

SP5A-85 7,5KW380-415V50HZ /1

Grundfos pump 5301985



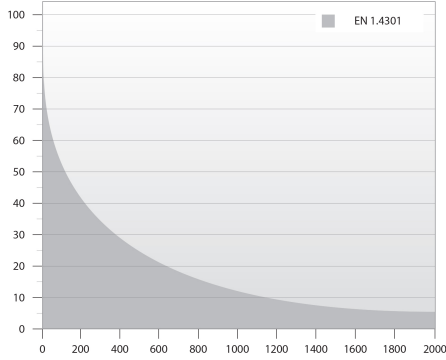
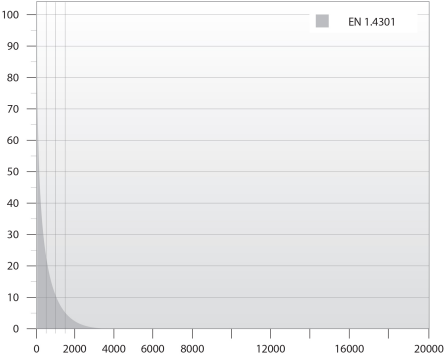
Thank you for your interest in our products. Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SPFAM/5301985/SP-5A-85.html>

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Position	Qty.	Description
	1	SP 5A-85  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 7.5 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. 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 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.

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
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m ³

Technical:

Rated flow:	5 m ³ /h
Rated head:	348 m
Shaft seal for motor:	CER/CARNBR
Approvals on nameplate:	CE,GOST2
Curve tolerance:	ISO9906:2012 3B
Motor version:	T40

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:

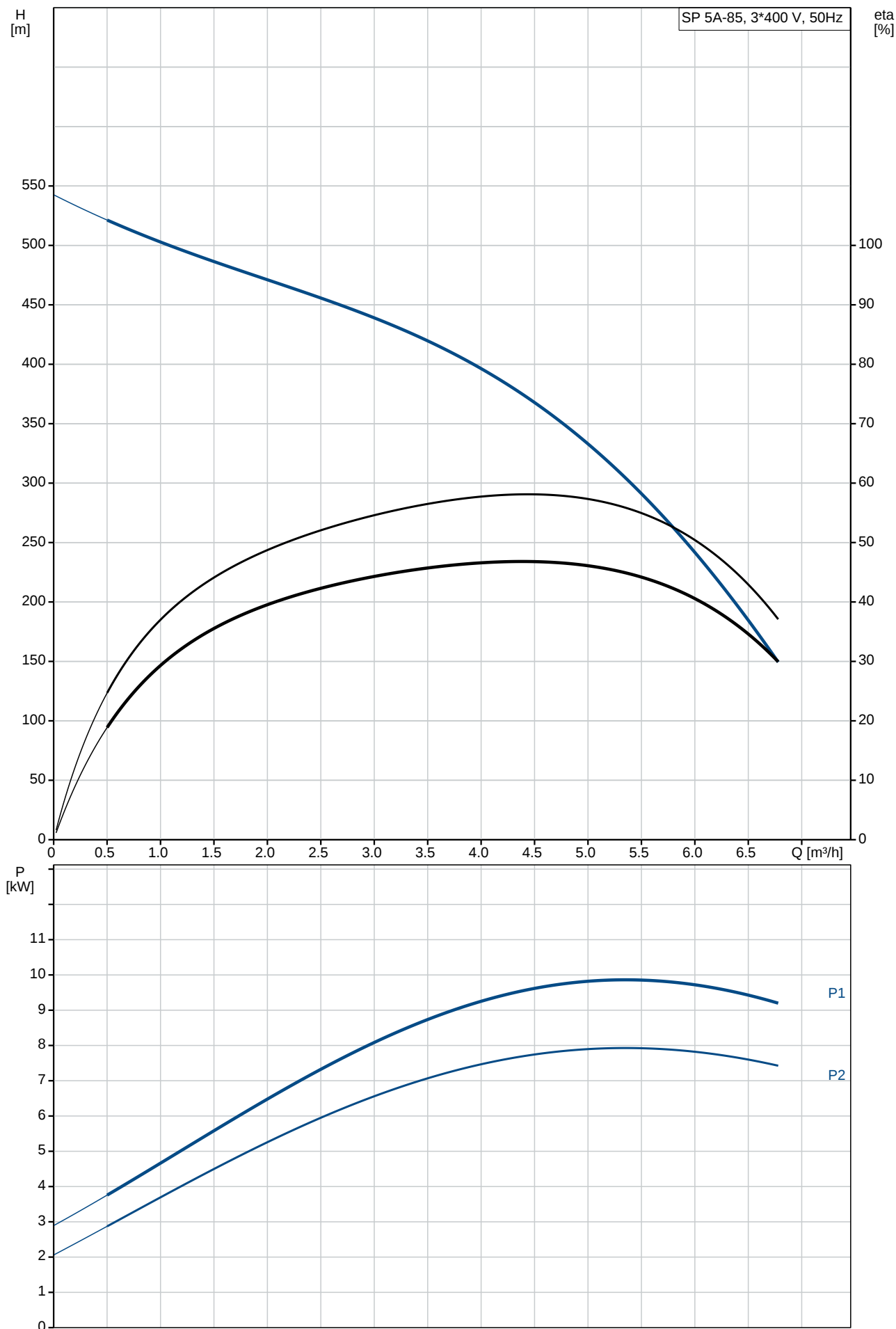
Pump outlet:	R1 1/2
Motor diameter:	6 inch

Electrical data:

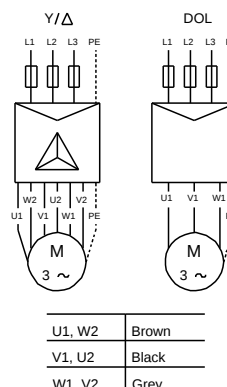
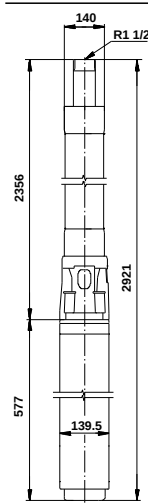
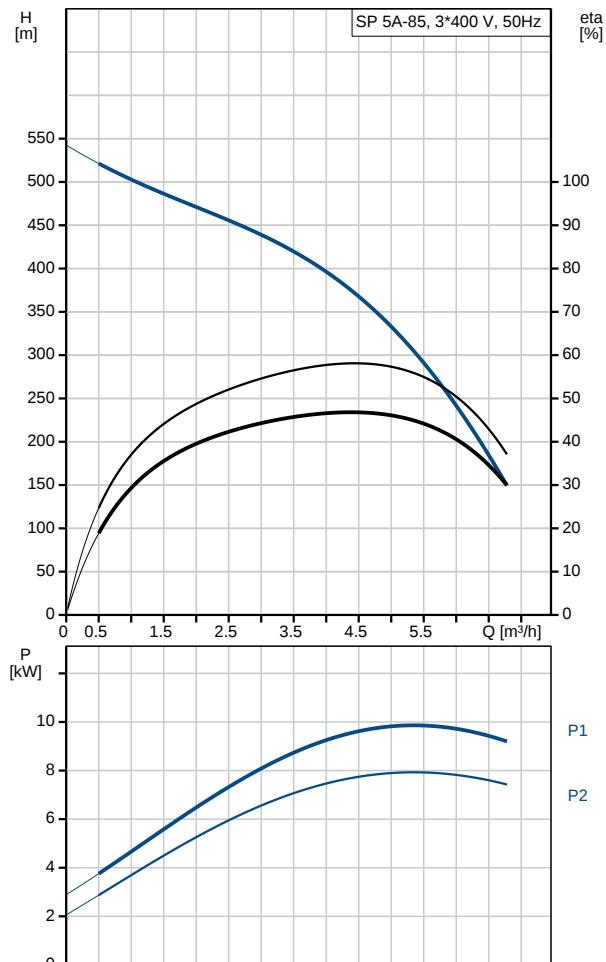
Motor type:	MS6000
Rated power - P2:	7.5 kW
Power (P2) required by pump:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	17.8-17.2-17.2 A

Position	Qty.	Description
		Starting current: 460-510-530 % Cos phi - power factor: 0.84-0.82-0.79 Rated speed: 2850-2870-2880 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F Built-in temp. transmitter: yes Others: Minimum efficiency index, MEI ≥: 0.50 ErP status: EuP Standalone/Prod. Net weight: 91.8 kg Gross weight: 122 kg Shipping volume: 1520 m³

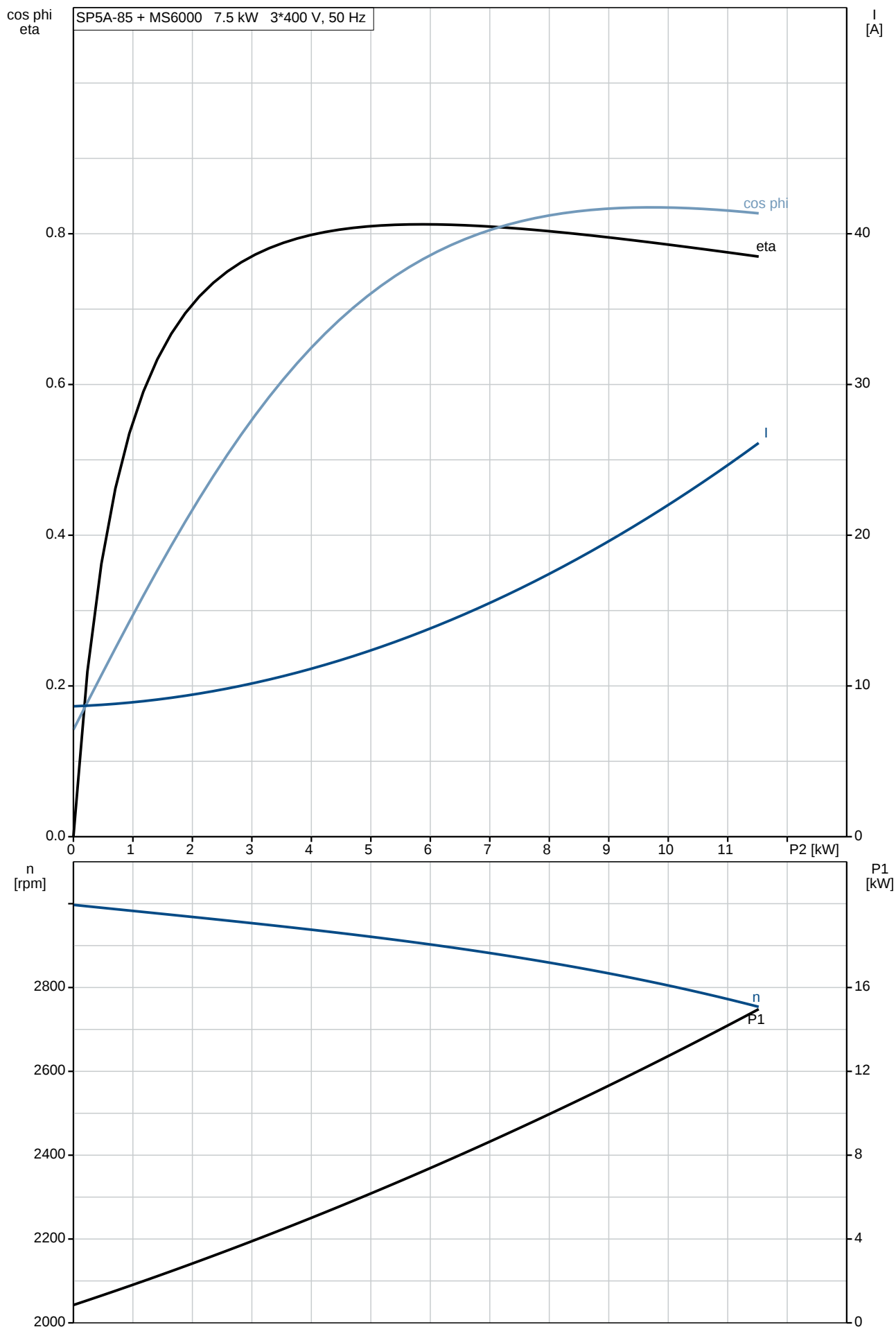
On request SP 5A-85 50 Hz



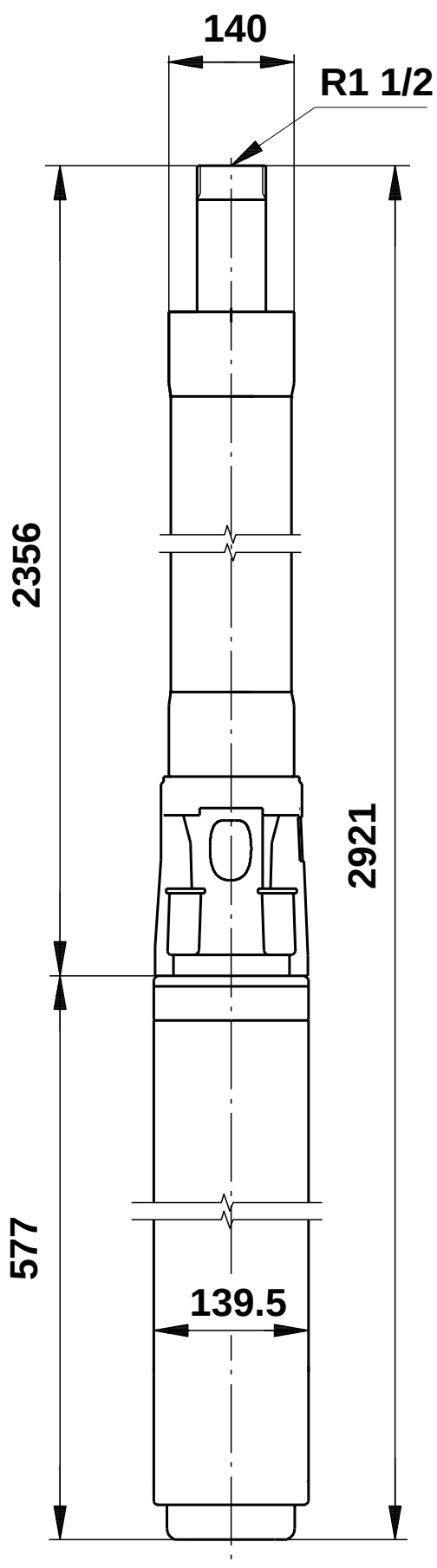
Description	Value
General information:	
Product name:	SP 5A-85
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	5 m³/h
Rated head:	348 m
Stages:	85
Impeller reduc.:	NONE
Shaft seal for motor:	CER/CARNBR
Approvals on nameplate:	CE,GOST2
Curve tolerance:	ISO9906:2012 3B
Model:	A
Valve:	YES
Motor version:	T40
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:	
Pump outlet:	R1 1/2
Motor diameter:	6 inch
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS6000
Applic. motor:	GRUNDFOS
Rated power - P2:	7.5 kW
Power (P2) required by pump:	7.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	17.8-17.2-17.2 A
Starting current:	460-510-530 %
Cos phi - power factor:	0.84-0.82-0.79
Rated speed:	2850-2870-2880 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:	yes
Motor No:	78195512
Others:	
Minimum efficiency index, MEI ≥:	0.50
ErP status:	EuP Standalone/Prod.
Net weight:	91.8 kg
Gross weight:	122 kg
Shipping volume:	1520 m³



On request SP 5A-85 50 Hz



On request SP 5A-85 50 Hz



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

Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SP 5A-85, Product No. On request
Valid from 7.12.2011 (1149)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Pump w/o motor				1	pcs
-	Chamber cpl.				85	
7	Neck ring				1	
9	Chamber				1	
	Stop ring				3	
-	Impeller cpl.				85	
	Impeller				1	
- 11	Split cone nut				1	
	Split cone nut					
11a	O-ring		Diameter: 15,00			
			Material type: NBR			
			Thickness: 70SHOR			
12	Split cone				1	
	Retainer				1	
- 1	Casing				1	
- 1	Valve casing cpl.				1	
	Valve casing					
6	Bearing					
6	Bearing				1	
7a	Pan head screw				2	
- 10	Chamber				1	
7	Neck ring				1	
14	Suction interconnector				1	
14a	Suction interconnector				1	
15	Strainer				1	
16	Pump shaft		Length (mm): 2080		1	
17	Strap		Length (mm): 1901		4	
			Thread: M8			
18	Cable guard cpl.				1	
18a	Slot cheese head screw				6	
19	Nut				8	
22	Staybolt		Thread: M8 X M8		4	
23	Rubber guard				1	
78	Nameplate				1	
78a	Rivet				2	
100	Clamping flange				1	
101	Clamping flange				1	
102	Sleeve cpl.				1	
103	Hex socket head cap screw				12	
105	Eyebolt				2	
105.a	Nut		Thread: M8		2	
-	Motor				1	pcs
	Stator cpl.				1	
1a	Plug				1	
2	Shaft w/rotor				1	
2	Shaft w/rotor				1	
2a	Stop ring				1	
3	Thrust ring support cpl.				1	
4	Radial bearing				1	
5	Bearing retainer cpl.				1	
6	Thrust bearing				1	
7	Clamping flange				1	
7.a	Clamping flange				1	
12	Diaphragm				1	
13	Bottom cover				1	
22	Socket head cap screw				4	
22a	Slot pan head screw				1	
25a	Screw				1	
27	Sand shield				1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
32	Shaft seal cpl.				1	
34	Shaft seal, rotating part				1	
41	Hex socket head cap screw				4	
42	Stop for bearing				2	
- 45	Mounting rail				1	
10	Thrust cover				1	
10a	Washer				1	
11	Adjusting screw				1	
47	Hex socket head cap screw				1	
46	Hex socket head cap screw				1	
48	Cross recess Pan head screw				4	
49	Lock ring				1	
51	Compression spring				1	
220	Motor cable		Length (M): 5M		1	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.

Data may be subject to alterations without further notice.

Please contact us to verify the data above is still accurate/up-to-date.

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