

Descriptio				
	on			
SP 77-3				
	W.	Note! Product pic	ture may differ from a	actual product
Product No	o.: 16A01903			
Submersit	la barabala numa auto	blo for sumeric -	aloon water Ore	be installed vortically or bestantally All
componen	its are made in stainles	s steel, EN 1.430	orean water. Can 11 (AISI 304), that	be installed vertically or horizontally. All ensures high corrosive resistance. This
carries drir	nking water approval.			-
The pump	is fitted with a 11 kW M	1S6000 motor wi	th sand shield, me	echanical shaft seal, water-lubricated jou nned type submersible motor offering go
mechanica	al stability and high effic	ciency. Suitable for	or temperatures u	p to 40 °C.
The motor	is fitted with the Grund	fos Tempcon sei	nsor that, by use c	of powerline communication together with
	ntrol panel, enables ten	•	ring.	
The motor	is for direct-on-line star	rting (DOL).		
Further	product details			
-	is suitable for application	ons similar to the	following:	
	-water supply			
	gation			
	undwator loworing			
	undwater lowering ssure boosting			
- pre	undwater lowering ssure boosting ntain applications.			
- pres - four Pump	ssure boosting ntain applications.			
- pres - four Pump All pump s	ssure boosting ntain applications. surfaces that are in cont	act with pumped	liquids are made	in stainless steel which makes them cor
- pres - four Pump All pump s and wear-r	ssure boosting ntain applications. surfaces that are in cont	diagram below	shows the capabil	ities of the pump and motor in relation to
- pres - four Pump All pump s and wear-r	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	diagram below	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear-n temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	diagram belows d the concentrat	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear- temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	diagram below s of the concentrat	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear-in temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	1.4301 100	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear-i temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	1.4301 100	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pumps and wear-n temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	1.4301 100	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
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- pre- - four Pump All pump s and wear-i temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	1.4301 1.4301 1.4301 1.00 90 - 80 70 - 60 - 50 - 40 - - - - - - - - - - - - -	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	1.4301 100	shows the capabil	ities of the pump and motor in relation to opm (x-axis).
- pre- four Pump All pump s and wear- temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	diagram below state of the concentration of the co	shows the capabilion of chloride in p	ities of the pump and motor in relation to comm (x-axis). EN 1.4301 Image: Second se
- pre- - four Pump All pump s and wear- temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	Addiagram below and the concentrat	shows the capabilion of chloride in p	ities of the pump and motor in relation to opm (x-axis).
- pre- - four Pump All pump s and wear- temperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an	tidiagram below states and the concentrat	shows the capabil ion of chloride in p 4000 6000 8000 1200 R (Nitrile-Butadieno igh content of hyc	ities of the pump and motor in relation to copm (x-axis).
- pre- four Pump All pump s and wear-itemperatur	ssure boosting ntain applications. surfaces that are in cont resistant. The corrosion re in Celsius (y-axis) an end cels	are made of NBF als.	shows the capabil ion of chloride in p 4000 6000 8000 1200 R (Nitrile-Butadien high content of hycoperature-resistant	ities of the pump and motor in relation to copm (x-axis).



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.

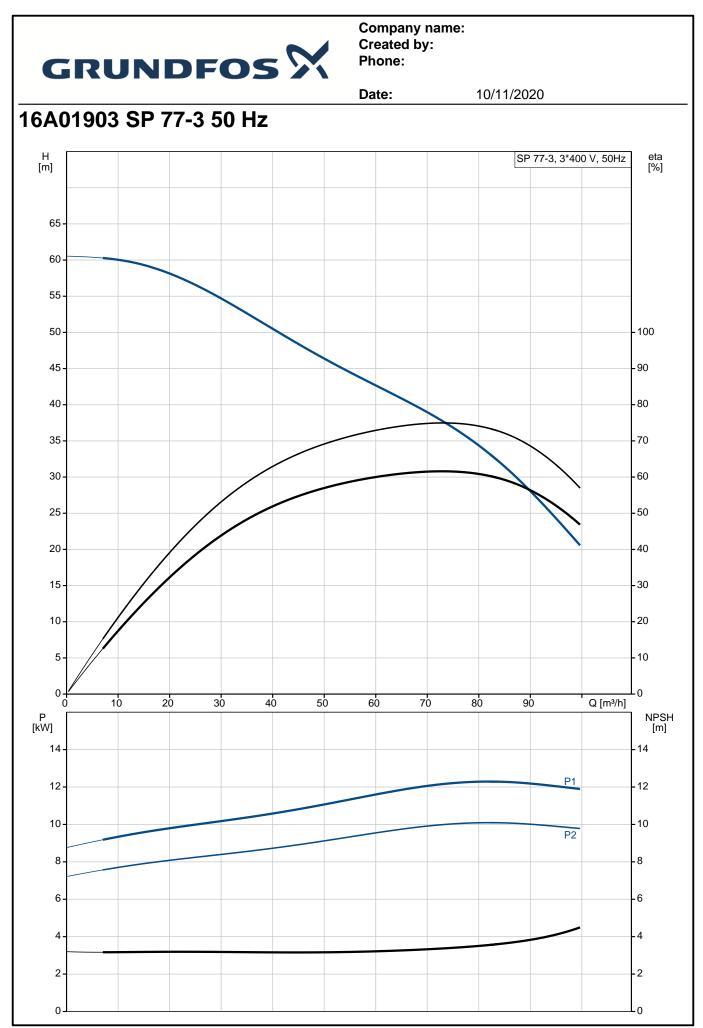
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



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 77 m ³ /h 37 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



Description			
Description			
Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current: Starting current: Cos phi - power factor: Rated speed: Start. method: Enclosure class (IEC 34-5):	11 kW 11 kW 50 Hz 3 x 380-400-415 V 26.0-25.0-24.8 A 470-520-540 % 0.84-0.82-0.79 2850-2870-2880 rpm direct-on-line IP68		
Insulation class (IEC 85): Built-in temp. transmitter: Motor No:	F yes 78195514		
Others: Minimum efficiency index, MEI a ErP status: Net weight: Gross weight: Shipping volume: Danish VVS No.: Finnish LVI No.: Country of origin: Custom tariff no.:	≥: -, EuP Standalone/Proc 80 kg 106 kg 0.2 m ³ 388344330 4762765 GB 84137029	1.	

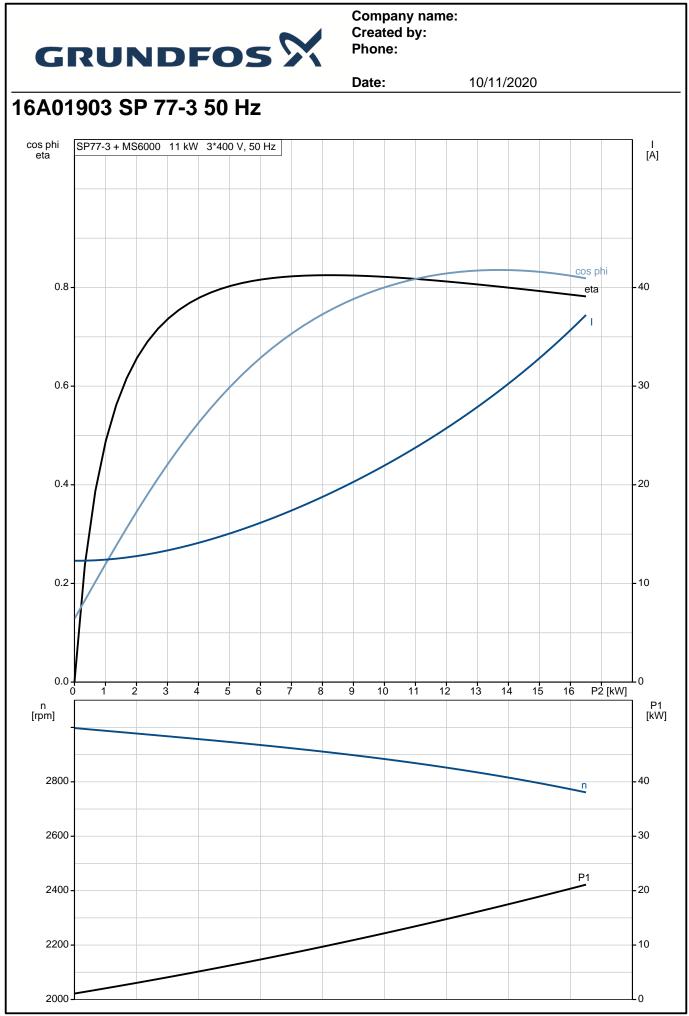


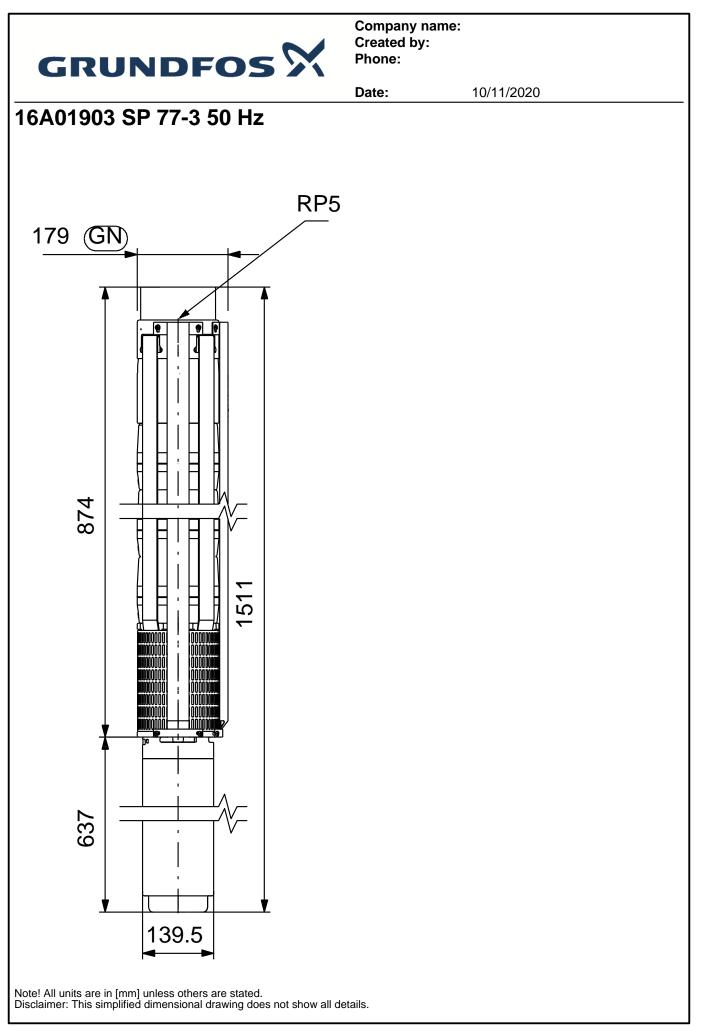


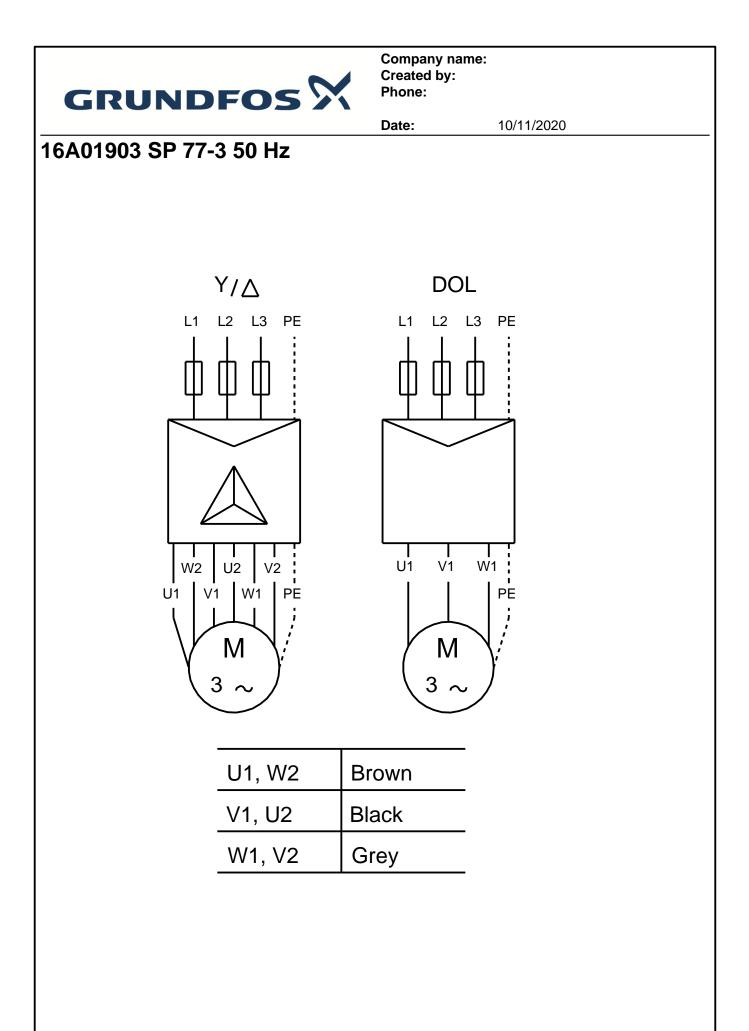
		Date:	10/11	/2020		
Description	Value	H [m]		SP 77-3, 3*	400 V, 50Hz	eta [%]
General information:						
Product name:	SP 77-3	65 -				
Product No:	16A01903	60-				
EAN number:	5700391158476	55 -				
Price:	GBP 5363					
Technical:		50 -				- 100
Pump speed on which pump data are		45 -				- 90
based:	2900 rpm	40 -				- 80
Rated flow:	77 m³/h	35 -				- 70
Rated head:	37 m	30 -				- 60
Stages:	3					
Impeller reduc.:	NONE	25 -				- 50
Shaft seal for motor:	CER/CARNBR	20-				- 40
Approvals on nameplate:	CE,GOST2	15-				- 30
Curve tolerance:	ISO9906:2012 3B					
Model:	С	10				- 20
Valve:	YES	5-				- 10
Motor version:	T40	o /				-0
Materials:		0 20	40	60 80	Q [m³/h]	-
Pump:	Stainless steel	P [kW]				NPSH [m]
Pump:	EN 1.4301				D.	
Pump:	AISI AISI 304	12-			<u>P1</u>	- 12
Impeller:	Stainless steel	10-				- 10
Impeller:	EN 1.4301	8			P2	-8
	AISI AISI 304	°-				-0
Impeller:		6 -				-6
Motor:	Stainless steel	4 -				- 4
Motor:	DIN WNr. 1.4301	2-				-2
Motor:	AISI 304					
Installation:						-0
Pump outlet:	RP5	A RP	-			
Motor diameter:	6 inch	1 <u>79 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/m³					
Electrical data:						
Motor type:	MS6000					
Applic. motor:	GRUNDFOS					
Rated power - P2:	11 kW					
Power (P2) required by pump:	11 kW					
Mains frequency:	50 Hz					
Rated voltage:	3 x 380-400-415 V	139.5				
Rated current:	26.0-25.0-24.8 A	·				
Starting current:	470-520-540 %					
Cos phi - power factor:	0.84-0.82-0.79	Υ/Δ	DOL			
Rated speed:	2850-2870-2880 rpm	L1 L2 L3 PE	L1 L2 L3 PE			
Start. method:	direct-on-line	фф	ΦΦ			
Enclosure class (IEC 34-5):	IP68					
Insulation class (IEC 85):	F					
Motor protec:	NONE	U1 V1 V1 PE	U1 V1 W1			
Thermal protec:	external	M	M			
Built-in temp. transmitter:	yes	3~)	(3~)			
Motor No:	78195514					
Others:		U1, W2	Brown			
Minimum efficiency index, MEI ≥:		V1, U2 W1, V2	Black Grey			
ErP status:	EuP Standalone/Prod.	<u>vv1, vz</u>	Sity			



		Date:	10/11/2020	
Description	Value			
Net weight:	80 kg			
Gross weight:	106 kg			
Shipping volume:	0.2 m ³			
Danish VVS No.:	388344330			
Finnish LVI No.:	4762765			
Country of origin:	GB			
Custom tariff no .:	84137029			







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