Date:       19/01/2021         Pescription       SP 2A-18         Image: Ima				Company n Created by: Phone:	2	DFOS	GRUNI	
SP 2A-18         Froduct No.:       On request         Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally, components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. T carries drinking water approval.         The pump is fitted with a 0.75 kW MS402 motor with sand shield, lip seal, water-lubricated journal bearin volume compensating diaphragm. The motor is a canned type submersible motor offering good mechani stability and high efficiency. Suitable for temperatures up to 40°C.         The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a Pt1000 sensor of fitted.         The motor is for direct-on-line starting (DOL).         Further product details         The pump is suitable for applications similar to the following:            ir groundwater lowering            ip groundwater lowering            ip groundwater lowering            ip groundwater in contact with pumped liquids are made in stainless steel which makes them and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relatio temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).		1/2021	19/01	Date:				
Image: Second							Description	
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The pump is suitable for applications similar to the following: <ul> <li>raw-water supply</li> <li>irrigation</li> <li>groundwater lowering</li> <li>pressure boosting</li> <li>fountain applications.</li> </ul> <li>Pump</li> All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).	nical	offering good mechanica	ersible motor c	nned type subme s up to 40 °C.	motor is a ca temperature re sensor. If	ng diaphragm. The r iciency. Suitable for ed with a temperatur	volume compensating stability and high effic The motor is not fitted fitted.	
temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).				uids are made ii	th pumped li	e for applications sir oply lowering sting cations. at are in contact wi	The pump is suitable - raw-water supp - irrigation - groundwater lo - pressure boost - fountain applic <b>Pump</b> All pump surfaces tha	
	on to the	mp and motor in relation t	ties of the pum pm (x-axis).	ows the capabilit of chloride in p	am below sh concentratio	The corrosion diagr us (y-axis) and the	and wear-resistant. The temperature in Celsius	
			EN 1.4301		-	EN 1.4301	_	
					80 -		80 -	
					70		70	
					-			
					-			
					30 —		-	
					20 —		20 -	
					10 -		10 -	
		000	16000 20000	00 6000 8000 12000		1000 1200 1400 1600 1800 20		
					0 2000 4	1200 1000 1000 20		
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.		1 TPU (Thermoplastic	Rubber) and	Nitrile-Butadiene	ade of NBR (	in the pump are ma	The elastomer parts in	



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Company name: Created by:

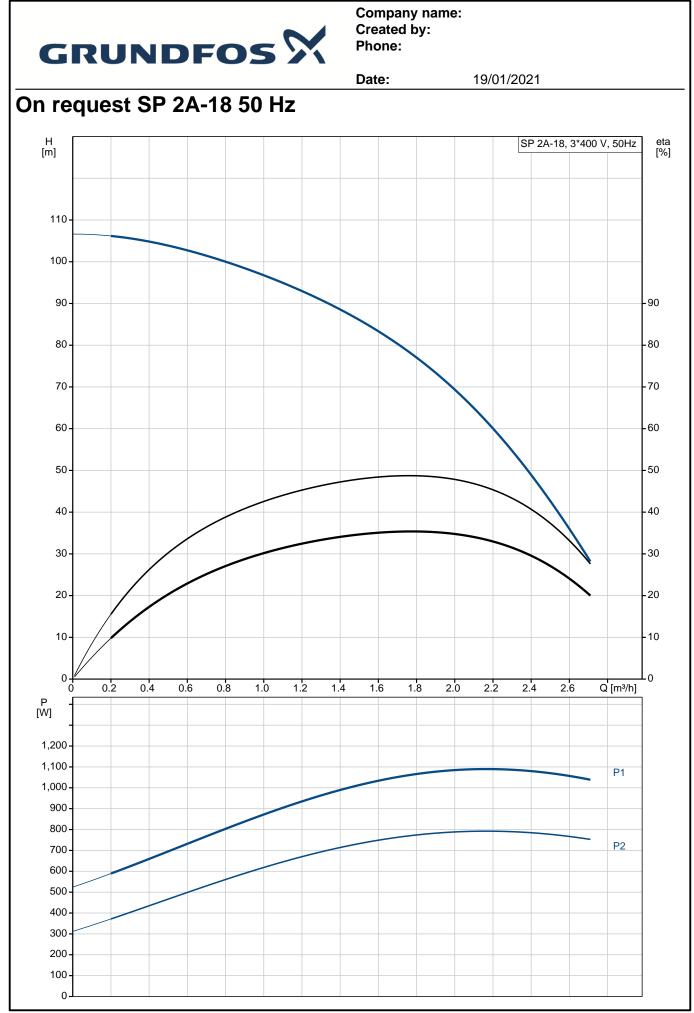
GRUNDF	osX	Phone:	
		Date:	19/01/2021
Description			
Motor			
This results in high mechanical	stability, optimum coo	oling and reduce	ndings are embedded in polymer compound. es the risk of short circuits in the windings.
The shaft seal is of the lip seal good wear resistance, good ela potable water.	type characterised by asticity and resistance	low friction aga to particles. Th	ainst the rotor shaft. The NBR elastomer offers e rubber material is approved for use in
The motor can be fitted with a l operating temperature condition		or that together	with a control unit ensures that the maximum
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 <sup>3</sup>		
Technical:			
Pump speed on which pump da	ata are based: 2900	rpm	
Rated flow:	2 m³/h	•	
Rated head:	72 m		
Shaft seal for motor:	LIPSEAL		
Approvals on nameplate:	CE,EAC		
Curve tolerance:	ISO9906:2012 3B		
Motor version:	T40		
Specification for shaft end:	SPLINE		
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:	Rp1 1/4		
Motor diameter:	4 inch		
Electrical data:			
Motor type:	MS402		

Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Start. method: Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in temp. transmitter:	MS402 0.75 kW 0.75 kW 50 Hz 3 x 380-400-415 V 2.15-2.30-2.40 A 480-490-480 % 0.75-0.72-0.65 2850-2860-2870 rpm direct-on-line IP68 B no
•	
Motor No: Others:	79192004
Minimum efficiency index, MEI â	i‰¥: 0.70



Company name: Created by: Phone:

CRUNDECOS (N)       Profile:         Date:       19/01/2021         Cty.       Description         ErP status:       EuP Standalone/Prod.         Net weight:       13.6 kg         Gross weight:       15 kg         Shipping volume:       16.3 m <sup>3</sup> Danish VVS No.:       388312180         Swedish RSK No.:       5852896         Finnish LVI No.:       4762516         Norwegian NRF no.:       9040814
ErP status:EuP Standalone/Prod.Net weight:13.6 kgGross weight:15 kgShipping volume:16.3 m³Danish VVS No.:388312180Swedish RSK No.:5852896Finnish LVI No.:4762516
Net weight:         13.6 kg           Gross weight:         15 kg           Shipping volume:         16.3 m³           Danish VVS No.:         388312180           Swedish RSK No.:         5852896           Finnish LVI No.:         4762516



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## Company name: Created by: Phone:

			19/01/2		
Description	Value	H [m]		SP 2A-18, 3*4	00 V, 50Hz
General information:					
Product name:	SP 2A-18	110 -			
Product No:	On request				
EAN number:	On request	100 -			
Price:		90 -			
Technical:		90 -			
Pump speed on which pump data are based:	2900 rpm	80 -			
Rated flow:	2 m³/h	70 -			
Rated head:	72 m	60 -			
Stages:	18				
Impeller reduc.:	NONE	50 -			
Shaft seal for motor:	LIPSEAL	40 -			$\mathbf{N}$
Approvals on nameplate:	CE,EAC	40 -			
Curve tolerance:	ISO9906:2012 3B	30 -			
Model:	A				$\mathbf{N}$
Valve:	YES	20-			
Motor version:	T40	10-			
Specification for shaft end:	SPLINE	0	0.6 1.0 1.4	4 1.8 2.2	Q [m³/h]
Materials:	Stainland start	Р -	0.0 1.0 1.4	+ 1.0 2.2	(۱۱۱۴/N] م
Pump:	Stainless steel	[W]			
Pump:	EN 1.4301	1,200 -			
Pump:	AISI AISI 304	1,000 -			
Impeller:	Stainless steel				
Impeller:	EN 1.4301	800 -			
Impeller:	AISI AISI 304	600 -			
Motor:	Stainless steel	000			
Motor:	DIN WNr. 1.4301	400			
Motor:	AISI 304	200 -			
Installation:		200-			
Pump outlet:	Rp1 1/4	0			
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				
Density:	998.2 kg/m <sup>3</sup>				
Electrical data:	·····				
Motor type:	MS402				
Applic. motor:	GRUNDFOS				
Rated power - P2:	0.75 kW				
Power (P2) required by pump:	0.75 kW				
Mains frequency:	50 Hz				
	3 x 380-400-415 V				
Rated voltage:					
Rated current:	2.15-2.30-2.40 A				
Starting current:	480-490-480 %				
Cos phi - power factor:	0.75-0.72-0.65				
Rated speed:	2850-2860-2870 rpm				
Start. method:	direct-on-line				
Enclosure class (IEC 34-5):	IP68				
Insulation class (IEC 85):	В				
Motor protec:	NONE				
Thermal protec:	external				
Built-in temp. transmitter:	no				
Motor No:	79192004				
Others:					
Minimum efficiency index, MEI ≥:	0.70				



## Company name: Created by: Phone:

GRUNDFU			
		Date:	19/01/2021
Description	Value		
ErP status:	EuP Standalone/Prod.		
Net weight:	13.6 kg		
Gross weight:	15 kg		
Shipping volume:	16.3 m <sup>3</sup>		
Danish VVS No.:	388312180		
Swedish RSK No.:	5852896		
Finnish LVI No.:	4762516		
Norwegian NRF no.:	9040814		

