

SP95- 4 Gr5 6"3X380-415/50 18.5kW

Grundfos pump 19041904



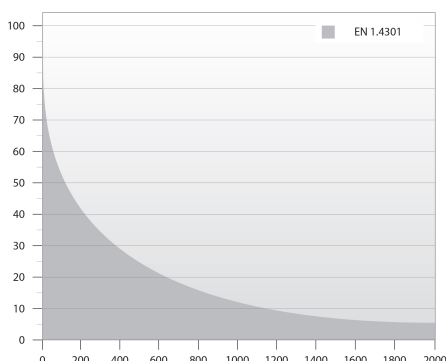
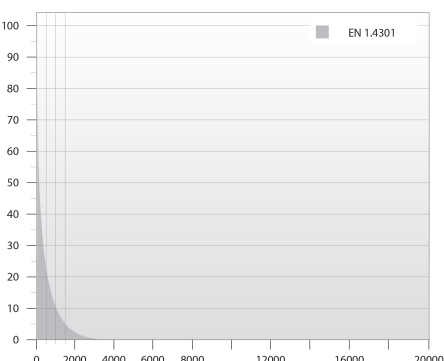
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<https://www.lenntech.com/grundfos/SPFAM/19041904/SP-95-4.html>

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Position	Qty.	Description
	1	SP 95-4  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 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. 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/m³

Technical:

Rated flow: 95 m³/h
Rated head: 48 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:

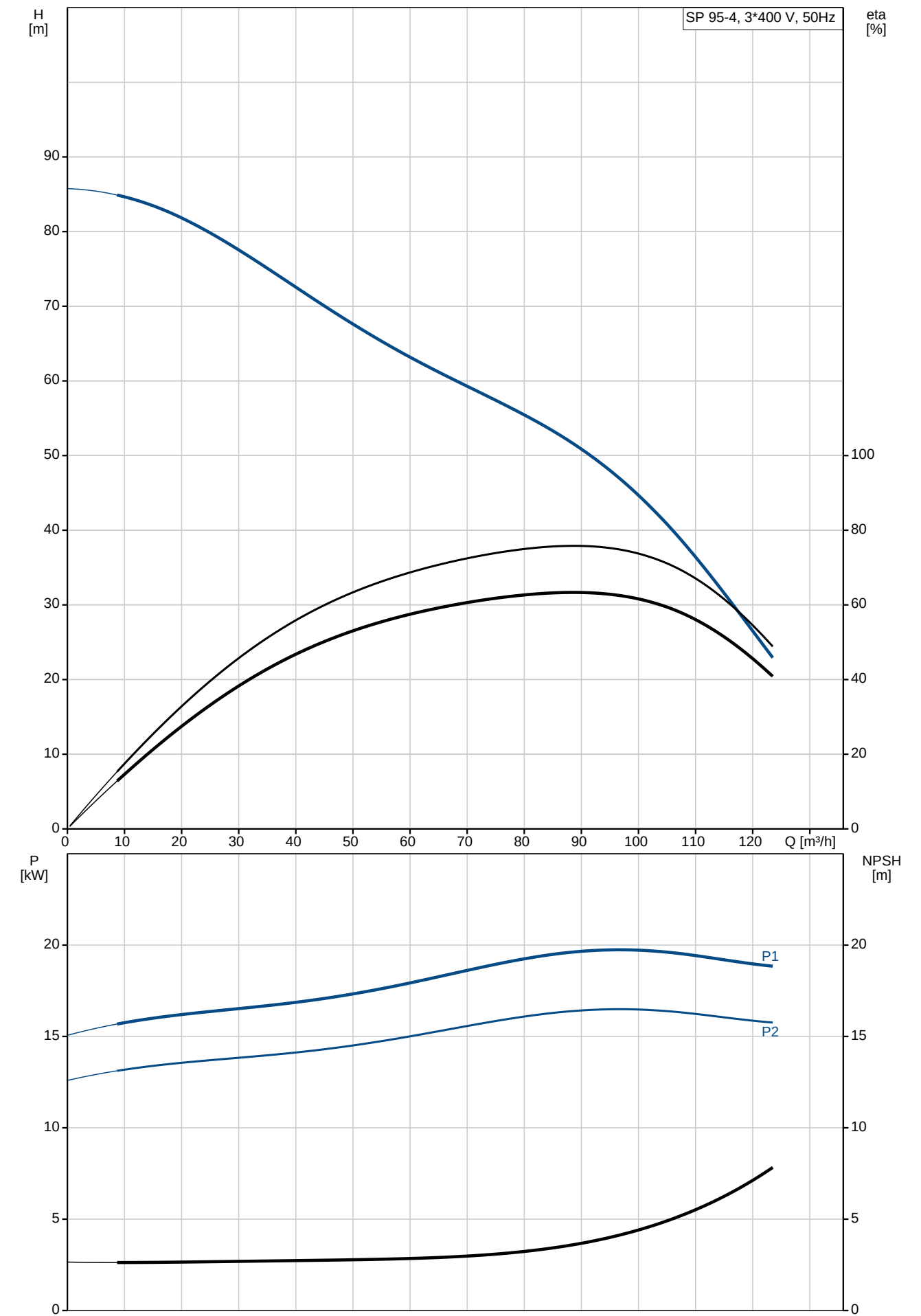
Pump outlet: GRUNDFOS 5" FLANGE
Motor diameter: 6 inch

Electrical data:

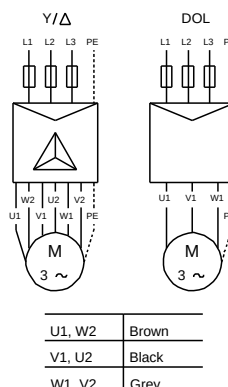
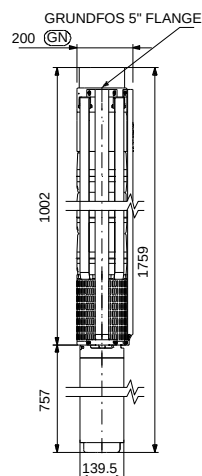
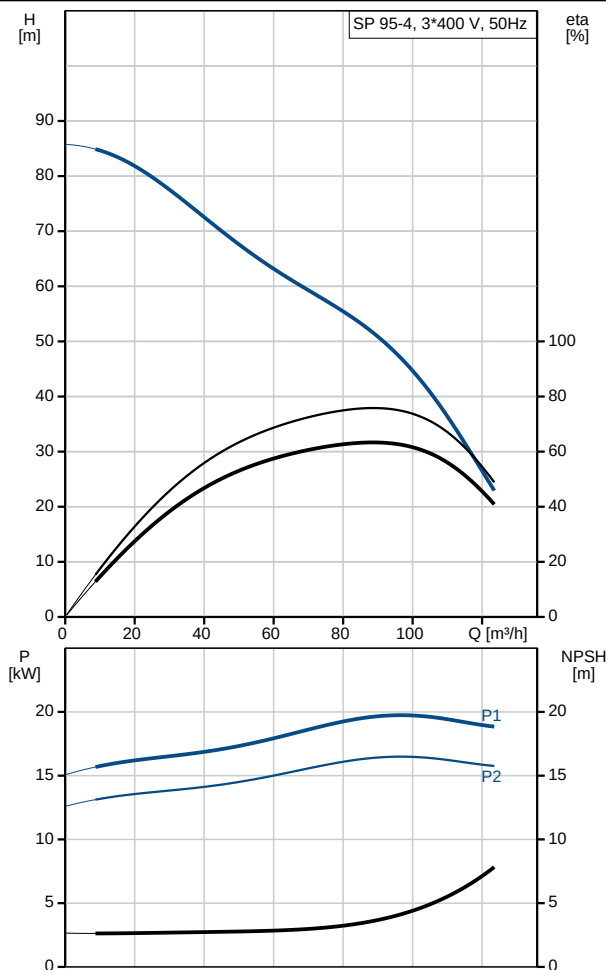
Motor type: MS6000
Rated power - P2: 18.5 kW
Power (P2) required by pump: 18.5 kW
Mains frequency: 50 Hz
Rated voltage: 3 x 380-400-415 V
Rated current: 42.0-41.0-41.5 A
Starting current: 510-560-580 %
Cos phi - power factor: 0.85-0.82-0.79
Rated speed: 2860-2880-2890 rpm
Start. method: direct-on-line
Enclosure class (IEC 34-5): IP68
Insulation class (IEC 85): F
Built-in temp. transmitter: yes

Position	Qty.	Description
		Others: Minimum efficiency index, MEI ≥: --. ErP status: EuP Standalone/Prod. Net weight: 96.9 kg Gross weight: 127 kg Shipping volume: 0.232 m³

On request SP 95-4 50 Hz

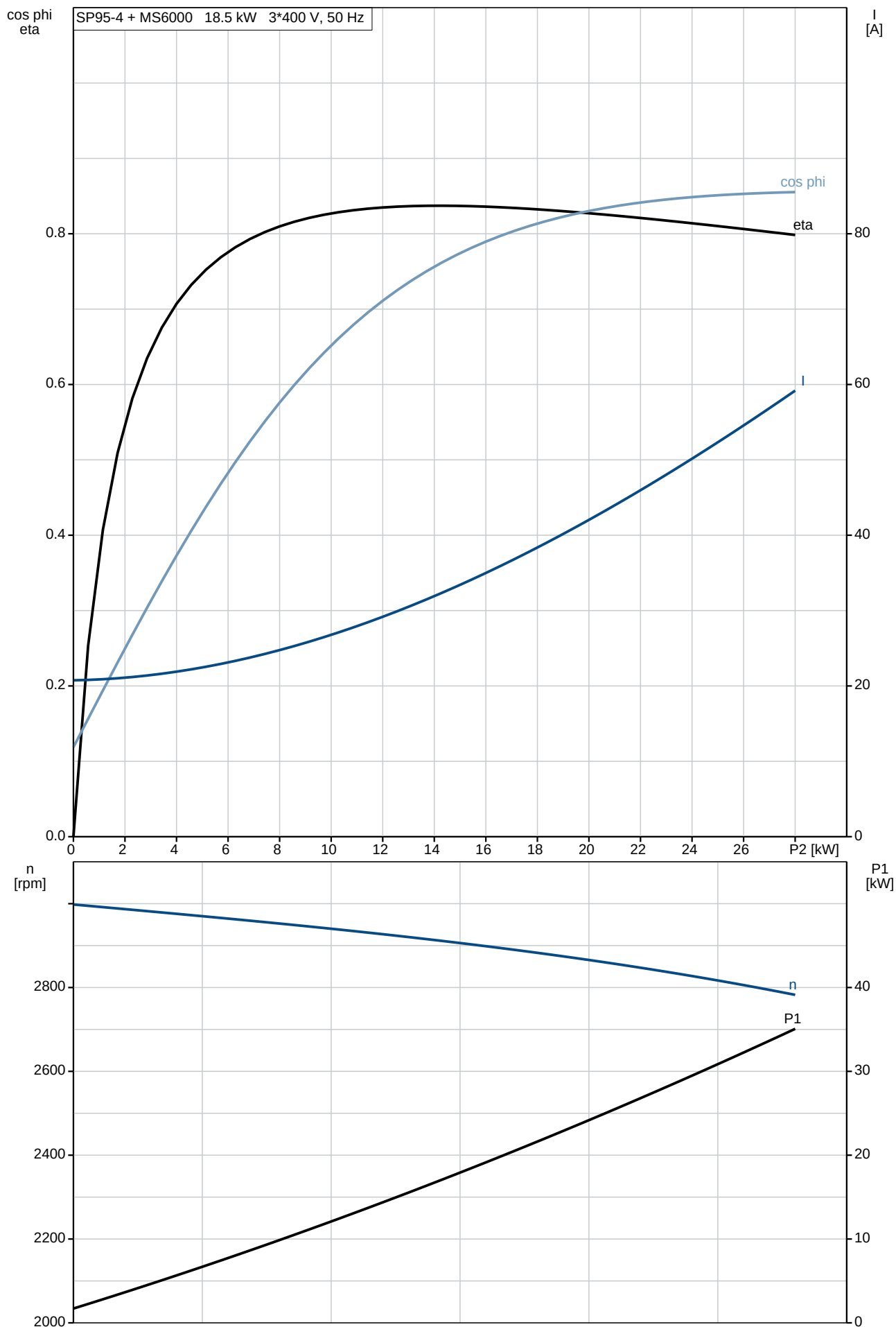


Description	Value
General information:	
Product name:	SP 95-4
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	95 m³/h
Rated head:	48 m
Stages:	4
Impeller reduc.:	NONE
Shaft seal for motor:	CER/CARNBR
Approvals on nameplate:	CE,GOST2
Curve tolerance:	ISO9906:2012 3B
Model:	B
Valve:	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:	GRUNDFOS 5" FLANGE
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:	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
Motor protec:	NONE
Thermal protec:	external
Built-in temp. transmitter:	yes
Motor No:	78195517
Others:	
Minimum efficiency index, MEI ≥:	-, -
ErP status:	EuP Standalone/Prod.
Net weight:	96.9 kg
Gross weight:	127 kg
Shipping volume:	0.232 m³

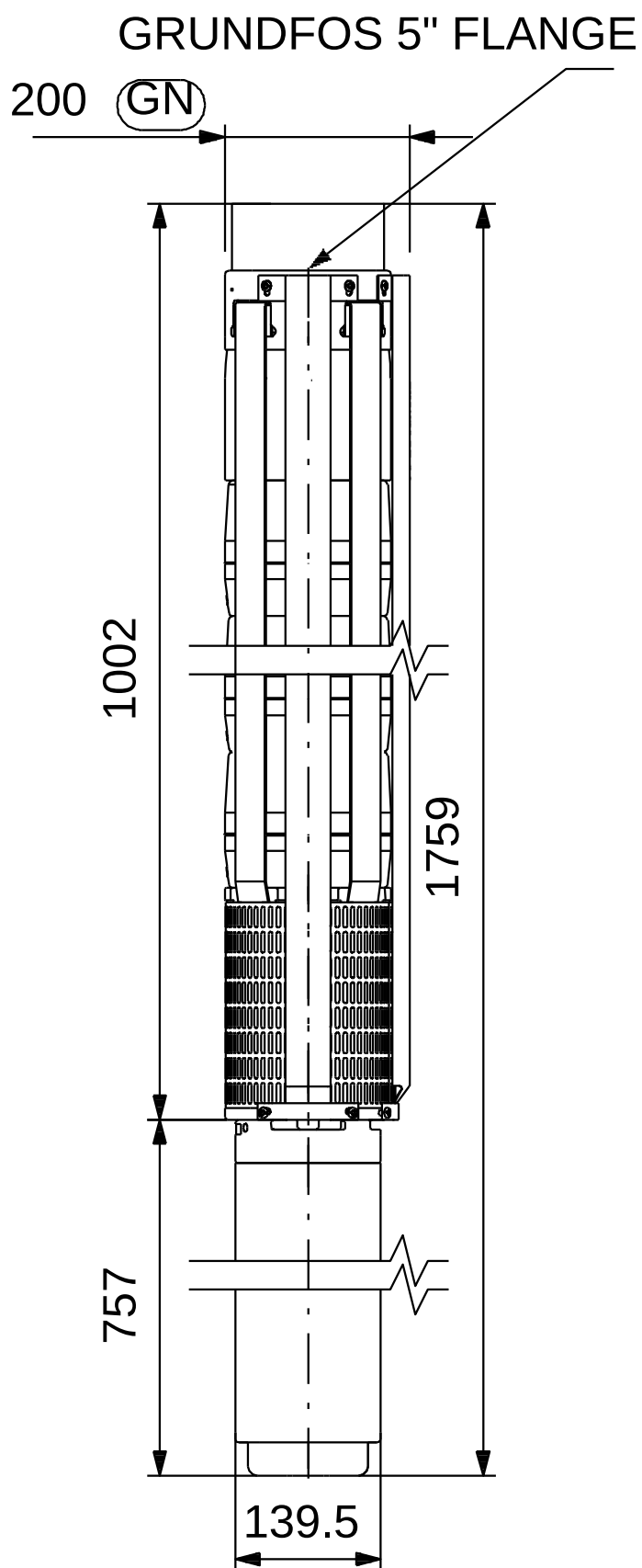


On request SP 95-4 50 Hz

SP95-4 + MS6000 18.5 kW 3*400 V, 50 Hz

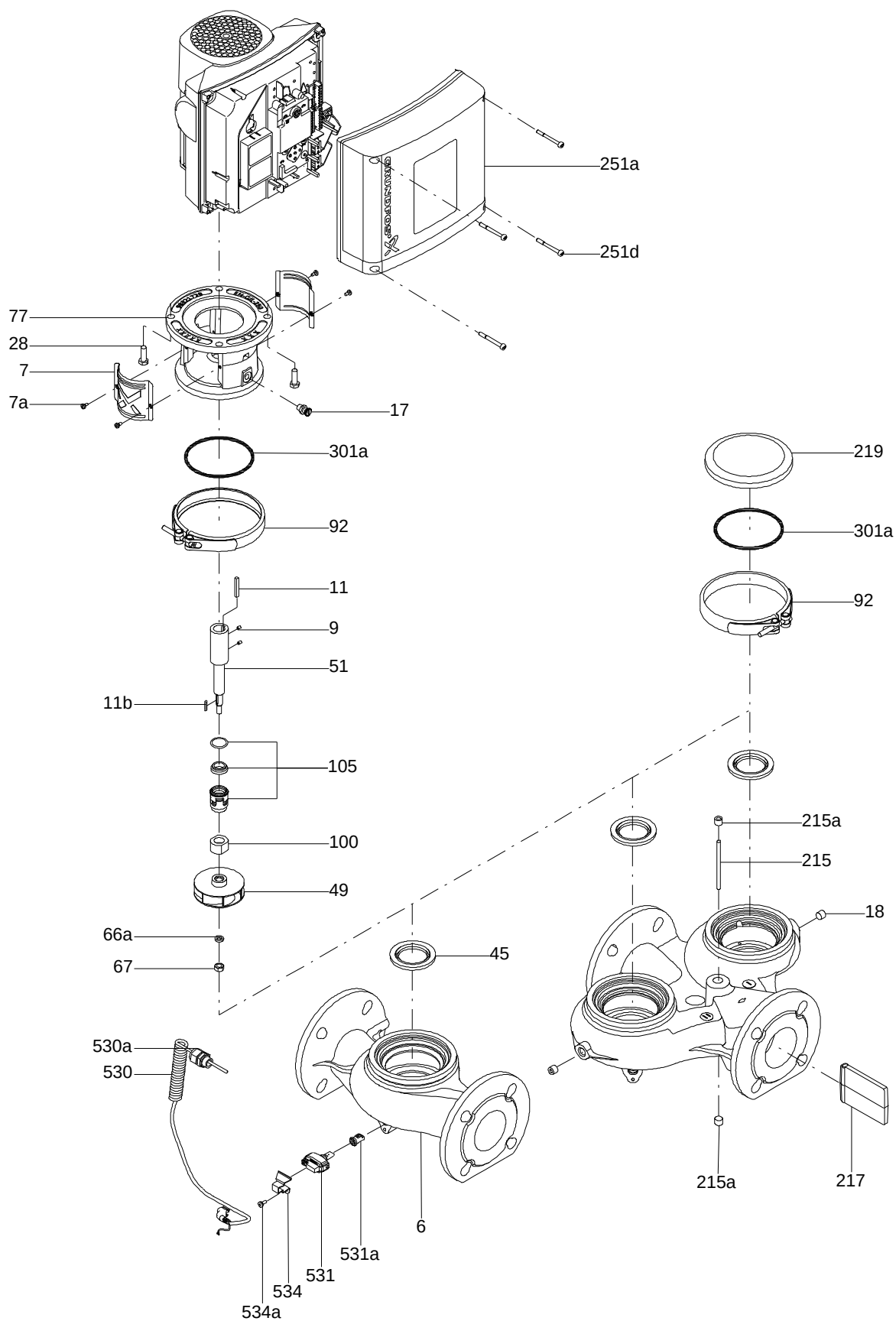


On request SP 95-4 50 Hz

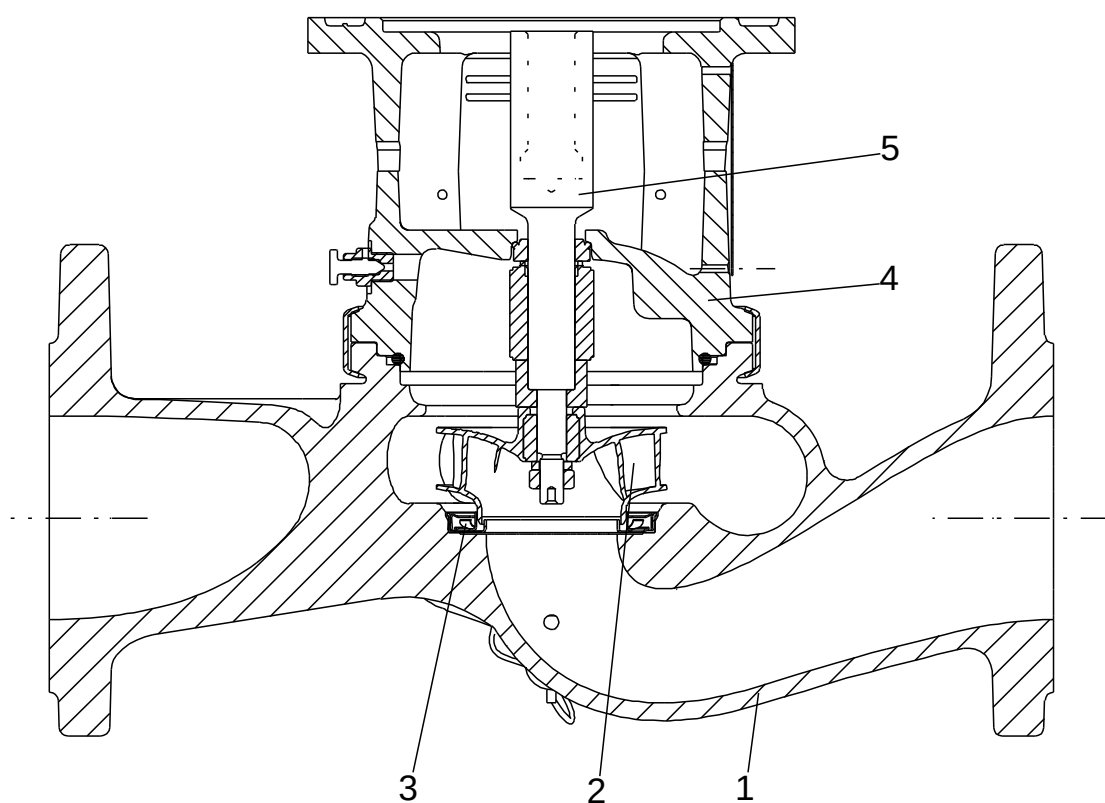


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

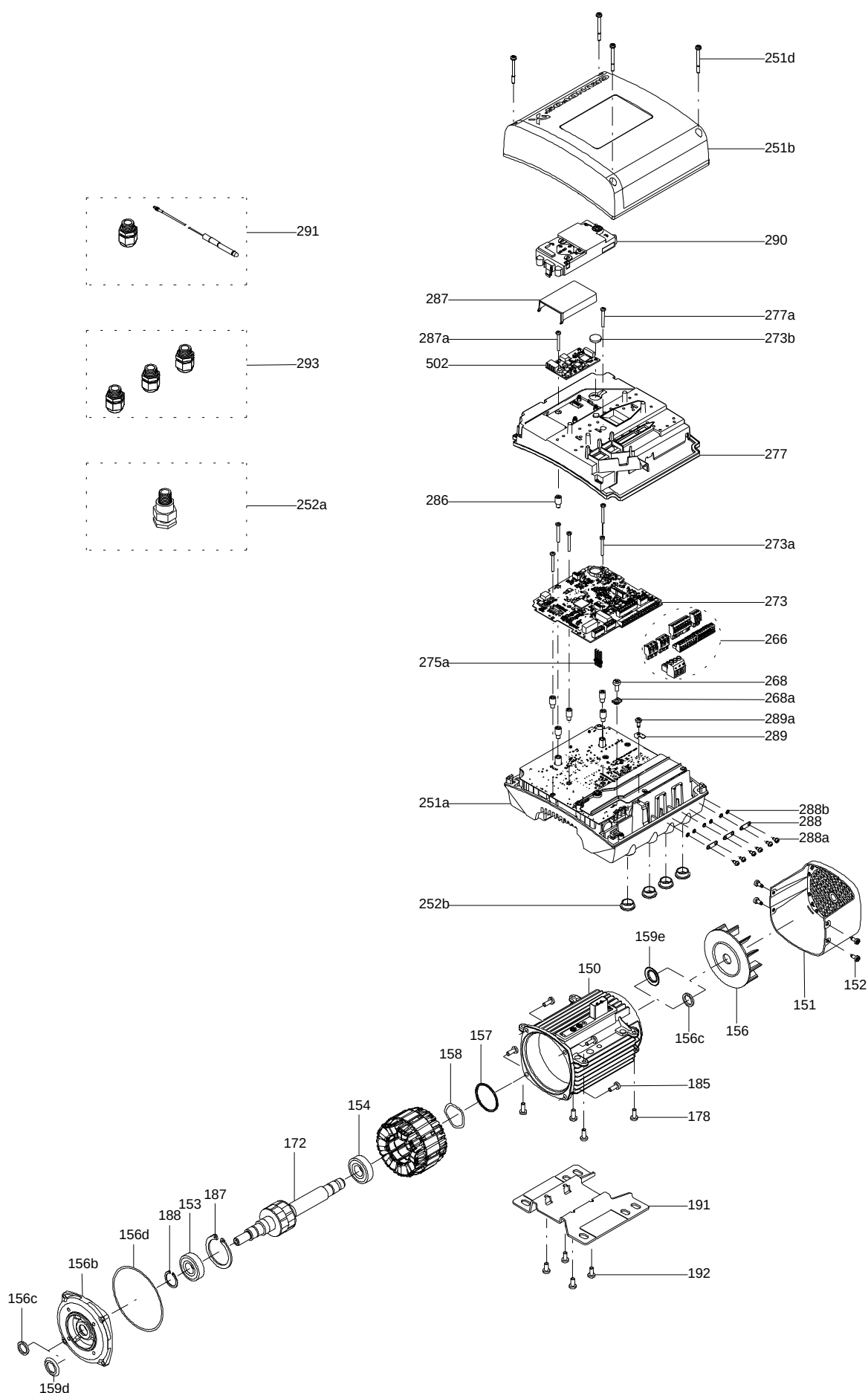


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SP 95-4, Product No. On request
Valid from 7.12.2011 (1149)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Motor				1	pcs
	Stator cpl.				1	
1a	Plug				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	
32	Shaft seal cpl.				1	
34	Shaft seal, rotating part				1	
41	Hex socket head cap screw				4	
42	Stop for bearing				2	
- 45	Shaft adjusting				1	
10	Thrust cover				1	
10a	Washer				1	
11	Adjusting screw				1	
41	Socket button head screw				1	
46	Hex socket head cap screw				1	
48	Cross recess Pan head screw				4	
49	Lock ring				1	
51	Compression spring				1	
1	Valve casing				1	pcs
- 2	Valve flap cpl.				1	pcs
	Valve guide				1	
	Valve cup				1	
3	Valve seat				1	pcs
3b	Retainer for valve seat				1	pcs
3b	Retainer for valve seat				1	pcs
- 4	Chamber cpl.				1	pcs
	Chamber				1	
	Chamber				1	
	Bearing retainer				1	
	Guide vane				9	
	Cone				1	
	Guide cup				1	
	Guide cup				1	
6b	Bearing				1	
8b	Stop ring				1	
7	Seal ring				1	pcs
8a	Washer				1	pcs
- 9	Chamber cpl.				3	pcs
7	Seal ring				1	
8	Bearing				1	
13	Impeller cpl.				3	pcs
13	Impeller cpl.				1	pcs
14	Suction interconnector				1	pcs
15	Strainer				1	pcs
- 17	Shaft,cableg,strap				1	pcs
- 16	Shaft cpl.				1	
-	Coupling cpl.				1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	Washer					
	Coupling					
32	O-ring					
- 17	Strap cpl.		Length (mm): 793		4	
			Thread: M16			
	Threaded bush				1	
	Lug				1	
- 18	Cable guard cpl.				1	
	Holder for cable guard				2	
	Holder				1	
	Rail for cable guard				1	
18b	Screw		Length (mm): 6		2	pcs
			Thread: M5			
19	Nut				4	pcs
23	Rubber guard				1	pcs
28	Lock				1	pcs
39	Helical compression spring				1	pcs
- 70	Valve guide				1	pcs
	Pipe				1	
	Valve guide				1	
	Valve guide				1	
	Valve guide				1	
	Cone				1	
71	Washer				4	pcs
77	Cover plate				1	pcs
77a	Cross recess Pan head screw				2	pcs
77a	Cross recess Pan head screw				2	pcs
78	Nameplate				2	pcs
78a	Rivet				2	pcs
107	O-ring		Diameter: 134.5		1	pcs
			Material type: NBR			
			Thickness: 3			
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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