	GRUNDFOS X	Company Created b Phone:					
		Date:	10/11/2020				
	Description						
	SP 160-13						
	Note! Product picture	may differ from	n actual product				
	Product No.: 20064313						
Submersible borehole pump, suitable for pumping clean water. Can be installed components are made in stainless steel, EN 1.4301 (AISI 304), that ensures hig carries drinking water approval.	n be installed vertically or horizontally. All stee at ensures high corrosive resistance. This pum						
	The pump is fitted with a 170 kW MMS10000 motor w volume compensating diaphragm. The rewindable mo easy rewinding. The stator windings are PE/PA insula temperatures up to 50 °C. The motor is fitted with a m The motor is not fitted with a temperature sensor. If te can be fitted.	tor contructic ted made for echanical sha	on allows complete access to the windings for continous operations (S1). Suitable for aft seal.				
	The motor is for direct-on-line starting (DOL).						
	Further product details The pump is suitable for applications similar to the following: - raw-water supply - irrigation groundwater lowering						
	 groundwater lowering pressure boosting 						
	- fountain applications.						
	Pump All pump surfaces that are in contact with pumped liquids are made in stainless steel which makes them corrosion- and wear-resistant. The corrosion diagram below shows the capabilities of the pump and motor in relation to the temperature in Celsius (y-axis) and the concentration of chloride in ppm (x-axis).						
	100 EN 1.4301		EN 1.4301				
	90						
	80 - 80 - 70 - 70 - 70 - 70 - 70 - 70 -						
	70 - 70 - 70 - 60 - 60 - 70 - 70 - 70 -						
	50 - 50 -						
	40 - 40 -						
	30 - 30 -						
	20 - 20 -						
	10 - 10 -						
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6000 8000 12	2000 16000 20000				
	The elastomer parts in the pump are made of NBR (N resistance and long service intervals.	itrile-Butadie	ne Rubber) which ensures good wear				
	In case the pump is used for pumping water with high rubber parts (Fluorocarbon) which are oil and tempera	content of hy ature-resistan	ydrocarbons or solvents, Grundfos offers FKM t up to 90 °C.				



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10/11/2020

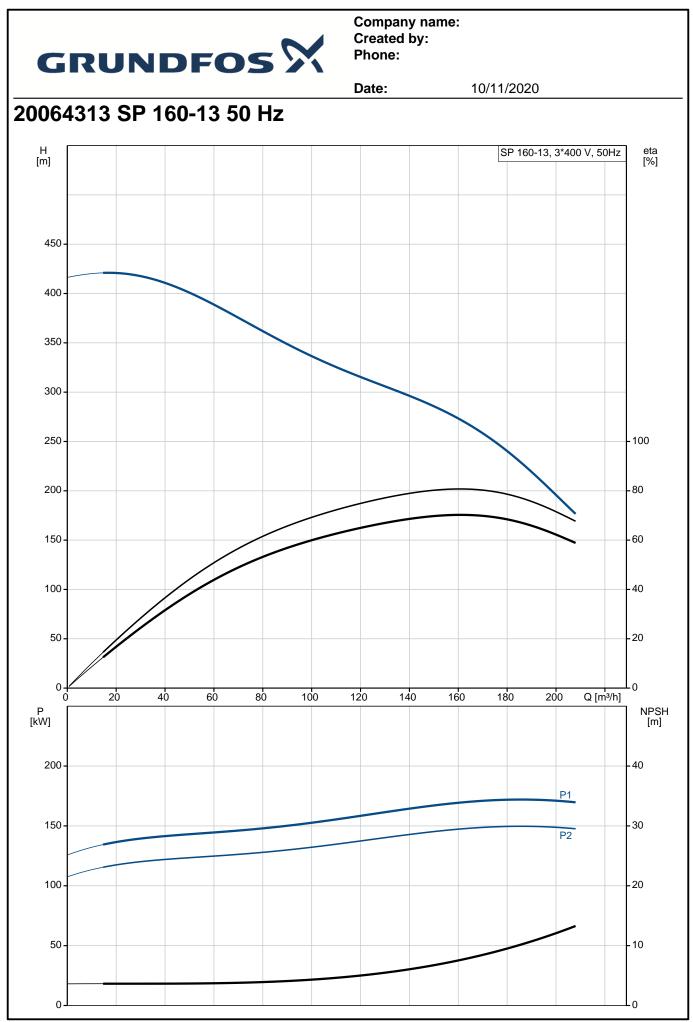
		Date: 10/11/2020						
Qty.	Description							
	The pump is built with octagonal bearings with sand flush channels that minimise wear. As wear of the pump is nevitable, the pump design allows for easy replacement of all internal wear parts (bearings, impeller, wear rings and seal rings) to maintain high performance and a long lifetime.							
	The suction interconnector is fitted with a strainer to prevent large particles from entering the pump.							
	Motor							
	dielectric strength properties all	pure electrolytic cobber insulated by extruded two layers of PE/PA with high owing direct contact between the motor fluid and winding wire. This ensures the ding wire. The PA layer ensures high mechanical wear properties of the winding						
	(sand) is present. Together with	C. The material combination gives good performance when abrasive particles in the shaft seal housing, the sand shield forms a labyrinth seal, which during normal penetration of sand particles into the shaft seal. This shaft seal is drinking water						
	The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.							
	Liquid: Pumped liquid: Maximum liquid temperature:	Water 40 °C						
	Max liquid t at 0.15 m/sec:	35 ℃						
	Max liquid t at 0.5 m/sec:	40 °C						
	Selected liquid temperature: Density:	20 °C 998.2 kg/m³						
	Technical:							
	Pump speed on which pump da	ata are based: 2900 rpm						
	Rated flow:	160 m³/h						
	Rated head:	264 m						
	Shaft seal for motor: Curve tolerance:	SIC/SIC ISO9906:2012 3B						
	Motor version:	T40						
	Materials:							
	Pump:	Stainless steel EN 1.4301 AISI AISI 304						
	Impeller:	Stainless steel						
		EN 1.4301						
	Motor:	AISI AISI 304 Cast iron						
		DIN WNr. 0.6025						
		ASTM 35-40						
	Installation:							
	Pump outlet:	RP6						
	Motor diameter:	10 inch						
	Electrical data:							
	Motor type:	MMS10000						
	Rated power - P2: Power (P2) required by pump:	170 kW 170 kW						
	Mains frequency:	50 Hz						
	Rated voltage:	3 x 380-400-415 V						
	Rated current:	365-365-375 A						
	Starting current:	570-600-600 %						
	Cos phi - power factor: Rated speed:	0.85-0.81-0.77 2910-2920-2930 rpm						
	Start. method:	direct-on-line						
	Enclosure class (IEC 34-5):	IP68						
	•							

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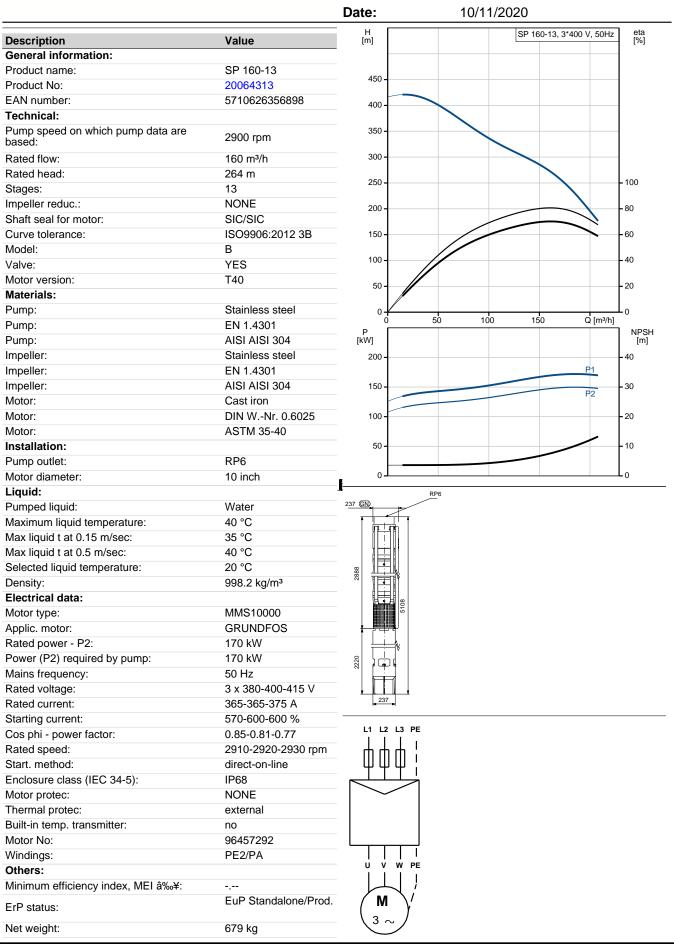
		Date:	10/11/2020			
Description						
Built-in temp. transmitter:	no					
Motor No:	96457292					
Windings:	PE2/PA					
Others:						
Minimum efficiency index, MEI ≥: ErP status: EuP Standalone/Prod.						
		Prod.				
Net weight: Gross weight:	679 kg 749 kg					
Shipping volume:	1.45 m ³					
Country of origin:	DK					
Custom tariff no.:	84137029					
	01101020					





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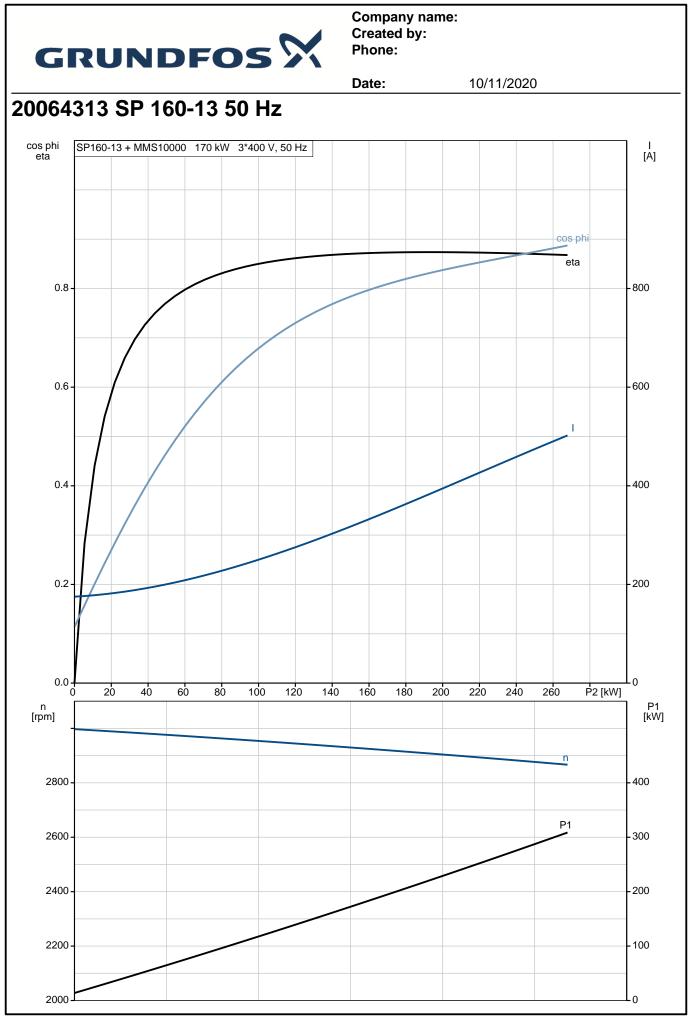


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Company name: Created by: Phone:

Date:10/11/2020DescriptionValueGross weight:749 kgShipping volume:1.45 m³Country of origin:DKCustom tariff no.:84137029



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