

Company name: Created by:

			Date:	10/11/2020	
Description					
SP 60-21					
	(T)				
Droduct Ma	14444224	Note! Product pict	ure may differ from	n actual product	
Product No.:	. 14AA4321				
Submersible	borehole pump, suita	able for pumpina	clean water. Ca	in be installed vertically or	horizontally. All s
components	are made in stainless	s steel, EN 1.430	1 (AISI 304), th	at ensures high corrosive i	resistance. This p
	ing water approval.			tor lubricated is unal bear	
compensatir	nited with a 37 kw M	windable motor co	ontruction allow	ter-lubricated journal bear s complete access to the	windings and a volum
rewinding. T	he stator windings are	e PE/PA insulated	d made for cont	inous operations (S1). Su	itable for
•	s up to 50 °C. The mo		a mechanical sr	ian seal.	
The motor is	s for direct-on-line star	ting (DOL).			
Further pr	oduct details				
•	suitable for application	ons similar to the	following:		
	vater supply		lonowing.		
- irrigat					
•	ndwater lowering				
	ure boosting ain applications.				
		ed for its high eff	iciency and alre	eady complies with the req	uirements of the
				best in class within subme	
EUP					
READY					
PUMP TECHNOLOGY					
Pump					
•	faces that are in cont	act with pumped	liquids are mad	e in stainless steel which i	makes them corro
and wear-re	sistant. The corrosion	diagram below s	hows the capat	pilities of the pump and mo	otor in relation to
	in Celsius (y-axis) an	d the concentration	on of chloride ir	n ppm (x-axis).	
temperature	EN	1.4301 100 -		EN 1.4301	
		90			
100 90 80	-	80			
100 90 80 70		70 -			
temperature					
temperature					
temperature		70			
temperature		70 - 60 - 50 - 40 - 30 -			

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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 winding wire is made from pure electrolytic cobber insulated by extruded two layers of PE/PA with high dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensures the best possible cooling of the winding wire. The PA layer ensures high mechanical wear properties of the winding wire.

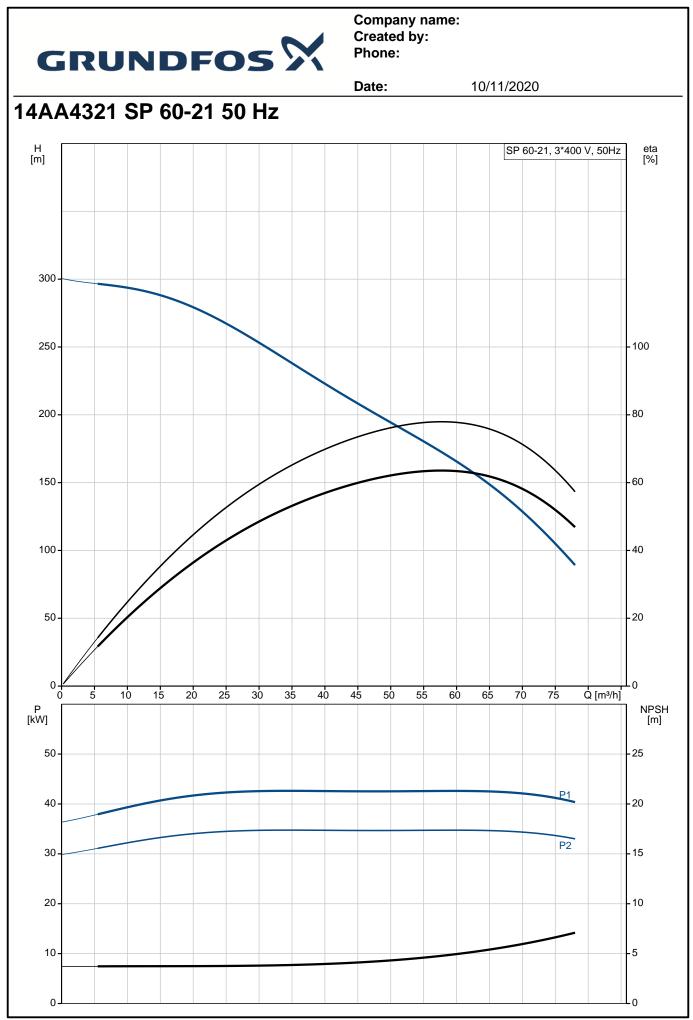
The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during normal operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking water approved.

Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.5 m/sec: Selected liquid temperature: Density:	Water 50 °C 50 °C 20 °C 998.2 kg/m <sup>3</sup>
Technical: Pump speed on which pump d Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	lata are based: 2900 rpm 60 m <sup>3</sup> /h 168 m SIC/SIC CE ISO9906:2012 3B T50
Materials:	
Pump:	Stainless steel
Impeller: Motor:	EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Cast iron DIN WNr. 0.6025 ASTM 35-40
Installation:	
Pump outlet:	RP4
Motor diameter:	6 inch
Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Service factor: Rated current: Starting current:	MMS6 37 kW 37 kW 50 Hz 3 x 380-400-415 V 1.00 87.0-84.5-85.0 A 455-495-510 %



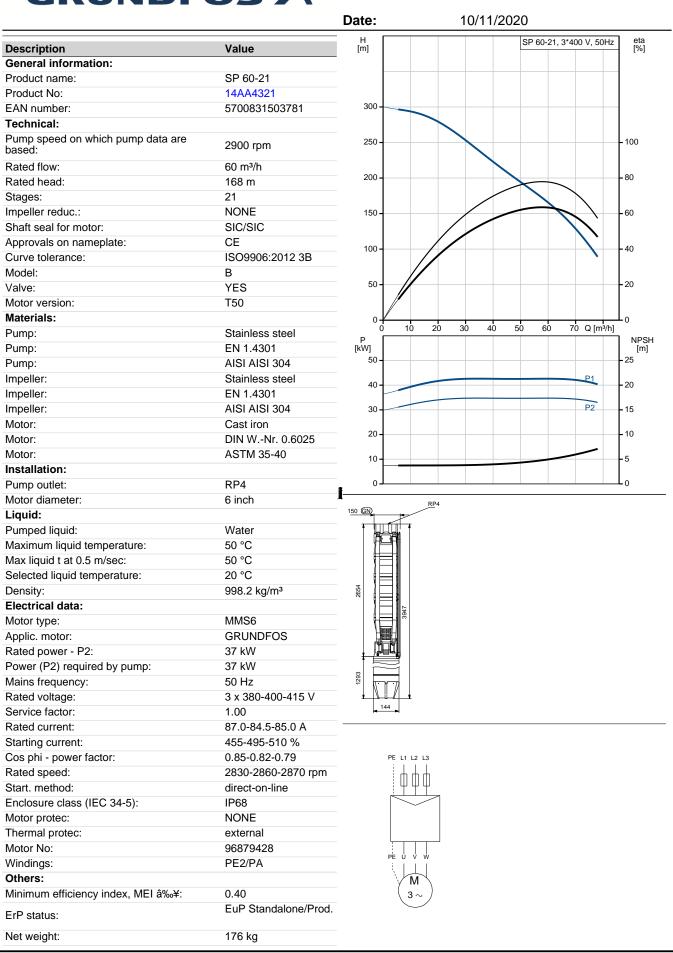
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Description				
Cos phi - power factor: Rated speed: Start. method: Enclosure class (IEC 34-5): Motor No: Windings:	0.85-0.82-0.79 2830-2860-2870 rpm direct-on-line IP68 96879428 PE2/PA	1		
Others:				
Minimum efficiency index, MEI ErP status: Net weight: Gross weight: Shipping volume:	≥: 0.40 EuP Standalone/Pro 176 kg 226 kg 0.454 m <sup>3</sup>	d.		
Country of origin: Custom tariff no.:	GB 84137029			
	04101023			





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Company name: Created by: Phone:

Date:10/11/2020DescriptionValueGross weight:226 kgShipping volume:0.454 m³Country of origin:GBCustom tariff no.:84137029

