

I			Date:	10/11/2020		
	Description					
\$	SP 77-6					
	11 A					
	U. I.	Notal Braduat pic	ture may differ from a	notual product		
F	Product No.: 16A01906		aure may unter from a			
\$	Submersible borehole pump, suitab	le for pumping	clean water. Can	be installed vertically or horizontally. All si ensures high corrosive resistance. This p		
0	arries drinking water approval.	SIEEI, LIN 1.430	(AISI 304), IIIat	ensures high corrosive resistance. This p		
-	he pump is fitted with a 22 kW MS	6000 motor wit	th sand shield, me	chanical shaft seal, water-lubricated journ		
r	pearings and a volume compensatil nechanical stability and high efficie	ng diaphragm. ncv. Suitable fo	I he motor is a cai or temperatures ut	nned type submersible motor offering goo o to 40 °C.		
-	The motor is fitted with the Grundfo	s Tempcon ser	nsor that, by use o	f powerline communication together with a		
	/IP204 control panel, enables temp		ring.			
	The motor is for direct-on-line starting (DOL).					
	Further product details					
	he pump is suitable for application	s similar to the	following:			
	- raw-water supply					
	 irrigation groundwater lowering 					
	- pressure boosting					
	- fountain applications.					
	Pump	t with numped	liquide are made	in stainless steel which makes them corro		
á	and wear-resistant. The corrosion d	iagram below s	shows the capabili	ties of the pump and motor in relation to the		
	emperature in Celsius (y-axis) and	the concentrat	ion of chloride in p	ppm (x-axis).		
t	00 EN 1.43	01 100				
				EN 1.4301		
	90 -	90 -		EN 1.4301		
	80 -	80 -		EN 1.4301		
	-			EN 1.4301		
	80	80		EN 1.4301		
				EN 1.4301		
		80		EN 1.4301		
				EN 1.4301		
-	80 70 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 40 50 50 40 50 50 40 50 50 50 50 50 50 50 50 50 5	a a a a a a a a a a a a a a a a a a a				
- r	The elastomer parts in the pump arresistance and long service interval	e made of NBF 5.	R (Nitrile-Butadiene	e Rubber) which ensures good wear		
- r	The elastomer parts in the pump arresistance and long service interval	e made of NBFs.	R (Nitrile-Butadiene	e Rubber) which ensures good wear		
- r ! r	The elastomer parts in the pump arresistance and long service interval n case the pump is used for pumpin ubber parts (Fluorocarbon) which a The pump is built with octagonal be	e made of NBFs. ng water with har arings with sar	R (Nitrile-Butadiene ligh content of hyd perature-resistant id flush channels t	e Rubber) which ensures good wear		



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.

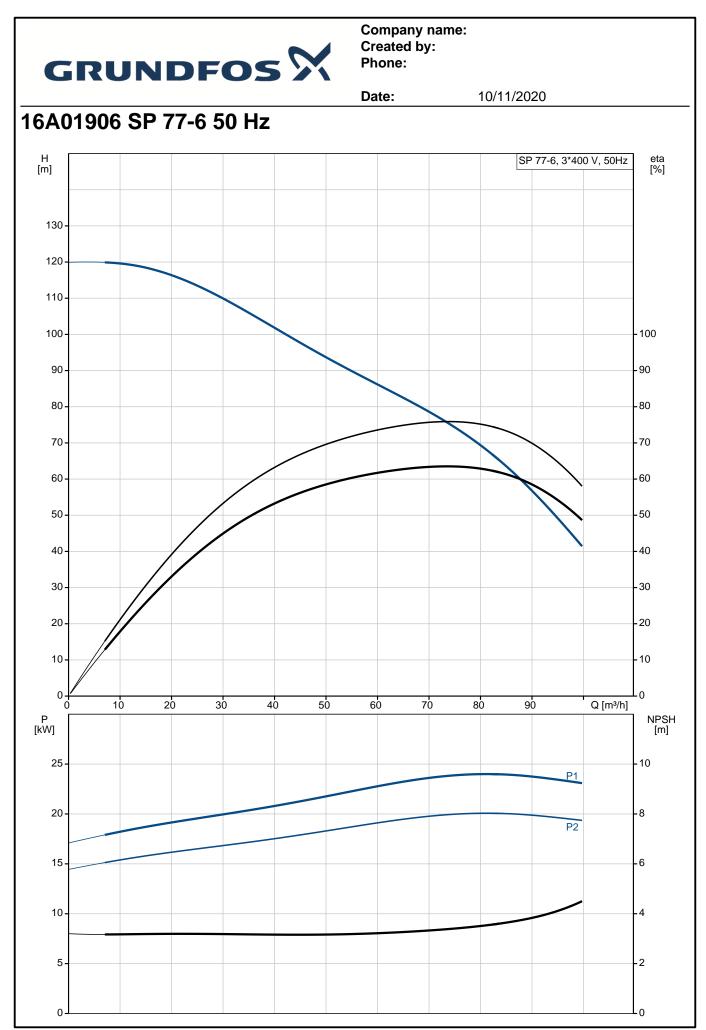
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



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/m ³
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 77 m ³ /h 74 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:	RP5 6 inch MS6000
	MS6000



GRUNDFO		Date:	10/11/2020	
Description				
Rated power - P2: Power (P2) required by pump: Mains frequency:	22 kW 22 kW 50 Hz			
Rated voltage: Rated current: Starting current:	3 x 380-400-415 V 49.5-47.5-46.5 A 480-530-560 %			
Cos phi - power factor: Rated speed:	0.86-0.84-0.82 2850-2870-2880 rpm			
Start. method: Enclosure class (IEC 34-5): Insulation class (IEC 85):	direct-on-line IP68 F			
Built-in temp. transmitter: Motor No:	yes 78195518			
Others: Minimum efficiency index, MEI a				
ErP status: Net weight: Gross weight:	EuP Standalone/Proc 112 kg 146 kg	1.		
Shipping volume: Danish VVS No.: Finnish LVI No.:	0.253 m ³ 388344360 4762768			
Country of origin: Custom tariff no.:	GB 84137029			

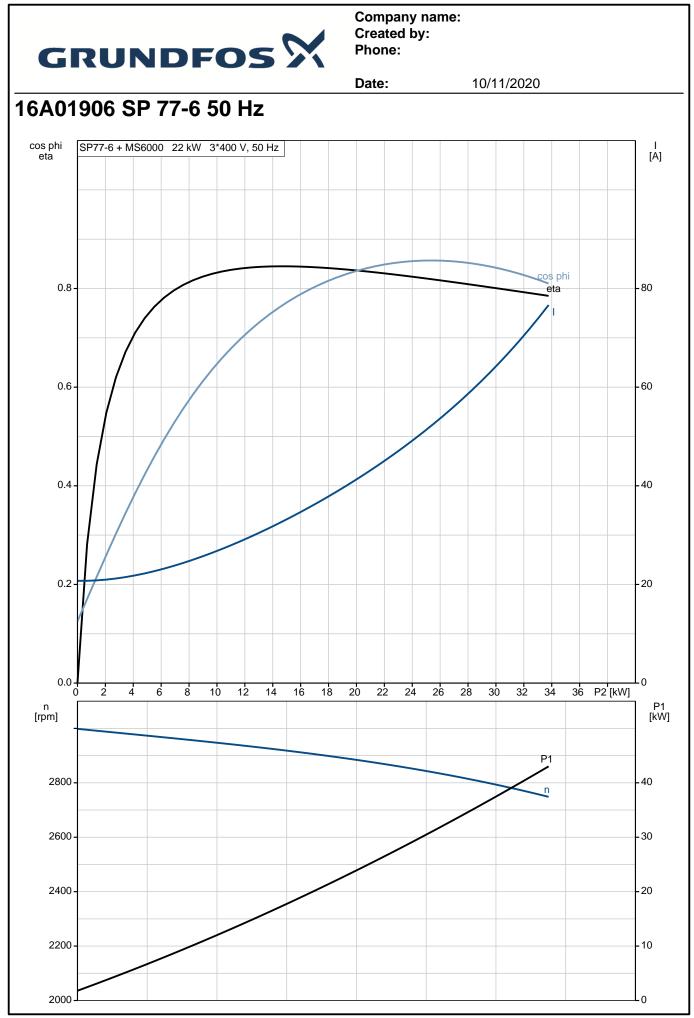


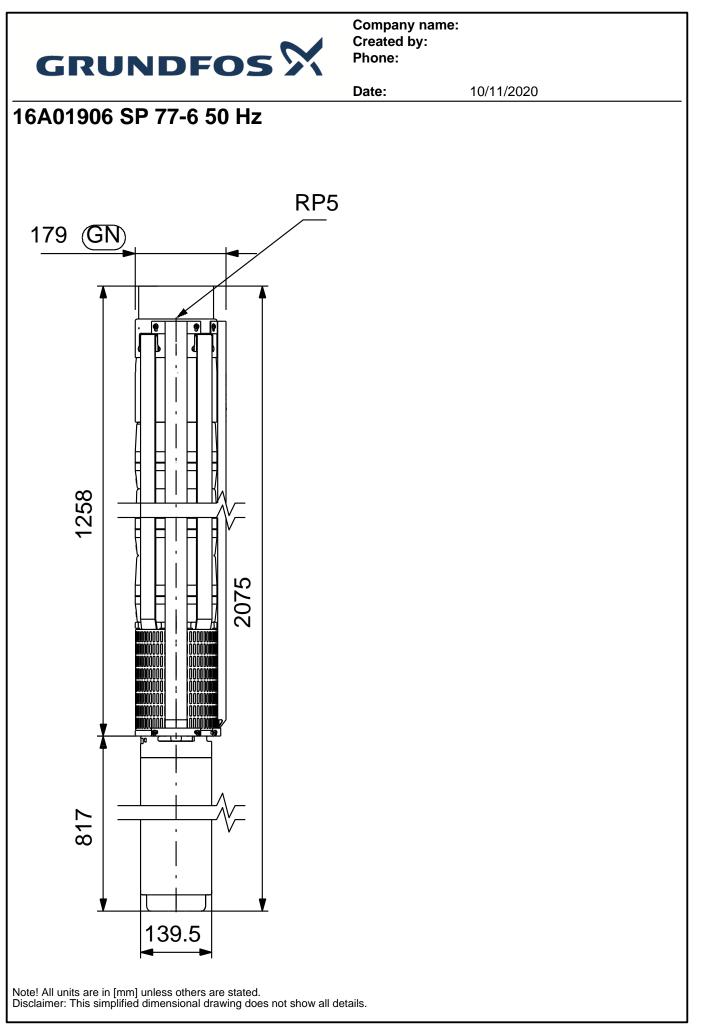


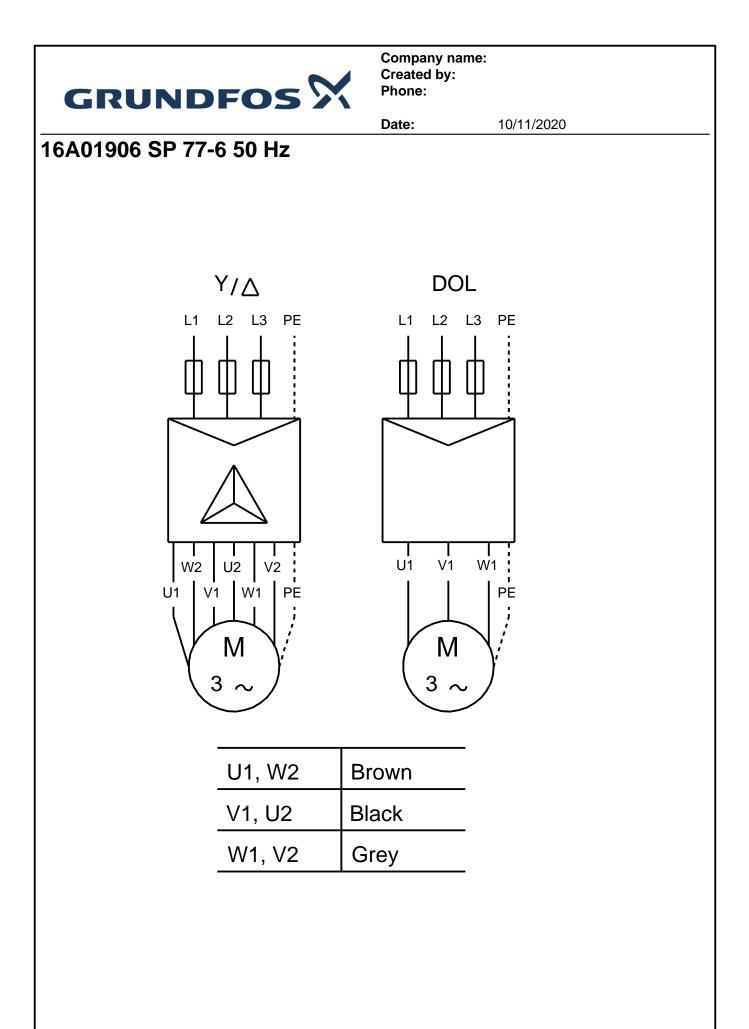
		Date:	10/11/	/2020	
Description	Value	H [m]		SP 77-6, 3*400 V, 50Hz	eta [%]
General information:					
Product name:	SP 77-6	130 -			
Product No:	16A01906	120			-
EAN number:	5700391158605	110 -			
Price:	GBP 7100				
Technical:		100 -			- 100
Pump speed on which pump data are based:	2900 rpm	90 - 80 -			- 90 - 80
Rated flow:	77 m³/h				
Rated head:	74 m	70 -			- 70
Stages:	6	60 -			- 60
	NONE	50 -			- 50
mpeller reduc.:	-				
Shaft seal for motor:	CER/CARNBR	40 -			- 40
Approvals on nameplate:	CE,GOST2	30-			- 30
Curve tolerance:	ISO9906:2012 3B	20			- 20
Model:	С				
/alve:	YES	10-			- 10
Motor version:	T40	o <u>/</u>			Lo
Materials:		P	20 40	60 80 Q [m³/h]	
Pump:	Stainless steel	[kW]			MPSF [m]
Pump:	EN 1.4301	25 -		P1	- 10
Pump:	AISI AISI 304				
mpeller:	Stainless steel	20		P2	-8
mpeller:	EN 1.4301	15			-6
mpeller:	AISI AISI 304	13			ſ
		10-			- 4
Motor:	Stainless steel				
Motor:	DIN WNr. 1.4301	5 -			2
Motor:	AISI 304				
nstallation:		0			LO
Pump outlet:	RP5		RP5		
Notor diameter:	6 inch	1 <u>79 GN</u>	<u>xr</u> 5		
_iquid:		T T			
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:	J	2075			
Motor type:	MS6000				
Applic. motor:	GRUNDFOS				
Rated power - P2:	22 kW				
-	22 KW				
Power (P2) required by pump:					
Mains frequency:	50 Hz				
Rated voltage:	3 x 380-400-415 V	139.5			
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				
Start. method:	direct-on-line				
Enclosure class (IEC 34-5):	IP68				
nsulation class (IEC 85):	F				
Motor protec:	NONE	W2 U2 V2	U1 V1 W1		
Thermal protec:	external				
Built-in temp. transmitter:		M	M		
	yes	3~	3~		
Motor No:	78195518	U1, W2	Brown		
Others:		V1, U2	Black		
Minimum efficiency index, MEI ≥:		W1, V2	Grey		
ErP status:	EuP Standalone/Prod.				



		Date:	10/11/2020	
Description	Value			
Net weight:	112 kg			
Gross weight:	146 kg			
Shipping volume:	0.253 m ³			
Danish VVS No.:	388344360			
Finnish LVI No.:	4762768			
Country of origin:	GB			
Custom tariff no .:	84137029			







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