L2 L3 PE			
Cos phi - power factor:	0.85-0.81-0.76				
Rated speed:	2850-2860-2870 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:	yes	UVWPE			
Motor No:	79195511				
Others:					
Minimum efficiency index, MEI ≥:	0.70	(МУ			
ErP status:	EuP Standalone/Prod.	\ 3 ~ /			



		Date:	05/11/2020	
Description	Value			
Net weight:	43.2 kg			
Gross weight:	68.4 kg			
Shipping volume:	0.2 m ³			
Danish VVS No.:	388336090			
Finnish LVI No.:	4762722			
Country of origin:	DK			
Custom tariff no .:	84137029			

