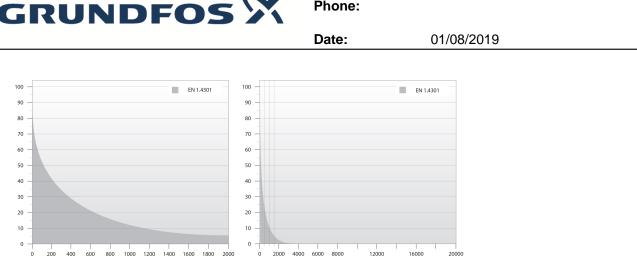


 Description SP 5A-60 Well Product picture may differ from actual product Product No.: 05171K60 Submersible borehole pump, suitable for pumping clean water. Can be installed v components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high carries drinking water approval. The pump is fitted with a 5.5 kW MS4000 motor with sand shield, mechanical shabearings and a volume compensating diaphragm. The motor is a canned type suit 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 com 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 v Minimum Efficiency Index, and therefore Grundfos is amongst the best in class w 	
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 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 we minimum Efficiency Index, and therefore Grundfos is amongst the best in class we minimum Efficiency Index. 	mmunication together with a
READY TECHNOLOGY	ith the requirements of the hin submersible pumps.
Pump All pump surfaces that are in contact with pumped liquids are made in stainless st and wear-resistant. The corrosion diagram below shows the capabilities of the pu temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).	eel which makes them corrosi np and motor in relation to the





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 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.

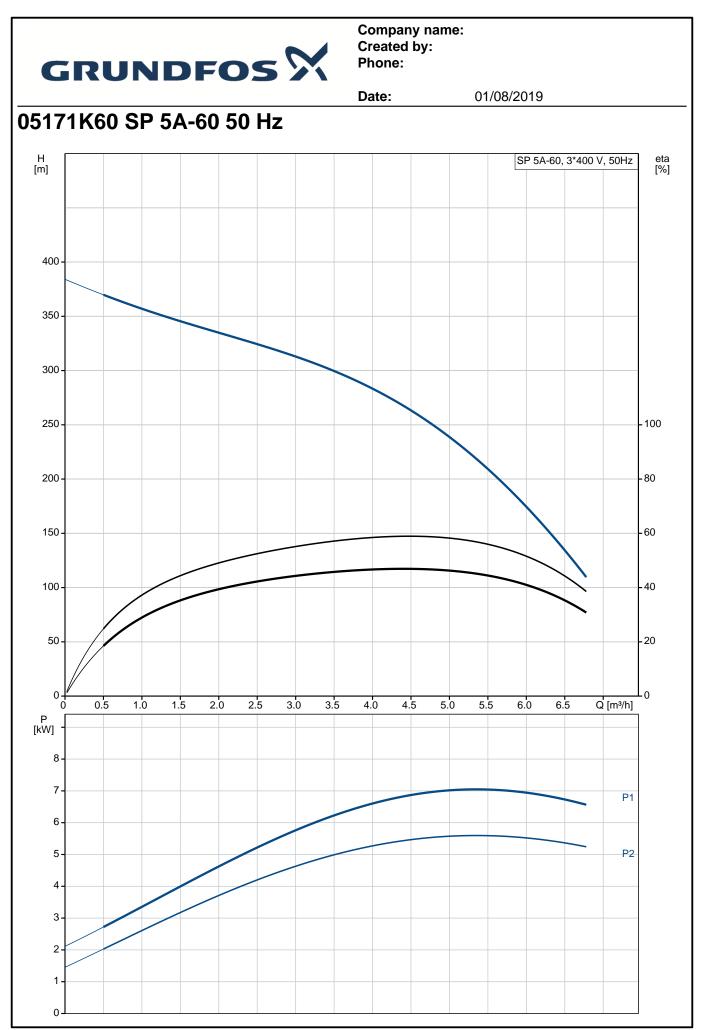


Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Selected liquid temperature: Density at selected liquid temperature	Water 40 °C 40 °C 20 °C erature: 998.2 kg/m ³
Technical: Pump speed on which pump da Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	ata are based: 2900 rpm 5 m ³ /h 245 m HM/CER CE,EAC ISO9906:2012 3B T40
Specification for shaft end:	CYLINDRICAL

Materials:



			Date:	01/08/2019	
у.	Description				
	Pump:	Stainless steel EN 1.4301			
	Impeller:	AISI 304 Stainless steel EN 1.4301 AISI 304			
	Motor:	Stainless steel DIN WNr. 1.4301 AISI 304			
	Installation:				
	Pump outlet: Motor diameter:	RP1 1/2 4 inch			
	Electrical data:				
	Motor type:	MS4000			
	Rated power - P2:	5.5 kW			
	Power (P2) required by pump:				
	Mains frequency: Rated voltage:	50 Hz 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	à‰¥: 0.50			
	ErP status:	EuP Standalone/Proc	J.		
	Net weight:	59.8 kg			
	Gross weight:	90.8 kg			
	Shipping volume: Country of origin:	238 m³ GB			
	Custom tariff no.:	84137029			
		01101020			



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		Date:	01/08/2019
Description	Value	H [m]	SP 5A-60, 3*400 V, 50Hz
General information:		-	
Product name:	SP 5A-60	-	
Product No:	05171K60	400 -	
EAN number:	5700391119705		
Price:	4.559,00 GBP	350 -	
Technical:	4.555,00 ODI	-	
Pump speed on which pump data are		300 -	
based:	2900 rpm	250 -	
Rated flow:	5 m³/h	230-	
Rated head:	245 m	200	
Stages:	60	200 -	
Impeller reduc.:	NONE	450	
Shaft seal for motor:	HM/CER	150 -	60
Approvals on nameplate:	CE,EAC	-	
Curve tolerance:	ISO9906:2012 3B	100-	40
Model:	A		
Valve:		50 -	- 20
	YES		
Motor version:	T40	0 // 0 0.5	1.5 2.5 3.5 4.5 5.5 Q [m³/h]
Specification for shaft end:	CYLINDRICAL	P	
Materials:		[kW]	
Pump:	Stainless steel		
	EN 1.4301	7-	P
	AISI 304	6-	
Impeller:	Stainless steel	5 -	P
···· • • • • • • • • • • • • • • • • •	EN 1.4301	4-	
	AISI 304	3-	
Motor:	Stainless steel	2	
		1-	
	DIN WNr. 1.4301		
	AISI 304		
Installation:		▶ 101	
Pump outlet:	RP1 1/2	RP1 1	10
Motor diameter:	4 inch	RFT I	<u>"</u>
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		
Electrical data:	NO 4000	_ <mark>ᠯ╶┤╵┤╵</mark> ┤ │	
Motor type:	MS4000		
Applic. motor:	GRUNDFOS		
Rated power - P2:	5.5 kW	<u>۳</u>	
Power (P2) required by pump:	5.5 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-400-415 V	I	
Rated current:	13.0-13.0-13.4 A	L1 L2 L3 PE	
Starting current:	480-530-550 %		
Cos phi - power factor:	0.85-0.81-0.76		
		<u>+</u> +++++	
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		
Motor No:	79195511		
Others:	10100011	M /	
Minimum efficiency index, MEI ≥:	0.50	- 1 /	
	0.00	_	

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GRUNDFUS			
		Date:	01/08/2019
Description	Value		
ErP status:	EuP Standalone/Prod.	-	
Net weight:	59.8 kg		
Gross weight:	90.8 kg		
Shipping volume:	238 m ³		
Country of origin:	GB		
Custom tariff no .:	84137029		

