

Qty. Description

1 SP 95-5-AB



Note! Product picture may differ from actual product

Product No.: [190019E5](#)

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 18.5 kW MS6000 motor with sand shield, mechanical shaft 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 fitted with the Grundfos Tempcon sensor that, by use of powerline communication together with a MP204 control panel, enables temperature monitoring.

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

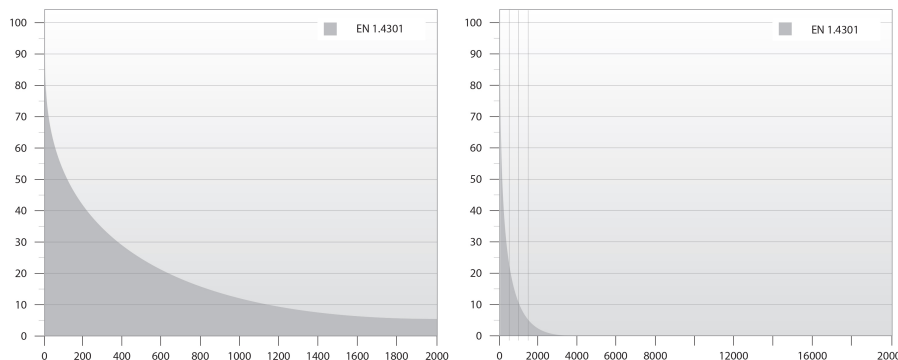
Further product details

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) 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.

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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 faces are ceramic/carbon. The material combination provides good dry-running resistance. 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 is fitted with the Grundfos Tempcon temperature sensor device that includes a NTC-resistor which senses the temperature.

The resistor is built-in close to the winding.

The temperature is converted into a high-frequency signal which is sent via the submersible drop cable and which can be converted into a temperature reading by means of Grundfos MP204.

The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



Liquid:

Pumped liquid: Water
 Liquid temperature range: -15 .. 40 °C
 Max liquid t at 0.15 m/sec: 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: 95 m³/h
 Rated head: 51 m
 Shaft seal for motor: CER/CARNBR
 Approvals on nameplate: CE,GOST2
 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
 DIN W.-Nr. 1.4301
 AISI 304

Installation:

Maximum operating pressure: 60 bar
 Maximum permissible outlet pressure: 9.6 bar
 Pump outlet: RP5
 Motor diameter: 6 inch
 Minimum borehole diameter: 188 mm

Qty.	Description
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1	Electrical data: Motor type: MS6000 Motor flange design: GRUNDFOS Rated power - P2: 18.5 kW Power (P2) required by pump: 18.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 42.0-41.0-41.5 A Starting current: 510-560-580 % Cos phi - power factor: 0.85-0.82-0.79 Rated speed: 2860-2880-2890 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Built-in temp. transmitter: yes Length of cable: 5 m Cable type: FLAT Motor No: 78195517 Windings: Enamelled Others: Minimum efficiency index, MEI ≥: -- ErP status: EuP Standalone/Prod. Net weight: 101 kg Gross weight: 131 kg Shipping volume: 0.232 m ³
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Company name:

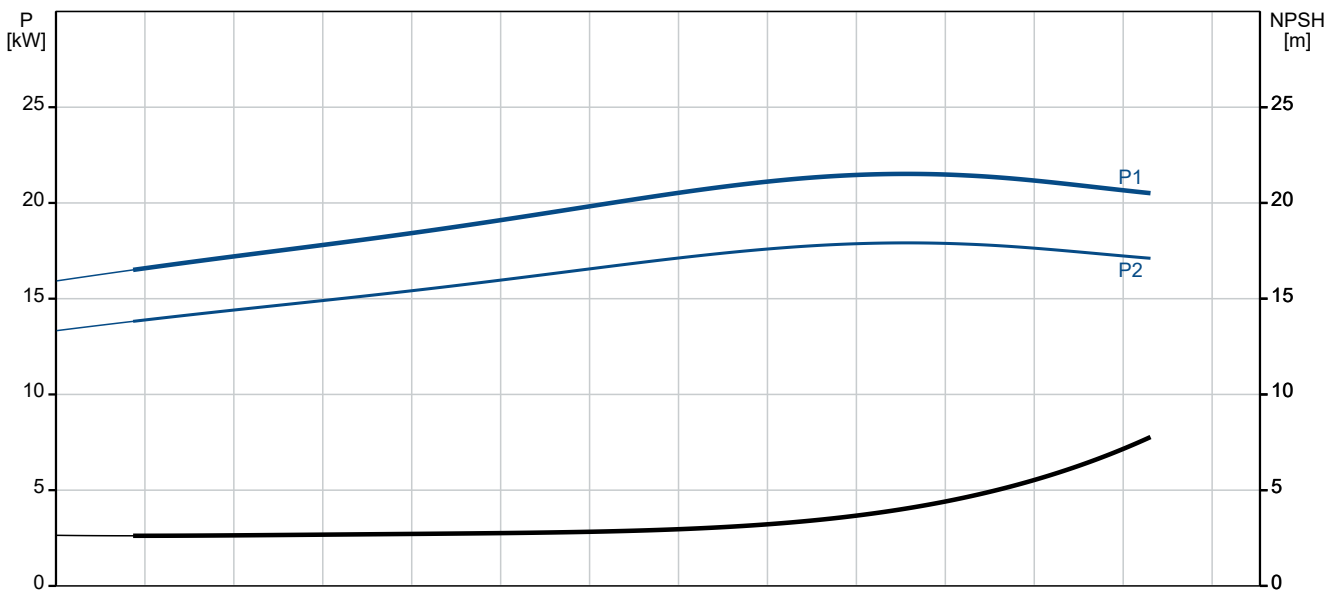
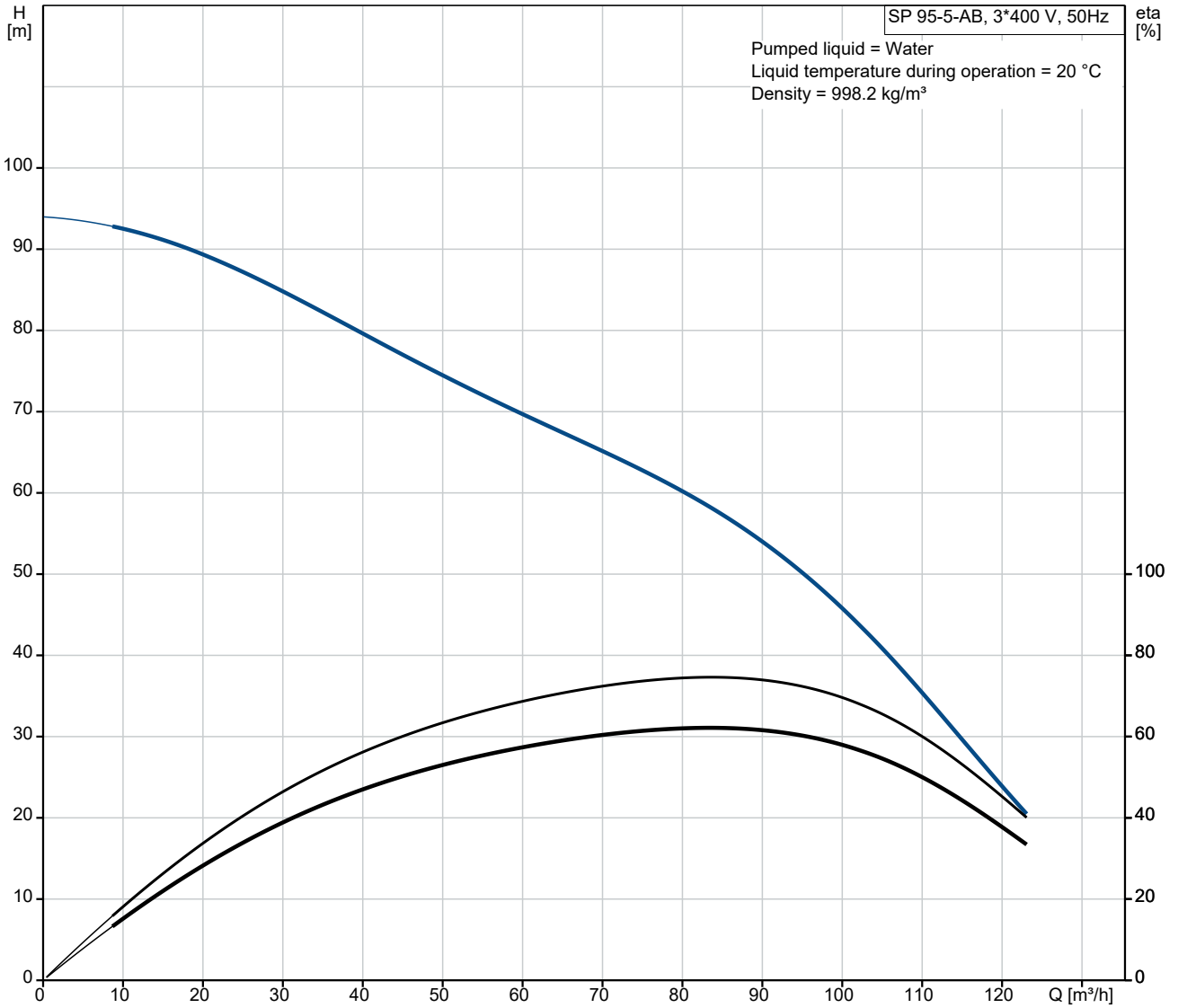
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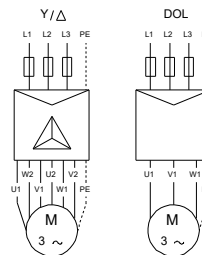
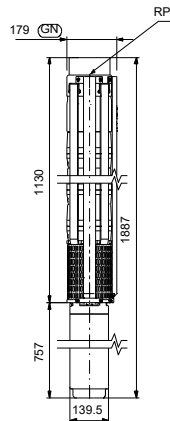
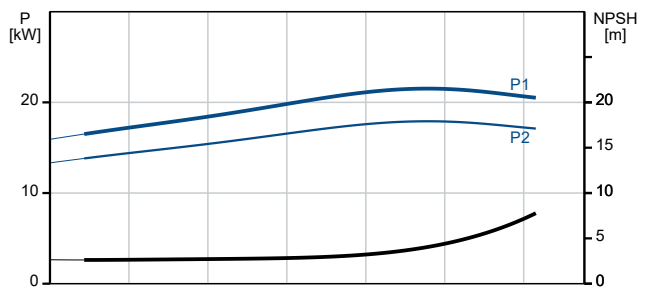
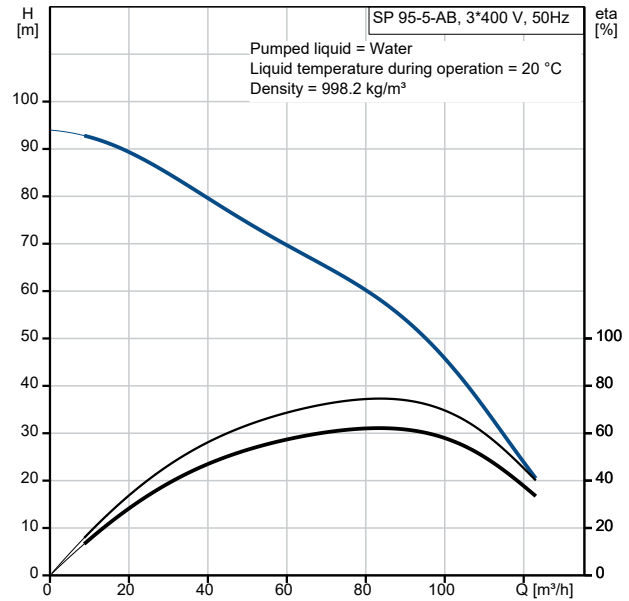
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190019E5 SP 95-5-AB 50 Hz



Description	Value
General information:	
Product name:	SP 95-5-AB
Product No:	190019E5
EAN number:	5700393936775
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	95 m ³ /h
Rated head:	51 m
Number of stages:	5
Number of reduced-diameter impellers:	AB
Shaft seal for motor:	CER/CARNBR
Approvals on nameplate:	CE, GOST2
Curve tolerance:	ISO9906:2012 3B
The first model is called A which is followed by model B, C etc.:	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:	DIN W.-Nr. 1.4301
Motor:	AISI 304
Installation:	
Maximum operating pressure:	60 bar
Maximum permissible outlet pressure:	9.6 bar
Pump outlet:	RP5
Motor diameter:	6 inch
Minimum borehole diameter:	188 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-15 .. 40 °C
Max liquid t at 0.15 m/sec:	40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m ³
Electrical data:	
Motor type:	MS6000
Motor flange design:	GRUNDFOS
Rated power - P2:	18.5 kW
Power (P2) required by pump:	18.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	42.0-41.0-41.5 A
Starting current:	510-560-580 %
Cos phi - power factor:	0.85-0.82-0.79
Rated speed:	2860-2880-2890 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Thermal protec:	external
Built-in temp. transmitter:	yes
Length of cable:	5 m
Cable type:	FLAT



U1, W2	Brown
V1, U2	Black
W1, V2	Grey



Company name:

Created by:

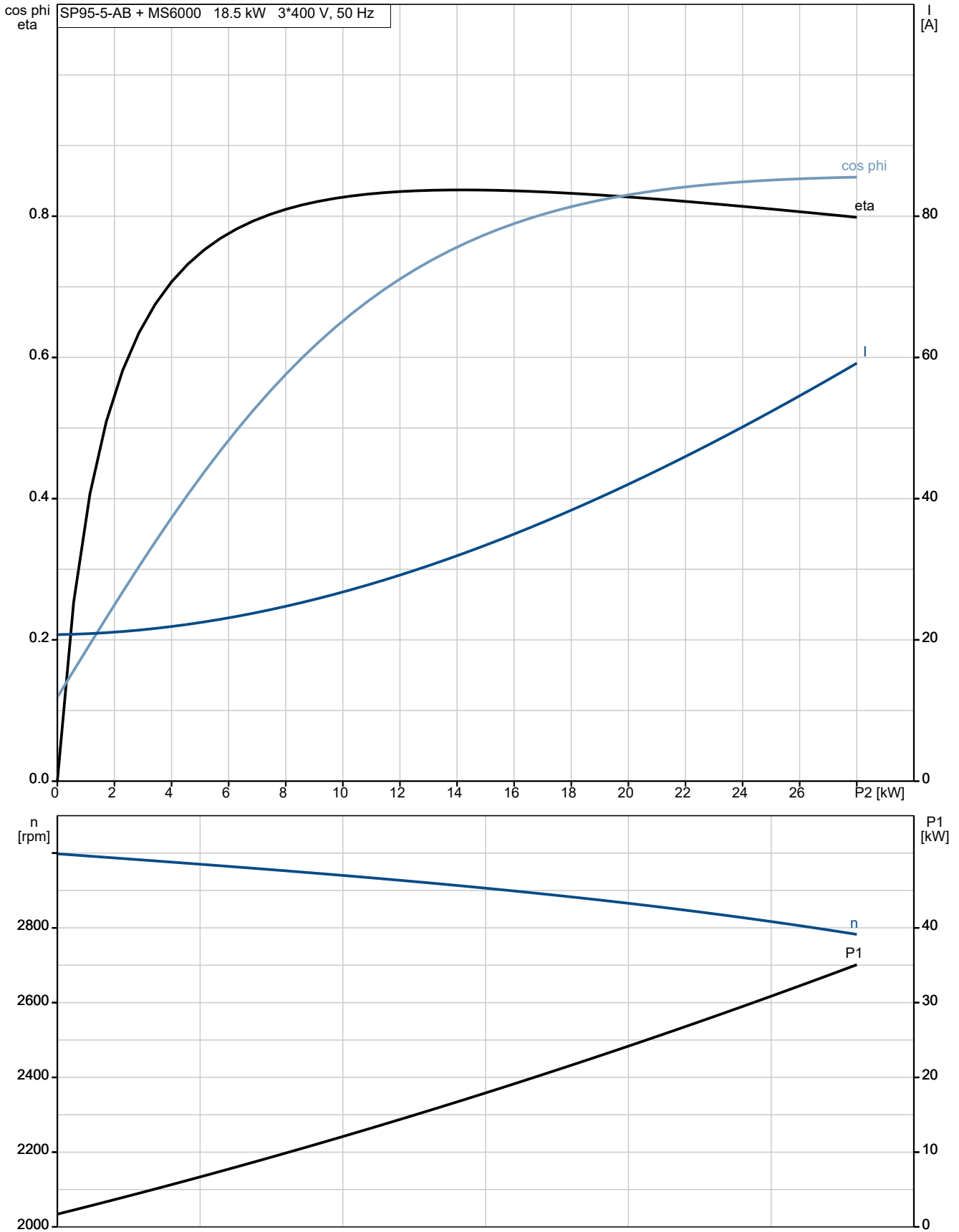
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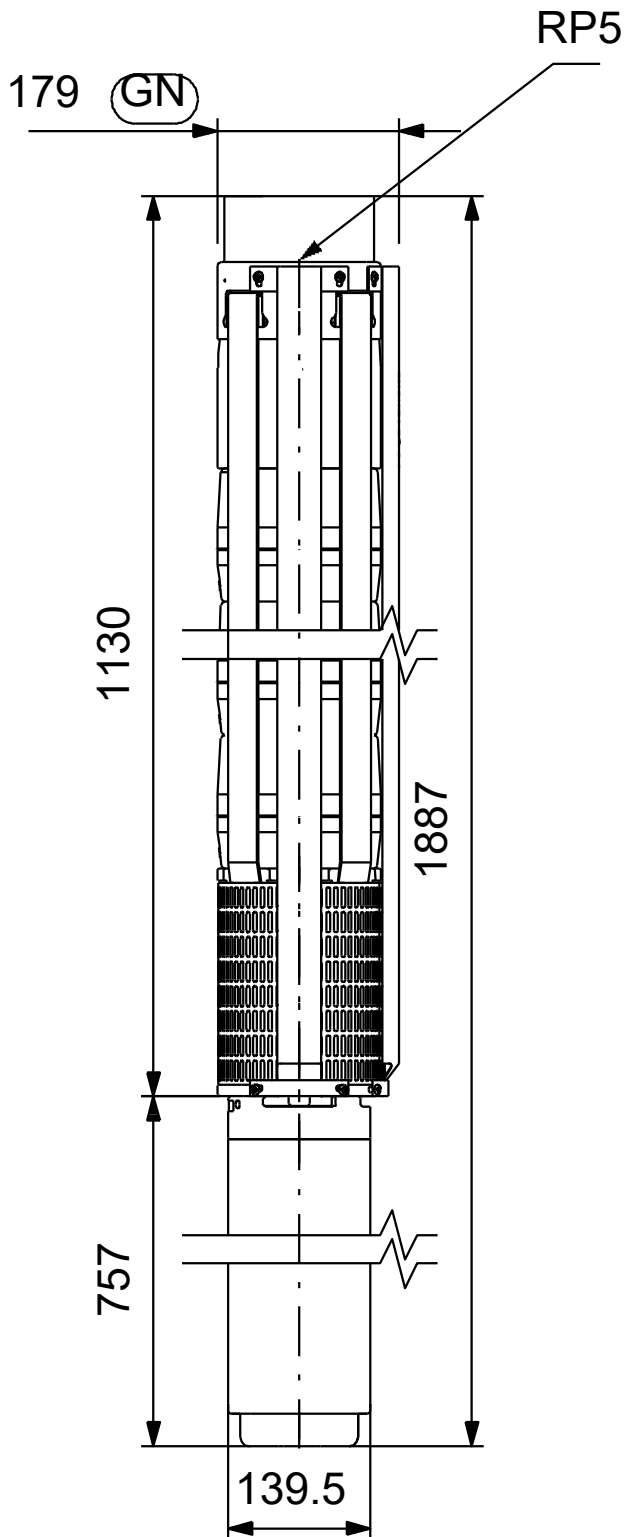
07/11/2022

Description	Value
Motor No:	78195517
Windings:	Enamelled
Others:	
Minimum efficiency index, MEI ≥:	---
ErP status:	EuP Standalone/Prod.
Net weight:	101 kg
Gross weight:	131 kg
Shipping volume:	0.232 m ³

190019E5 SP 95-5-AB 50 Hz



190019E5 SP 95-5-AB 50 Hz



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

190019E5 SP 95-5-AB 50 Hz



U1, W2	Brown
V1, U2	Black
W1, V2	Grey

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



Company name:
Created by:
Phone:

Date: 07/11/2022

Order Data:

Position	Your pos.	Product name	Amount	Product No	Total
		SP 95-5-AB	1	190019E5	Price on request