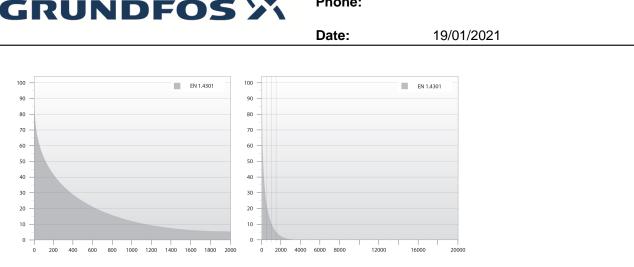


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The elastomer parts in the pump offer good wear resistance and long service intervals. The bearings are made of LSR (Liquid Silicone Rubber), sealing rings are made of TPU (Thermoplastic Poly-Urethane) and the non-return valve is made of NBR (Nitrile-Butadiene Rubber). The special elastomer material of the bearings offers increased resistance to sand and other abrasive particles (from 50 to 150 mg/l).

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

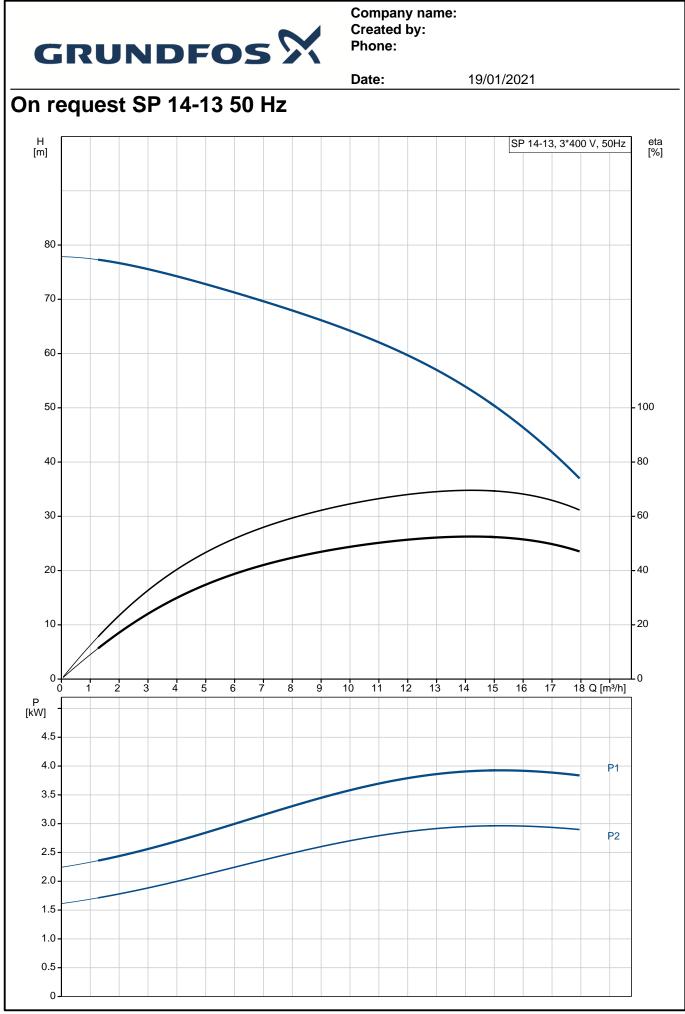
The stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings.

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: 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/m³		
Technical: Pump speed on which pump da Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	ta are based: 2900 rpm 14 m³/h 56.2 m HM/CER CE,EAC ISO9906:2012 3B T40		
Materials: Pump: Impeller:	Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301		
Motor:	AISI AISI 304 Stainless steel DIN WNr. 1.4301		



		Date:	19/01/2021	
Description				
	AISI 304			
Installation:				
Pump outlet:	Rp2			
Motor diameter:	4 inch			
Electrical data:				
Motor type:	MS4000			
Rated power - P2:	3 kW			
Power (P2) required by pump:	3 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-400-415 V			
Rated current:	7.70-7.85-8.10 A			
Starting current:	460-490-500 %			
Cos phi - power factor:	0.82-0.77-0.73			
Rated speed:	2850-2865-2875 rpm			
Start. method:	direct-on-line			
Enclosure class (IEC 34-5):	IP68			
Insulation class (IEC 85):	F			
Built-in temp. transmitter:	no			
Motor No:	79194508			
Others:				
Minimum efficiency index, MEI	≥: 0.50			
ErP status:	EuP Standalone/Proc	ł.		
Net weight:	32.4 kg			
Gross weight:	38 kg			
Shipping volume:	0.068 m <sup>3</sup>			
Danish VVS No.:	388482013			
Finnish LVI No.:	4762709			



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		Date:	10/01/	/2021	
Description	otion Value			SP 14-13,	3*400 V, 50Hz
General information:		[m]			
Product name:	SP 14-13				
Product No:	On request	80 -			
EAN number:	On request				
Price:	Onroquost	- 70			
Technical:		70 -			
Pump speed on which pump data are	0000	60 -			
based:	2900 rpm				
Rated flow:	14 m³/h	50 -			
Rated head:	56.2 m				
Stages:	13	40 -			
Impeller reduc.:	NONE				
Shaft seal for motor:	HM/CER	30 -			
Approvals on nameplate:	CE,EAC	30 T			
Curve tolerance:	ISO9906:2012 3B				
Model:	A	20-			
Valve:	YES	- //			
Motor version:	T40	10			
Materials:	140	-			
	Stainland starl		4 6 8	10 12 14	16 Q [m³/h]
Pump:	Stainless steel	P _	4 0 8	10 12 14	io ų [m³/h]
Pump:	EN 1.4301	[kW]			
Pump:	AISI AISI 304				
Impeller:	Stainless steel	4.0 -			
Impeller:	EN 1.4301	3.5 -			
Impeller:	AISI AISI 304	3.0 -			
Motor:	Stainless steel	2.5			
Motor:	DIN WNr. 1.4301	2.0			
Motor:	AISI 304	1.5			
Installation:		1.0			
Pump outlet:	Rp2	0.5 -			
Motor diameter:	4 inch	0			
Liquid:		-			
	Watar				
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:	MS4000				
Applic. motor:	NEMA				
Rated power - P2:	3 kW				
Power (P2) required by pump:	3 kW				
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-400-415 V				
Rated current:	7.70-7.85-8.10 A				
Starting current:	460-490-500 %				
Cos phi - power factor:	0.82-0.77-0.73				
Rated speed:	2850-2865-2875 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:	no				
Motor No:	79194508				
Others:					
Minimum efficiency index, MEI ≥:	0.50				
WITH THE ENCICIENCY INCEX, WEI A7007.					
ErP status:	EuP Standalone/Prod.				



		Date:	19/01/2021
Description	Value		
Net weight:	32.4 kg	-	
Gross weight:	38 kg		
Shipping volume:	0.068 m <sup>3</sup>		
Danish VVS No.:	388482013		
Finnish LVI No.:	4762709		

