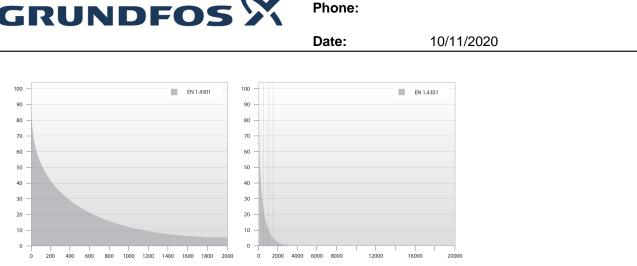
GRUNDFOS			
		D	
Qty.	Description		
1	SP 46-19		

Company name: Created by: Phone:

		Date:	10/11/2020		
y.					
1	SP 46-19				
	Note! Product picture m	ay differ from actual proc	łuct		
	Product No.: 15A01919				
	Submersible borehole pump, suitable for pumping clean components are made in stainless steel, EN 1.4301 (Als carries drinking water approval.	water. Can be instal SI 304), that ensures	led vertically or horizontally. All steel high corrosive resistance. This pump		
	The pump is fitted with a 30 kW MS6000 motor with san bearings and a volume compensating diaphragm. The n mechanical stability and high efficiency. Suitable for tem	notor is a canned type	e submersible motor offering good		
	The motor is fitted with the Grundfos Tempcon sensor the MP204 control panel, enables temperature monitoring.	nat, by use of powerli	ne communication together with a		
	The motor is for direct-on-line starting (DOL).	The motor is for direct-on-line starting (DOL).			
	Further product details   The pump is suitable for applications similar to the follow   - raw-water supply   - irrigation   - groundwater lowering   - pressure boosting   - fountain applications.   The Grundfos SP pump is renowned for its high efficient   Minimum Efficiency Index, and therefore Grundfos is an	cy and already comp	lies with the requirements of the ss within submersible pumps.		
	<b>Pump</b> All pump surfaces that are in contact with pumped liquid and wear-resistant. The corrosion diagram below shows temperature in Celsius (y-axis) and the concentration of	the capabilities of th	e pump and motor in relation to the		



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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.

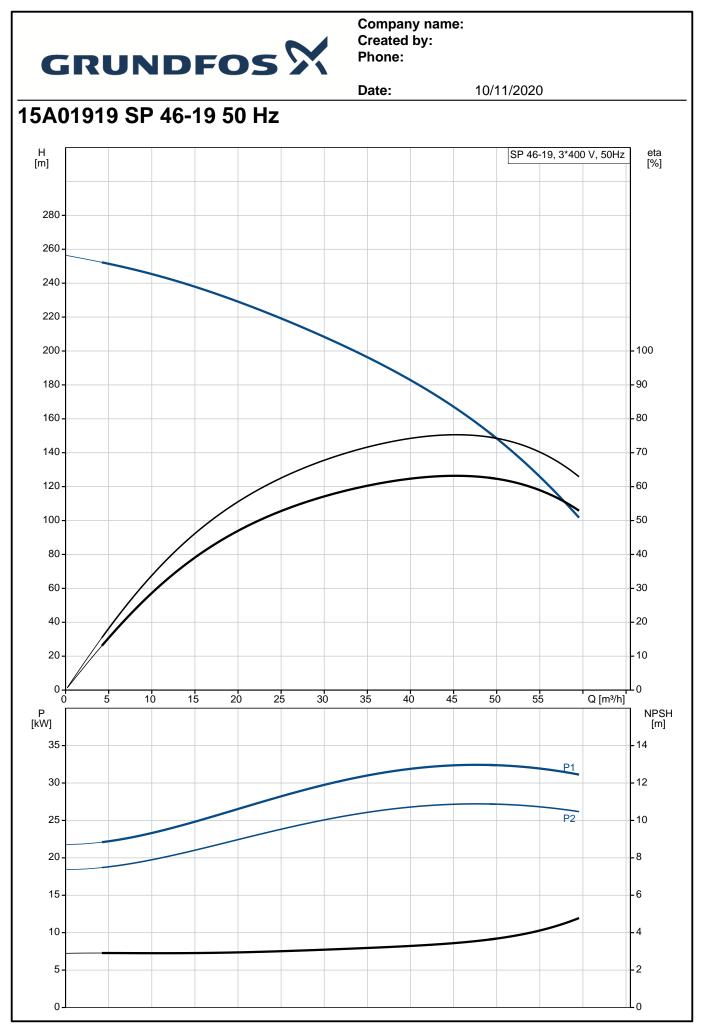


Liquid:			
Pumped liquid:	Water		
Maximum liquid temperature:	40 °C		
Max liquid t at 0.15 m/sec:	40 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Technical: Pump speed on which pump da Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate:	tta are based: 2900 rpm 46 m³/h 166 m CER/CARNBR CE,GOST2		



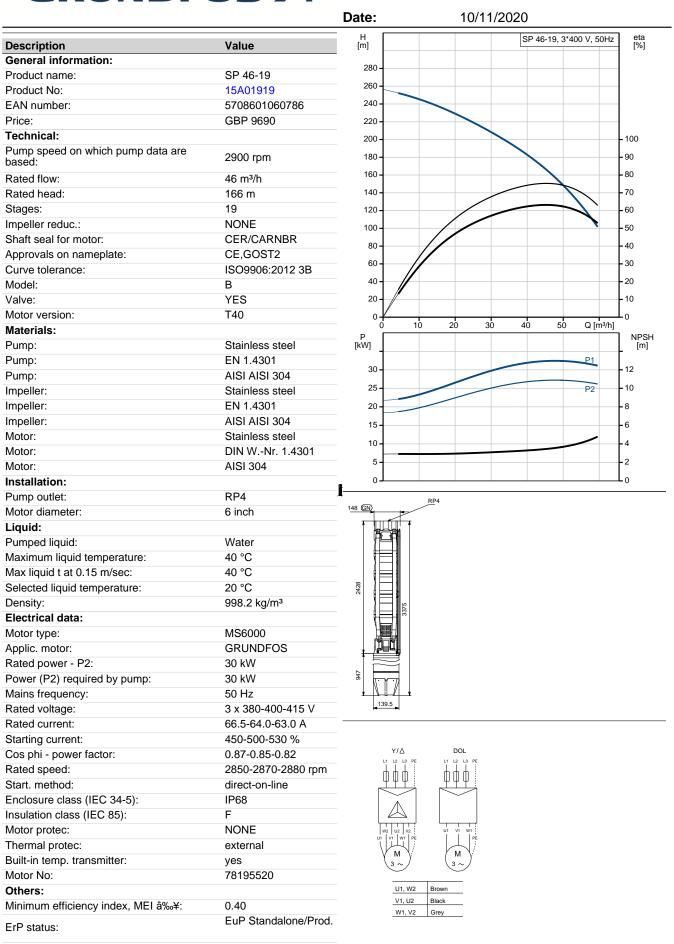
Company name:

GRUNDFO	os X	Created by: Phone: Date:	10/11/2020
Description		Date:	10/11/2020
Curve tolerance:	ISO9906:2012 3B		
Motor version:	T40		
Materials:	0		
Pump:	Stainless steel EN 1.4301		
	AISI AISI 304		
Impeller:	Stainless steel		
	EN 1.4301		
	AISI AISI 304		
Motor:	Stainless steel		
	DIN WNr. 1.4301 AISI 304		
	AISI 304		
Installation:			
Pump outlet:	RP4		
Motor diameter:	6 inch		
Electrical data:			
Motor type:	MS6000		
Rated power - P2:	30 kW		
Power (P2) required by pump:	30 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-400-415 V		
Rated current: Starting current:	66.5-64.0-63.0 A 450-500-530 %		
Cos phi - power factor:	450-500-530 % 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		
Motor No:	78195520		
Others:			
Minimum efficiency index, MEI			
ErP status:	EuP Standalone/Proc	d.	
Net weight: Gross weight:	132 kg 178 kg		
Shipping volume:	0.412 m <sup>3</sup>		
Danish VVS No.:	388340190		
Country of origin:	DK		
Custom tariff no.:	84137029		





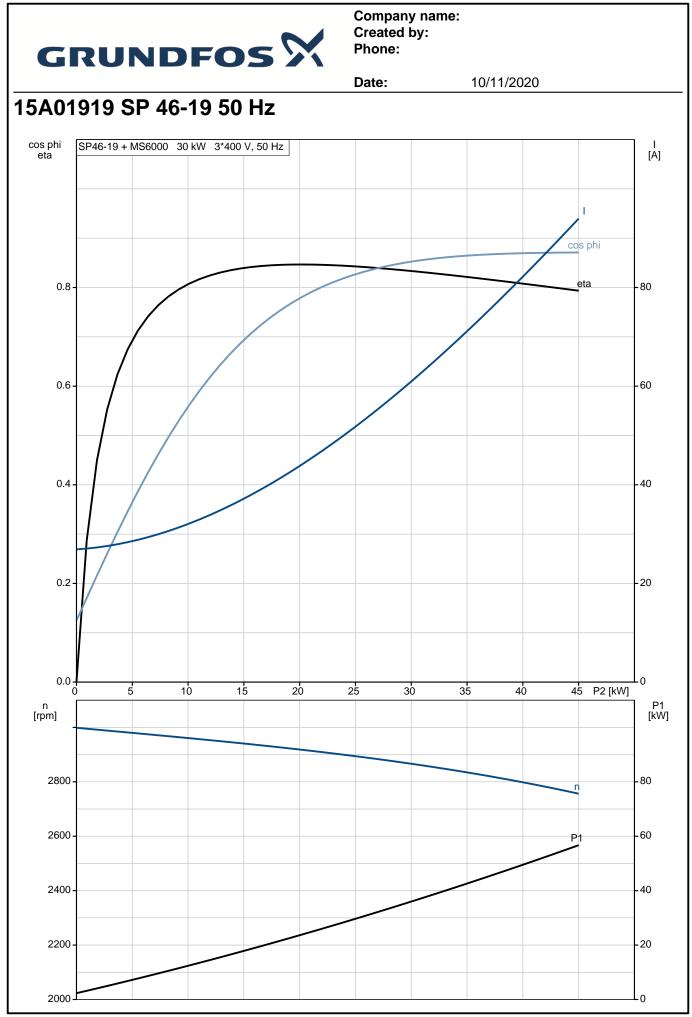
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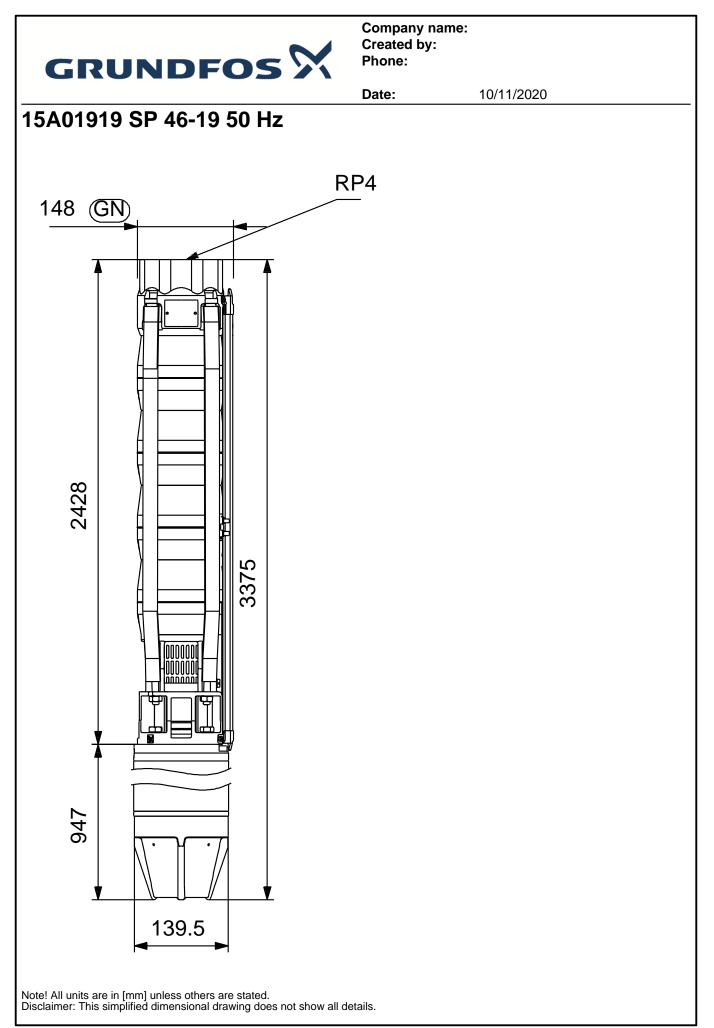


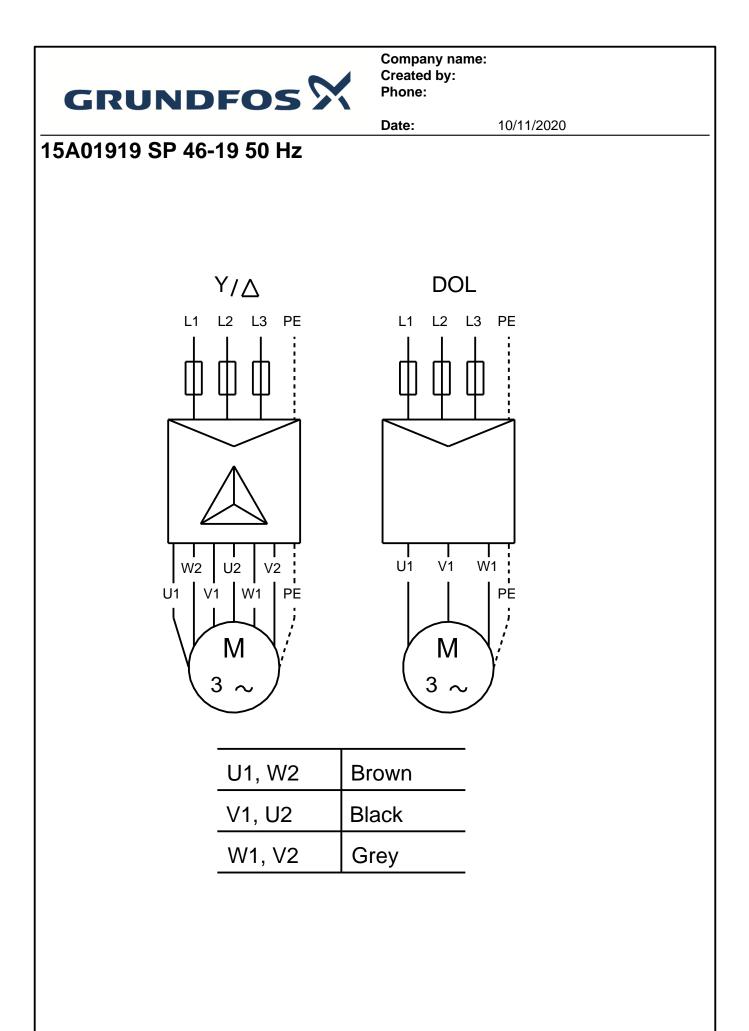
Company name: Created by: Phone:

		Date:	10/11/2020
Description	Value		
Net weight:	132 kg	-	
Gross weight:	178 kg		
Shipping volume:	0.412 m <sup>3</sup>		
Danish VVS No.:	388340190		
Country of origin:	DK		
Custom tariff no.:	84137029		



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