

Company name: Created by:

		Date:	10/11/2020			
	Description					
	SP 17-48					
	Note! Product pictu	re may differ from	actual product			
	Product No.: 12A41948	re may unler nom				
	Submersible borehole pump, suitable for pumping cl components are made in stainless steel, EN 1.4301 carries drinking water approval.	ean water. Can (AISI 304), that	be installed vertically or horizontally. All ensures high corrosive resistance. This	ste pu		
	The pump is fitted with a 26 kW MS6000 motor with bearings and a volume compensating diaphragm. The	ne motor is a ca	inned type submersible motor offering go	na oc		
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.						
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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.

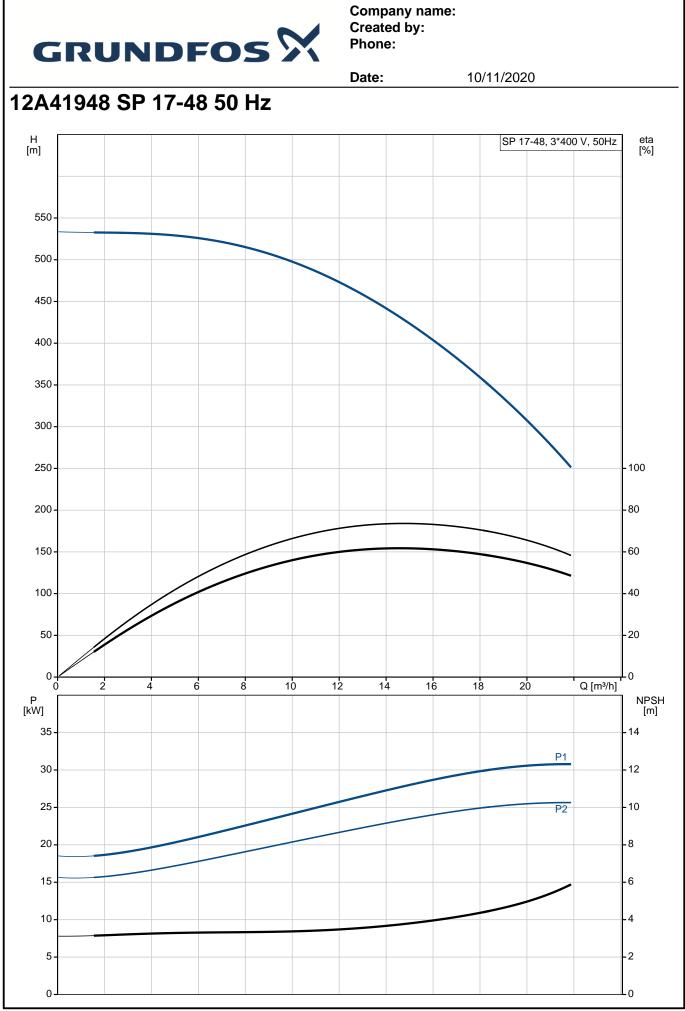
The MP204 is an electronic motor protection device that also monitors the supply network quality to protect the submersible motor against supply network disturbances.



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/m³
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 m³/h 395 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



Description Installation: Pump outlet: R3 Motor diameter: 6 inch Electrical data: MS6000 Rated power - P2: 26 kW Power (P2) required by pump: 26 kW Mans frequency: 50 HZ Rated voltage: 3 x 380-400-415 V Rated voltage: 3 x 380-400-415 V Rated voltage: 3 x 380-400-415 V Rated voltage: 0.87-0.85-0.82 Rated speed: 2850-2870-2880 pm Start, method: direct-on-line Enclosure class (IEC 85): F Built-In temp, transmitter: yes Motor No: 78195519 Others: Minimum efficiency index, MEI 4%-W: 0.70 ErP status: EuP Standalone/Prod. Net weight: 177 kg Gross weight: 238 kg Shipping volume: 0.539 m³ Country of orign: DK Custor tariff no.: 84137029			Date:	10/11/2020	
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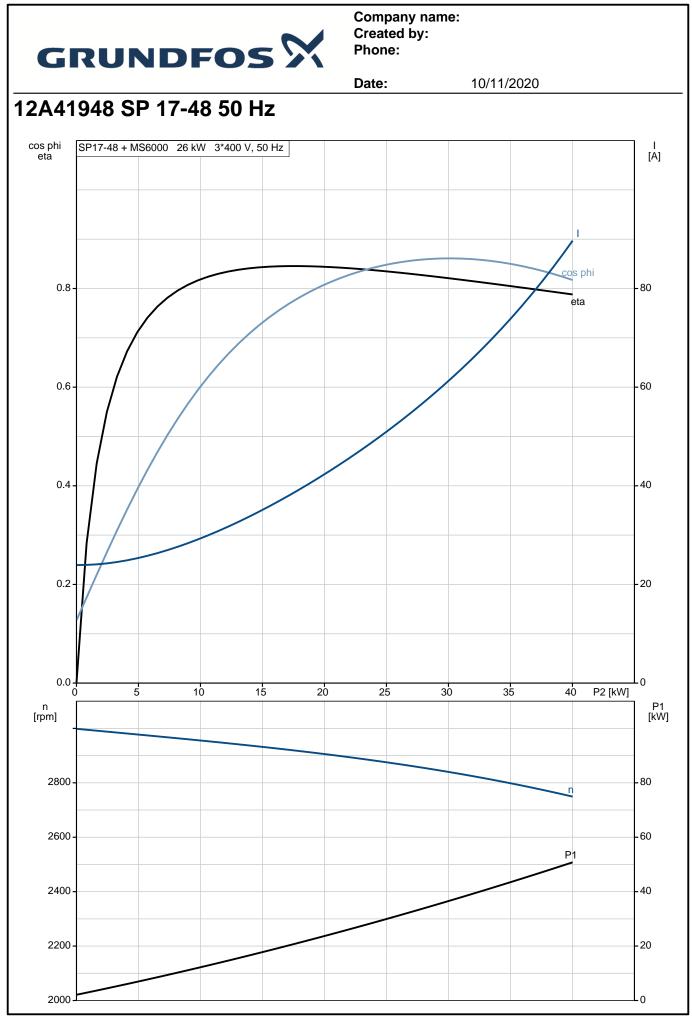


DescriptionValueGeneral information:Product name:SP 17-48Product No:12A41948EAN number:5700391287541Technical:2900 rpmPump speed on which pump data are based:2900 rpmRated flow:17 m³/hRated head:395 mStages:48Impeller reduc.:NONEShaft seal for motor:CER/CARNBRApprovals on nameplate:CE,GOST2Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:Pump:Pump:Stainless steelPump:AISI AISI 304Impeller:EN 1.4301Impeller:EN 1.4301Impeller:Kainless steelImpeller:Kainless steel	H [m] 550 500 450 400 350 300 250 200 150 100 50 0 0 0 0 150 100 50 0 0 0 0	5 10	SP 17-4	8, 3*400 V, 50Hz	[%] - 100 - 80 - 60 - 40 - 20 - 0
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Stages:48Impeller reduc.:NONEShaft seal for motor:CER/CARNBRApprovals on nameplate:CE,GOST2Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:ENPump:Stainless steelPump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	250 200 150 100 50 0 0 0 50 0 0 0 50 0 0 0 50 0 0 0	5 10	15	Q [m³/h]	80 60 40 20 0
Impeller reduc.:NONEShaft seal for motor:CER/CARNBRApprovals on nameplate:CE,GOST2Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:Pump:Pump:Stainless steelPump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	200 150 100 50 0 0 0 8 7 8 8 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9	5 10	15	Q [m³/h]	80 60 40 20 0
Shaft seal for motor:CER/CARNBRApprovals on nameplate:CE,GOST2Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:Pump:Pump:Stainless steelPump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	200 150 100 50 0 0 0 8 7 8 8 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9	5 10	15	Q [m³/h]	80 60 40 20 0
Approvals on nameplate:CE,GOST2Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:Pump:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	150 100 50 0 0 0 100 50 0 0 0 0 50 0 0 0	5 10	15	Q [m³/h]	- 60 - 40 - 20 - 0
Curve tolerance:ISO9906:2012 3BModel:BValve:YESMotor version:T40Materials:Pump:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	100 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 10	15	Q [m³/h]	40 20 0
Model:BValve:YESMotor version:T40Materials:TPump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	100 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 10	15	Q [m³/h]	40 20 0
Valve:YESMotor version:T40Materials:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	50 0 0 (kW) 30 25	5 10	15	Q [m³/h]	20
Motor version:T40Materials:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	50 0 0 (kW) 30 25	5 10	15	Q [m³/h]	L _o
Materials:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	0 0 0 0 [kW] 30 25	5 10	15	Q [m³/h]	L _o
Materials:Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	0 [kW] 30 25	5 10	15	Q [m³/h]	-
Pump:Stainless steelPump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	0 [kW] 30 25	5 10	15	Q [m³/h]	-
Pump:EN 1.4301Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	[kW]				NDOU
Pump:AISI AISI 304Impeller:Stainless steelImpeller:EN 1.4301	30 - 25 -				MPSH [m]
Impeller:Stainless steelImpeller:EN 1.4301	25 -			P1	- ^[11]
Impeller: EN 1.4301		1		P1	- 12
					- 10
Impeller: AISI AISI 304	20 -			P2	
					- 8
Motor: Stainless steel	15-			/	- 6
Motor: DIN WNr. 1.4301	10 -				- 4
Motor: AISI 304					-
Installation:	5 -				-2
Pump outlet: R3	0				\mathbf{L}_{0}
Motor diameter: 6 inch	R3				
Liquid:	175 GN				
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	33556				
Electrical data:					
Motor type: MS6000					
Applic. motor: GRUNDFOS	(Jalla)				
Rated power - P2: 26 kW					
Power (P2) required by pump: 26 kW	877				
Mains frequency: 50 Hz					
Rated voltage: 3 x 380-400-415 V	139.5				
Rated current: 58.0-55.5-55.0 A					
Starting current: 480-530-560 %					
Cos phi - power factor: 0.87-0.85-0.82					
Rated speed: 2850-2870-2880 rpm	Y/∆	DOL			
Start. method: direct-on-line					
Enclosure class (IEC 34-5): IP68	ΦΦΦ	$\Phi \Phi \Phi$			
Insulation class (IEC 85): F					
Motor protec: NONE					
Thermal protec: external		U1 V1 W1			
	U1 V1 W1 PE				
Built-in temp. transmitter: yes	M	M			
Motor No: 78195519	3~	3~			
Others:		Derver			
Minimum efficiency index, MEI ≥: 0.70	U1, W2 V1, U2	Brown Black			
ErP status: EuP Standalone/Prod.	W1, V2	Grey			
Net weight: 177 kg					

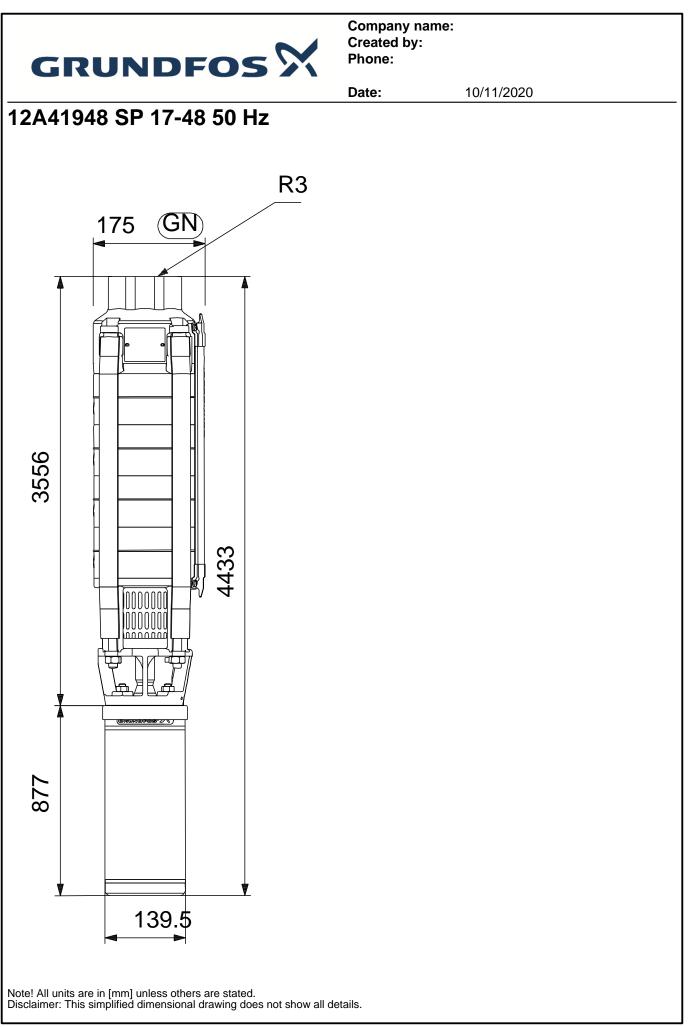
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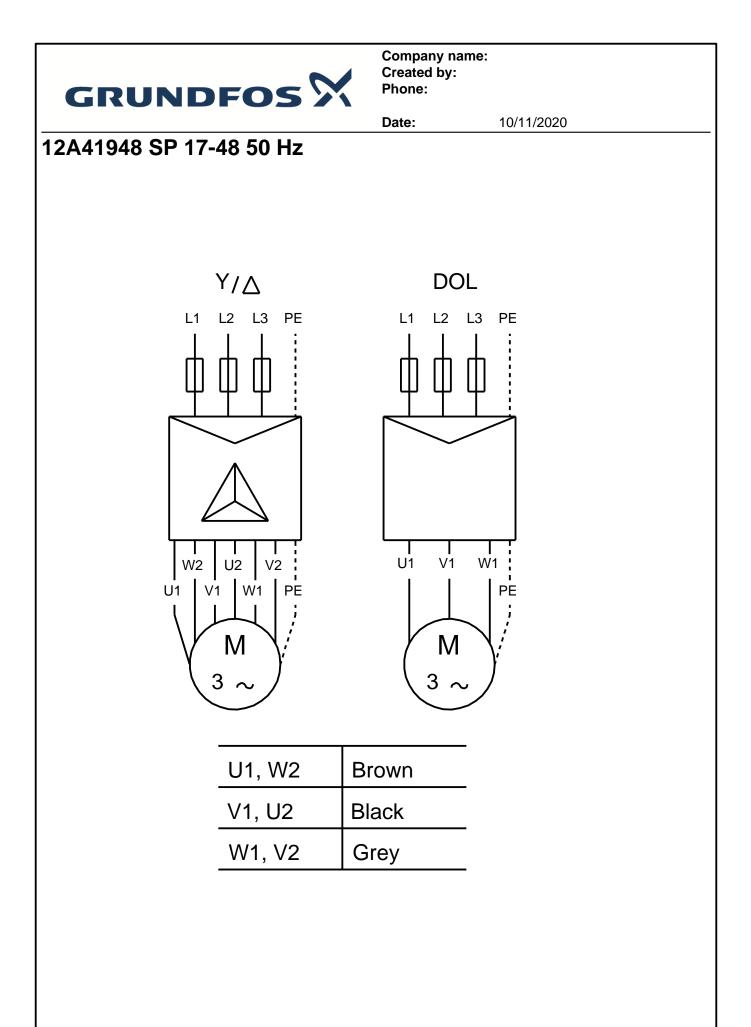


Date:10/11/2020DescriptionValueGross weight:238 kgShipping volume:0.539 m³Country of origin:DKCustom tariff no.:84137029



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