	GRUNDFOS 🕅	Company I Created by Phone:				
		Date:	12/11/2020			
	Description					
	SP 215-11					
	Note! Product picture Product No.: 18AV4311	may differ from a	actual product			
 Product No.: 18AV4311 Submersible borehole pump, suitable for pumping clean water. Can be installed vertically or horizont components are made in stainless steel, EN 1.4301 (AISI 304), that ensures high corrosive resistance carries drinking water approval. The pump is fitted with a 220 kW MMS12000 motor with sand shield, water-lubricated journal bearing volume compensating diaphragm. The rewindable motor contruction allows complete access to the we easy rewinding. The stator windings are PE/PA insulated made for continous operations (S1). Suitable temperatures up to 50 °C. The motor is fitted with a mechanical shaft seal. The motor is not fitted with a temperature sensor. If temperature monitoring is desired, a Pt100 or Pt1 						
	Further product details The pump is suitable for applications similar to the following:					
	- raw-water supply					
	 irrigation groundwater lowering 					
	 pressure boosting 					
	- fountain applications.					
	Pump All pump surfaces that are in contact with pumped liqu and wear-resistant. The corrosion diagram below show temperature in Celsius (y-axis) and the concentration of	ities of the pump and motor in relation to the				
	EN 1.4301 100 - 90 - 90 -		EN 1.4301			
	80 - 80 -					
	70 - 70 - 70 -					
	60 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -					
	50 - 50 -					
	40 - 40 -					
	30 - 30 -					
	20 - 20 -					
	10 - 10 -					
	0 200 400 600 800 1000 1200 1400 1600 1800 2000 0 2000 4000	6000 8000 12000	0 16000 20000			
	The elastomer parts in the pump are made of NBR (Ni resistance and long service intervals. In case the pump is used for pumping water with high					



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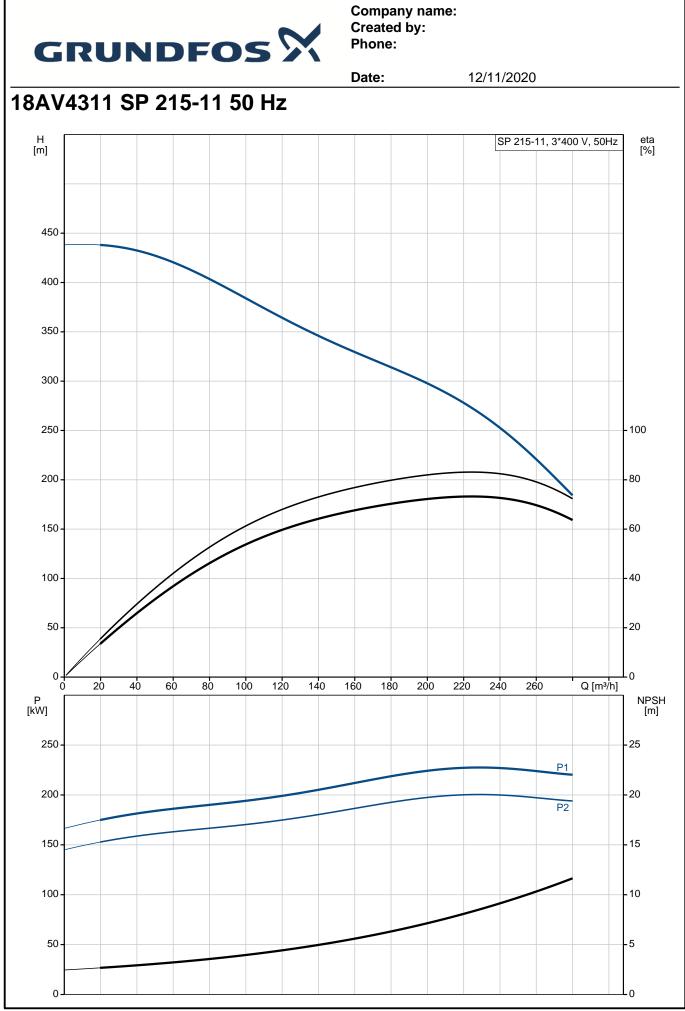
		Date: 12/11/2020				
Qty.	Description					
	The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is inevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear ring and seal rings) to maintain high performance and a long lifetime.					
	The suction interconnector is fitted with a strainer to prevent large particles from entering the pump.					
	Motor					
	The winding wire is made from pure electrolytic cobber insulated by extruded two layers of PE/PA with his dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensure best possible cooling of the winding wire. The PA layer ensures high mechanical wear properties of the wire.					
	The shaft seal faces are SiC/SiC. The material combination gives good performance when abrasive particles (sand) is present. Together with the shaft seal housing, the sand shield forms a labyrinth seal, which during n operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking wate approved. The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maxim operating temperature conditions are not exceeded.					
	Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Max liquid t at 0.5 m/sec:	Water 35 °C 30 °C 35 °C				
	Selected liquid temperature: Density:	20 °C 998.2 kg/m³				
	Technical: Pump speed on which pump data are based: 2900 rpm Rated flow: 215 m ³ /h Rated head: 274 m					
	Shaft seal for motor: Curve tolerance: Motor version:	SIC/SIC ISO9906:2012 3B T35				
	Materials: Pump:	Stainless steel EN 1.4301				
	Impeller:	AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304				
	Motor:	Cast iron DIN WNr. 0.6025 ASTM 35-40				
	Installation:					
	Pump outlet: Motor diameter:	RP6 12 inch				
	Electrical data:					
	Motor type:	MMS12000				
	Rated power - P2:	220 kW				
	Power (P2) required by pump:	220 kW				
	Mains frequency:	50 Hz 3 x 380-400-415 V				
	Rated voltage: Rated current:	3 x 380-400-415 V 450-445-450 A				
	Starting current:	450-445-450 A 580-610-620 %				
	Cos phi - power factor:	0.89-0.85-0.81				
	Rated speed:	2910-2920-2930 rpm				
	Start. method:	direct-on-line				
	Enclosure class (IEC 34-5):	IP68				

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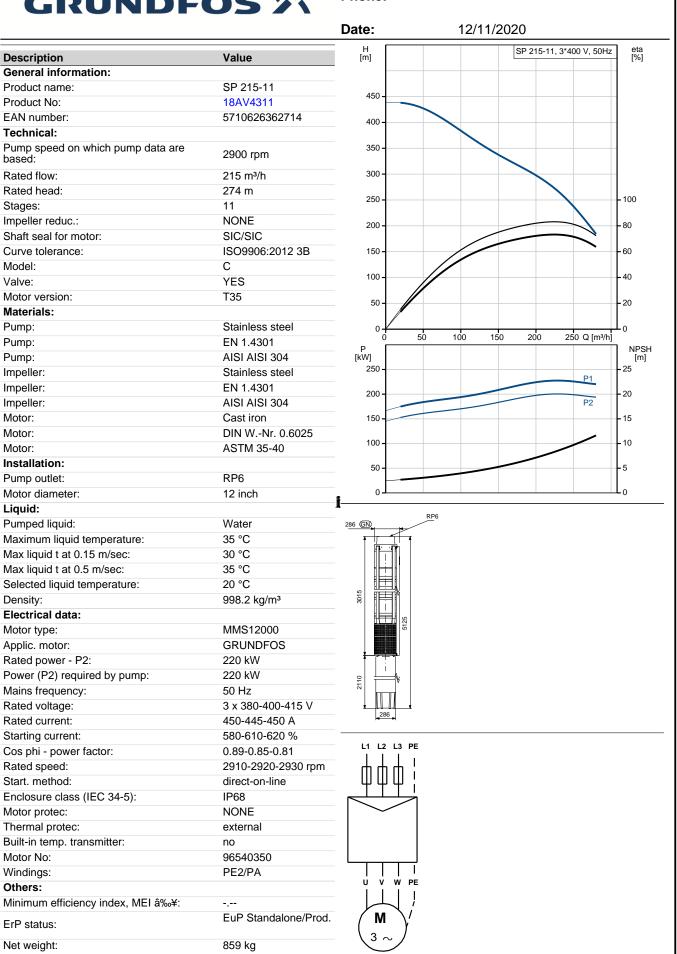
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		Date:	12/11/2020	
Description				
Built-in temp. transmitter:	NO			
Motor No:	96540350			
Windings:	PE2/PA			
Others:				
Minimum efficiency index, N	1FL≥⁺			
ErP status:	EuP Standalone/	Prod.		
Net weight:	859 kg			
Gross weight:	959 kg			
Shipping volume:	1.45 m ³			
Country of origin:	DK			
Custom tariff no.:	84137029			
	04107025			





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