	GRUNDFOSX	Company name: Created by: Phone:		
		Date:		
Qty.	Description			
1	SP 60-17			

Product No.: 14A01917

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.

Note! Product picture may differ from actual product

10/11/2020

The pump is fitted with a 30 kW MS6000 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.

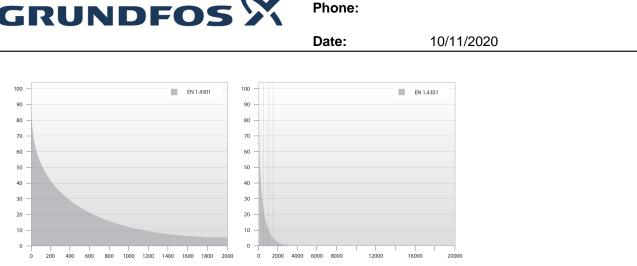


Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosionand 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 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.

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 faces are ceramic/carbon. The material combination provides good dry-running resistance. 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.

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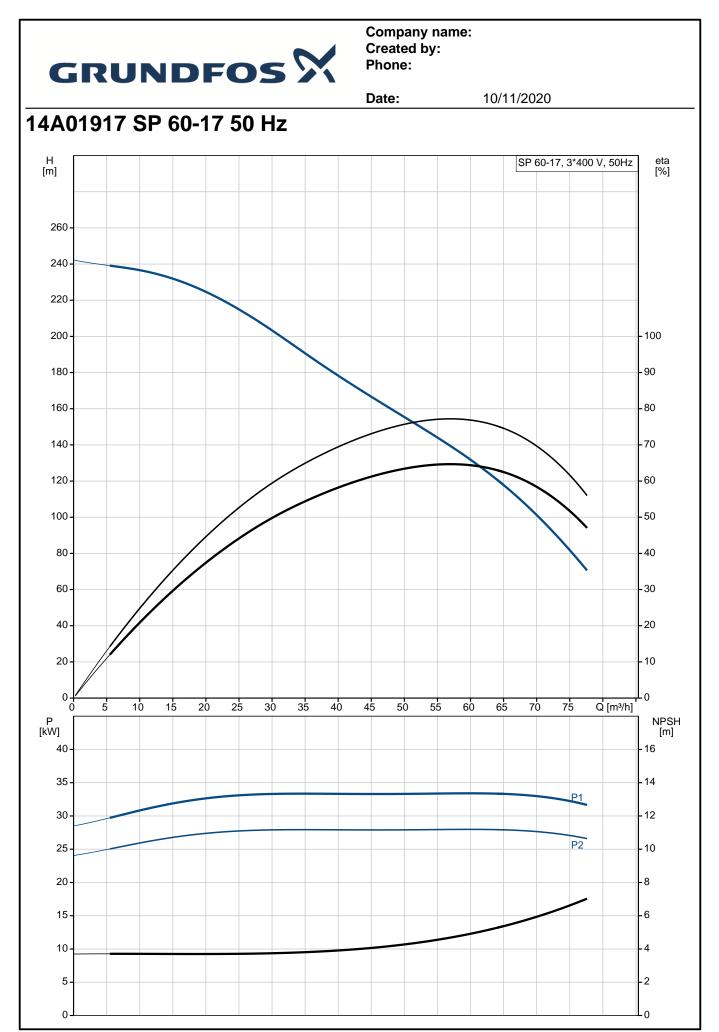


Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Technical: Pump speed on which pump da Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate:	ata are based: 2900 rp 60 m³/h 135 m CER/CARNBR CE,GOST2



Company name:

	GRUNDFO	25X	Created by: Phone:	
	Description		Date:	10/11/2020
┥	Curve tolerance:	ISO9906:2012 3B		
	Motor version:	T40		
	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:	RP4		
	Motor diameter:	6 inch		
	Electrical data:			
	Motor type:	MS6000		
	Rated power - P2:	30 kW		
	Power (P2) required by pump:	30 kW		
	Mains frequency:	50 Hz		
	Rated voltage:	3 x 380-400-415 V		
	Rated current:	66.5-64.0-63.0 A		
	Starting current:	450-500-530 %		
	Cos phi - power factor:	0.87-0.85-0.82		
	Rated speed:	2850-2870-2880 rpm	í -	
	Start. method:	direct-on-line		
	Enclosure class (IEC 34-5):	IP68		
	Insulation class (IEC 85):	F		
	Built-in temp. transmitter:	yes		
	Motor No:	78195520		
	Others:	≏0/ \/- O 4O		
	Minimum efficiency index, MEI á ErP status:	a‰≇: 0.40 EuP Standalone/Proc	h	
	Net weight:	128 kg		
	Gross weight:	169 kg		
	Shipping volume:	0.369 m ³		
	Danish VVS No.:	388343170		
	Country of origin:	GB		
	Custom tariff no.:	84137029		
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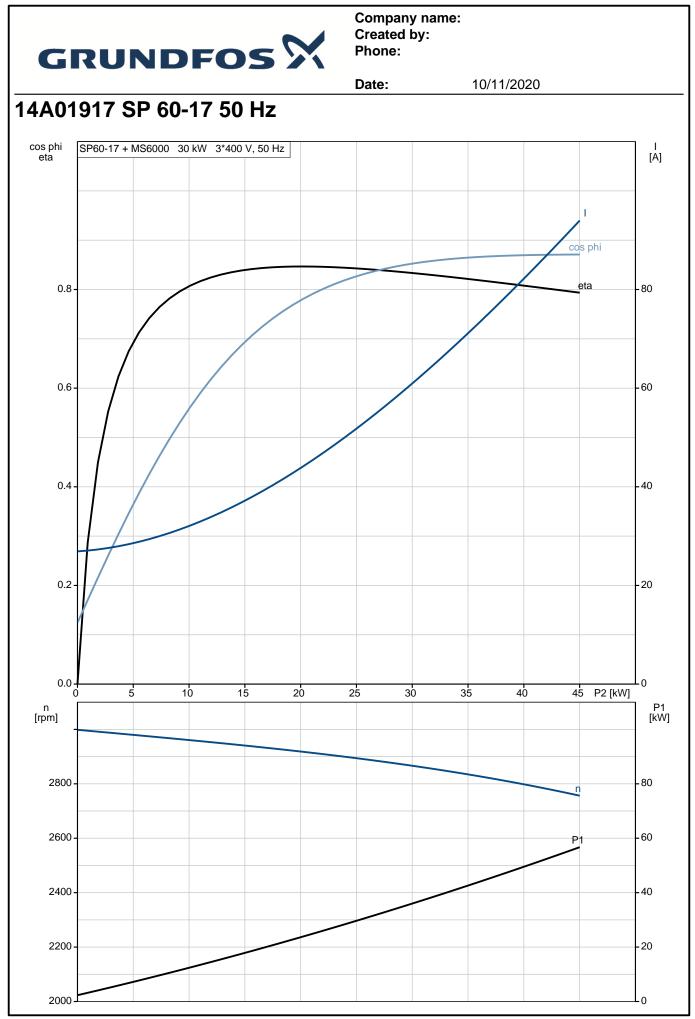
Company name: Created by: Phone:

		Date:	10/1	1/2020		
Description	Value	H [m]		SP 60-1	7, 3*400 V, 50Hz	eta [%]
General information:						
Product name:	SP 60-17	260 -				
Product No:	14A01917	240 -				
EAN number:	5708601060342	220 -				
Price:	GBP 9098	-				
Technical:		200 -				- 100
Pump speed on which pump data are		180 -				- 90
based:	2900 rpm	160 -				- 80
Rated flow:	60 m³/h	140 -				- 70
Rated head:	135 m	120 -			\sim	- 60
Stages:	17					
Impeller reduc.:	NONE	100 -				- 50
Shaft seal for motor:	CER/CARNBR	80 -				- 40
Approvals on nameplate:	CE,GOST2	60 -				- 30
Curve tolerance:	ISO9906:2012 3B					
Model:	В	40-				- 20
Valve:	YES	20				- 10
Motor version:	T40	0				-0
Materials:		0 10	20 30	40 50 60	70 Q [m³/h]	-
Pump:	Stainless steel	P [kW]				NPSH [m]
Pump:	EN 1.4301	-				
Pump:	AISI AISI 304	35 -			P1	- 14
Impeller:	Stainless steel	30-				- 12
	EN 1.4301	25-			P2	- 10
Impeller:		20 -				-8
Impeller:	AISI AISI 304	15 -				-6
Motor:	Stainless steel	10				-4
Motor:	DIN WNr. 1.4301	5-				-2
Motor:	AISI 304					
Installation:		0				-0
Pump outlet:	RP4	■ 148 <u>GN</u> ,	RP4			
Motor diameter:	6 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:	998.2 kg/m ³	49				
Electrical data:						
Motor type:	MS6000					
Applic. motor:	GRUNDFOS					
Rated power - P2:	30 kW					
Power (P2) required by pump:	30 kW					
Mains frequency:	50 Hz	╸╺╺┝┺╨╝╡╺				
Rated voltage:	3 x 380-400-415 V	139.5				
Rated current:	66.5-64.0-63.0 A					
Starting current:	450-500-530 %					
Cos phi - power factor:	0.87-0.85-0.82	Y/∆	DOL			
Rated speed:	2850-2870-2880 rpm					
Start. method:	direct-on-line	- ΦΦΦ	φφφι			
Enclosure class (IEC 34-5):	IP68					
Insulation class (IEC 85):	F					
Motor protec:	NONE	W2 U2 V2	U1 V1 W1			
		U1 V1 W1 PE				
Thermal protec:	external	- M	M			
Built-in temp. transmitter:	yes	3~	3~			
Motor No:	78195520		Brown			
Others:	0.40	U1, W2 V1, U2	Brown Black			
Minimum efficiency index, MEI ≥:	0.40					
	EuP Standalone/Prod.	W1, V2	Grey			

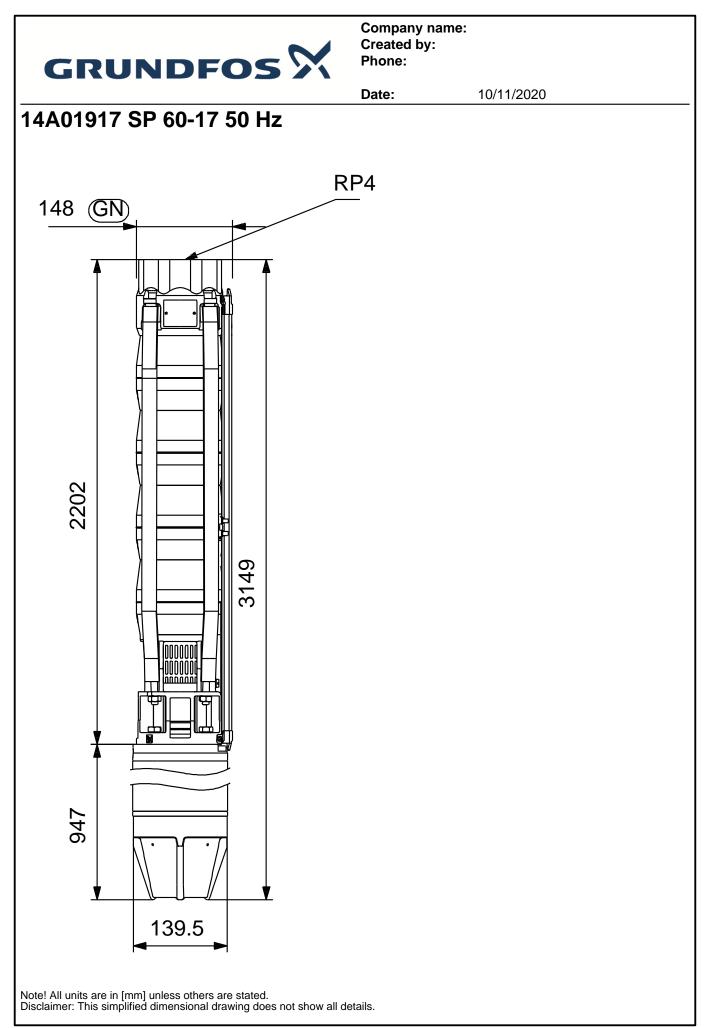


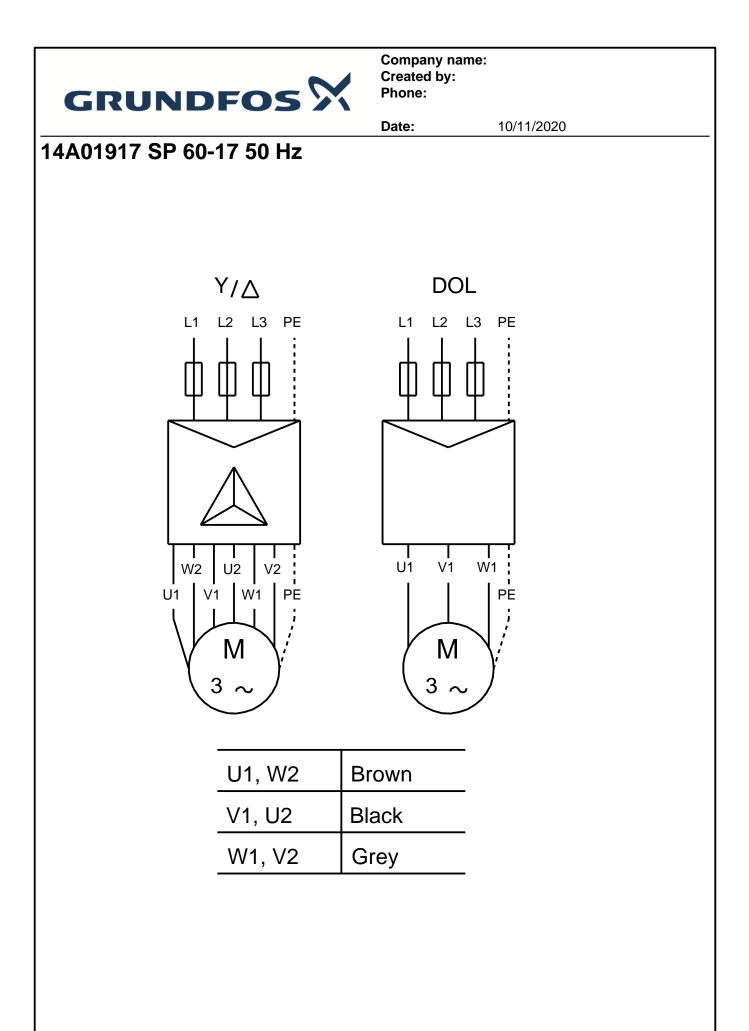
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Description	Value		
Net weight:	128 kg	-	
Gross weight:	169 kg		
Shipping volume:	0.369 m ³		
Danish VVS No.:	388343170		
Country of origin:	GB		
Custom tariff no.:	84137029		



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Note! All units are in [mm] unless others are stated.