

SP160- 2 Rp6 6"3X380-415/50 26kW

Grundfos Pump 20021902



Thank you for your interest in our products

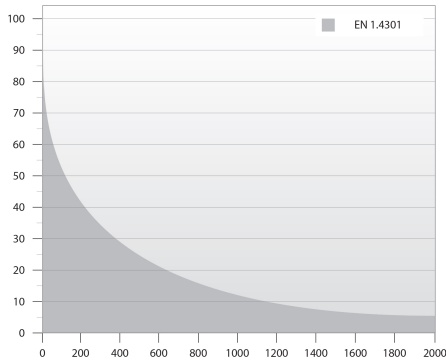
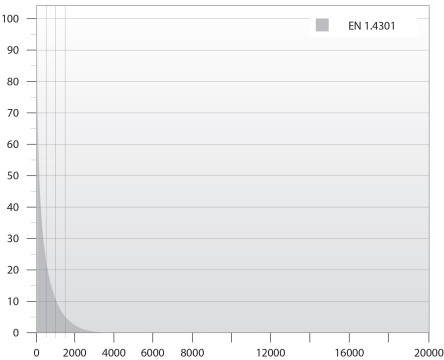
Please contact us for more information, or visit our website

<https://www.lenntech.com/grundfos/SPFAM/20021902/SP-160-2.html>

info@lenntech.com

tel. +31-15-261.09.00

fax. +31-15-261.62.89

Position	Qty.	Description
	1	SP 160-2  Product No.: 20021902 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 26 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/m ³

Technical:

Speed for pump data:	2900 rpm
Rated flow:	160 m ³ /h
Rated head:	40 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:

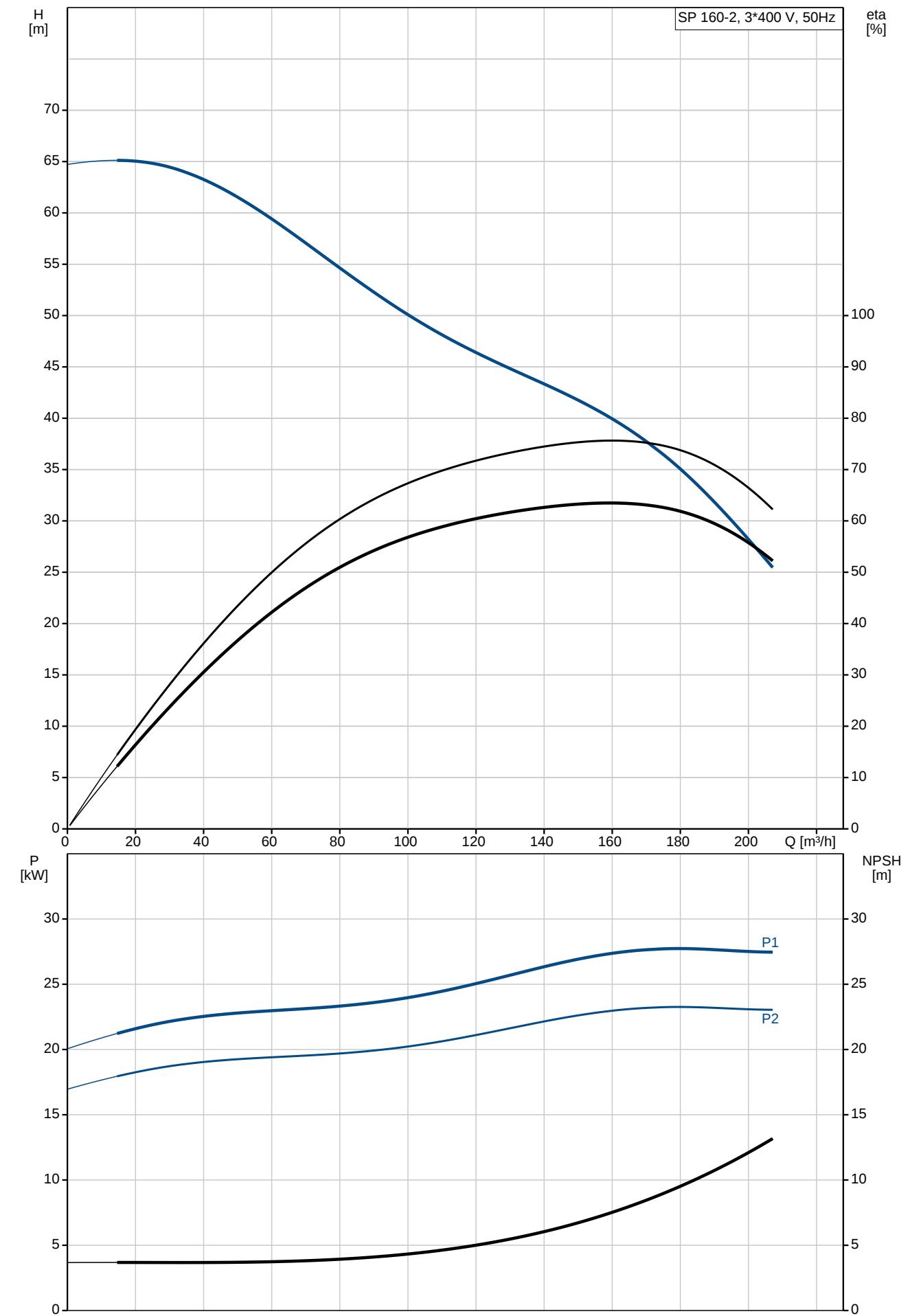
Pump outlet:	RP6
Motor diameter:	6 inch

Electrical data:

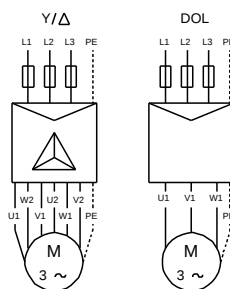
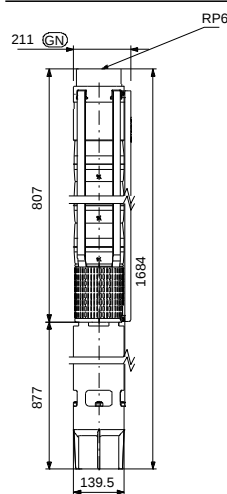
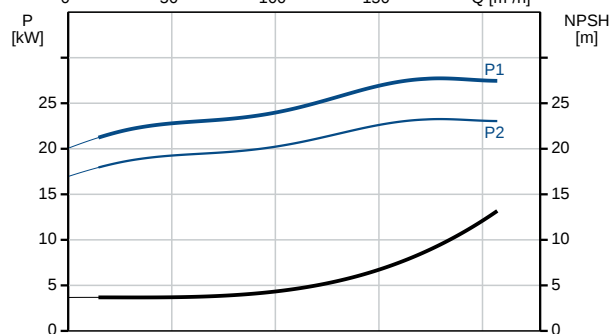
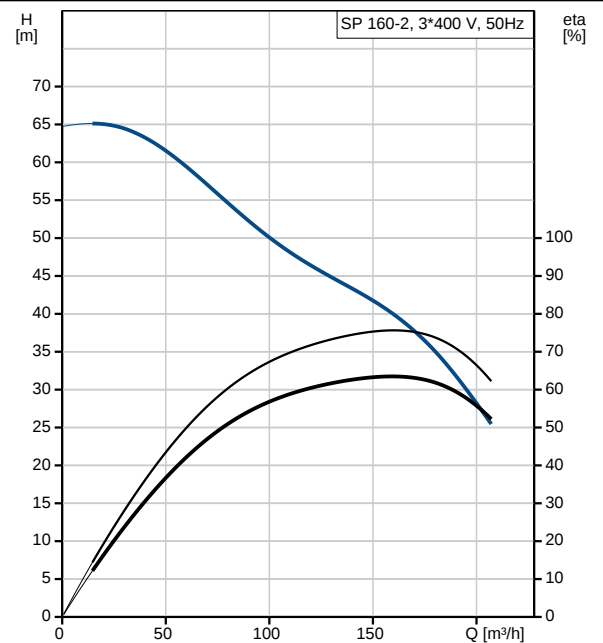
Motor type:	MS6000
Rated power - P2:	26 kW
Power (P2) required by pump:	26 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	58.0-55.5-55.0 A
Starting current:	480-530-560 %
Cos phi - power factor:	0.87-0.85-0.82
Rated speed:	2850-2870-2880 rpm
Start. method:	direct-on-line
Enclosure class (IEC 34-5):	IP68
Insulation class (IEC 85):	F
Built-in temp. transmitter:	yes

Position	Qty.	Description
		Others: Minimum efficiency index, MEI ≥: -- ErP status: EuP Standalone/Prod. Net weight: 113 kg Gross weight: 143 kg Shipping volume: 0.232 m³ Danish VVS No.: 388348320

20021902 SP 160-2 50 Hz

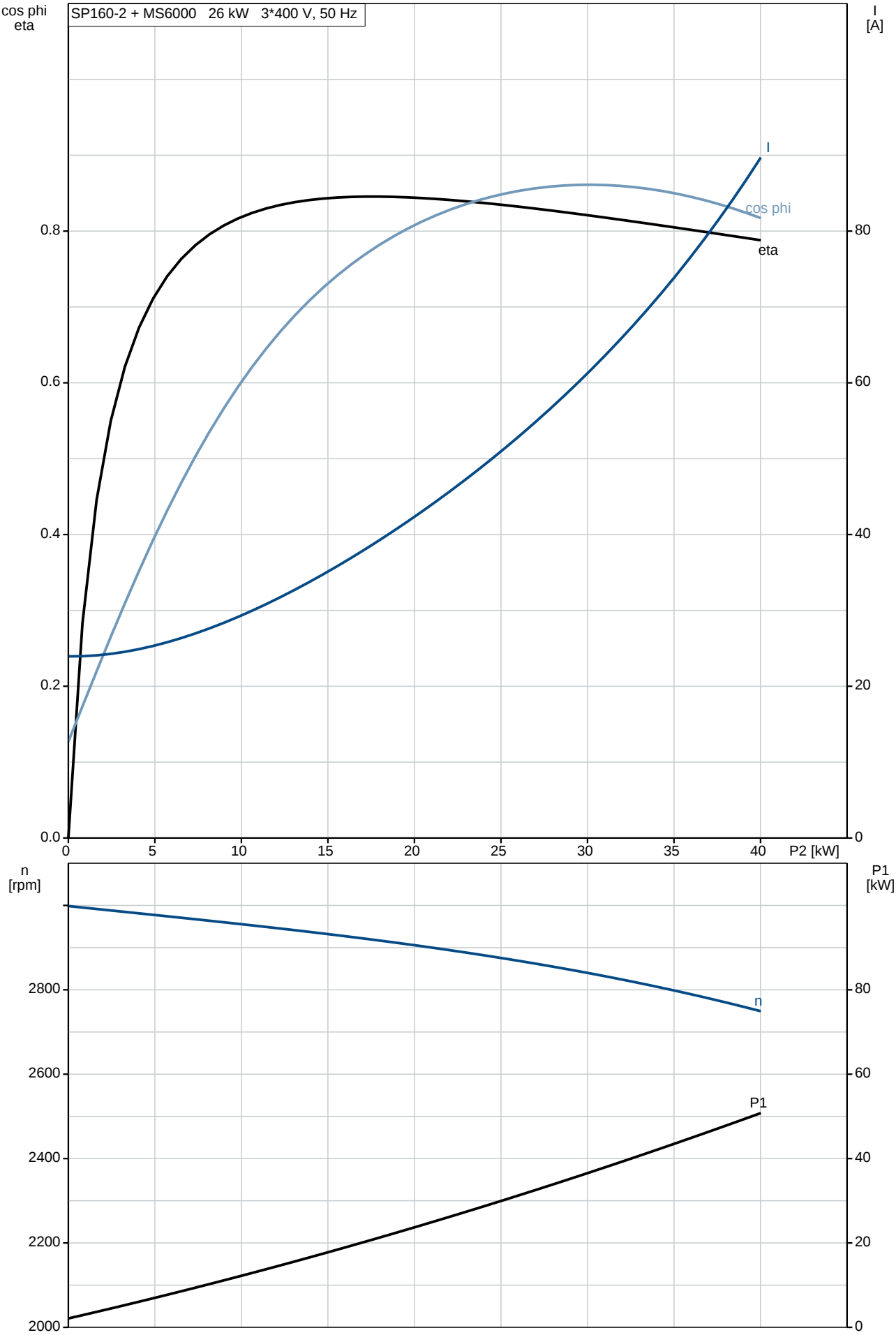


Description	Value
General information:	
Product name:	SP 160-2
Product No:	20021902
EAN number:	5700390113841
Technical:	
Speed for pump data:	2900 rpm
Rated flow:	160 m³/h
Rated head:	40 m
Stages:	2
Impeller reduc.:	NONE
Shaft seal for motor:	CER/CARNBR
Approvals on nameplate:	CE,GOST2
Curve tolerance:	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:	RP6
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:	26 kW
Power (P2) required by pump:	26 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-400-415 V
Rated current:	58.0-55.5-55.0 A
Starting current:	480-530-560 %
Cos phi - power factor:	0.87-0.85-0.82
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:	78195519
Others:	
Minimum efficiency index, MEI ≥:	---
ErP status:	EuP Standalone/Prod.
Net weight:	113 kg
Gross weight:	143 kg
Shipping volume:	0.232 m³
Danish VVS No.:	388348320

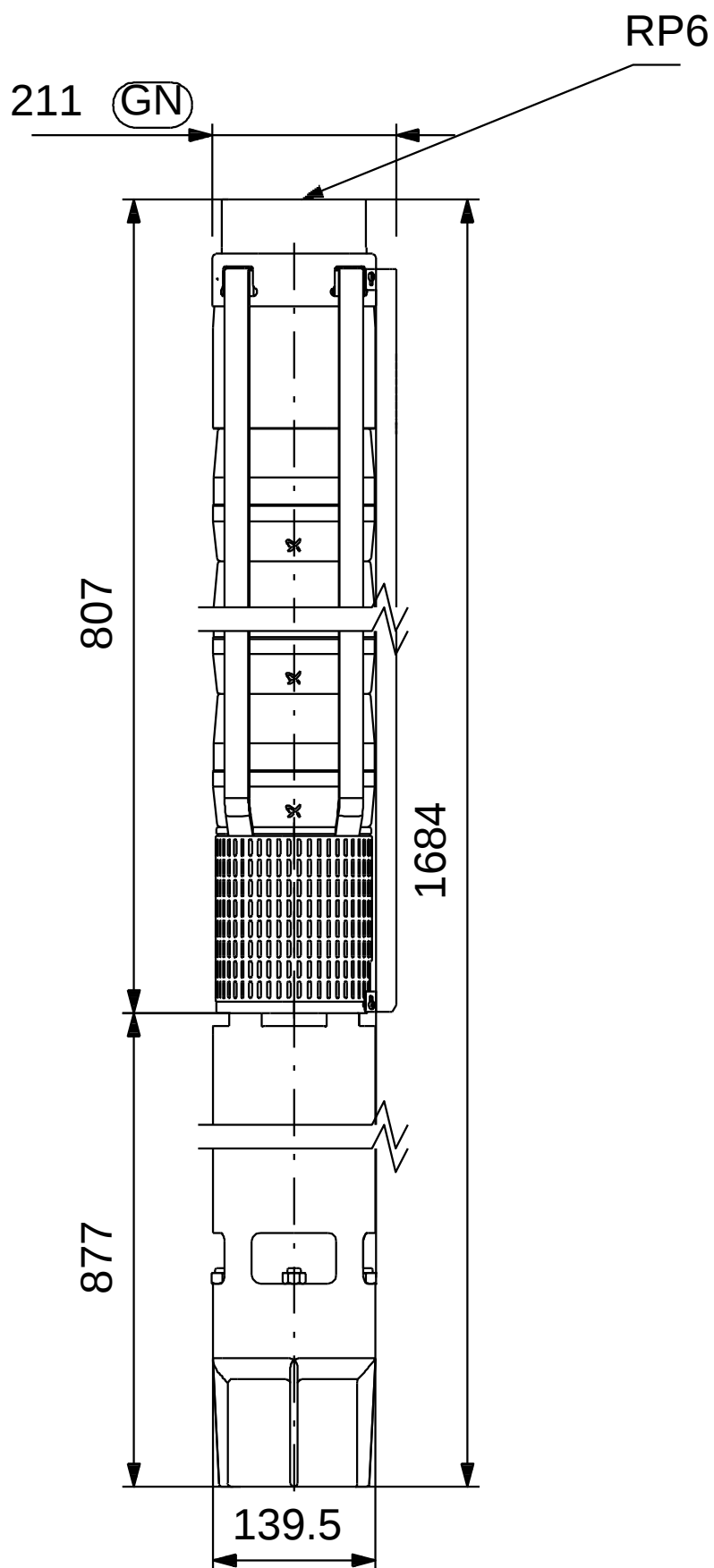


U1, W2	Brown
V1, U2	Black
W1, V2	Grey

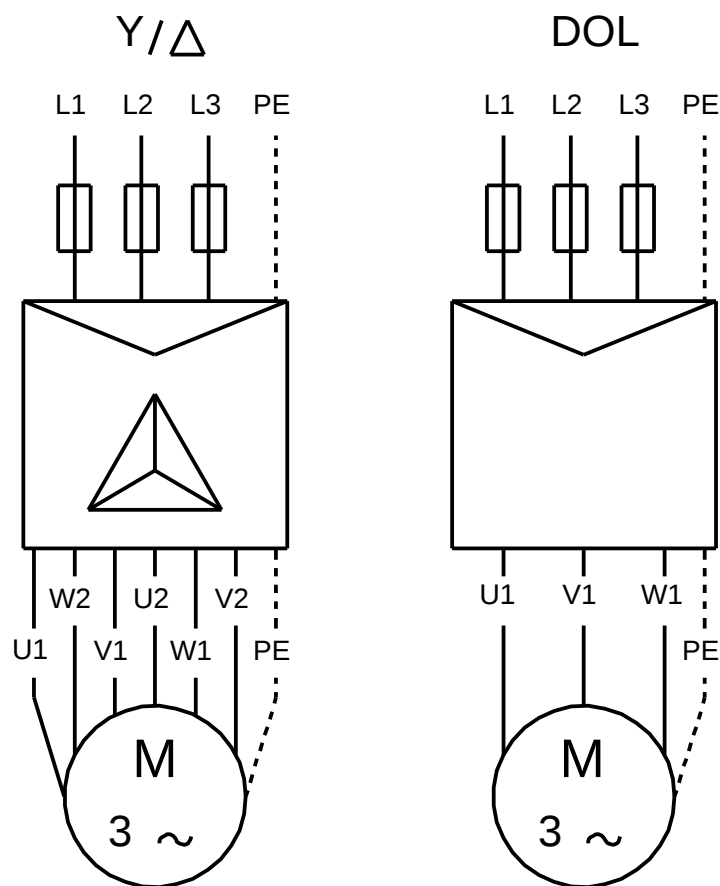
20021902 SP 160-2 50 Hz



20021902 SP 160-2 50 Hz



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



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

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

*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

www.lenntech.com

tel. +31-15-261.09.00

fax. +31-15-261.62.89