

1			Date:	10/11/2020	
	Description				
ę	SP 60-2				
	3 . 8				
		ote! Product p	icture may differ from	actual product	
ł	Product No.: 14A01902				
(Submersible borehole pump, suitable components are made in stainless ste carries drinking water approval.	for pumping el, EN 1.43	g clean water. Car 01 (AISI 304), tha	be installed vertically or horizontally. All s t ensures high corrosive resistance. This p	
ł	The pump is fitted with a 4 kW MS400 bearings and a volume compensating mechanical stability and high efficience	g diaphragm	. The motor is a ca	chanical shaft seal, water-lubricated journa anned type submersible motor offering goo in to 40 °C	
-	The motor is not fitted with a tempera	•	•	pnitoring is desired, a Pt1000 sensor can b	
fitted. The motor is for direct-on-line starting (DOL).					
ſ	Further preduct details				
	Further product details The pump is suitable for applications	similar to th	e following:		
	• •		o ionowing.		
	- raw-water supply		o lonowing.		
	 raw-water supply irrigation groundwater lowering 		e tonewing.		
	irrigationgroundwater loweringpressure boosting		e following.		
-	 irrigation groundwater lowering pressure boosting fountain applications. 	for its high e		adv complies with the requirements of the	
-	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned	for its high e ore Grundfo	efficiency and alrea	ady complies with the requirements of the best in class within submersible pumps.	
-	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore the second secon	for its high e ore Grundfo	efficiency and alrea	ady complies with the requirements of the best in class within submersible pumps.	
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	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore EURP ELADY <pelady< p=""> ELADY <pelady< p=""> <pelady< p=""> <pelady< p=""> <p< td=""><td>ore Grundfo with pumper gram below</td><td>efficiency and alreats is amongst the b d liquids are made</td><td>in stainless steel which makes them corro</td></p<></pelady<></pelady<></pelady<></pelady<>	ore Grundfo with pumper gram below	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corro	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore EUP EUP EUP Pump All pump surfaces that are in contact are wear-resistant. The corrosion diatemperature in Celsius (y-axis) and the	ore Grundfo with pumpe gram below le concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corro	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore EURP ELADY <pelady< p=""> ELADY <pelady< p=""> <pelady< p=""> <pelady< p=""> <p< td=""><td>ore Grundfo with pumper gram below</td><td>efficiency and alreats is amongst the b d liquids are made</td><td>in stainless steel which makes them corro</td></p<></pelady<></pelady<></pelady<></pelady<>	ore Grundfo with pumper gram below	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corro	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore FURD All pump surfaces that are in contact are merature in Celsius (y-axis) and therefore ¹⁰⁰	with pumper gram below the concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corrollities of the pump and motor in relation to to ppm (x-axis).	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore Funp All pump surfaces that are in contact are merature in Celsius (y-axis) and therefore	with pumper gram below le concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corrollities of the pump and motor in relation to to ppm (x-axis).	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore FURD Pump All pump surfaces that are in contact and wear-resistant. The corrosion diatemperature in Celsius (y-axis) and therefore 	with pumper gram below the concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corrollities of the pump and motor in relation to to ppm (x-axis).	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore FURDER Pump All pump surfaces that are in contact are wear-resistant. The corrosion diatemperature in Celsius (y-axis) and therefore EN14301 	with pumper gram below the concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corrollities of the pump and motor in relation to to ppm (x-axis).	
	 irrigation groundwater lowering pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and therefore FUND FUND All pump surfaces that are in contact are merature in Celsius (y-axis) and therefore EN14301 EN14301	with pumper gram below te concentra	efficiency and alreats is amongst the b d liquids are made	in stainless steel which makes them corrollities of the pump and motor in relation to to ppm (x-axis).	
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Date:

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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.

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.

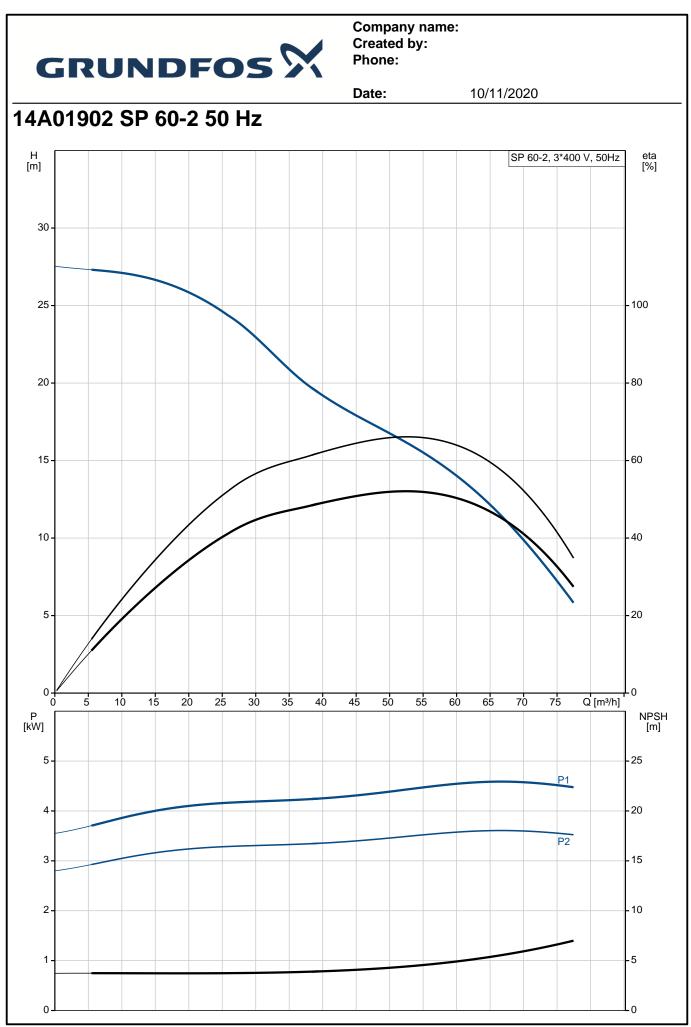
The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

Liquid:

Pumped 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 dat Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	a are based: 2900 rpm 60 m³/h 14 m HM/CER CE,EAC ISO9906:2012 3B T40
Materials: Pump:	Stainless steel EN 1.4301
Impeller: Motor:	AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304
Installation: Pump outlet: Motor diameter:	RP4 4 inch
Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor:	MS4000 4 kW 4 kW 50 Hz 3 x 380-400-415 V 9.75-9.60-9.80 A 460-500-530 % 0.85-0.80-0.77



Rated speed:2850-2865-2875 rpmStart. method:direct-on-lineEnclosure class (IEC 34-5):IP68Insulation class (IEC 85):FBuilt-in temp. transmitter:noMotor No:79194510Others:Minimum efficiency index, MEI ≥:Minimum efficiency index, MEI ≥:0.40ErP status:EuP Standalone/Prod.Net weight:31.5 kgGross weight:35.9 kgShipping volume:0.052 m³Danish VVS No.:388343020Country of origin:DK	GRUND	Date:	10/11/2020
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		Date:	10/11/	2020	
Description	Value	H [m]		SP 60-2, 3*400 V, 50H	z eta [%]
General information:					
Product name:	SP 60-2	30 -			
Product No:	14A01902				
EAN number:	5700391497926	05			400
Price:	GBP 2879	25 -			- 100
Technical:		-			
Pump speed on which pump data are based:	2900 rpm	20 -			- 80
Rated flow:	60 m³/h	-			
Rated head:	14 m	15 -			- 60
Stages:	2	-			
Impeller reduc.:	NONE	-			
Shaft seal for motor:	HM/CER	10			- 40
Approvals on nameplate:	CE,EAC				
Curve tolerance:	ISO9906:2012 3B				
Model:	B	5-			- 20
Valve:	YES				
Motor version:	T40				
Materials:	· · •	0 10	20 30 40	50 60 70 Q [m³/l	ן 1
Pump:	Stainless steel	P [kW]			NPS [m]
Pump:	EN 1.4301	5-	_		- 25
Pump:	AISI AISI 304	-		P1	
Impeller:	Stainless steel	4-			- 20
Impeller:	EN 1.4301	3		P2	- 15
Impeller:	AISI AISI 304				15
•		2-			10
Motor:	Stainless steel	-			
Motor:	DIN WNr. 1.4301	1-			- 5
Motor:	AISI 304				0
Installation:		- I			0
Pump outlet:	RP4	146 GN	RP4		
Motor diameter:	4 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	- 69			
Density:	998.2 kg/m³				
Electrical data:					
Motor type:	MS4000				
Applic. motor:	GRUNDFOS	▖▕▖▕▟▀▇▀▋			
Rated power - P2:	4 kW				
Power (P2) required by pump:	4 kW				
Mains frequency:	50 Hz	95			
Rated voltage:	3 x 380-400-415 V	 30 → 			
Rated current:	9.75-9.60-9.80 A				
Starting current:	460-500-530 %				
Cos phi - power factor:	0.85-0.80-0.77				
Rated speed:	2850-2865-2875 rpm	ΦΦΦΪ			
Start. method:	direct-on-line				
Enclosure class (IEC 34-5):	IP68	$ $ \sim $ $			
nsulation class (IEC 85):	F				
Notor protec:	NONE				
Thermal protec:	external				
Built-in temp. transmitter:	no				
Motor No:	79194510	UVWPE			
Others:					
Minimum efficiency index, MEI ≥:	0.40	М/			
ErP status:	EuP Standalone/Prod.	$\begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix}$			
		\ 3 ~ /			

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Custom tariff no.:	84137029			

