

SP3A-22N 1.5kW 3x380-415V 50Hz

Grundfos Pump 10201922



Thank you for your interest in our products

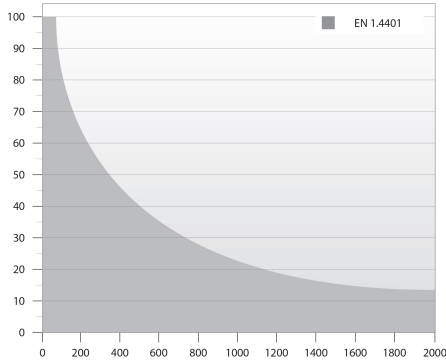
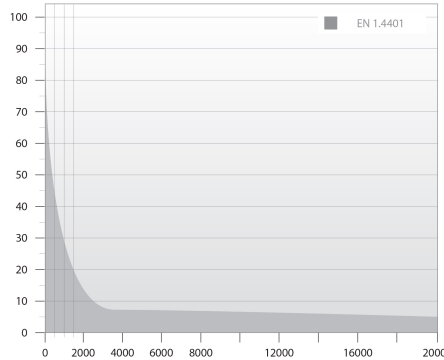
Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SPFAM/10201922/SP-3A-22N.html>

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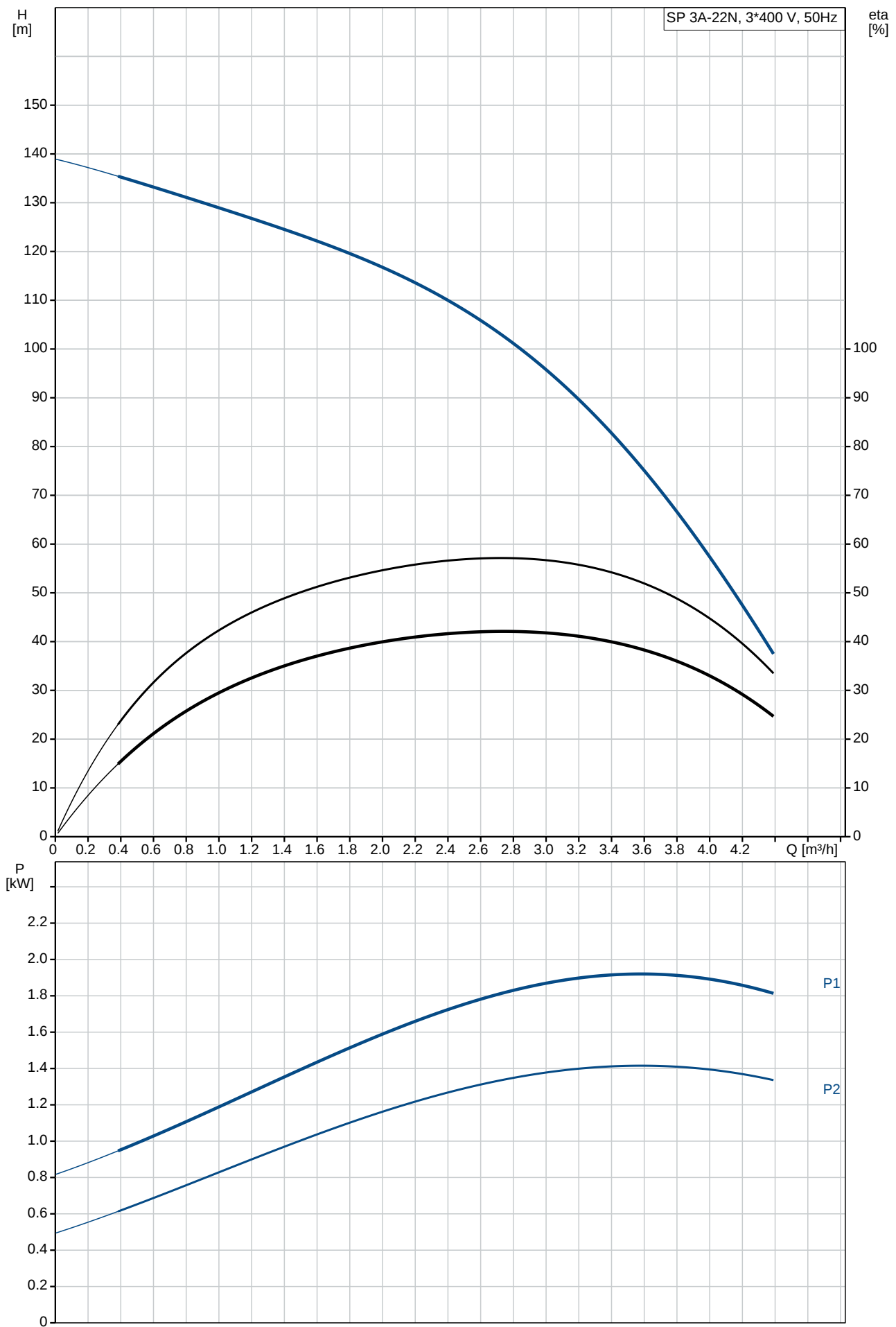
fax. +31-15-261.62.89

Position	Qty.	Description
	1	SP 3A-22N  Note! Product picture may differ from actual product Product No.: 10201922 Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizontally. All steel components are made in stainless steel, EN 1.4401 (AISI 316), that ensures high corrosive resistance. The pump is fitted with a 1.5 kW MS4000 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 - mining applications - off-shore 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 top chamber features a built-in non-return valve to prevent backflow and reduce the risk of water hammer. 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

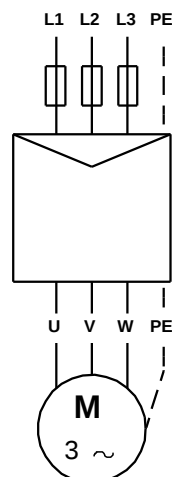
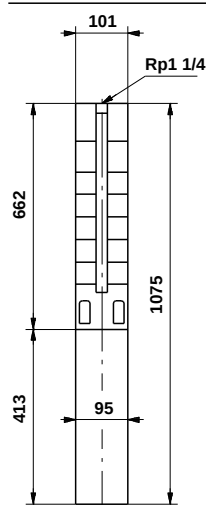
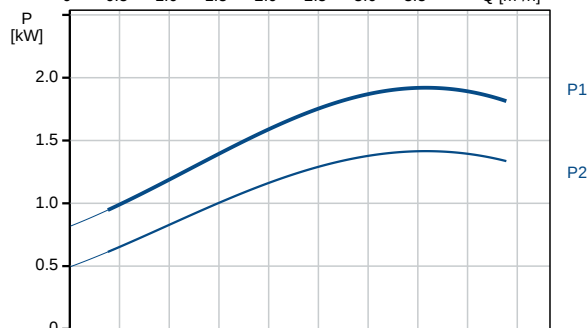
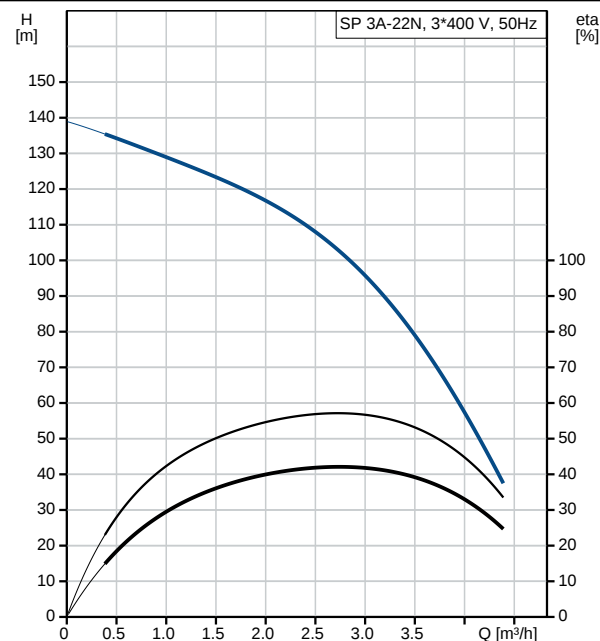
Position	Qty.	Description
		The stator is hermetically encapsulated in stainless steel and the windings are embedded in polymer compound. This results in high mechanical stability, optimum cooling and reduces the risk of short circuits in the windings. The shaft seal faces are SiC/SiC. The material combination 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. 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: Speed for pump data: 2900 rpm Rated flow: 3 m³/h Rated head: 98 m Shaft seal for motor: SiC/SiC Approvals on nameplate: CE,EAC Curve tolerance: ISO9906:2012 3B Motor version: T40 Materials: Pump: Stainless steel EN 1.4401 Impeller: Stainless steel EN 1.4401 Motor: Stainless steel DIN W.-Nr. 1.4539 AISI 904 L Installation: Pump outlet: Rp1 1/4 Motor diameter: 4 inch Electrical data: Motor type: MS4000 Rated power - P2: 1.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-400-415 V Rated current: 3,95-4,00-4,10 A Starting current: 410-430-440 % Cos phi - power factor: 0,84-0,78-0,74 Rated speed: 2840-2860-2870 rpm Start. method: direct-on-line Enclosure class (IEC 34-5): IP68 Insulation class (IEC 85): F

Position	Qty.	Description
		Built-in temp. transmitter: yes Others: Minimum efficiency index, MEI ≥: 0.70 ErP status: EuP Standalone/Prod. Net weight: 23.9 kg Gross weight: 25.7 kg Shipping volume: 19.4 m³

10201922 SP 3A-22N 50 Hz



Description	Value
General information:	
Product name:	SP 3A-22N
Product No:	10201922
EAN number:	5708601059636
Technical:	
Speed for pump data:	2900 rpm
Rated flow:	3 m³/h
Rated head:	98 m
Stages:	22
Shaft seal for motor:	SIC/SIC
Approvals on nameplate:	CE,EAC
Curve tolerance:	ISO9906:2012 3B
Model:	A
Valve:	pump with built-in non-return valve
Motor version:	T40
Materials:	
Pump:	Stainless steel EN 1.4401
Impeller:	Stainless steel EN 1.4401
Motor:	Stainless steel DIN W.-Nr. 1.4539 AISI 904 L
Installation:	
Pump outlet:	Rp1 1/4
Motor diameter:	4 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:	MS4000
Applic. motor:	NEMA
Rated power - P2:	1.5 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	3,95-4,00-4,10 A
Starting current:	410-430-440 %
Cos phi - power factor:	0,84-0,78-0,74
Rated speed:	2840-2860-2870 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:	79195606
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	23.9 kg
Gross weight:	25.7 kg
Shipping volume:	19.4 m³

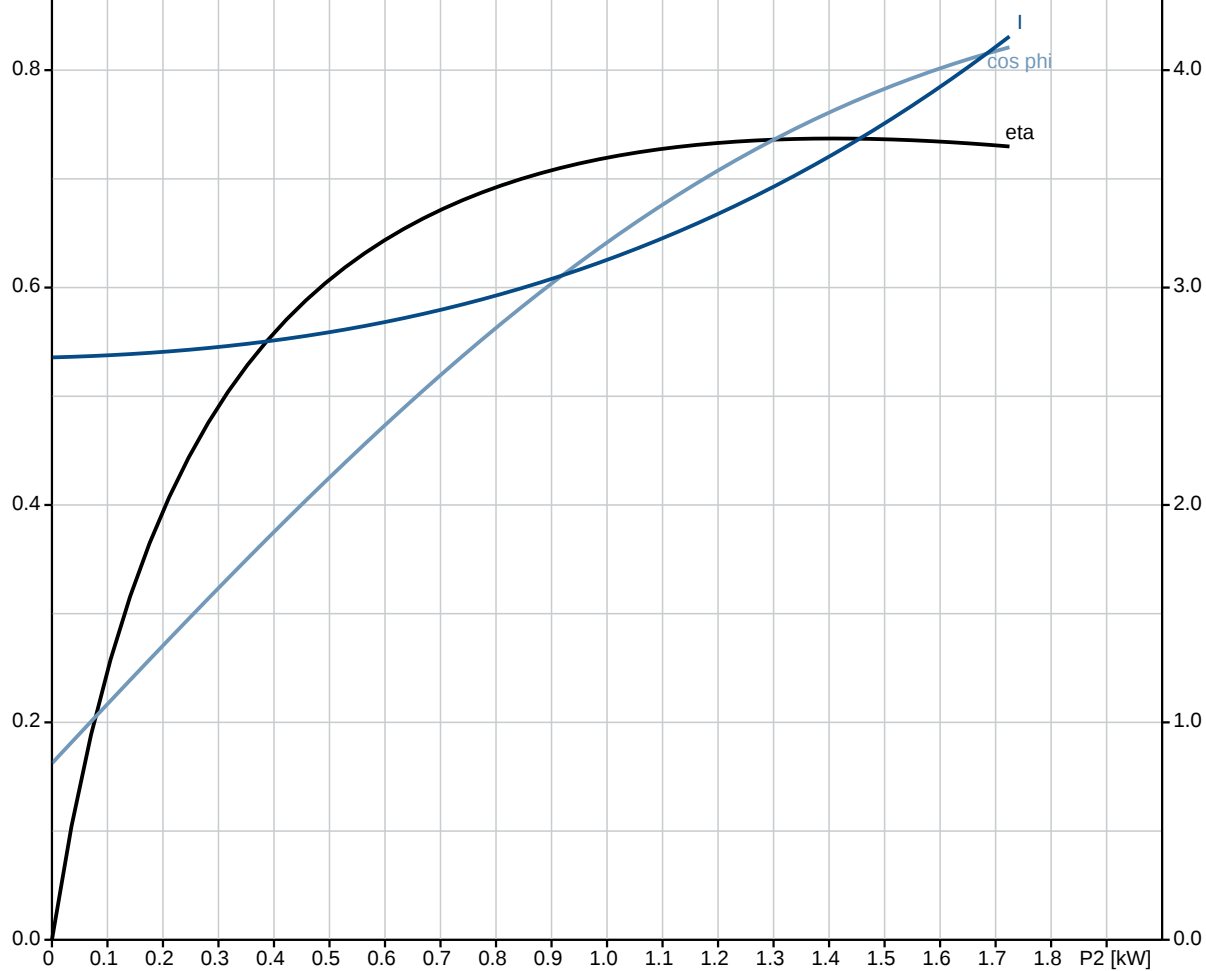


10201922 SP 3A-22N 50 Hz

cos phi
eta

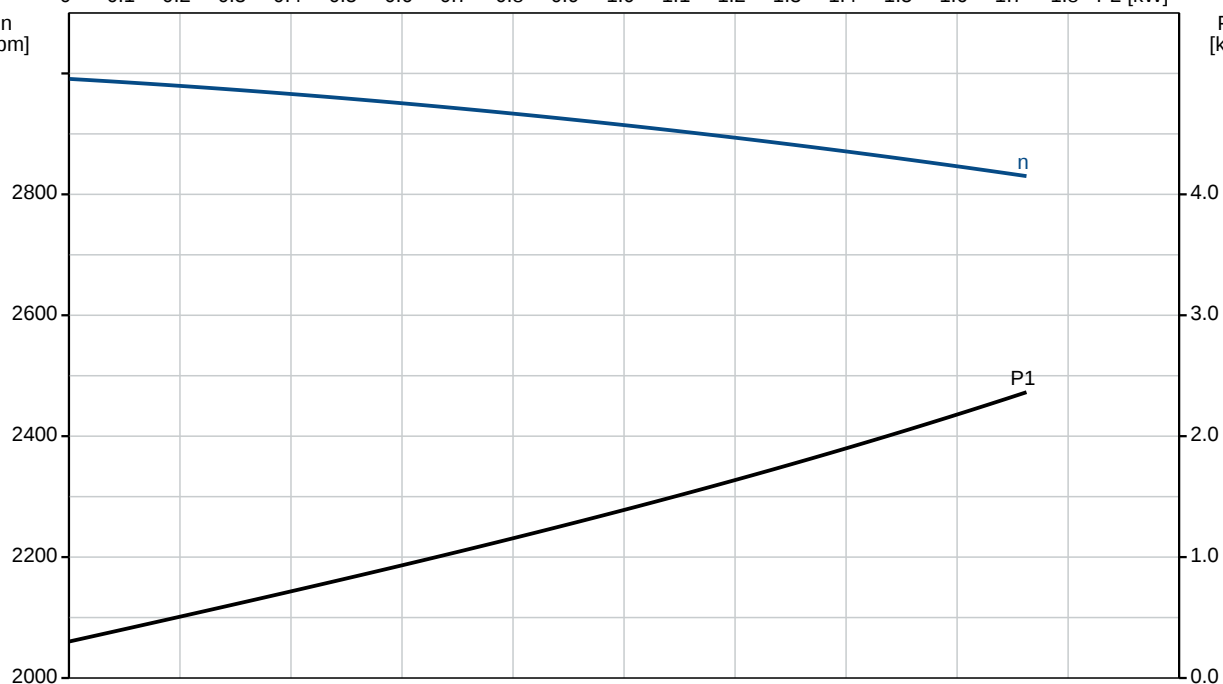
SP3A-22N + MS4000 1.5 kW 3*400 V, 50 Hz

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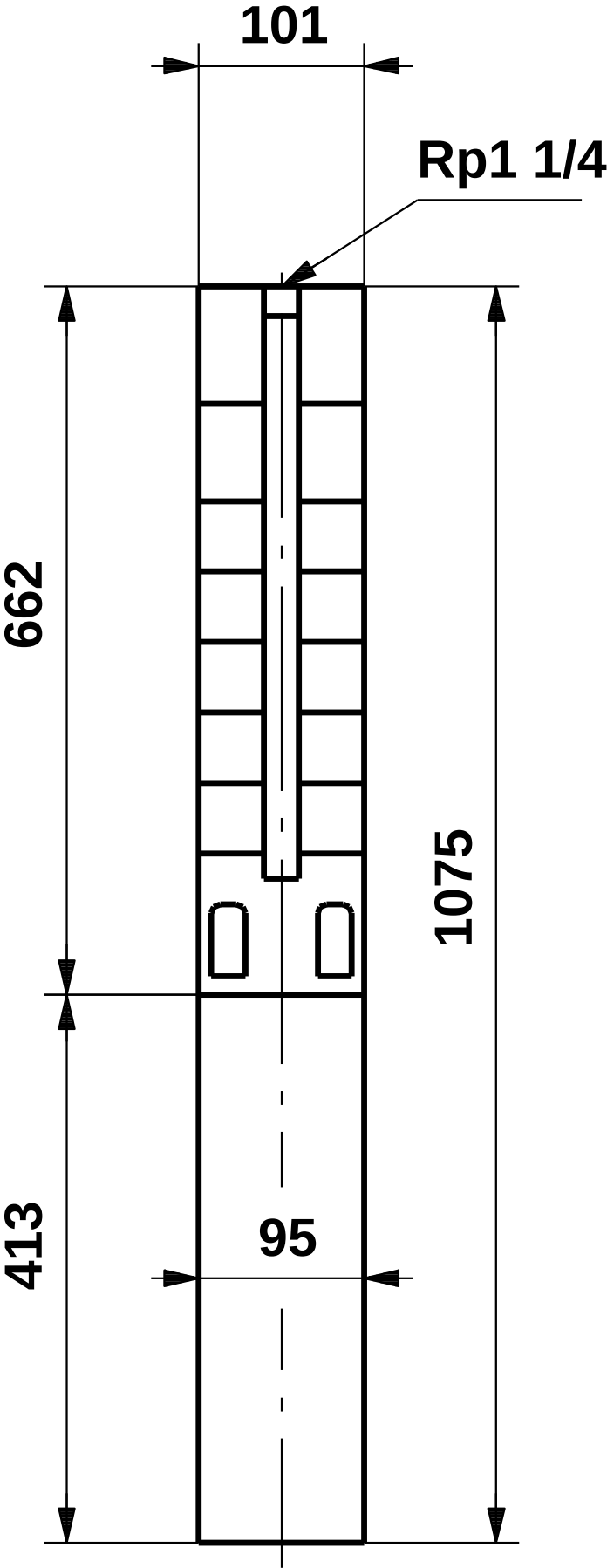


n
[rpm]

P1
[kW]

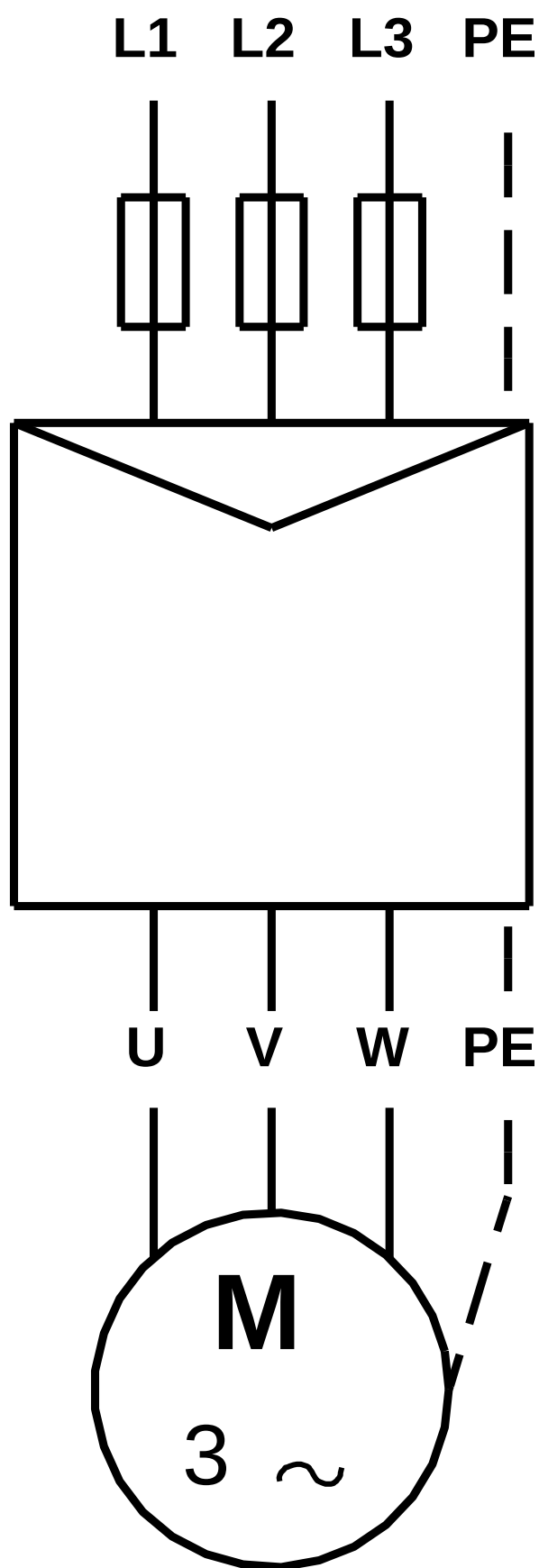


10201922 SP 3A-22N 50 Hz



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

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*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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