

SP95- 9 Rp5 6"3X380-415/50 37kW

Grundfos pump 19060309



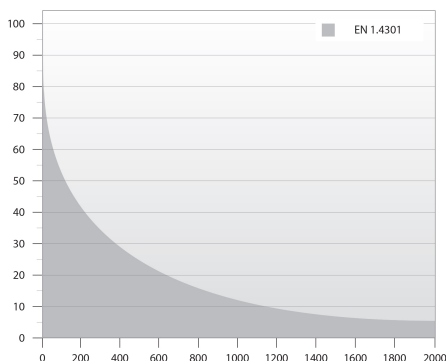
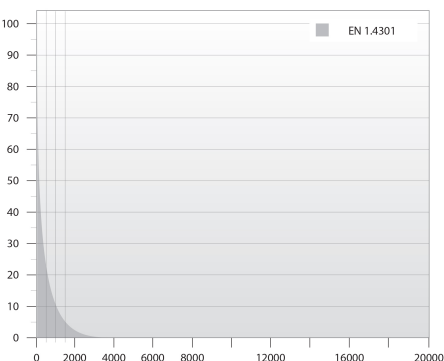
Thank you for your interest in our products. Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SPFAM/19060309/SP-95-9.html>

info@lenntech.com

tel. +31 152 610 900

fax. +31 152 616 289

Position	Qty.	Description
	1	SP 95-9  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 37 kW MMS6 motor with sand slinger, water-lubricated journal bearings and a volume compensating diaphragm. The rewindable motor construction allows complete access to the windings for easy rewinding. The stator windings are PVC insulated made for continuous operations (S1). Suitable for temperatures up to 25 °C. The motor is fitted with a mechanical shaft seal. 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 winding wire is made of pure electrolytic copper insulated by extruded PVC insulation with high dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensures the best possible cooling of the winding wire.

The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. 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. This shaft seal is drinking water approved.

Liquid:

Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.5 m/sec:	30 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

Technical:

Rated flow:	95 m³/h
Rated head:	109 m
Shaft seal for motor:	SIC/SIC
Approvals on nameplate:	CE
Curve tolerance:	ISO9906:2012 3B
Motor version:	T30

Materials:

Pump:	Stainless steel EN 1.4301 AISI 304
Impeller:	Stainless steel EN 1.4301 AISI 304
Motor:	Cast iron DIN W.-Nr. 0.6025 ASTM 35-40

Installation:

Pump outlet:	RP5
Motor diameter:	6 inch

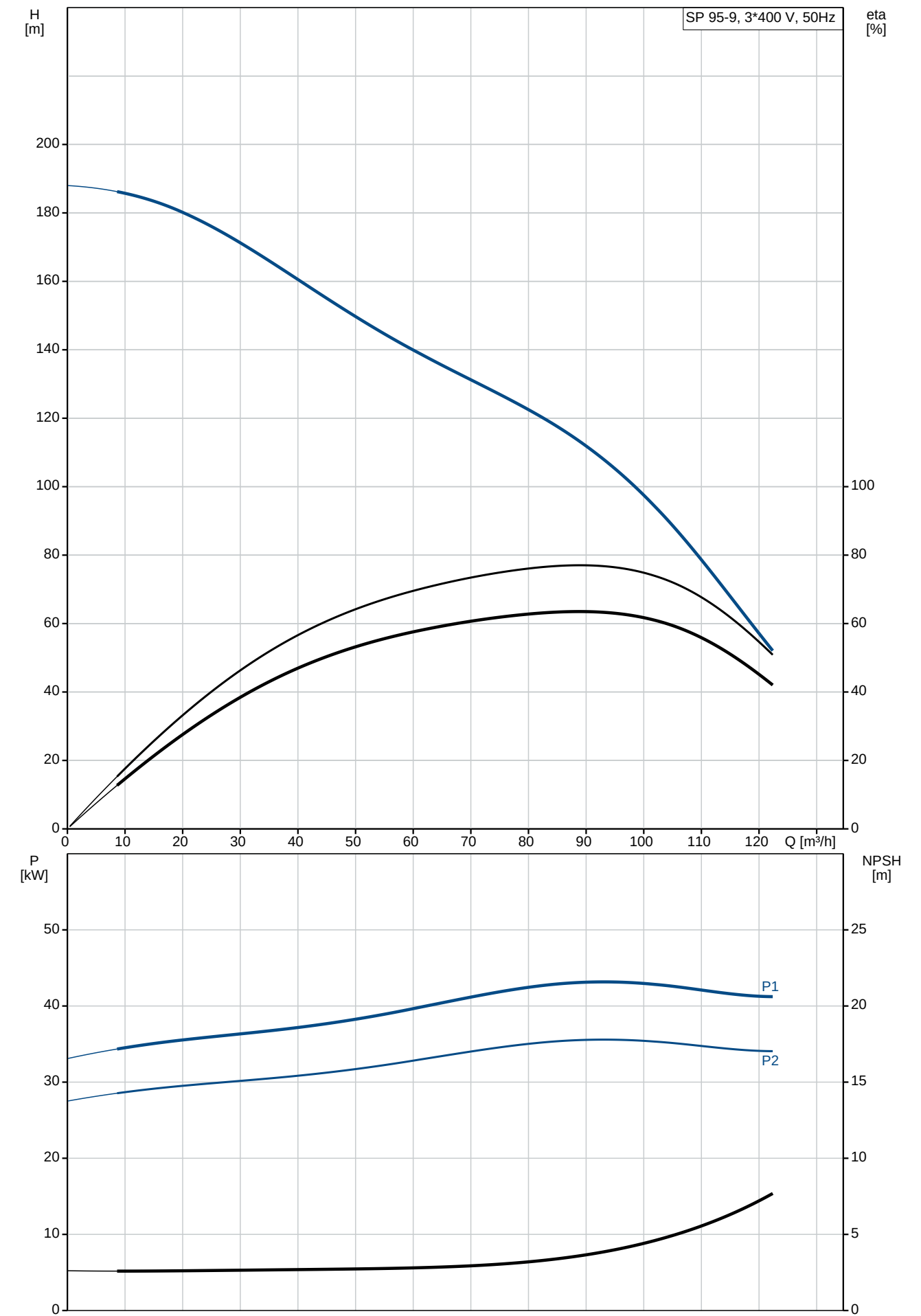
Electrical data:

Motor type:	MMS6
Rated power - P2:	37 kW
Power (P2) required by pump:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Service factor:	1.00
Rated current:	86.0-84.5-85.0 A
Starting current:	470-505-520 %
Cos phi - power factor:	0.84-0.81-0.78
Rated speed:	2840-2860-2870 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Windings:	PVC

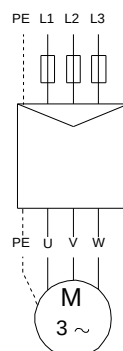
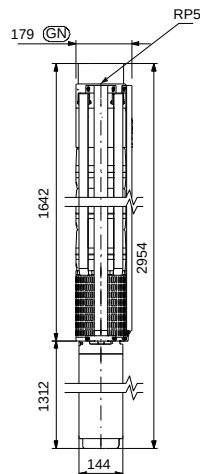
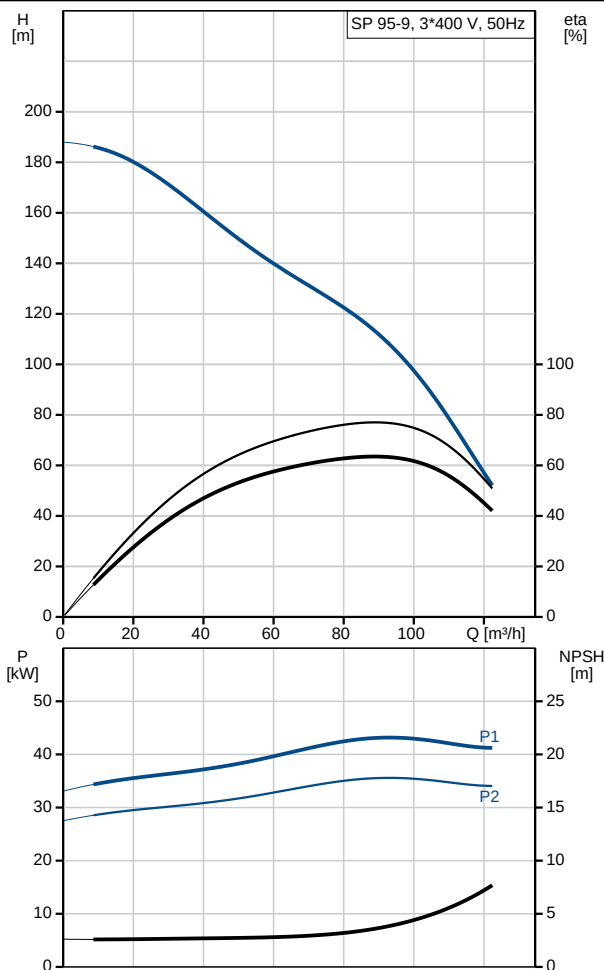
Others:

Minimum efficiency index, MEI ≥:	---
ErP status:	EuP Standalone/Prod.
Net weight:	177 kg
Gross weight:	218 kg
Shipping volume:	0.369 m³

On request SP 95-9 50 Hz

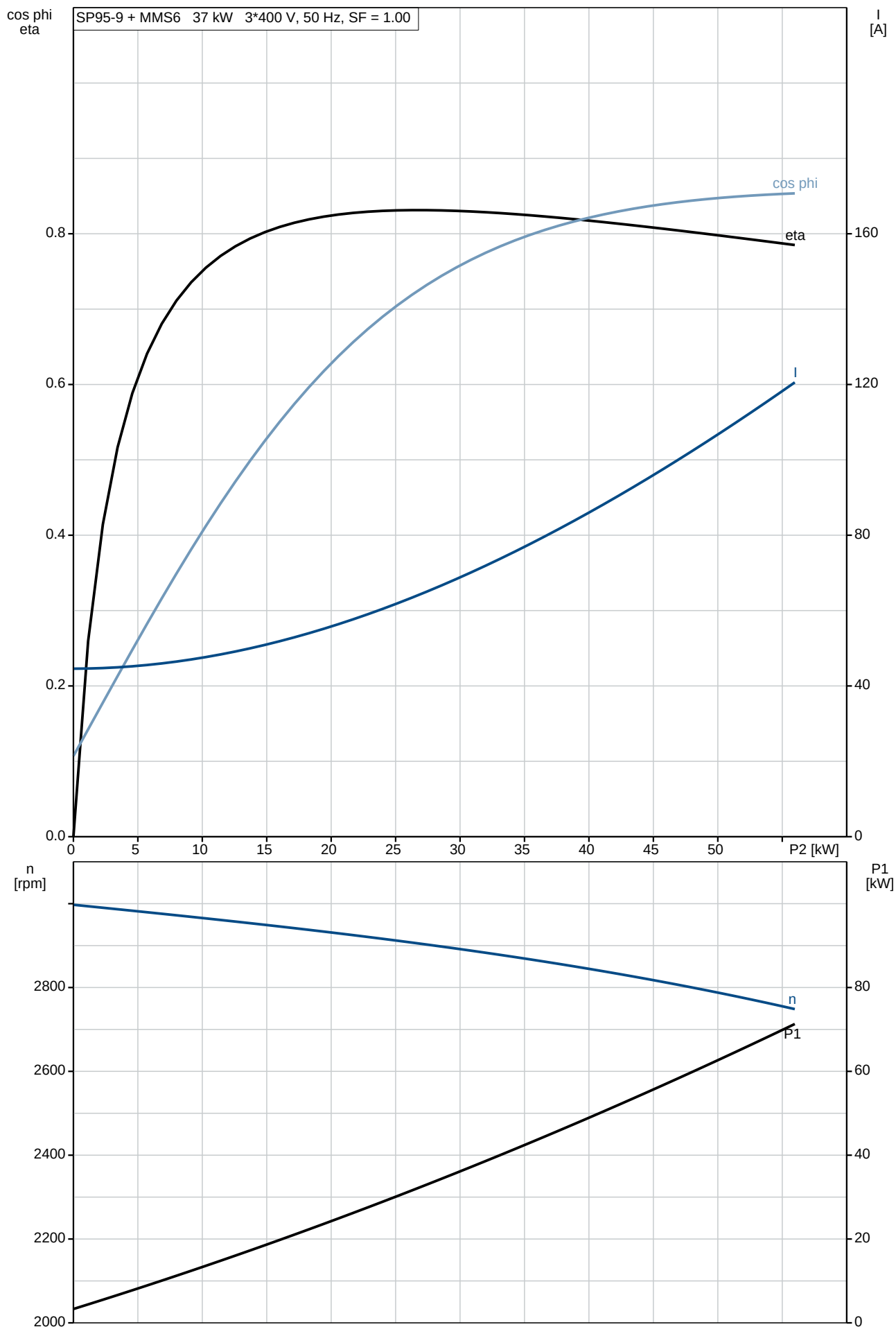


Description	Value
General information:	
Product name:	SP 95-9
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	95 m³/h
Rated head:	109 m
Stages:	9
Impeller reduc.:	NONE
Shaft seal for motor:	SIC/SIC
Approvals on nameplate:	CE
Curve tolerance:	ISO9906:2012 3B
Model:	B
Valve:	YES
Motor version:	T30
Materials:	
Pump:	Stainless steel
	EN 1.4301
	AISI 304
Impeller:	Stainless steel
	EN 1.4301
	AISI 304
Motor:	Cast iron
	DIN W.-Nr. 0.6025
	ASTM 35-40
Installation:	
Pump outlet:	RP5
Motor diameter:	6 inch
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.5 m/sec:	30 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MMS6
Applic. motor:	GRUNDFOS
Rated power - P2:	37 kW
Power (P2) required by pump:	37 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Service factor:	1.00
Rated current:	86.0-84.5-85.0 A
Starting current:	470-505-520 %
Cos phi - power factor:	0.84-0.81-0.78
Rated speed:	2840-2860-2870 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Motor protec:	NONE
Thermal protec:	external
Motor No:	96879396
Windings:	PVC
Others:	
Minimum efficiency index, MEI ≥:	---
ErP status:	EuP Standalone/Prod.
Net weight:	177 kg
Gross weight:	218 kg
Shipping volume:	0.369 m³

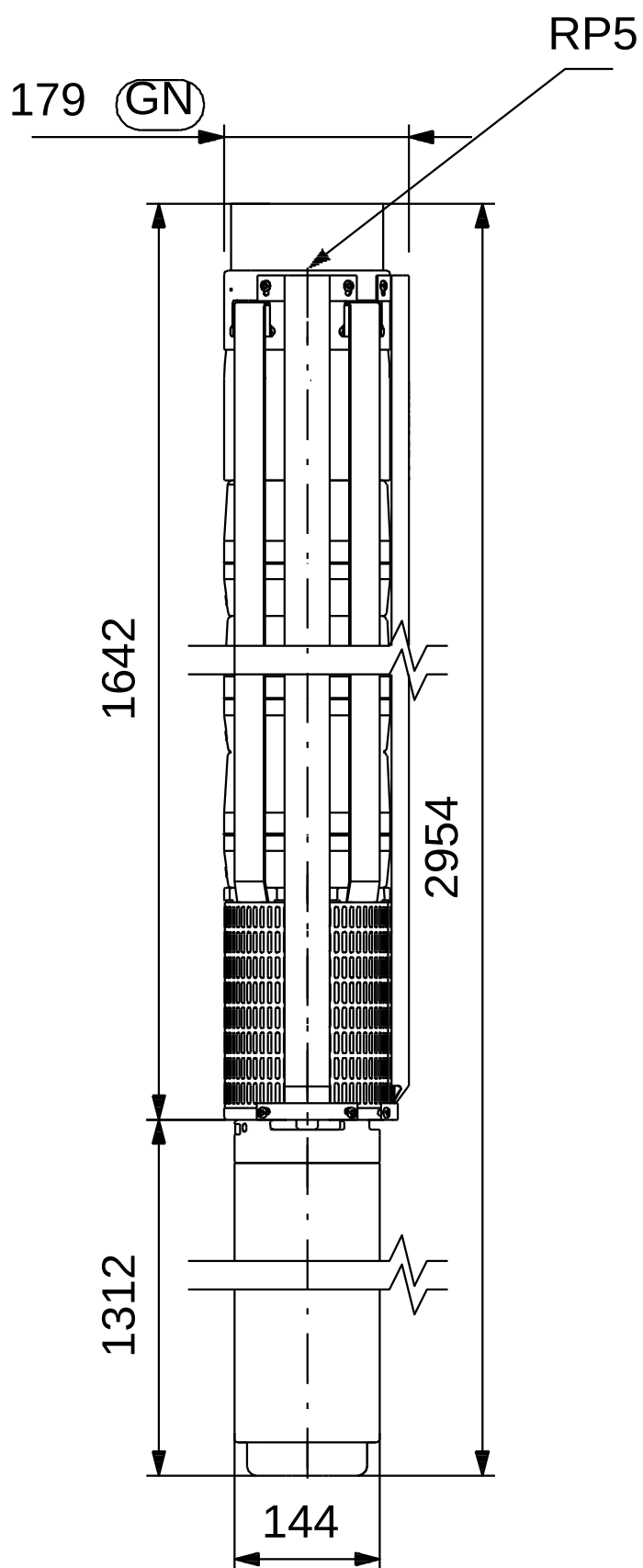


On request SP 95-9 50 Hz

SP95-9 + MMS6 37 kW 3*400 V, 50 Hz, SF = 1.00

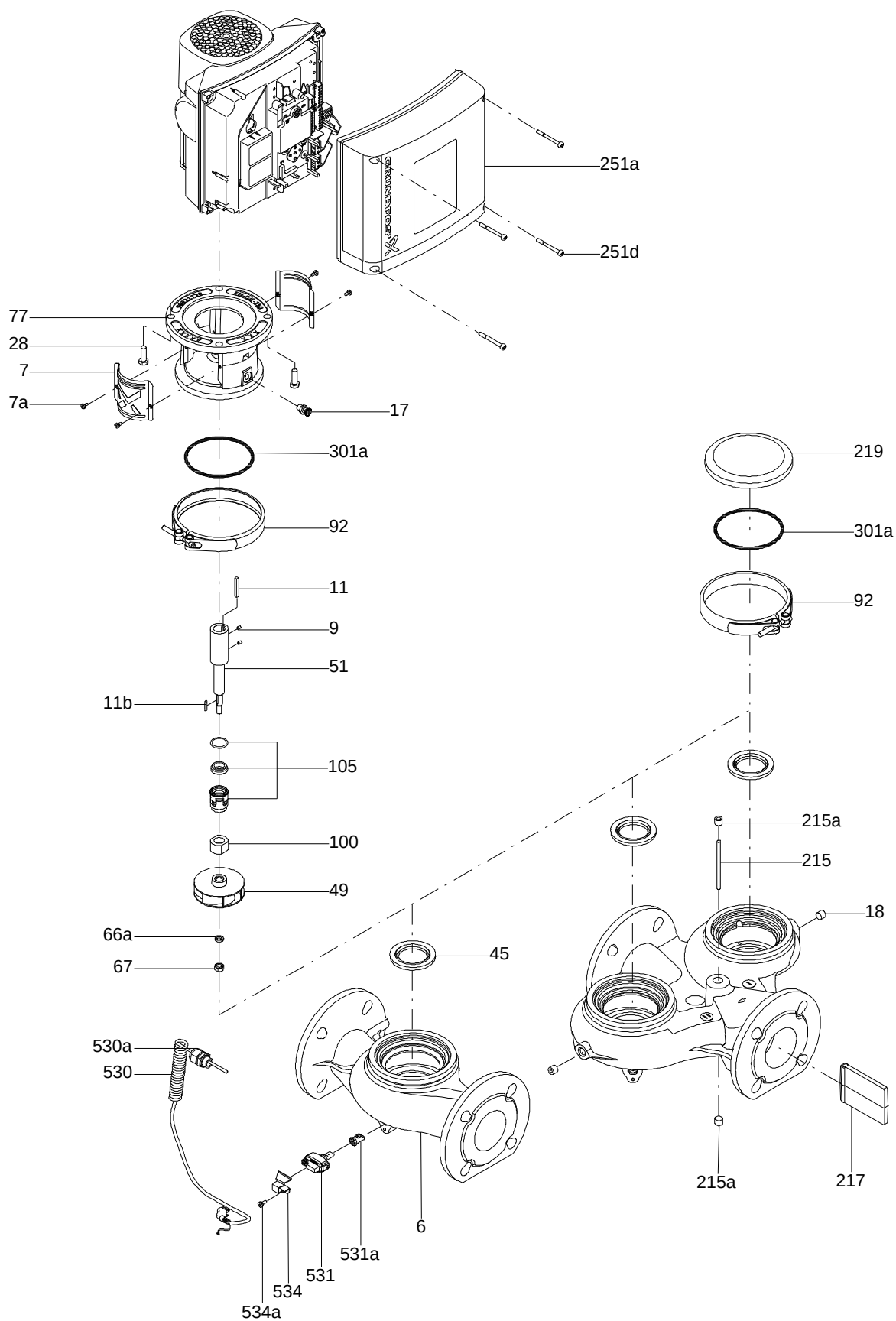


On request SP 95-9 50 Hz

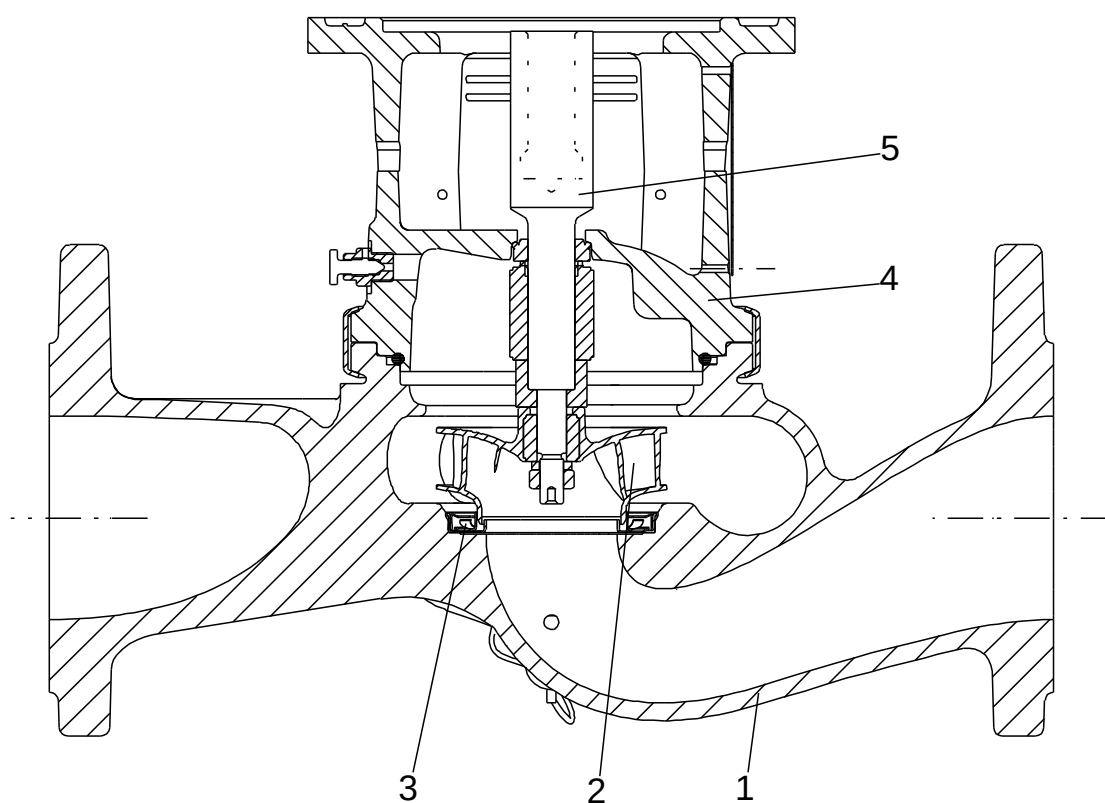


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

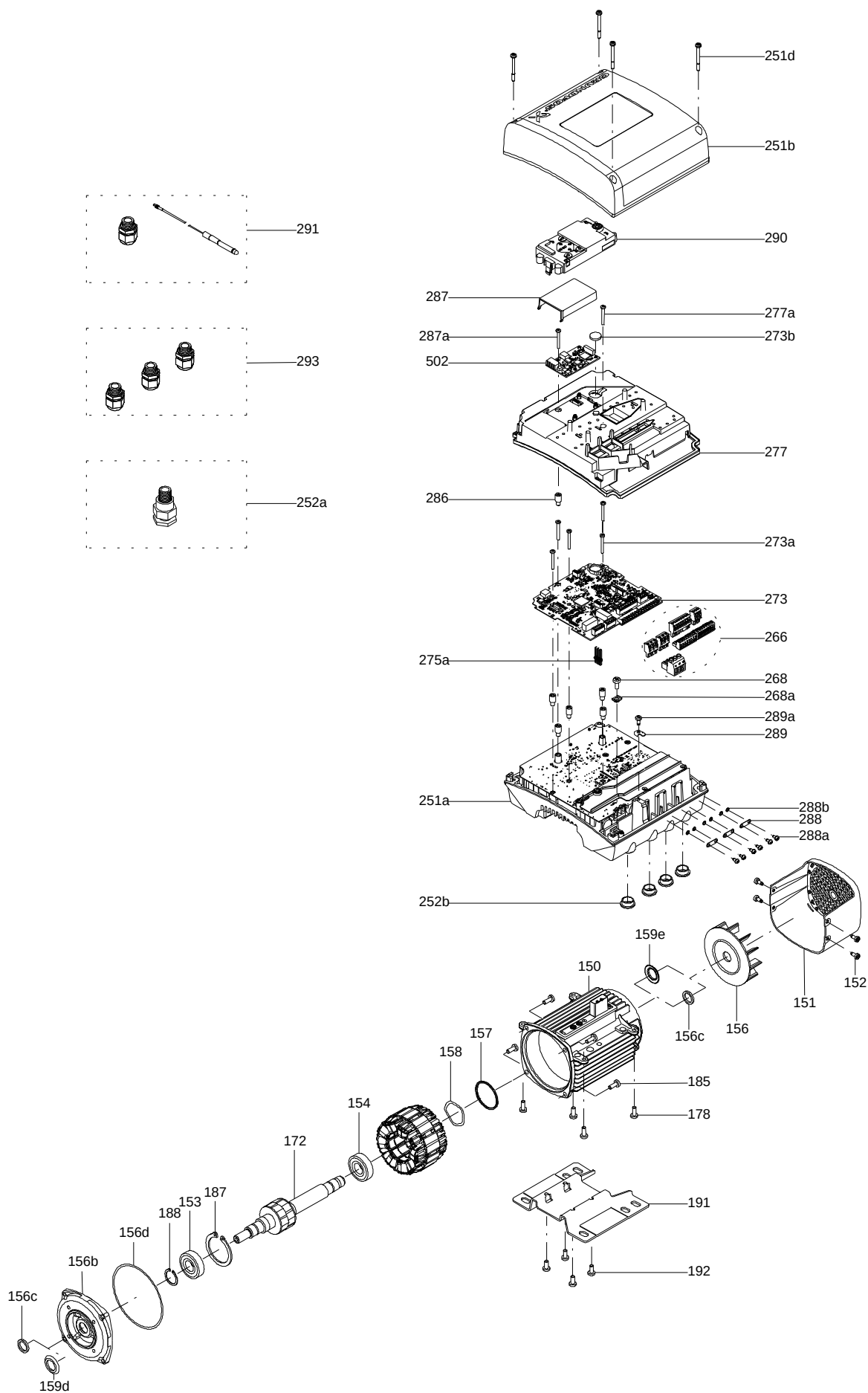


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list SP 95-9, Product No. On request
Valid from 1.5.2011 (1117)

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
-	Motor				1	pcs
	Shaft w/rotor				1	
-	Kit, bearing housing, lower				1	
204	Radial bearing				1	
236	Bearing housing, lower				1	
.	Shaft seal, rotating part				1	
35b	Nut		Thread: M12		4	
66a	Washer		Designation: DIN 125 A2		4	
			Internal diameter: 13			
			Outer diameter: 24			
			Thickness: 2,5			
201	Stator				1	
203	Thrust ring support cpl.				1	
203c	Socket set screw		Length (mm): 8		4	
			Thread: M6			
206	Thrust ring support cpl.				1	
210	Thrust bearing support				1	
213	Bottom cover				1	
215	Socket set screw				2	
216.a	Ring				1	
216a	Washer		Designation: DIN 125 A2		1	
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
219	Thrust bearing housing				1	
222c	Seal washer				1	
223a	Plug				1	
223a	Venting valve				1	
224.a	O-ring				2	
224.b	O-ring				2	
226	Shaft seal housing				1	
226a	Shaft seal, stationary part				1	
+ 229	Sand shield				1	
230b	Lock washer		Internal diameter: 8,4		1	
			Outer diameter: 14			
			Thickness: 1,6			
231	O-ring				1	
232	Lip seal ring				1	
234	Gasket				1	
235	Housing				1	
237	Stud				4	
242	Upthrust spacer				1	
247	Hex socket head cap screw				1	
248	Hex socket head cap screw				4	
248	Hex socket head cap screw				1	
248	Socket button head screw				1	
250	Flange, cable gland				1	
250a	Grommet				1	
250b	Cable gland				2	
-	Shaft,cableg,strap				1	pcs
- 16	Shaft cpl.		Diameter: 32		1	
			Length (mm): 1324			
-	Coupling cpl.				1	
	Washer					
	Coupling					
32	O-ring					
- 17	Strap cpl.		Length (mm): 1433		4	
			Thread: M16			
	Threaded bush				1	

Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
	Lug				1	
- 18	Cable guard cpl.				1	
	Holder for cable guard				2	
	Holder				1	
	Rail for cable guard				1	
1	Valve casing cpl.			1	1	pcs
- 2	Valve flap cpl.			1	1	pcs
	Valve guide				1	
	Valve cup				1	
3	Valve seat			1	1	pcs
3b	Retainer for valve seat			1	1	pcs
3b	Retainer for valve seat			1	1	pcs
- 4	Chamber cpl.			1	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	1	pcs
8a	Washer			1	1	pcs
- 9	Chamber cpl.			8	8	pcs
7	Seal ring				1	
8	Bearing				1	
13	Impeller cpl.			8	8	pcs
13	Impeller cpl.			1	1	pcs
14	Suction interconnector			1	1	pcs
15	Strainer			1	1	pcs
18b	Screw		Length (mm): 6 Thread: M5	2	2	pcs
19	Nut			4	4	pcs
23	Rubber guard			1	1	pcs
28	Lock			1	1	pcs
39	Helical compression spring			1	1	pcs
- 70	Valve guide			1	1	pcs
	Pipe				1	
	Valve guide				1	
	Valve guide				1	
	Valve guide				1	
	Cone				1	
71	Washer			4	4	pcs
77	Cover plate			1	1	pcs
77a	Cross recess Pan head screw			2	2	pcs
77a	Cross recess Pan head screw			2	2	pcs
78	Nameplate			2	2	pcs
78a	Rivet			2	2	pcs
107	O-ring		Diameter: 134.5 Material type: NBR Thickness: 3	1	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.

All information is copyright Grundfos.



info@lenntech.com

<https://www.lenntech.com>

tel. +31 152 610 900

fax. +31 152 616 289