

Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:
REPRESENTATIVE: _____	TYPE OF SERVICE:	DATE: _____
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:
	ORDER NO.:	DATE:

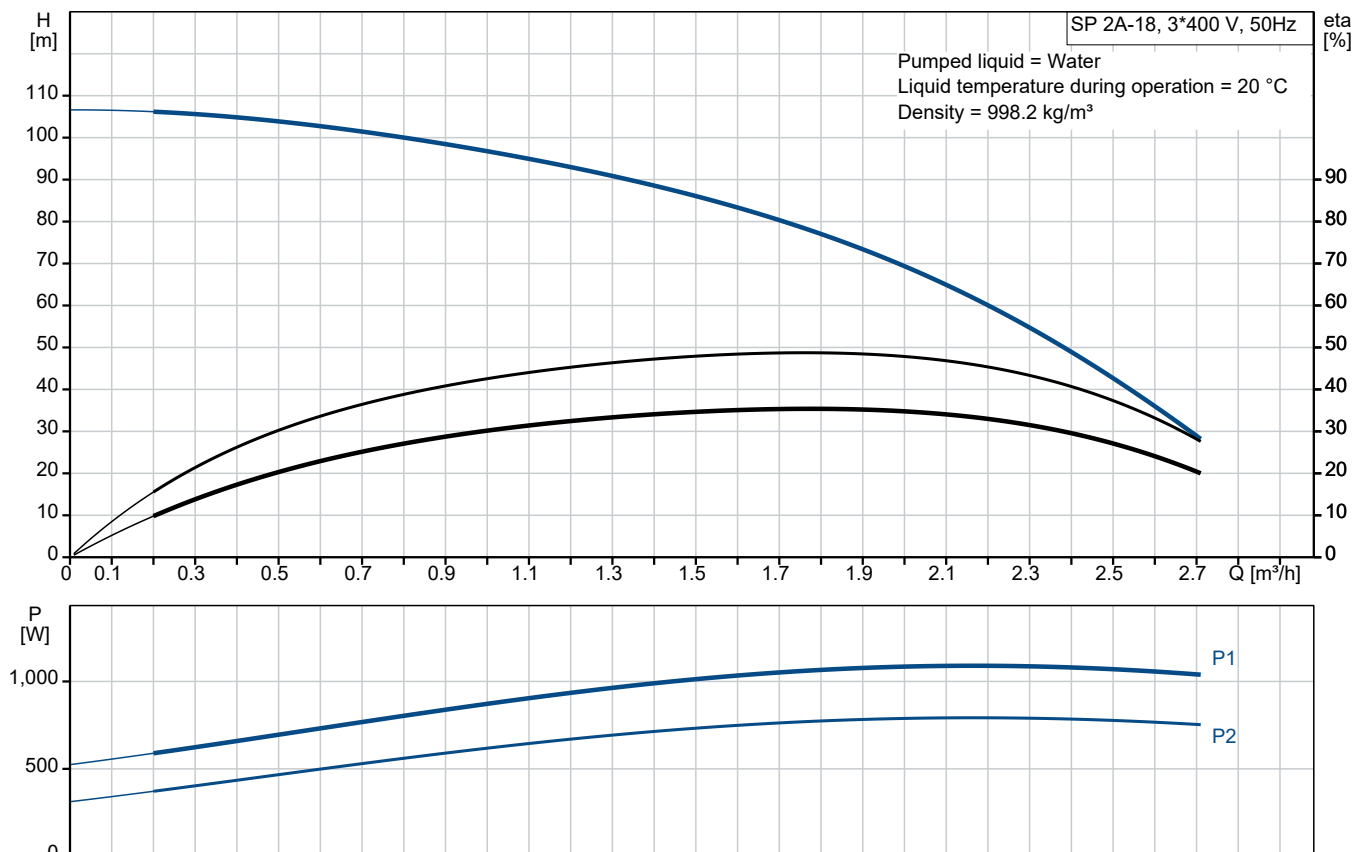


SP 2A-18

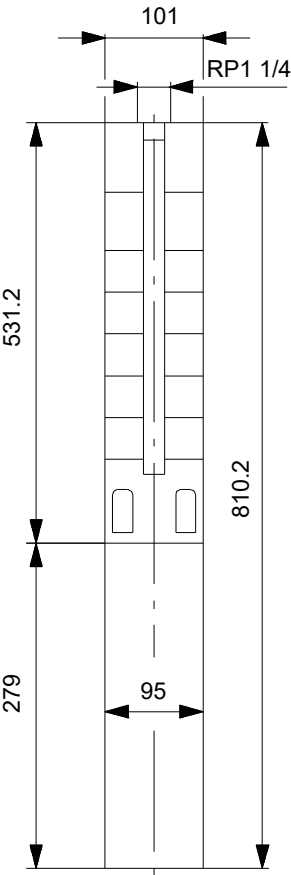
Grundfos SP are submersible borehole pumps, designed for pumping groundwater. Grundfos SP are all stainless-steel pumps, and they are available in 3 material grades. The pumps are suitable for boreholes in sizes ranging from 4" over 6" and 8" to 10". The motor sizes for the pumps are available in 0.37-250 kW.

Note! Product picture may differ from actual product

Conditions of Service	Pump Data	Motor Data
Liquid: Water	Liquid temperature range: -15 .. 40 °C	Rated power - P2: 0.75 kW
Temperature: 20 °C	Product number: On request	Rated voltage: 380-400-415 V
Specific Gravity: 1.000		Mains frequency: 50 Hz
		Enclosure class: IP68
		Insulation class: B
		Motor protection: NONE
		Thermal protection: EXT.
		Motor type: MS402



Submittal Data



- Materials:**
- Impeller: Stainless steel
 - Impeller: AISI 304
 - Impeller: EN 1.4301
 - Motor: Stainless steel
 - Motor: DIN W.-Nr. 1.4301
 - Motor: AISI 304

Qty. Description

1 SP 2A-18



Note! Product picture may differ from actual product

Product No.: On request

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.

The pump is fitted with a 0.75 kW MS402 motor with sand shield, lip seal, water-lubricated journal bearings and a volume compensating diaphragm. The motor is a canned type submersible motor offering good mechanical 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 can be fitted.

The motor is for direct-on-line starting (DOL).

Further product details

The pump is suitable for applications similar to the following:

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

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 are made of NBR (Nitrile-Butadiene Rubber) and TPU (Thermoplastic Poly-Urethane) which offers good wear resistance and long service intervals.

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.

Qty.	Description
1	<p>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.</p> <p>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.</p> <p>Liquid: Pumped liquid: Water Liquid temperature range: -15 .. 40 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³</p> <p>Technical: Pump speed on which pump data are based: 2900 rpm Rated flow: 2 m³/h Rated head: 72 m Shaft seal for motor: LIPSEAL Approvals: CE,EAC,UKCA,SEPRO,MOROCCO Approvals for drinking water: ACS,DM174 Curve tolerance: ISO9906:2012 3B Motor version: T40 Return valve: YES Specification for shaft end: SPLINE</p> <p>Materials: Pump: Stainless steel EN 1.4301 AISI 304 Impeller: Stainless steel EN 1.4301 AISI 304 Motor: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Installation: Maximum ambient pressure: 15 bar Maximum operating pressure: 15 bar Maximum outlet pressure: 10.8 bar Type of connection: Rp Size of connection: 1 1/4 inch Motor diameter: 4 inch Minimum borehole diameter: 105 mm</p> <p>Electrical data: Motor type: MS402 Motor flange design: Grundfos Rated power - P2: 0.75 kW Power (P2) required by pump: 0.75 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V 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: DOL Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): B</p>



Company name:

Created by:

Phone:

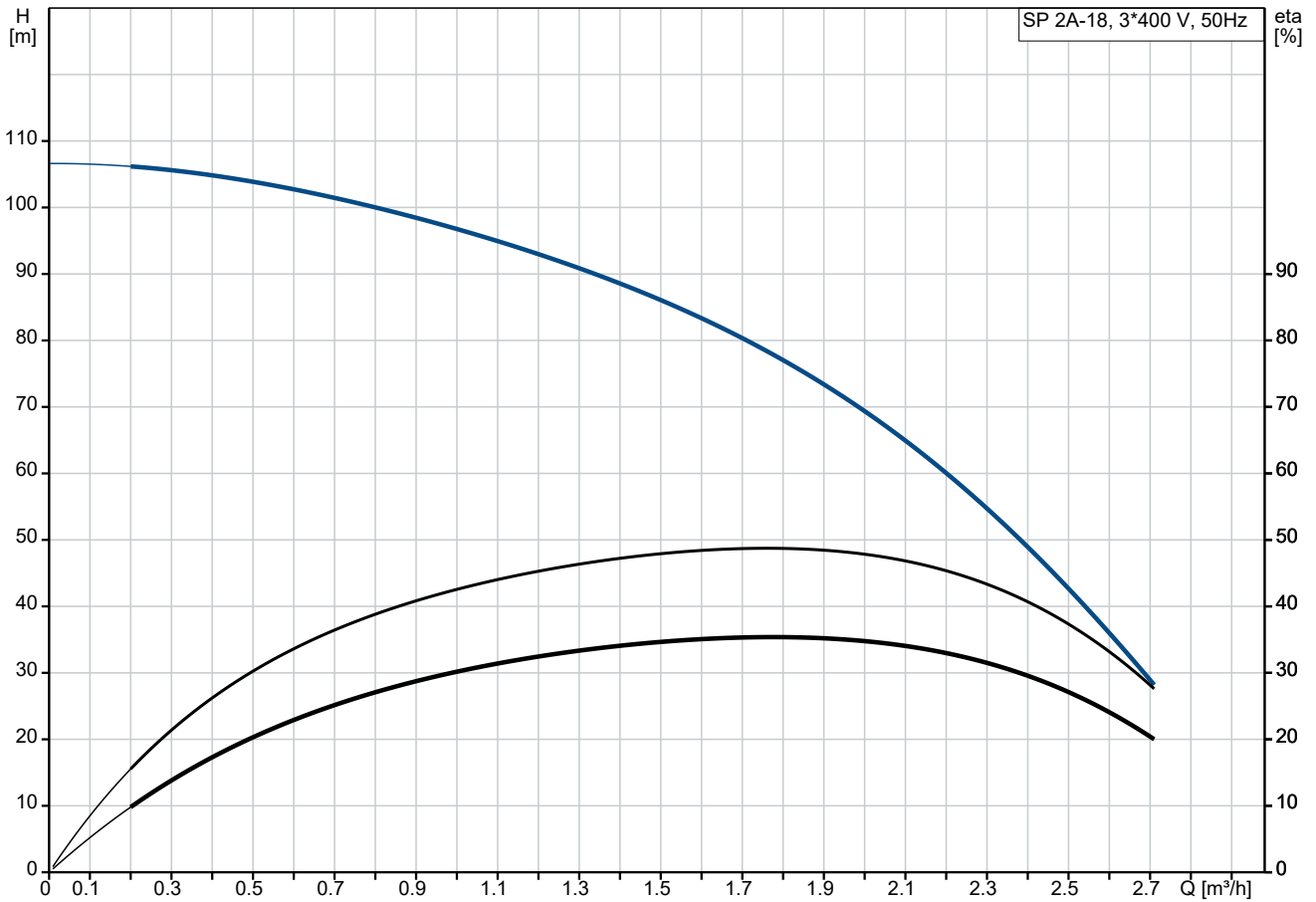
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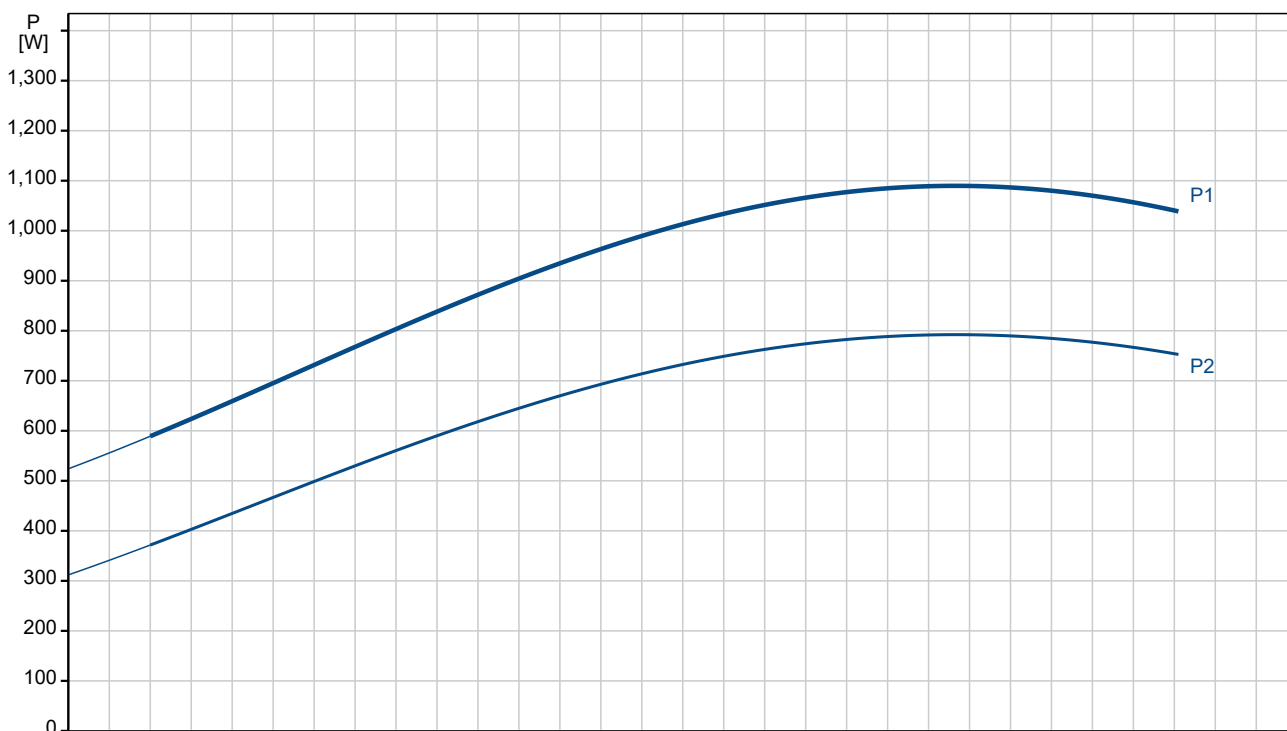
Qty. Description

1	Built-in temp. transmitter:	N
	Length of cable:	1.7 m
	Power cable type:	FLAT
	Motor No:	79192004
	Windings:	Enamelled
	Others:	
	Minimum efficiency index, MEI \geq :	0.70
	Net weight:	14 kg
	Gross weight:	15.4 kg
	Shipping volume:	0.016 m ³
	Danish VVS No.:	388312180
	Swedish RSK No.:	5852896
	Finnish LVI No.:	4762516
	Norwegian NRF no.:	9040814
	Country of origin:	DK
	Custom tariff no.:	84137029
	Environmental approvals:	WEEE

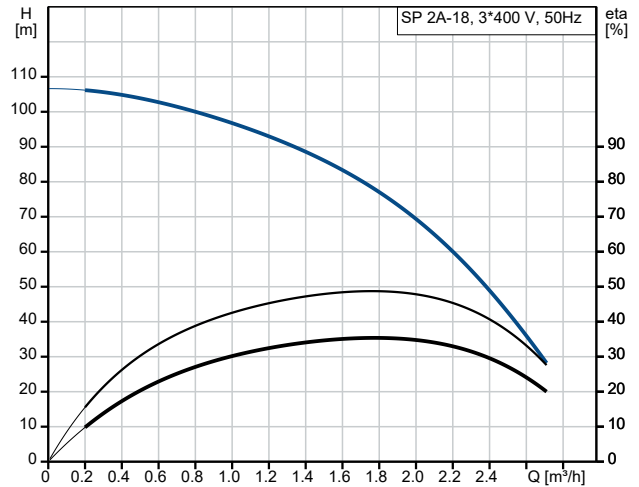
On request SP 2A-18 50 Hz



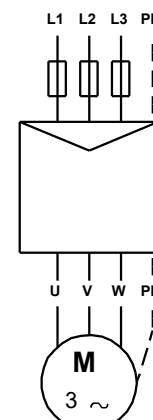
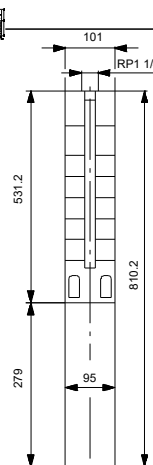
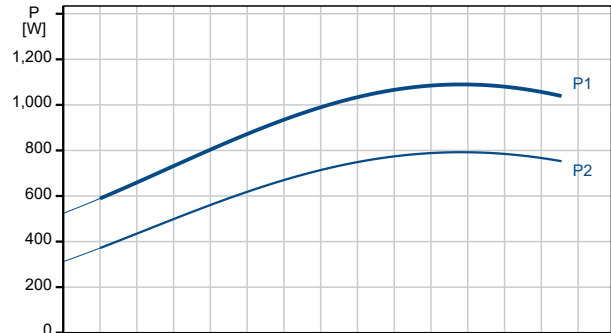
Pumped liquid = Water
 Liquid temperature during operation = 20 °C
 Density = 998.2 kg/m³



Description	Value
General information:	
Product name:	SP 2A-18
Product No:	On request
EAN number:	On request
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	2 m ³ /h
Rated head:	72 m
Stages:	18
Number of reduced-diameter impellers:	NONE
Shaft seal for motor:	LIPSEAL
Approvals:	CE, EAC, UKCA, SEPRO, MOR OCCO
Approvals for drinking water:	ACS, DM174
Curve tolerance:	ISO9906:2012 3B
Pump No:	09000018
Model:	A
Motor version:	T40
Return valve:	YES
Specification for shaft end:	SPLINE
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:	DIN W.-Nr. 1.4301
Motor:	AISI 304
Installation:	
Maximum ambient pressure:	15 bar
Maximum operating pressure:	15 bar
Maximum outlet pressure:	10.8 bar
Type of connection:	Rp
Size of connection:	1 1/4 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/m ³
Electrical data:	
Motor type:	MS402
Motor flange design:	Grundfos
Rated power - P2:	0.75 kW
Power (P2) required by pump:	0.75 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
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:	DOL
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	B



Pumped liquid = Water
 Liquid temperature during operation = 20 °C
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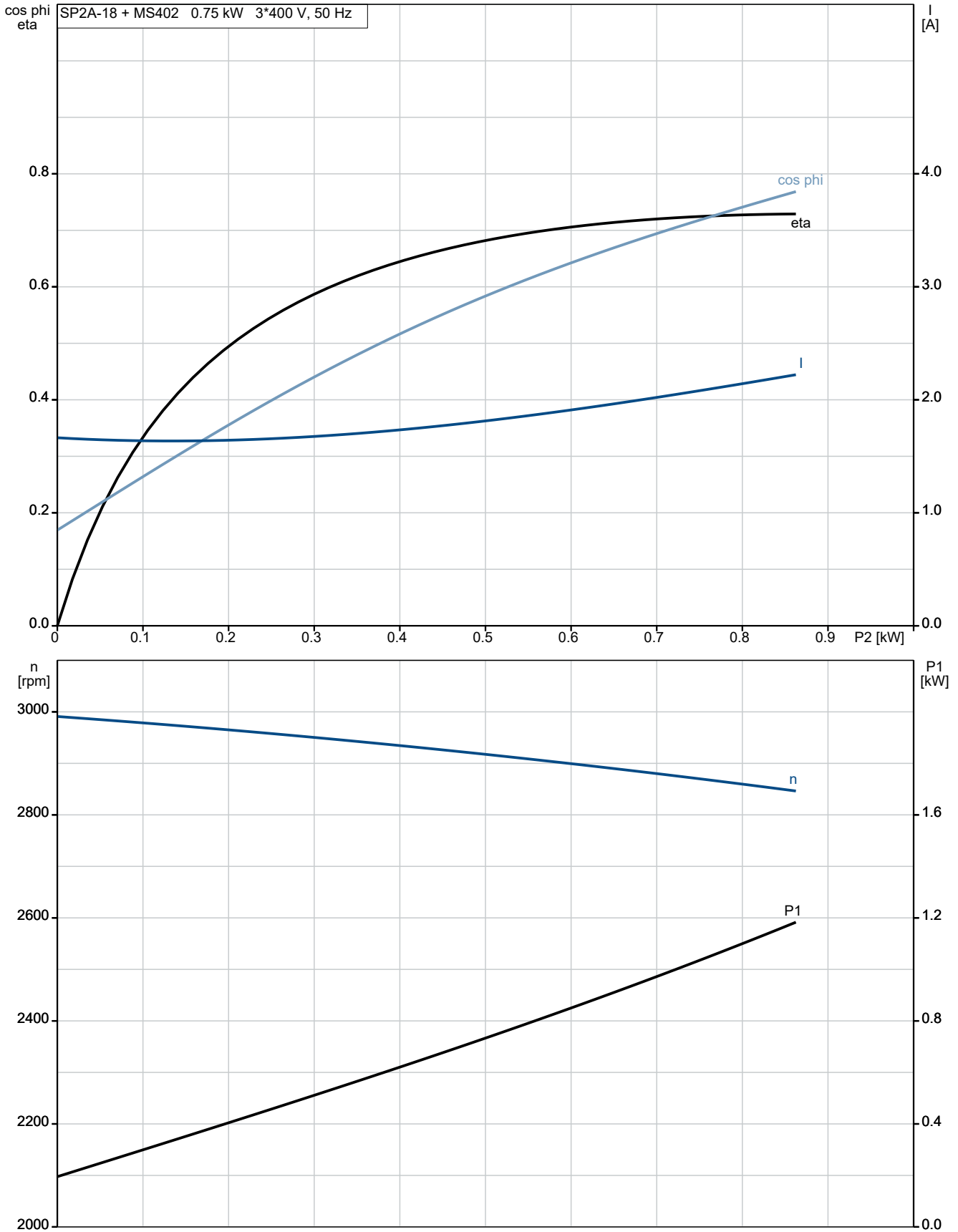
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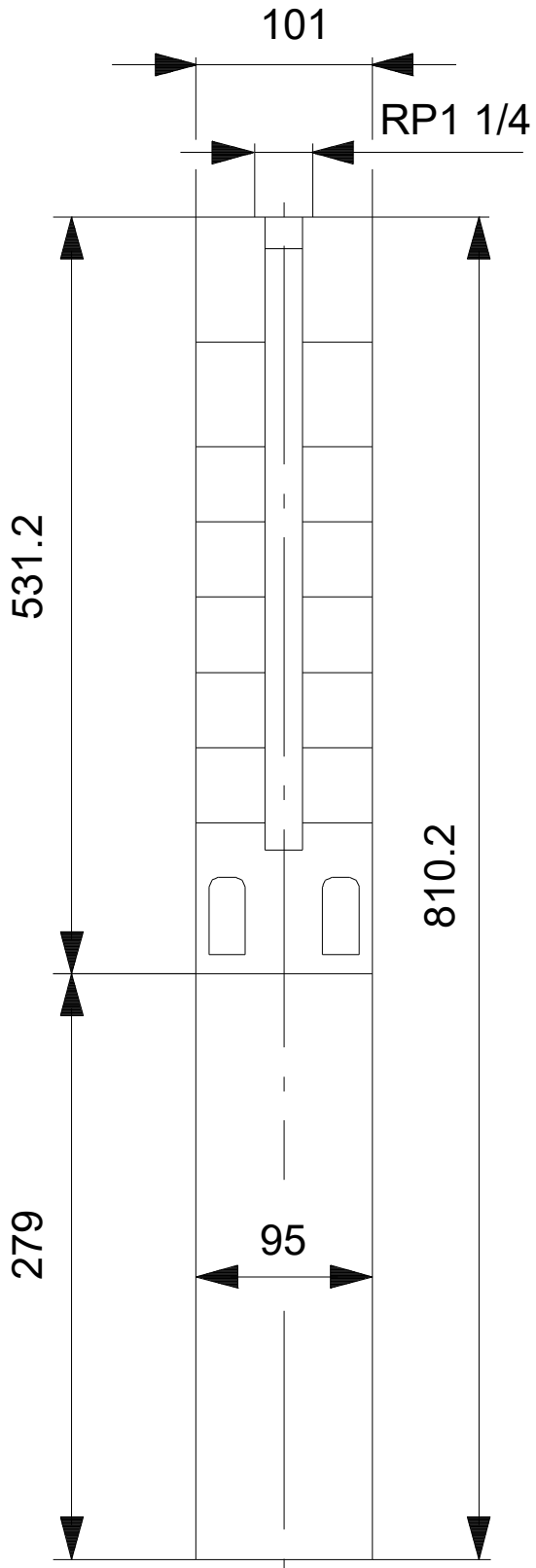
22/10/2024

Description	Value
Built-in motor protection:	NONE
Thermal protec:	EXT.
Built-in temp. transmitter:	N
Length of cable:	1.7 m
Power cable type:	FLAT
Motor No:	79192004
Cable number:	795712
Windings:	Enamelled
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	14 kg
Gross weight:	15.4 kg
Shipping volume:	0.016 m ³
Danish VVS No.:	388312180
Swedish RSK No.:	5852896
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Norwegian NRF no.:	9040814
Country of origin:	DK
Custom tariff no.:	84137029
Environmental approvals:	WEEE

On request SP 2A-18 50 Hz



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

On request SP 2A-18 50 Hz



Note! All units are in [mm] unless others are stated.

