Company name:
Created by:
Phone:

Date: 10/11/2020

Qty.	Description
1	**SP 95-3-B**

Note! Product picture may differ from actual product

Product No.: 190019C3

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 11 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).

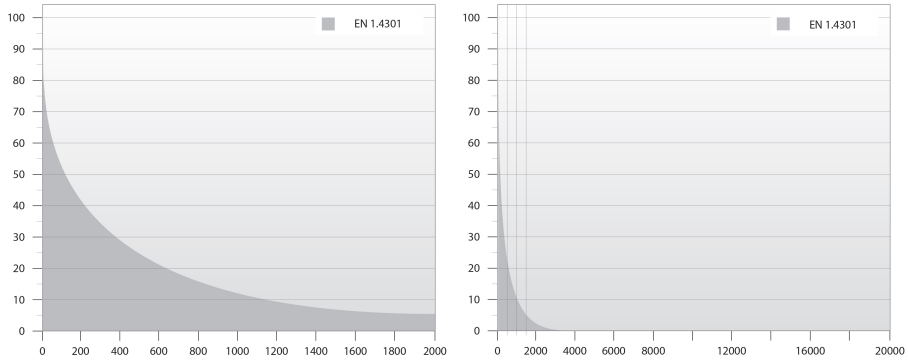
Further product details

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.

Qty.	Description

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
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:	30 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 AISI 304
Impeller:	Stainless steel EN 1.4301 AISI AISI 304
Motor:	Stainless steel DIN W.-Nr. 1.4301 AISI 304

Installation:

Pump outlet:	RP5
Motor diameter:	6 inch

Electrical data:

Motor type:	MS6000

GRUNDFOS

Company name:
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Phone:

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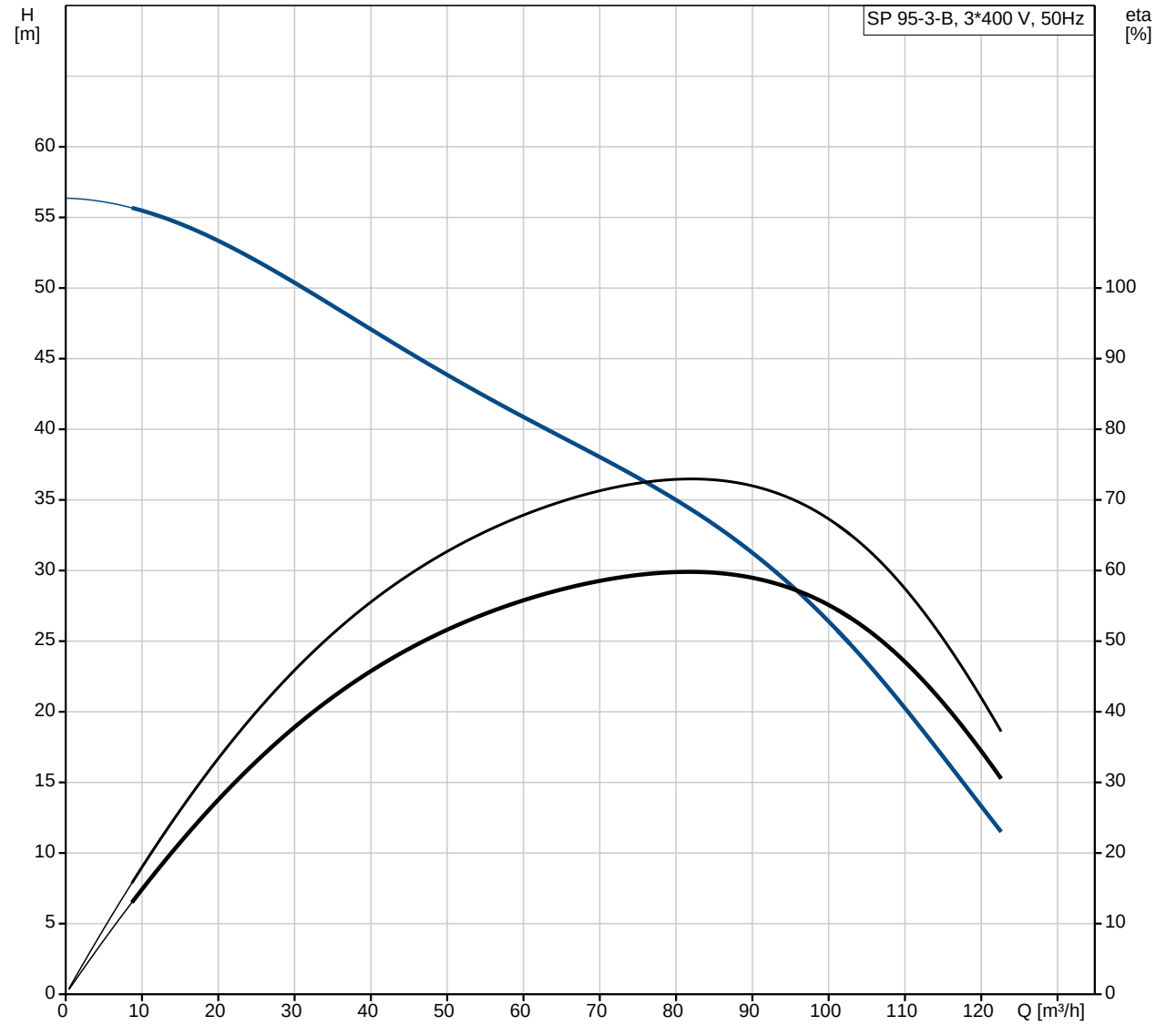
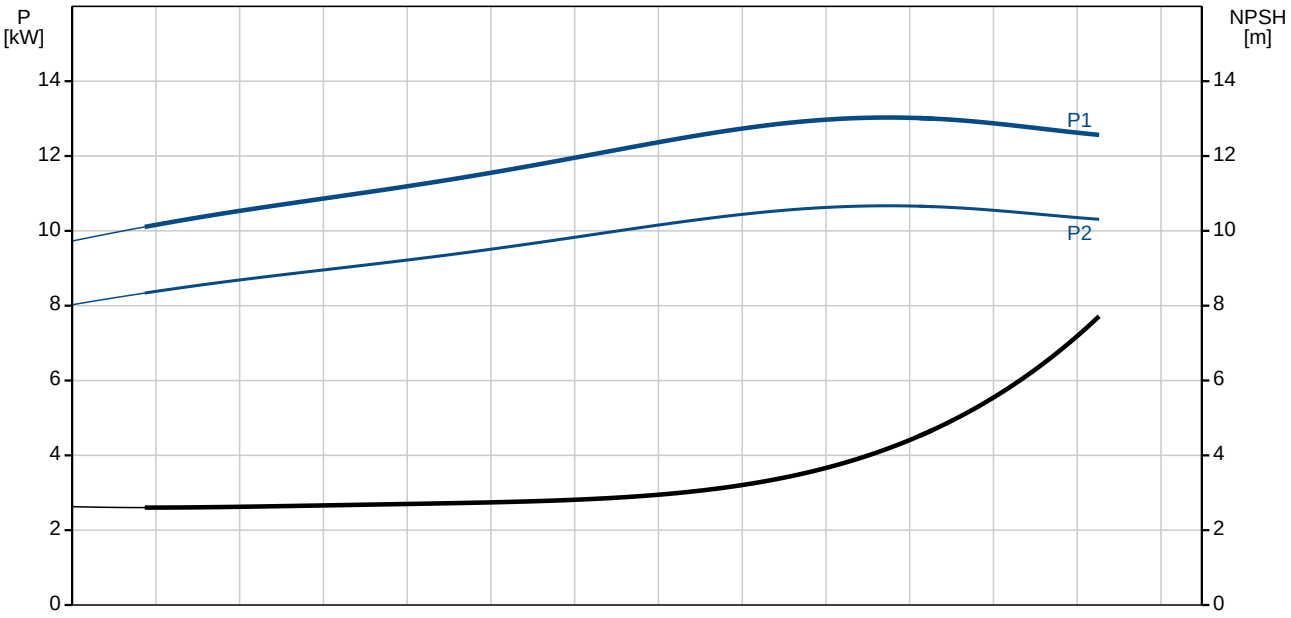
Qty.	Description	
	Rated power - P2:	11 kW
	Power (P2) required by pump:	11 kW
	Mains frequency:	50 Hz
	Rated voltage:	3 x 380-400-415 V
	Rated current:	26.0-25.0-24.8 A
	Starting current:	470-520-540 %
	Cos phi - power factor:	0.84-0.82-0.79
	Rated speed:	2850-2870-2880 rpm
	Start. method:	direct-on-line
	Enclosure class (IEC 34-5):	IP68
	Insulation class (IEC 85):	F
	Built-in temp. transmitter:	yes
	Motor No:	78195514
	Others:	
	Minimum efficiency index, MEI â‰¥:	-.--
	ErP status:	EuP Standalone/Prod.
	Net weight:	80 kg
	Gross weight:	106 kg
	Shipping volume:	0.2 m³
	Country of origin:	GB
	Custom tariff no.:	84137029

Company name:
Created by:
Phone:

Date: 10/11/2020

190019C3 SP 95-3-B 50 Hz

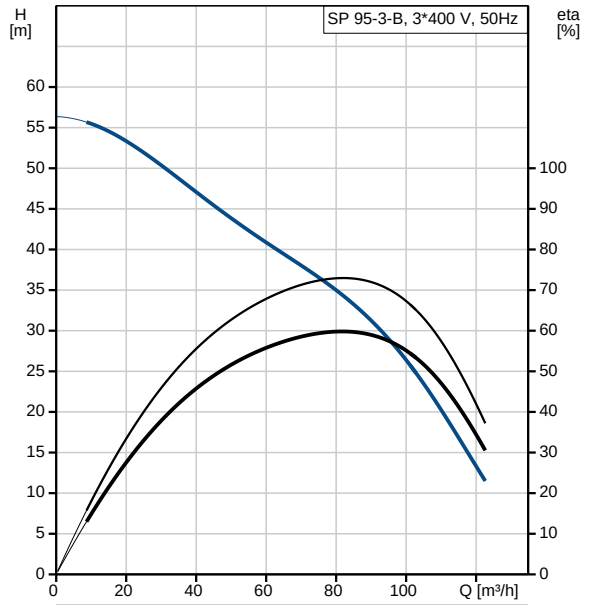


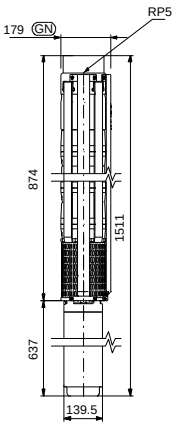


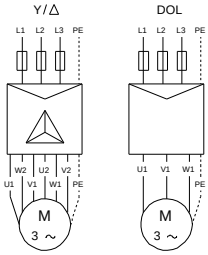
Company name:
Created by:
Phone:

Date: 10/11/2020

Description	Value
General information:	
Product name:	SP 95-3-B
Product No:	190019C3
EAN number:	5700393936751
Price:	GBP 5504
Technical:	
Pump speed on which pump data are based:	2900 rpm
Rated flow:	95 m³/h
Rated head:	30 m
Stages:	3
Impeller reduc.:	B
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
Pump:	EN 1.4301
Pump:	AISI AISI 304
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI AISI 304
Motor:	Stainless steel
Motor:	DIN W.-Nr. 1.4301
Motor:	AISI 304
Installation:	
Pump outlet:	RP5
Motor diameter:	6 inch
Liquid:	
Pumped liquid:	Water
Maximum liquid temperature:	40 °C
Max liquid t at 0.15 m/sec:	40 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	MS6000
Applic. motor:	GRUNDFOS
Rated power - P2:	11 kW
Power (P2) required by pump:	11 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	26.0-25.0-24.8 A
Starting current:	470-520-540 %
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:	78195514
Others:	
Minimum efficiency index, MEI â‰¥:	-.--
ErP status:	EuP Standalone/Prod.







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

Company name:
Created by:
Phone:

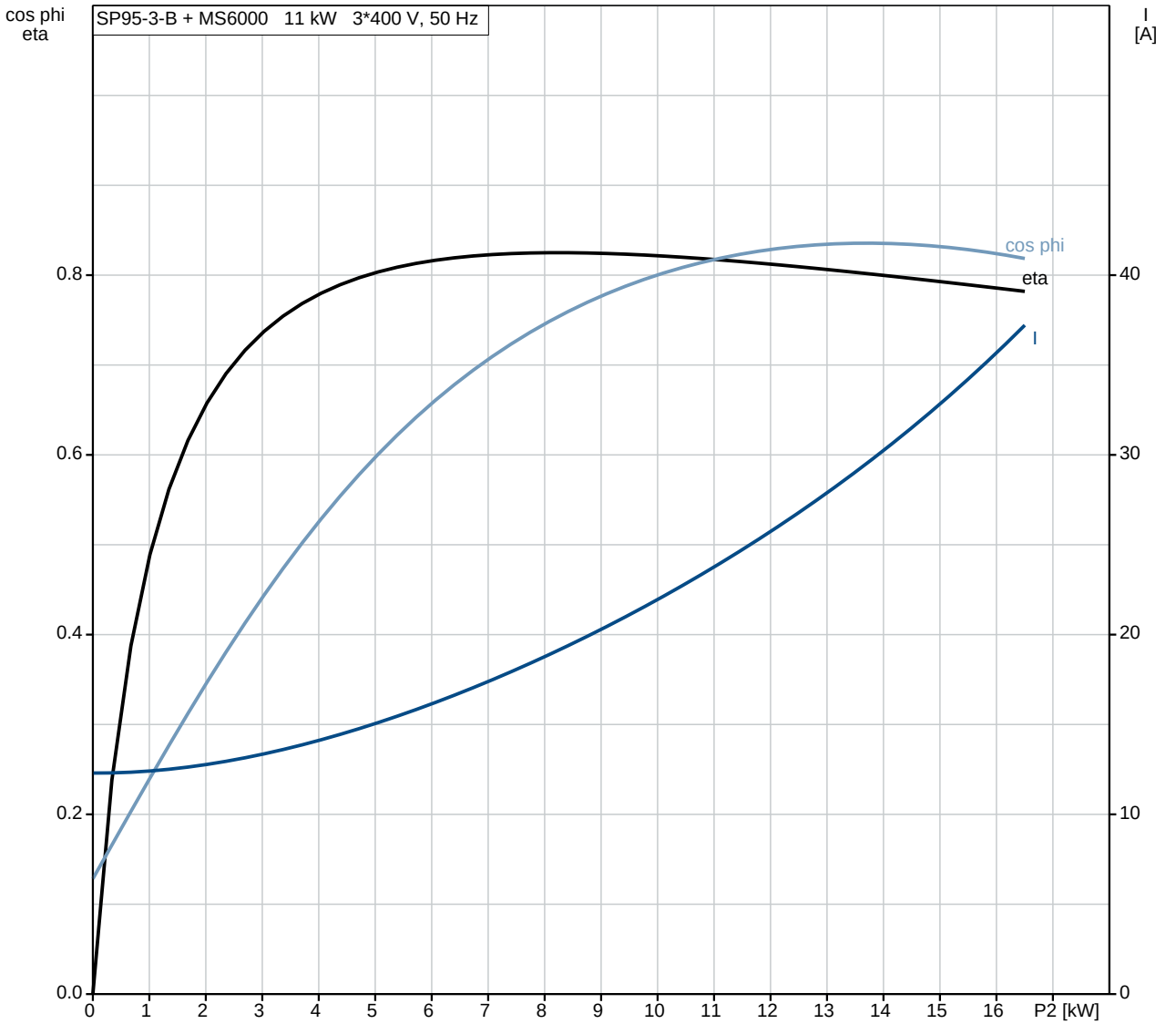
Date: 10/11/2020

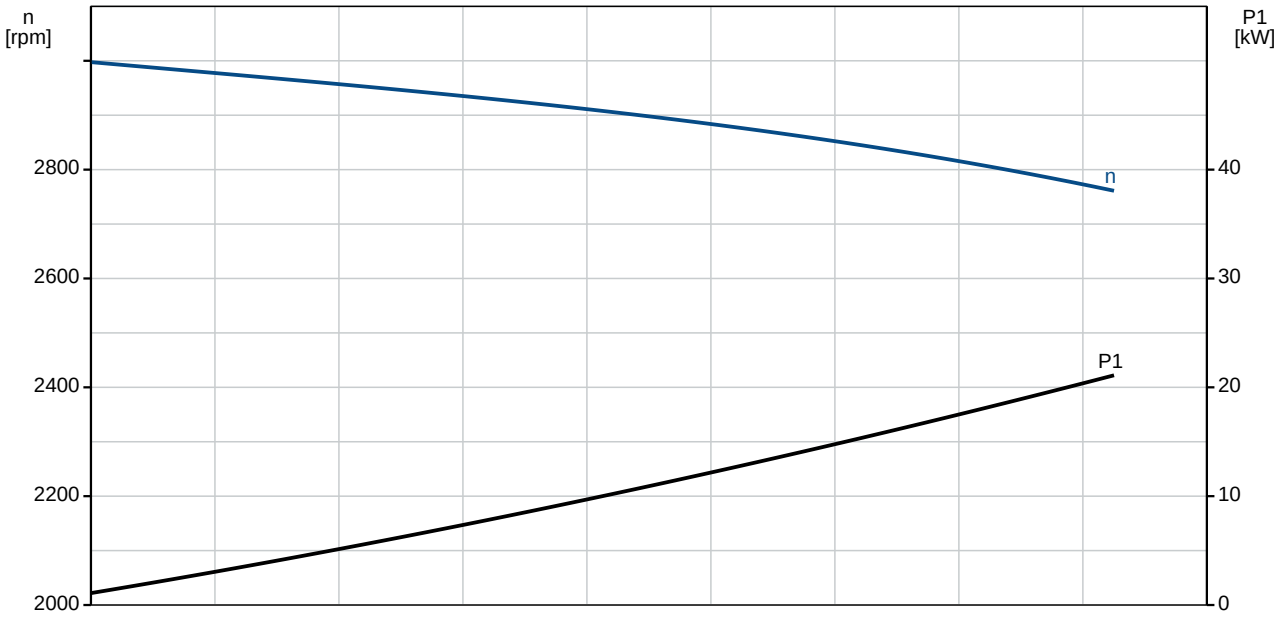
Description	Value
Net weight:	80 kg
Gross weight:	106 kg
Shipping volume:	0.2 m³
Country of origin:	GB
Custom tariff no.:	84137029

Company name:
Created by:
Phone:

Date: 10/11/2020

190019C3 SP 95-3-B 50 Hz

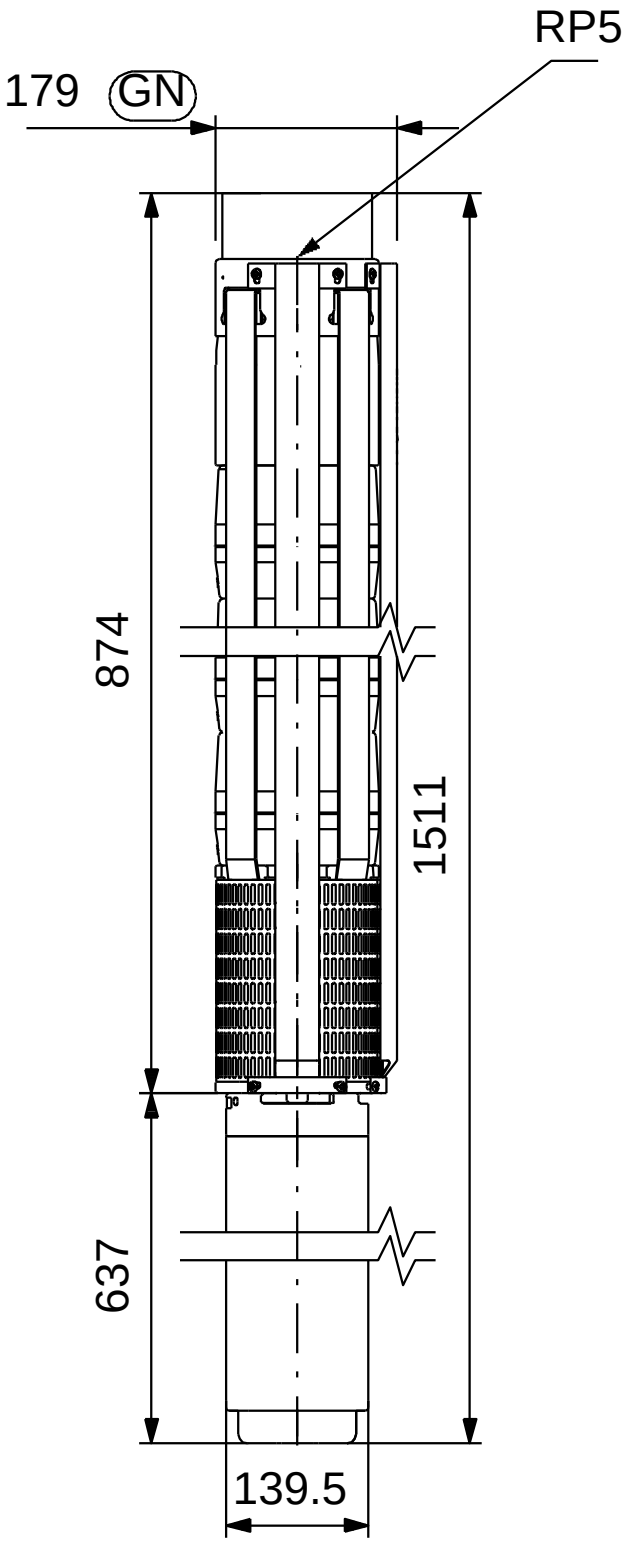




Company name:
Created by:
Phone:

Date: 10/11/2020

190019C3 SP 95-3-B 50 Hz

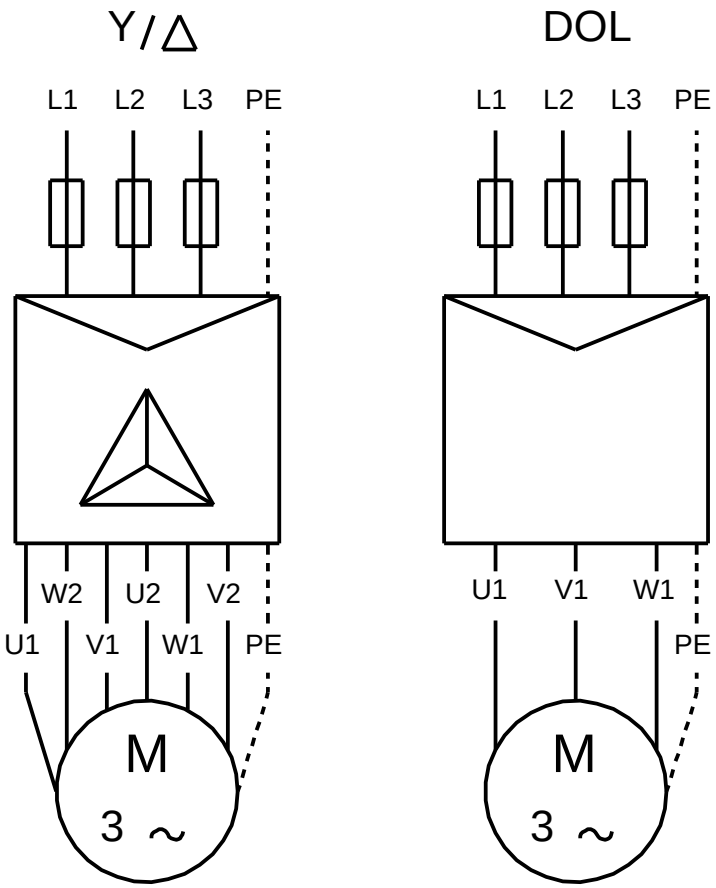


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Company name:
Created by:
Phone:

Date: 10/11/2020

190019C3 SP 95-3-B 50 Hz



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

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