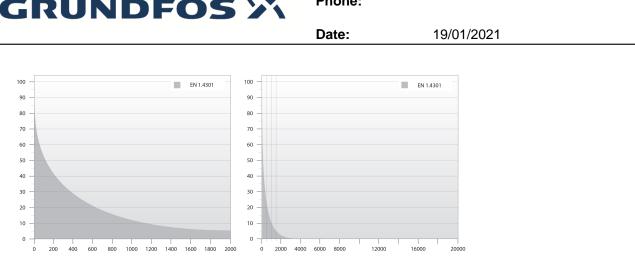




Company name: Created by: Phone:



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 of the lip seal type characterised by low friction against the rotor shaft. The NBR elastomer offers good wear resistance, good elasticity and resistance to particles. The rubber material is approved for use in potable water.

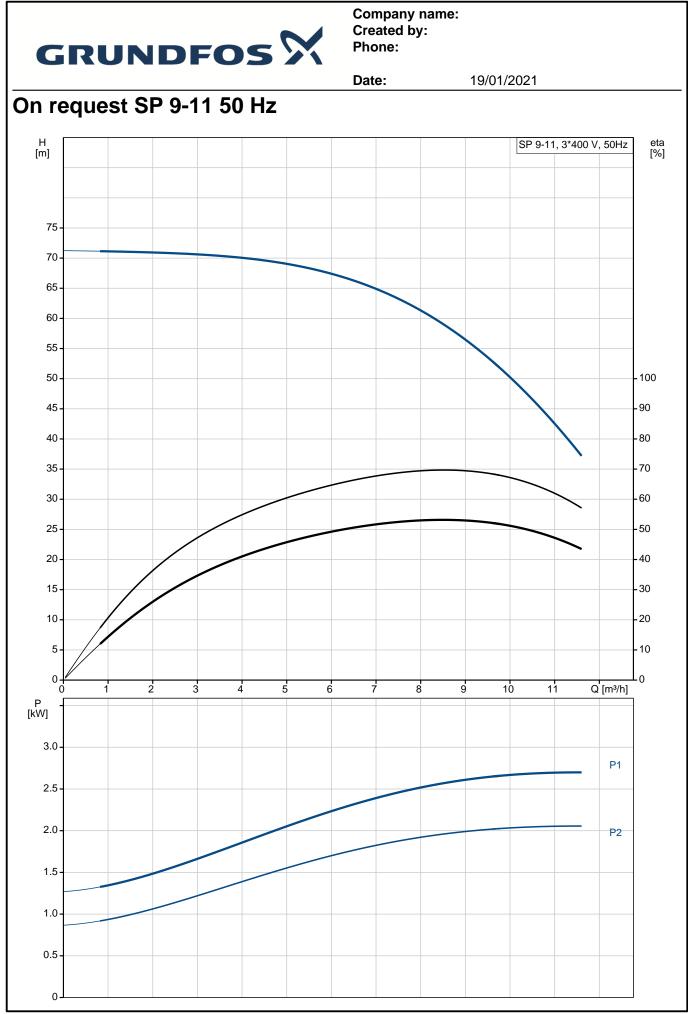
The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

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/m <sup>3</sup>	
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 9 m³/h 57.5 m LIPSEAL CE,EAC ISO9906:2012 3B T40	
Materials: Pump: Impeller: Motor:	Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301	
	DIN WNr. 1.4301	



Company name: Created by:

		os 🕅	Date:	19/01/2021	
ļ	Description				
		AISI 304			
	Installation:				
	Pump outlet:	Rp2			
	Motor diameter:	4 inch			
	Electrical data:				
	Motor type:	MS402			
	Rated power - P2:	2.2 kW			
	Power (P2) required by pump:				
	Mains frequency:	50 Hz			
	Rated voltage:	3 x 380-400-415 V			
	Rated current:	5.50-5.50-5.70 A			
	Starting current:	440-460-470 %			
	Cos phi - power factor:	0.85-0.82-0.77			
	Rated speed:	2850-2860-2870 rpm			
	Start. method:	direct-on-line			
	Enclosure class (IEC 34-5):	IP68			
	Insulation class (IEC 85):	В			
	Built-in temp. transmitter: Motor No:	no 79192007			
		79192007			
	Others:				
	Minimum efficiency index, MEI				
	ErP status:	EuP Standalone/Prod			
	Net weight:	22.6 kg			
	Gross weight:	25.1 kg			
	Shipping volume:	0.021 m <sup>3</sup>			
	Danish VVS No.: Finnish LVI No.:	388480011			
	Finnish LVI No.:	4762693			





## Company name: Created by: Phone:

		Date:	19/01	
Description	Value	H [m]		SP 9-11, 3*400 V, 50Hz
General information:				
Product name:	SP 9-11	75		
Product No:	On request	75 -		
EAN number:	On request	70 -		
Price:	1	65 -		
Technical:		60 -		
Pump speed on which pump data are		55 -		
based:	2900 rpm	50 <b>-</b>		
Rated flow:	9 m³/h	50 <b>-</b> 45 <b>-</b>		
Rated head:	57.5 m			
Stages:	11	40 -		
Impeller reduc.:	NONE	35 -		
Shaft seal for motor:	LIPSEAL	30 -		
Approvals on nameplate:	CE,EAC	25 -		
Curve tolerance:	ISO9906:2012 3B	20 -		
Model:	A	15-		
Valve:	YES	10-		
Motor version:	T40	5-		
Materials:		o /		
Pump:	Stainless steel		2 4	6 8 10 Q [m³/h]
Pump:	EN 1.4301	P - [kW]		
Pump:	AISI AISI 304	3.0 -		
Impeller:	Stainless steel			
Impeller:	EN 1.4301	2.5 -		
Impeller:	AISI AISI 304	2.0 -		
Motor:	Stainless steel	-		
Motor:	DIN WNr. 1.4301	1.5		
Motor:	AISI 304	1.0		
Installation:				
	Pn2	0.5 -		
Pump outlet:	Rp2			
Motor diameter:	4 inch	0 -		
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:	NEMA			
Rated power - P2:	2.2 kW			
Power (P2) required by pump:	2.2 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-400-415 V			
Rated current:	5.50-5.50-5.70 A			
Starting current:	440-460-470 %			
Cos phi - power factor:	0.85-0.82-0.77			
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:	79192007			
Others:	10102001			
	0.70			
Minimum efficiency index, MEI ≥:	0.70			
ErP status:	EuP Standalone/Prod.			



Company name: Created by: Phone:

		Date:	19/01/2021
Description	Value		
Net weight:	22.6 kg	-	
Gross weight:	25.1 kg		
Shipping volume:	0.021 m <sup>3</sup>		
Danish VVS No.:	388480011		
Finnish LVI No.:	4762693		

