

Descr					
	iption				
SP 16	0-2-A				
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	+ +				
	111				
		Netel Dredvet v		a stud was dust	
Produk	ct No.: 200219A2	Note! Product p	icture may differ from	actual product	
Tiouut	51 NO 2002 13AZ				
Subme	ersible borehole pump, s	uitable for pumping	g clean water. Car	h be installed vertically o	r horizontally. All s
	onents are made in stain drinking water approval		01 (AISI 304), tha	t ensures high corrosive	resistance. This p
	ump is fitted with a 22 kV		ith sand shield m	echanical shaft seal, wa	ter-lubricated journ
bearin	gs and a volume compe	nsating diaphragm.	. The motor is a ca	anned type submersible	motor offering goo
	inical stability and high e	•	•	•	
The m	otor is fitted with the Gru 4 control panel, enables	ndfos Tempcon se	ensor that, by use	of powerline communica	ation together with
	otor is for direct-on-line	•	onng.		
Furth	er product details				
	imp is suitable for applic	ations similar to th	. fallanda an		
1110 P	inp is suitable for applie		$rac{1}{1}$		
-	raw-water supply		e following:		
-	raw-water supply irrigation		e following:		
-	irrigation groundwater lowering		e following:		
- - -	irrigation groundwater lowering pressure boosting		e following:		
- - -	irrigation groundwater lowering pressure boosting fountain applications.		e following:		
- - - Pump	irrigation groundwater lowering pressure boosting fountain applications.		·	in stainless steel which	makes them corro
- - - Pump All pur and we	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros	ontact with pumper	d liquids are made shows the capabi	ilities of the pump and m	makes them corro
- - - Pump All pur and we	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c	ontact with pumper	d liquids are made shows the capabi	ilities of the pump and m	makes them corro
- - - Pump All pur and we	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros	ontact with pumper	d liquids are made shows the capabi	ilities of the pump and m	makes them corronotor in relation to t
- - - - All pur and we tempe	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros rature in Celsius (y-axis)	ontact with pumper ion diagram below and the concentra	d liquids are made shows the capabi	ilities of the pump and m ppm (x-axis).	makes them corro
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- - - - - - - - - - - - - - - - - - -	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros rature in Celsius (y-axis)	ontact with pumper ion diagram below and the concentra	d liquids are made shows the capabi	ilities of the pump and m ppm (x-axis).	makes them corro
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Pump All pur and we tempe	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros rature in Celsius (y-axis)	ontact with pumper ion diagram below and the concentra EN1.4301 100 90 90 70 90 90 70 90 90 90 90 90 90 90 90 90 90 90 90 90	d liquids are made shows the capabi tion of chloride in 20 4000 6000 8000 120 R (Nitrile-Butadier high content of hy	lities of the pump and m ppm (x-axis).	otor in relation to t
Pump All pur and we tempe	irrigation groundwater lowering pressure boosting fountain applications. D np surfaces that are in c ear-resistant. The corros rature in Celsius (y-axis)	ontact with pumper ion diagram below and the concentra EN1.4301 100 90 90 70 60 50 70 60 50 70 100 70 60 50 70 100 70 70 70 70 70 70 70 70 70 70 70 70 7	d liquids are made shows the capabi tion of chloride in 00 4000 6000 8000 120 R (Nitrile-Butadier high content of hy perature-resistant and flush channels	lities of the pump and m ppm (x-axis).	es good wear Grundfos offers Fl



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.

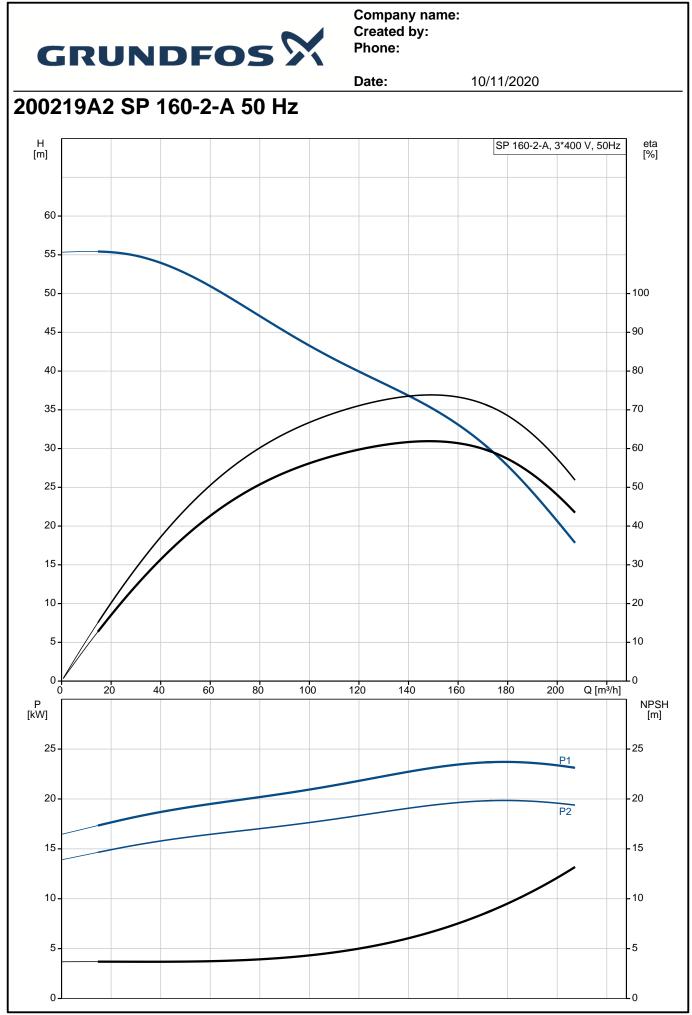


L Constant

Density: 998.2 kg/r	ղ ³
Technical:Pump speed on which pump data are baseRated flow:160 m³/hRated head:34 mShaft seal for motor:CER/CARApprovals on nameplate:CE,GOSTCurve tolerance:ISO9906:Motor version:T40	NBR 2
Materials: Pump: Stainless EN 1.430 AISI AISI Impeller: Stainless EN 1.430 AISI AISI Motor: Stainless DIN WN AISI 304	1 304 steel 1 304 steel
Installation: Pump outlet: RP6 Motor diameter: 6 inch Electrical data: Motor type: MS6000	



	GRUNDFO		Date:	10/11/2020	
<i>.</i>	Description				
	Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage:	22 kW 22 kW 50 Hz 3 x 380-400-415 V			
	Rated current: Starting current: Cos phi - power factor: Rated speed: Start. method:	49.5-47.5-46.5 A 480-530-560 % 0.86-0.84-0.82 2850-2870-2880 rpm direct-on-line			
	Enclosure class (IEC 34-5): Insulation class (IEC 85): Built-in temp. transmitter: Motor No:	IP68 F yes 78195518			
	Others:				
	Minimum efficiency index, MEI a ErP status: Net weight:	EuP Standalone/Proc 107 kg	ł.		
	Gross weight: Shipping volume: Danish VVS No.: Finnish LVI No.:	137 kg 0.232 m ³ 388348321 4762789			
	Country of origin: Custom tariff no.:	GB 84137029			

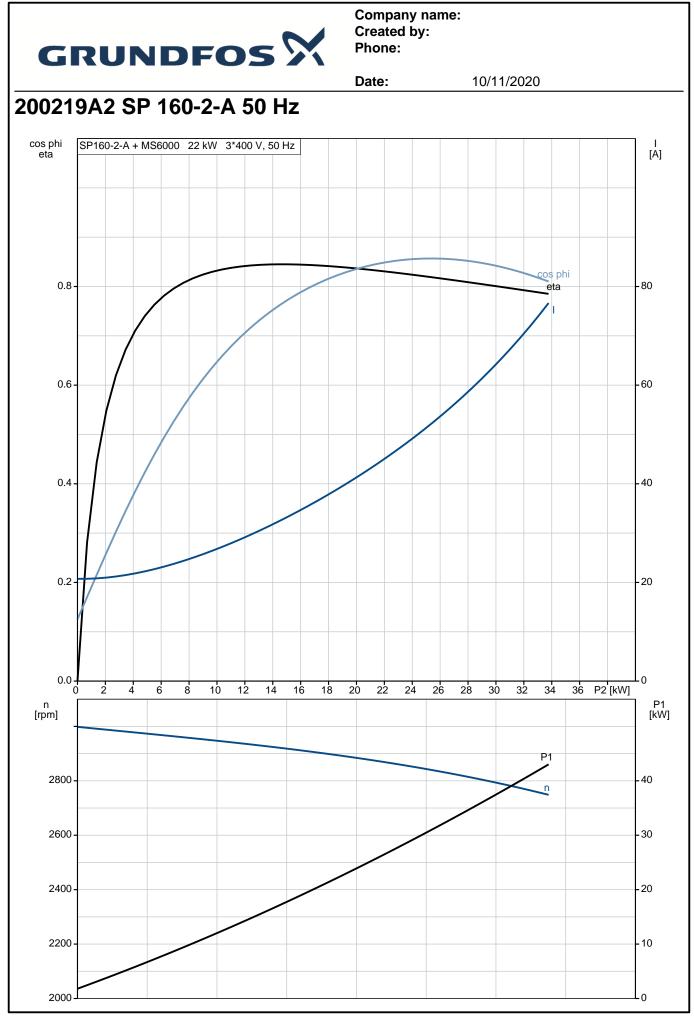




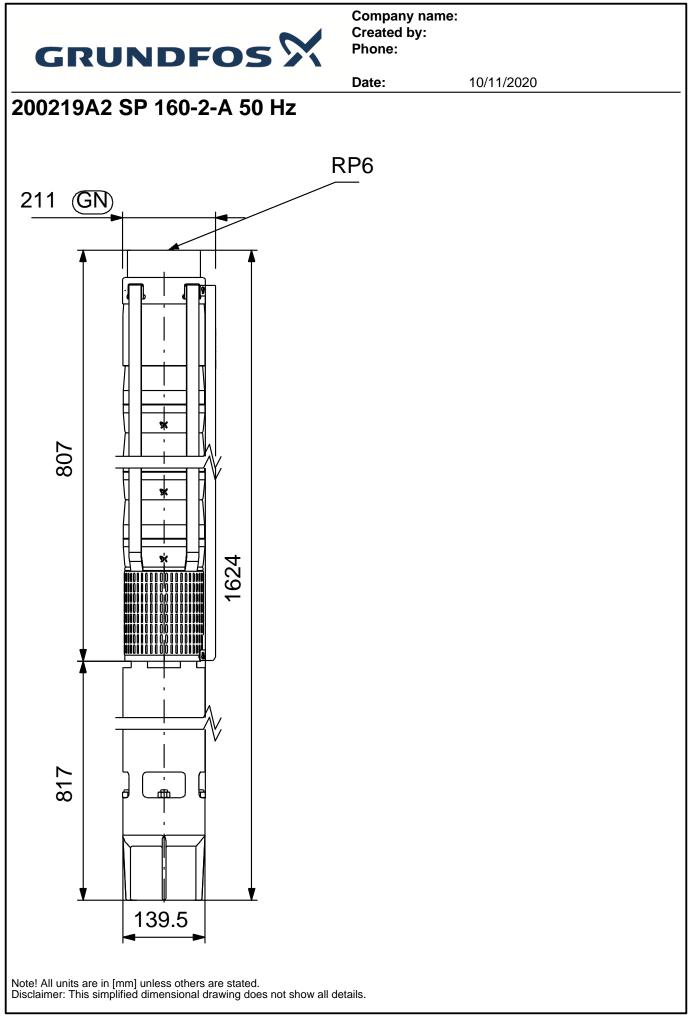
		Date:	10/1	1/2020		
Description	Value	H [m]		SP 160-2-A, 3*4	00 V, 50Hz	eta [%]
General information:						
Product name:	SP 160-2-A	60 -				
Product No:	200219A2	55				
EAN number:	5700391177743	55 -				
Price:	GBP 6953	50 -			- 1	100
	GBP 0953	45 -			-9	20
Technical:					- 5	.0
Pump speed on which pump data are based:	2900 rpm	40 -				30
Rated flow:	160 m³/h	35 -				70
Rated head:	34 m	30 -		\sim	-6	50
Stages:	2	25			5	-0
Impeller reduc.:	Α	25 -				50
Shaft seal for motor:	CER/CARNBR	20 -			-4	40
Approvals on nameplate:	CE,GOST2	45				30
		15-			- 3	50
Curve tolerance:	ISO9906:2012 3B	10-			- 2	20
Model:	B	_ //				10
Valve:	YES	5-			- 1	U
Motor version:	T40	0 <u>/</u>		0 150	0 [== 2/h])
Materials:		0 P	50 10	0 150	Q [m³/h]	NPSH
Pump:	Stainless steel	[kW]				MPSH [m]
Pump:	EN 1.4301	25 -			2	25
Pump:	AISI AISI 304					
Impeller:	Stainless steel	20 -			-2 P2	20
Impeller:	EN 1.4301	15-			- 1	15
Impeller:	AISI AISI 304	10				0
Motor:	Stainless steel	10				0
Motor:	DIN WNr. 1.4301	5 -			- 5	5
Motor:	AISI 304					
Installation:		0			O)
Pump outlet:	RP6	l	RP6			
Motor diameter:	6 inch	2 <u>11 GN</u>				
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/m ³					
Electrical data:		16				
Motor type:	MS6000	╡ <u></u>				
Applic. motor:	GRUNDFOS					
Rated power - P2:	22 kW					
Power (P2) required by pump:	22 kW					
Mains frequency:	50 Hz					
		139.5				
Rated voltage:	3 x 380-400-415 V	HH				
Rated current:	49.5-47.5-46.5 A					
Starting current:	480-530-560 %					
Cos phi - power factor:	0.86-0.84-0.82	Y/∆ L1 L2 L3 PE	DOL L1 L2 L3 PE			
Rated speed:	2850-2870-2880 rpm	<u>н</u> н н 1	<u>н</u> н н і			
Start. method:	direct-on-line		ЩЩЩ			
Enclosure class (IEC 34-5):	IP68					
Insulation class (IEC 85):	F					
	NONE	W2 U2 V2				
Motor protec:		W2 U2 V2 U1 V1 W1 PE	U1 V1 W1			
Thermal protec:	external	M	M			
Built-in temp. transmitter:	yes	(3~)	(3~)			
Motor No:	78195518	<u> </u>				
Others:		U1, W2	Brown			
Minimum efficiency index, MEI ≥:	-,	V1, U2	Black			
	EuP Standalone/Prod.	W1, V2	Grey			
ErP status:						

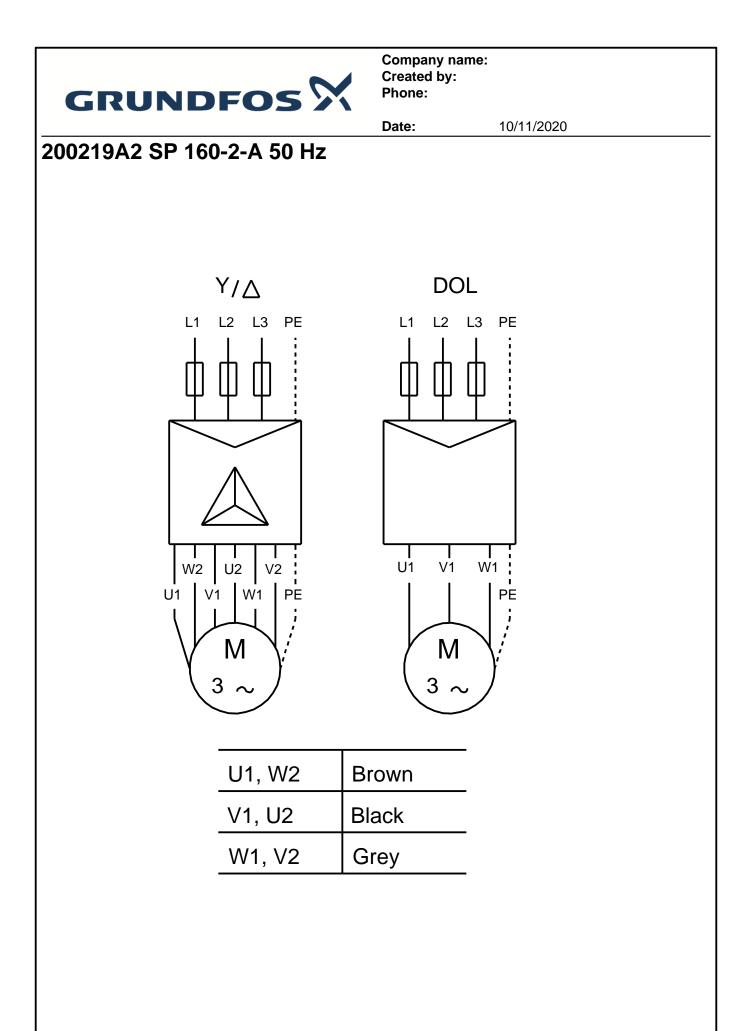


		Date:	10/11/2020	
Description	Value			
Net weight:	107 kg			
Gross weight:	137 kg			
Shipping volume:	0.232 m ³			
Danish VVS No.:	388348321			
Finnish LVI No.:	4762789			
Country of origin:	GB			
Custom tariff no .:	84137029			



Printed from Grundfos Product Centre [2020.10.020]





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