	GRUNDFOS			
		Da		
Qty.	Description			
1	SP 17-53			

	scription 17-53					
SP	17-53					
		! Produc	ct picture may differ from act	tual product		
Pro	oduct No.: 12A41953					
con	omersible borehole pump, suitable fo nponents are made in stainless steel ries drinking water approval.	r pump , EN 1	bing clean water. Can be 4301 (AISI 304), that ei	e installed v nsures high	ertically or horizontally. All steel corrosive resistance. This pump	
The pump is fitted with a 30 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.						
MP	e motor is fitted with the Grundfos Te 204 control panel, enables temperat e motor is for direct-on-line starting (I	ure mo	sensor that, by use of p nitoring.	powerline co	ommunication together with a	
The Min	rther product details e pump is suitable for applications sir - raw-water supply - irrigation - groundwater lowering - pressure boosting - fountain applications. e Grundfos SP pump is renowned for himum Efficiency Index, and therefore	· its hig	h efficiency and already	/ complies v t in class wi	vith the requirements of the ithin submersible pumps.	
All	mp pump surfaces that are in contact with d wear-resistant. The corrosion diagra- pperature in Celsius (y-axis) and the	am bel	ow shows the capabilitie	es of the pu	teel which makes them corrosion- mp and motor in relation to the	
100 —	EN 1.4301	100 -		EN 1.4301		
90 -		90				
80 -		80 — 70 —				
60 -		60				
50 —		50 —				
40 —		40 —				
30 —		30 —				
20 -		20 —				

0 2000 4000 6000 8000 12000

16000

20000

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200 400 600 800 1000 1200 1400 1600 1800 2000

0 +



10/11/2020

Qty. | Description

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.

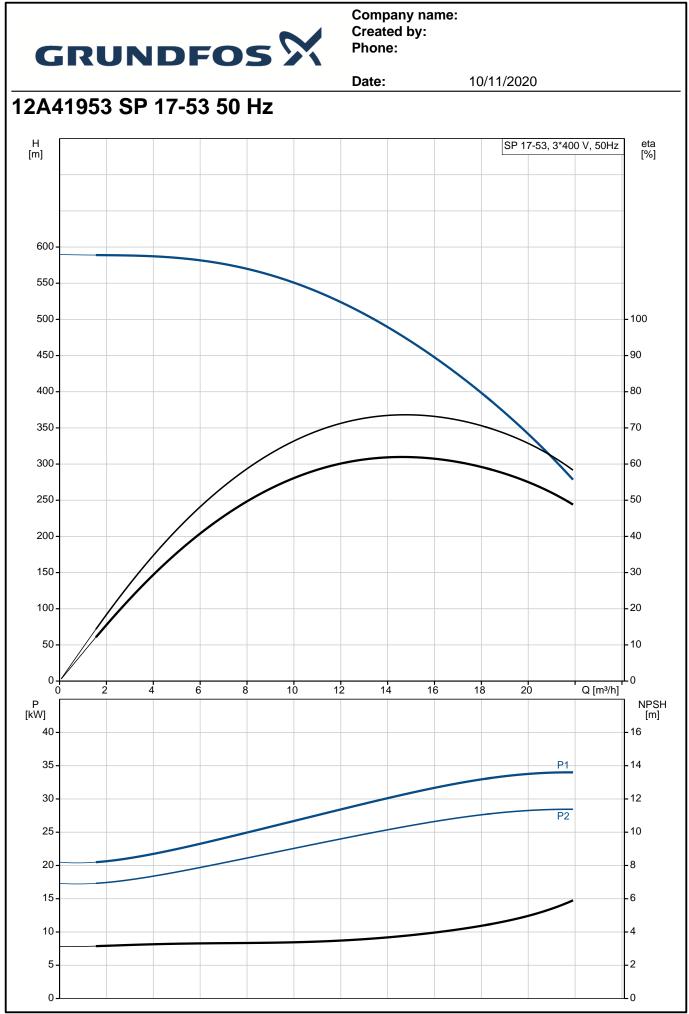
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



Liquid: Pumped liquid: 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/m ³
Technical: Pump speed on which pump dat Rated flow: Rated head: Shaft seal for motor: Approvals on nameplate: Curve tolerance: Motor version:	ta are based: 2900 rpm 17 m ^{3/h} 437 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



			Date:	10/11/2020	
	Description				
Ι	Installation:				
	Pump outlet:	R3			
	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:	66.5-64.0-63.0 A			
	Starting current:	450-500-530 %			
	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:				
	Motor No:	yes 78195520			
	MOIOLINO.	76195520			
	Others:				
	Minimum efficiency index, MEI á	à‰¥· 0.70			
	ErP status:	EuP Standalone/Proc			
	Net weight:	193 kg	•		
	Gross weight:	261 kg			
	Shipping volume:	0.539 m ³			
	Country of origin:	DK			
	Custom tariff no.:	84137029			
	Custom tann no	04137023			



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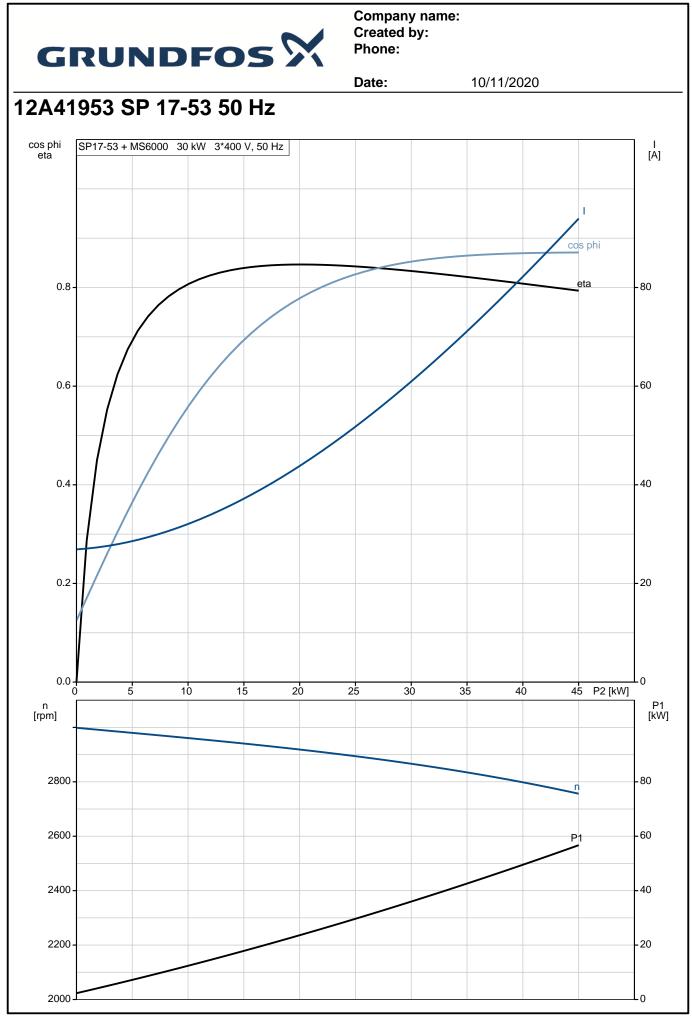


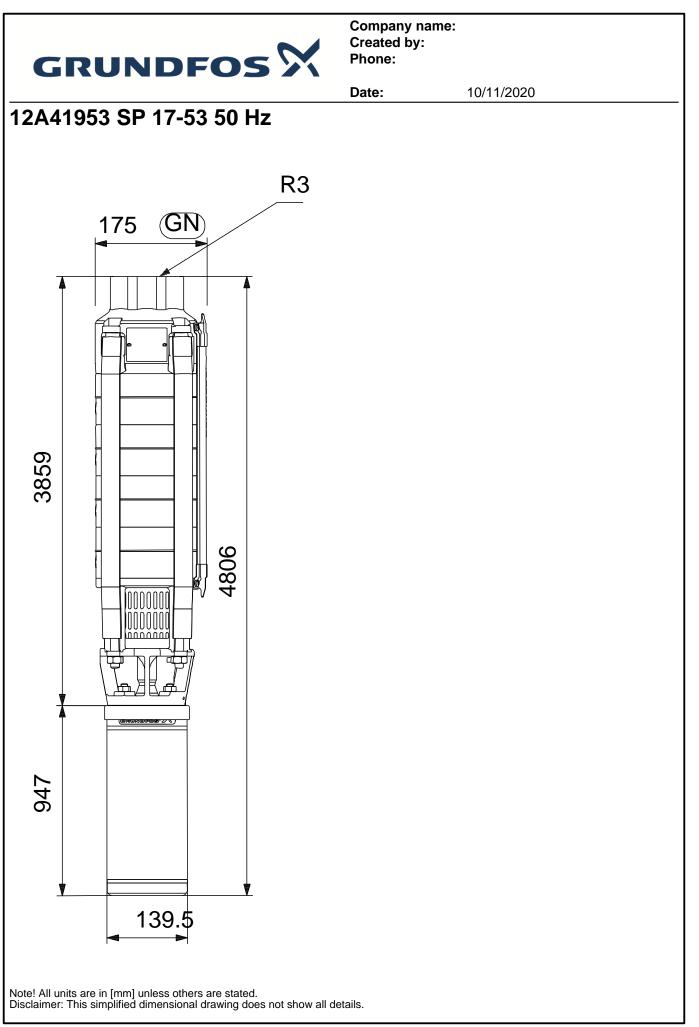
		н		SP 17-53, 3*4		eta
Description	Value	[m]		SP 17-53, 3*4	400 V, 50HZ	[%]
General information:						
Product name:	SP 17-53					
Product No:	12A41953	600 -				
EAN number:	5700395588835	550 -				
Technical:		500 -				- 100
Pump speed on which pump data are based:	2900 rpm	450 -				- 90
Rated flow:	17 m³/h	400 -				- 80
Rated head:	437 m	350 -				- 70
Stages:	53	200				<u></u>
Impeller reduc.:	NONE	300 -				- 60
Shaft seal for motor:	CER/CARNBR	250 -				- 50
Approvals on nameplate:	CE,GOST2	200 -				- 40
Curve tolerance:	ISO9906:2012 3B	150				- 30
Model:	В					
Valve:	YES	100				- 20
Motor version:	T40	50-				- 10
Materials:	-	•				Lo
Pump:	Stainless steel	Ó	5 10	15	Q [m³/h]	
Pump:	EN 1.4301	P [kW]				NPSH [m]
Pump:	AISI AISI 304				P1	
Impeller:	Stainless steel	35 -			P1	- 14
Impeller:	EN 1.4301	30 -				- 12
Impeller:	AISI AISI 304	25 -			P2	- 10
		20				- 8
Motor:	Stainless steel	15	-			-6
Motor:	DIN WNr. 1.4301	10 -				-4
Motor:	AISI 304	5-				-2
Installation:						
Pump outlet:	R3	0				L ₀
Motor diameter:	6 inch	<u>R</u>	3			
Liquid:		175 GN				
Pumped liquid:	Water					
Maximum liquid temperature:	40 °C	A A A A A A A A A A A A A A A A A A A				
Max liquid t at 0.15 m/sec:	40 °C					
Selected liquid temperature:	20 °C	3829				
Density:	998.2 kg/m ³					
Electrical data:						
Motor type:	MS6000					
Applic. motor:	GRUNDFOS					
Rated power - P2:	30 kW					
Power (P2) required by pump:	30 kW	947				
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-400-415 V					
Rated current:	66.5-64.0-63.0 A	139.5				
Starting current:	450-500-530 %					
Cos phi - power factor:	0.87-0.85-0.82					
Rated speed:	2850-2870-2880 rpm	Y/Δ	DOL			
Start. method:	direct-on-line					
Enclosure class (IEC 34-5):	IP68	ΦΦΦ	<u> </u>			
Insulation class (IEC 85):	F					
Motor protec:	NONE					
Thermal protec:	external	W2 U2 V2	U1 V1 W1			
Built-in temp. transmitter:	yes					
Motor No:	78195520	M	M			
Others:	10193320	3~	3~			
	0.70	U1, W2	Brown			
Minimum efficiency index, MEI ≥: ErP status:	0.70 EuP Standalone/Prod.	<u>V1, U2</u> W1, V2	Black Grey			
Net weight:	193 kg					

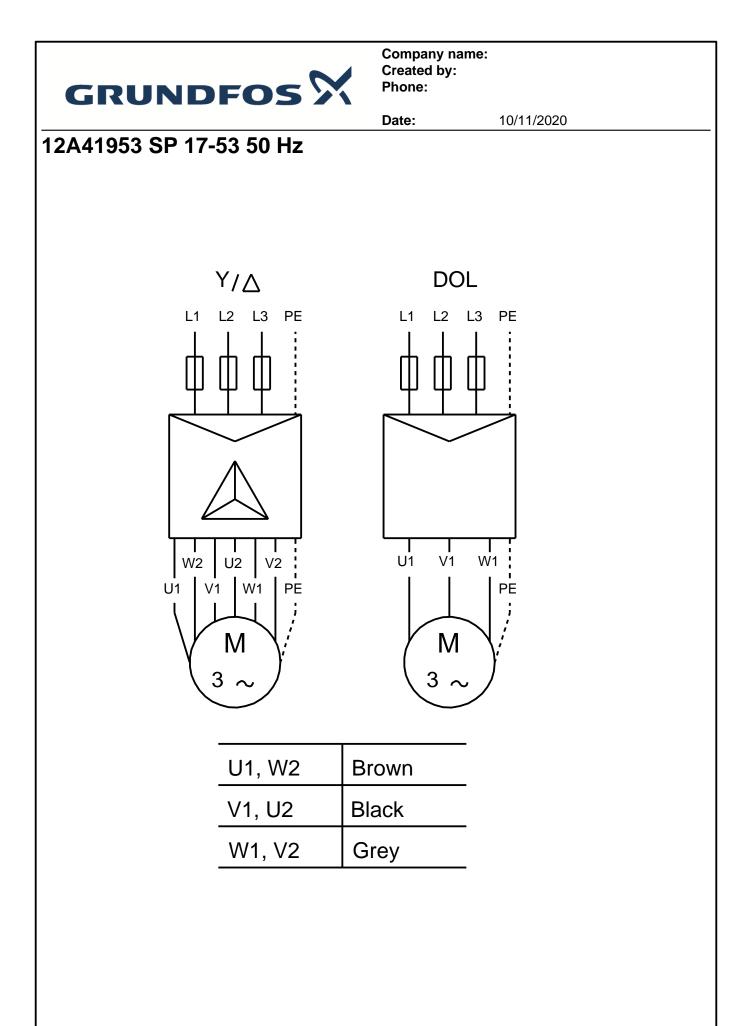
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		Date:	10/11/2020
Description	Value		
Gross weight:	261 kg	-	
Shipping volume:	0.539 m³		
Country of origin:	DK		
Custom tariff no.:	84137029		







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