

			Date:	10/11/2020			
	Description						
	SP 160-2-AA						
	i i						
	No	e! Product pi	cture may differ from	actual product			
	Product No.: 200219B2						
	Submersible borebole nump, suitable s		u clean water. Car	n be installed vertically or horizontally. All			
	components are made in stainless ste	el, EN 1.430	01 (AISI 304), that	t ensures high corrosive resistance. This			
	carries drinking water approval.						
	The pump is fitted with a 18.5 kW MS6 bearings and a volume compensating	diaphragm.	With sand shield, i The motor is a ca	mechanical shaft seal, water-lubricated jo			
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).						
		(DOL).					
	Further product details						
	The pump is suitable for applications s	imilar to the	e following:				
	 raw-water supply irrigation 						
	- groundwater lowering						
	- pressure boosting						
	- fountain applications.						
	Pump All nump surfaces that are in contact w	ith numner	liquids are made	e in stainless steel which makes them corr			
	and wear-resistant. The corrosion diac	ram below	shows the capabi	ilities of the pump and motor in relation to			
	temperature in Celsius (y-axis) and the	e concentrat	tion of chloride in	ppm (x-axis).			
	100 EN 1.4301	100 -		EN 1.4301			
	90	90					
	70 -	70 -					
	60 —	60 -					
	50 -	50 -					
	40 -	40 —					
	30	30					
	10 -	10 -					
	0	0	a 4000 6000 2000				
	0 200 400 600 800 1000 1200 1400 1600 1800	2000 0 2000	0 4000 6000 8000 120	000 16000 20000			
		ade of NB	D (Nitrilo Putadian	a Pubbar) which ansures good wear			
	The elastomer parts in the pump are n		< (minie-Dulaulei	ie Rubbel) which ensures yoou wear			
	resistance and long service intervals.						
	resistance and long service intervals.	water with h	nigh content of hy	drocarbons or solvents, Grundfos offers F			
	resistance and long service intervals. In case the pump is used for pumping rubber parts (Fluorocarbon) which are The pump is built with octagonal beari	water with h oil and tem	nigh content of hy perature-resistant nd flush channels	drocarbons or solvents, Grundfos offers F			



10/11/2020

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.

Date:

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.

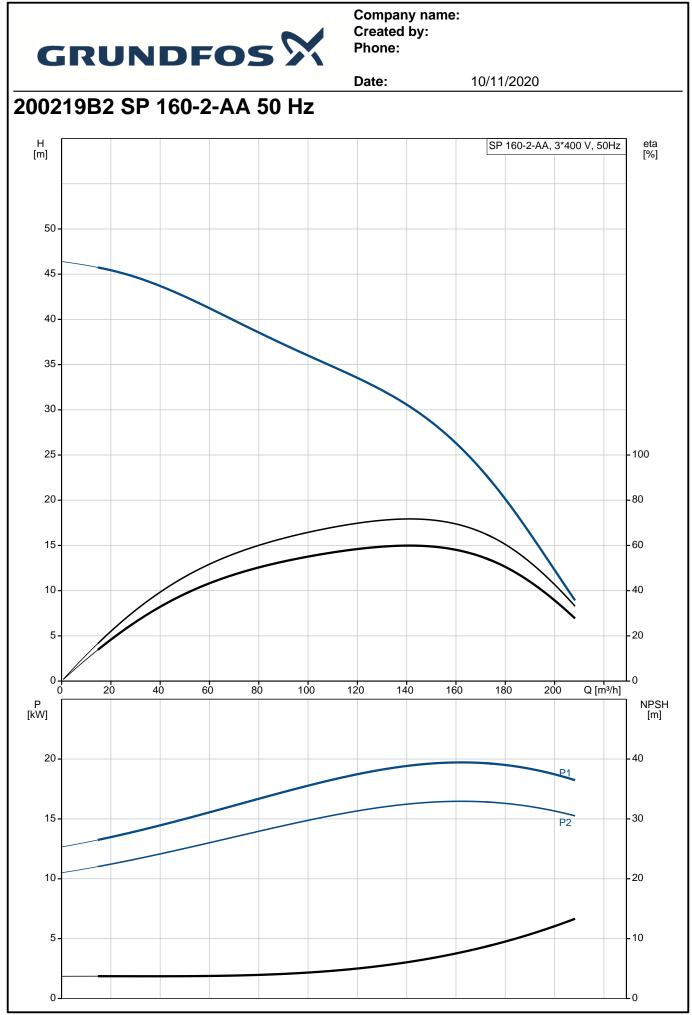
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Selected liquid temperature: Density:	Water 40 °C 40 °C 20 °C 998.2 kg/m³
Technical: Pump speed on which pump dat Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	a are based: 2900 rpm 160 m ³ /h 26 m CER/CARNBR CE,GOST2 ISO9906:2012 3B T40
Materials: Pump: Impeller: Motor:	Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Stainless steel DIN WNr. 1.4301 AISI 304
Installation: Pump outlet: Motor diameter: Electrical data: Motor type:	RP6 6 inch MS6000



GRUNDFO		Date:	10/11/2020
Description			
Rated power - P2:	18.5 kW		
Power (P2) required by pump:	18.5 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-400-415 V		
Rated current:	42.0-41.0-41.5 A		
Starting current:	510-560-580 %		
Cos phi - power factor:	0.85-0.82-0.79		
Rated speed:	2860-2880-2890 rpm		
Start. method:	direct-on-line		
Enclosure class (IEC 34-5):	IP68		
Insulation class (IEC 85):	F		
Built-in temp. transmitter:	yes		
Motor No:	78195517		
Others:			
Minimum efficiency index, MEI á	à‰¥:		
ErP status:	EuP Standalone/Proc	l.	
Net weight:	100 kg		
Gross weight:	126 kg		
Shipping volume:	0.2 m ³		
Danish VVS No.:	388348322		
Finnish LVI No.:	4762788		
Country of origin:	GB		
Custom tariff no.:	84137029		

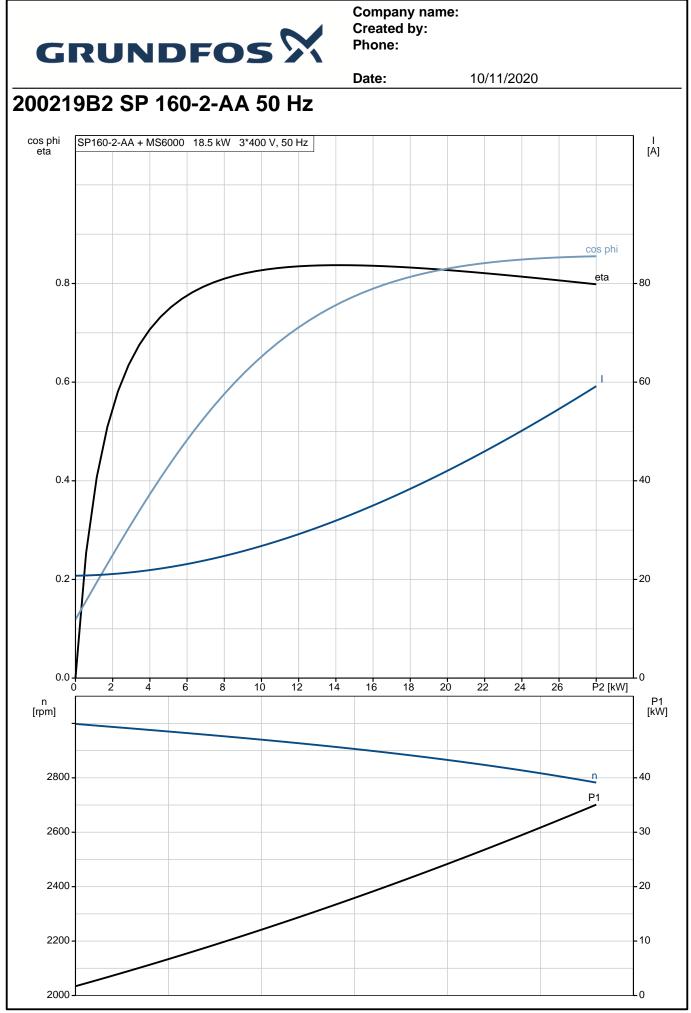




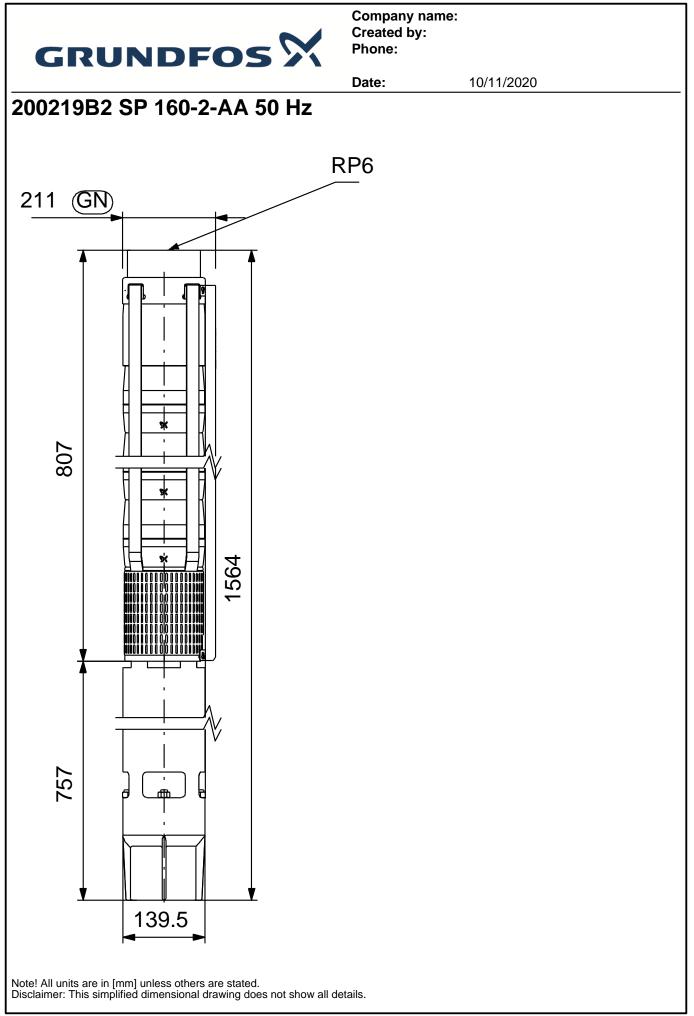
		Date:	10/11/2020
Description	Value	H [m]	SP 160-2-AA, 3*400 V, 50Hz [%]
General information:			
Product name:	SP 160-2-AA	50 -	
Product No:	200219B2	50-	
EAN number:	5700391177996	45	
Price:	GBP 6508		
Fechnical:	GDF 0300	40 -	
		25	
Pump speed on which pump data are ased:	2900 rpm	35 -	
Rated flow:	160 m³/h	30 -	
Rated head:	26 m	25 -	- 100
Stages:	2	-	
mpeller reduc.:	AA	20 -	- 80
Shaft seal for motor:	CER/CARNBR		
Approvals on nameplate:	CE,GOST2	15 -	60
Curve tolerance:	ISO9906:2012 3B	10-	40
Model:	B		
/alve:	YES	5-	- 20
Aotor version:	T40		
	140	0 - 12	50 100 150 Q [m³/h]
Materials:	Otalalat!	P [kW]	NPSH
Pump:	Stainless steel		[m]
^D ump:	EN 1.4301	20 -	-40
Pump:	AISI AISI 304		
mpeller:	Stainless steel	15-	P2 30
mpeller:	EN 1.4301		
mpeller:	AISI AISI 304	10-	- 20
Aotor:	Stainless steel		
Motor:	DIN WNr. 1.4301	5 -	10
Motor:	AISI 304		
nstallation:		0	0
Pump outlet:	RP6	<u> </u>	RP6
Motor diameter:	6 inch	2 <u>11 GN</u>	
_iquid:	0 11011		
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/m ³		
Electrical data:		16	
Motor type:	MS6000		
Applic. motor:	GRUNDFOS		
Rated power - P2:	18.5 kW		
Power (P2) required by pump:	18.5 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-400-415 V	139.5	
Rated current:	42.0-41.0-41.5 A		
Starting current:	510-560-580 %		
Cos phi - power factor:	0.85-0.82-0.79	Y/∆	DOL
Rated speed:	2860-2880-2890 rpm	L1 L2 L3 PE	L1 L2 L3 PE
Start. method:		фф	ФФФ
	direct-on-line		
Enclosure class (IEC 34-5):	IP68		
nsulation class (IEC 85):	F		
Motor protec:	NONE	W2 U2 V2 U1 V1 W1 PE	
Thermal protec:	external		M
Built-in temp. transmitter:	yes	(M 3 ~)	$\begin{pmatrix} M \\ 3 \end{pmatrix}$
Motor No:	78195517		
Others:		U1, W2	Brown
Minimum efficiency index, MEI ≥:		V1, U2	Black
ErP status:	EuP Standalone/Prod.	W1, V2	Grey

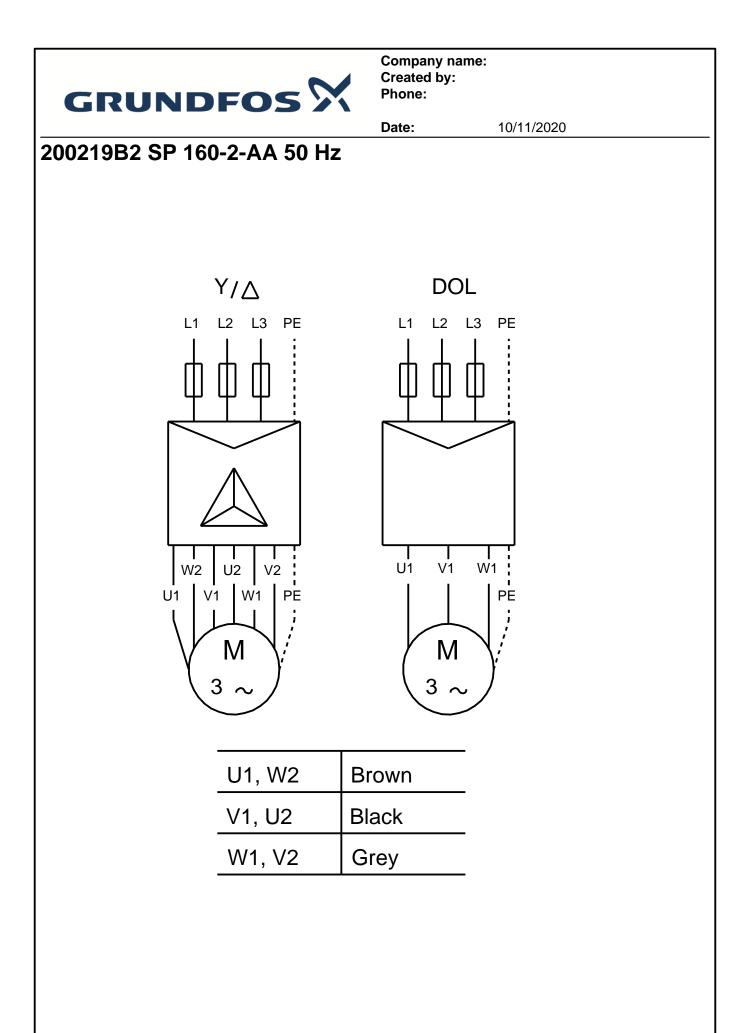


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Description	Value			
Net weight:	100 kg			
Gross weight:	126 kg			
Shipping volume:	0.2 m ³			
Danish VVS No.:	388348322			
Finnish LVI No.:	4762788			
Country of origin:	GB			
Custom tariff no .:	84137029			



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