Company name:
Created by:
Phone:

Date: 25/10/2024

Qty.	Description
1	**SP 14-20**

Note! Product picture may differ from actual product

Product No.: 98699360

Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance. This pump carries drinking water approval.

Further product details

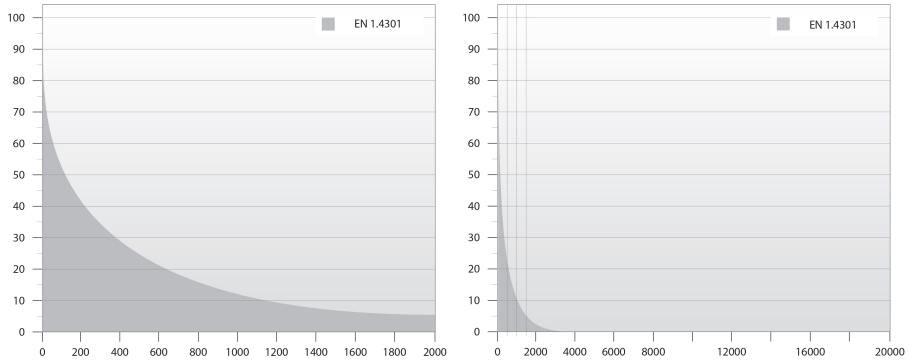
The pump is suitable for applications similar to the following:

- raw-water supply
- irrigation
- groundwater lowering
- pressure boosting
- fountain applications.

The Grundfos SP pump is renowned for its high efficiency and already complies with the requirements of the Minimum Efficiency Index, and therefore Grundfos is amongst the best in class within submersible pumps.

Pump

All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosion- and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).



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.

GRUNDFOS

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Qty.	Description
1	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.

Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-15 .. 40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	14 m³/h
Rated head:	87 m
Approvals:	CE,EAC,UKCA,SEPRO,MOROCCO
Approvals for motor:	CE,EAC,C_UL_US_NSF372MOROCCO,UKCA,SEPRO
Approvals for drinking water:	ACS,DM174
Curve tolerance:	ISO9906:2012 3B
Motor version:	T40
Return valve:	YES
Materials:	
Pump:	Stainless steel
	EN 1.4301
	AISI 304
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Motor:	Stainless steel
	EN 1.4301
Shaft seal:	HM/Ceramics
Installation:	
Maximum ambient pressure:	60 bar
Maximum operating pressure:	60 bar
Maximum outlet pressure:	12.4 bar
Type of connection:	Rp
Size of connection:	2 inch
Motor diameter:	4 inch
Minimum borehole diameter:	105 mm
Electrical data:	
Motor type:	MS4000
Motor flange design:	NEMA
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	13-13-13.4 A
Starting current:	470-500-510 %
Cos phi - power factor:	0.85-0.81-0.76
Rated speed:	2840-2860-2880 rpm

GRUNDFOS

Company name:
Created by:
Phone:

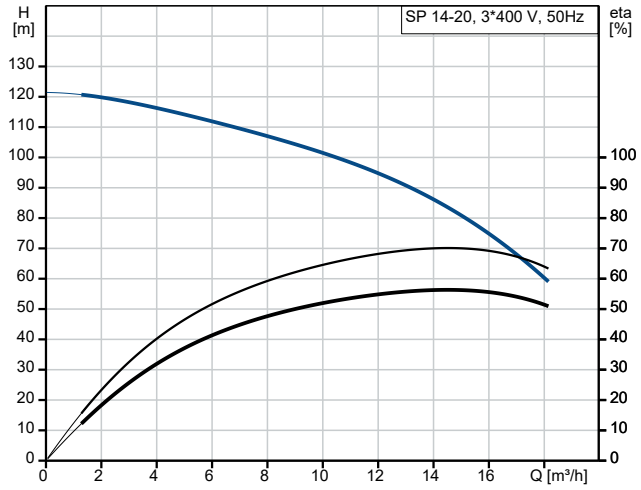
Date: 25/10/2024

Qty.	Description	
1	Method of start:	Direct-on-line (DOL)
	Enclosure class (IEC 34-5):	IP68
	Insulation class (IEC 85):	F
	Built-in motor protection:	NONE
	Thermal protection:	External
	Built-in temp. transmitter:	Yes
	Length of cable:	2.5 m
	Power cable type:	FLAT
	Motor No:	7C193511
	Windings:	Enameled
	Others:	
	Minimum efficiency index, MEI ≥:	0.50
	Net weight:	46 kg
	Gross weight:	81.2 kg
	Shipping volume:	0.295 m³
	Danish VVS No.:	388482020
	Finnish LVI No.:	4762712
	Environmental approvals:	WEEE

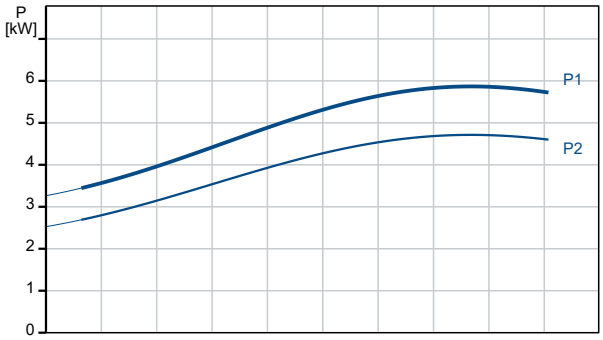
Company name:
Created by:
Phone:

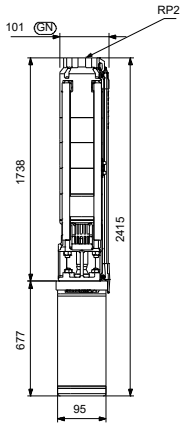
Date: 25/10/2024

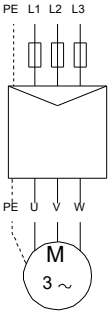
Description	Value
General information:	
Product name:	SP 14-20
Product No:	98699360
EAN number:	5712600112032
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	14 m³/h
Rated head:	87 m
Stages:	20
Number of reduced-diameter impellers:	NONE
Approvals:	CE,EAC,UKCA,SEPRO,MOROCCO
Approvals for motor:	CE,EAC,C_UL_US_NSF372MOROCCO,UKCA,SEPRO
Approvals for drinking water:	ACS,DM174
Curve tolerance:	ISO9906:2012 3B
Model:	B
Motor version:	T40
Return valve:	YES
Materials:	
Pump:	Stainless steel
Pump:	EN 1.4301
Pump:	AISI 304
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Motor:	Stainless steel
Motor:	EN 1.4301
Shaft seal:	HM/Ceramics
Installation:	
Maximum ambient pressure:	60 bar
Maximum operating pressure:	60 bar
Maximum outlet pressure:	12.4 bar
Type of connection:	Rp
Size of connection:	2 inch
Motor diameter:	4 inch
Minimum borehole diameter:	105 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-15 .. 40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS4000
Motor flange design:	NEMA
Rated power - P2:	5.5 kW
Power (P2) required by pump:	5.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	13-13-13.4 A
Starting current:	470-500-510 %
Cos phi - power factor:	0.85-0.81-0.76
Rated speed:	2840-2860-2880 rpm
Method of start:	Direct-on-line (DOL)
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Built-in motor protection:	NONE



Pumped liquid = Water
Liquid temperature during operation = 20 °C
Density = 998.2 kg/m³







GRUNDFOS

Company name:
Created by:
Phone:

Date: 25/10/2024

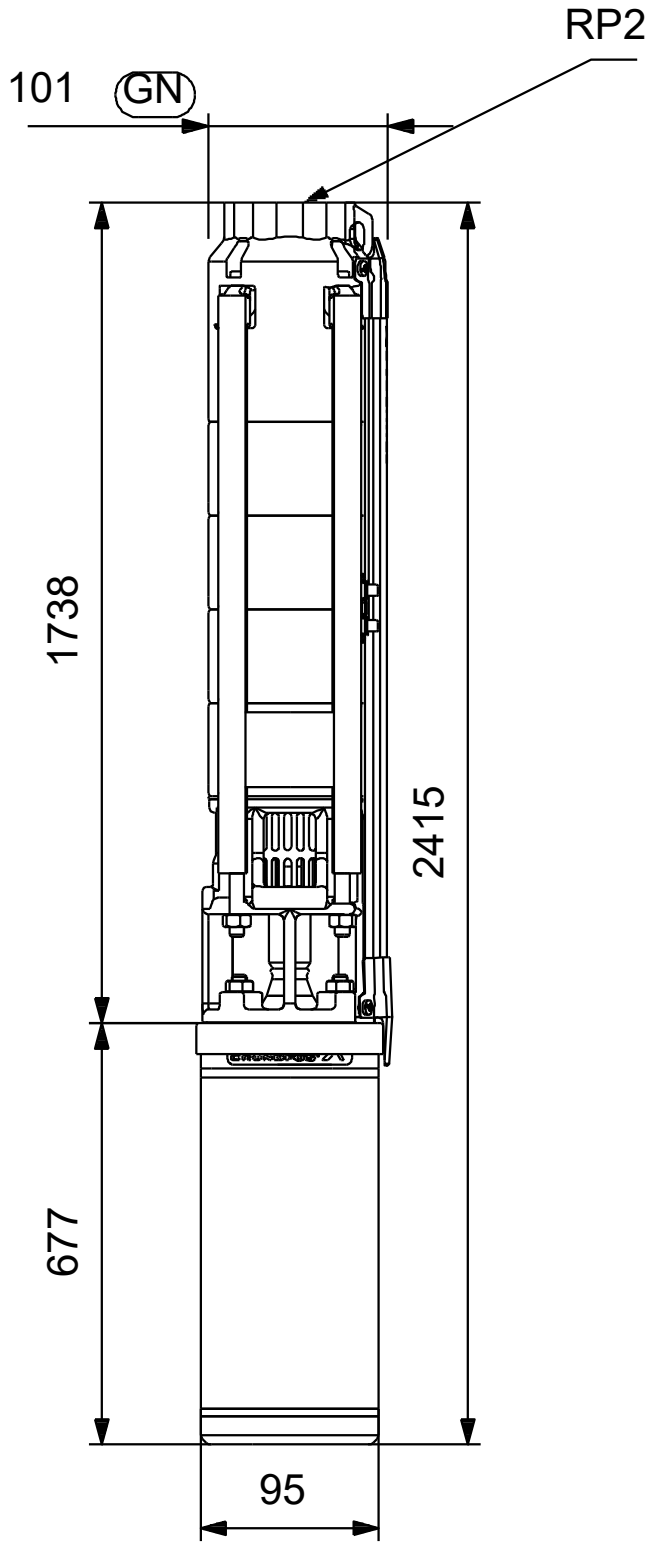
Description	Value
Thermal protection:	External
Built-in temp. transmitter:	Yes
Length of cable:	2.5 m
Power cable type:	FLAT
Motor No:	7C193511
Cable number:	99410222
Windings:	Enameled
Others:	
Minimum efficiency index, MEI ≥:	0.50
Net weight:	46 kg
Gross weight:	81.2 kg
Shipping volume:	0.295 m^3
Danish VVS No.:	388482020
Finnish LVI No.:	4762712
Environmental approvals:	WEEE

GRUNDFOS

Company name:
Created by:
Phone:

Date: 25/10/2024

98699360 SP 14-20 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.