

⊢	Description			
	SP 46-28			
	T			
l				
	Draduct No. 45444000	Note! Product	picture may differ from	actual product
	Product No.: 15A44328			
	Submersible borehole pump, suital	ole for pumpi	ng clean water. Can	be installed vertically or horizontally. All ste
	components are made in stainless carries drinking water approval.	steel, EN 1.4	1301 (AISI 304), that	ensures high corrosive resistance. This pu
	•	158000 mot	or with sand shield y	vater-lubricated journal bearings and a volu
	compensating diaphragm. The rew	indable moto	or contruction allows	complete access to the windings for easy
	rewinding. The stator windings are temperatures up to 50 °C. The mot	PE/PA insul	ated made for contin	ous operations (S1). Suitable for
				nitoring is desired, a Pt100 or Pt1000 sens
	can be fitted.	stature sense		filloling is desired, a Fillo of Filloo sens
	The motor is for direct-on-line start	ing (DOL).		
	The pump is suitable for application - raw-water supply - irrigation - groundwater lowering	is similar to	rne following:	
	 pressure boosting fountain applications. 			
	 pressure boosting fountain applications. The Grundfos SP pump is renowned.			dy complies with the requirements of the
	 pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the 			dy complies with the requirements of the est in class within submersible pumps.
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	- pressure boosting - fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the EUP READY COMMONS			
	 pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the EUP EUP EUP EUP Pump	refore Grund	fos is amongst the b	est in class within submersible pumps.
	pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the FEOP FEADY FEA	refore Grund ct with pump diagram belo	fos is amongst the b ed liquids are made w shows the capabi	est in class within submersible pumps. in stainless steel which makes them corros ities of the pump and motor in relation to th
	pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the FEOP FEADY FEEDOP FEEDOP All pump surfaces that are in contained	refore Grund ct with pump diagram belo	fos is amongst the b ed liquids are made w shows the capabi	est in class within submersible pumps. in stainless steel which makes them corros ities of the pump and motor in relation to th
	pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the FEOP FEADY FEA	ct with pump diagram belo the concent	fos is amongst the b ed liquids are made w shows the capabi	est in class within submersible pumps. in stainless steel which makes them corros ities of the pump and motor in relation to th
	 pressure boosting fountain applications. The Grundfos SP pump is renowned Minimum Efficiency Index, and the FEADY FRADY Pump All pump surfaces that are in contata and wear-resistant. The corrosion of temperature in Celsius (y-axis) and 	ct with pump diagram belo the concent	fos is amongst the b ed liquids are made w shows the capabi	est in class within submersible pumps. in stainless steel which makes them corros ities of the pump and motor in relation to th opm (x-axis).
	 pressure boosting fountain applications. The Grundfos SP pump is renowned finimum Efficiency Index, and the second se	ct with pump diagram belo I the concent	fos is amongst the b ed liquids are made w shows the capabi	est in class within submersible pumps. in stainless steel which makes them corros ities of the pump and motor in relation to th opm (x-axis).
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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 winding wire is made from pure electrolytic cobber insulated by extruded two layers of PE/PA with high dielectric strength properties allowing direct contact between the motor fluid and winding wire. This ensures the best possible cooling of the winding wire. The PA layer ensures high mechanical wear properties of the winding 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 normal operating conditions prevents penetration of sand particles into the shaft seal. This shaft seal is drinking water approved.

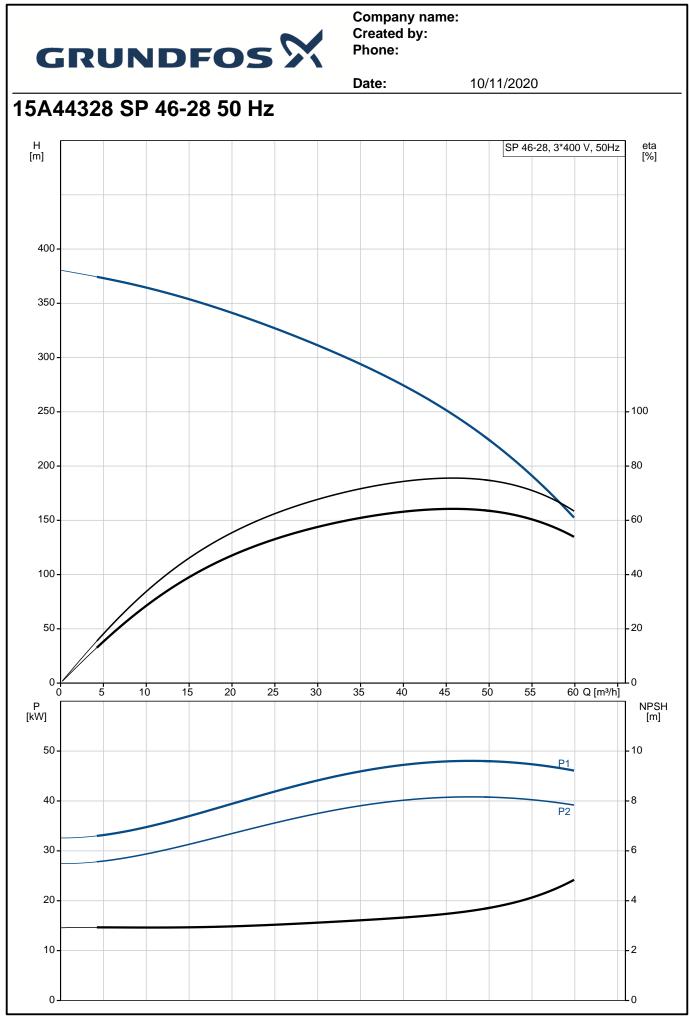
The motor can be fitted with a Pt100 or Pt1000 sensor that together with a control unit ensures that the maximum operating temperature conditions are not exceeded.

Liquid: Pumped liquid: Maximum liquid temperature: Max liquid t at 0.15 m/sec: Max liquid t at 0.5 m/sec: Selected liquid temperature: Density:	Water 45 °C 40 °C 45 °C 20 °C 998.2 kg/m ³
Technical: Pump speed on which pump dat Rated flow: Rated head: Shaft seal for motor: Curve tolerance: Motor version:	a are based: 2900 rpm 46 m³/h 246 m SIC/SIC ISO9906:2012 3B T45
Materials: Pump: Impeller: Motor:	Stainless steel EN 1.4301 AISI AISI 304 Stainless steel EN 1.4301 AISI AISI 304 Cast iron DIN WNr. 0.6025 ASTM 35-40
Installation: Pump outlet: Motor diameter:	R4 8 inch
Electrical data: Motor type: Rated power - P2: Power (P2) required by pump: Mains frequency: Rated voltage: Rated current:	MMS8000 45 kW 45 kW 50 Hz 3 x 380-400-415 V 95.5-96.5-96.0 A



Company name: Created by:

	GRUNDF		Date:	10/11/2020	
_	Description				
	Starting current:	560-600-680 %			
	Cos phi - power factor:	0.88-0.82-0.80			
	Rated speed:	2900-2910-2920 rpm			
	Start. method:	direct-on-line			
	Enclosure class (IEC 34-5):	IP68			
	Built-in temp. transmitter:	no			
	Motor No:	96476891			
	Windings:	PE2/PA			
	Others:				
	Minimum efficiency index, ME				
	ErP status:	EuP Standalone/Proc	ł.		
	Net weight:	284 kg			
	Gross weight:	381 kg			
	Shipping volume:	0.784 m ³			
	Country of origin:	DK			
	Custom tariff no.:	84137029			



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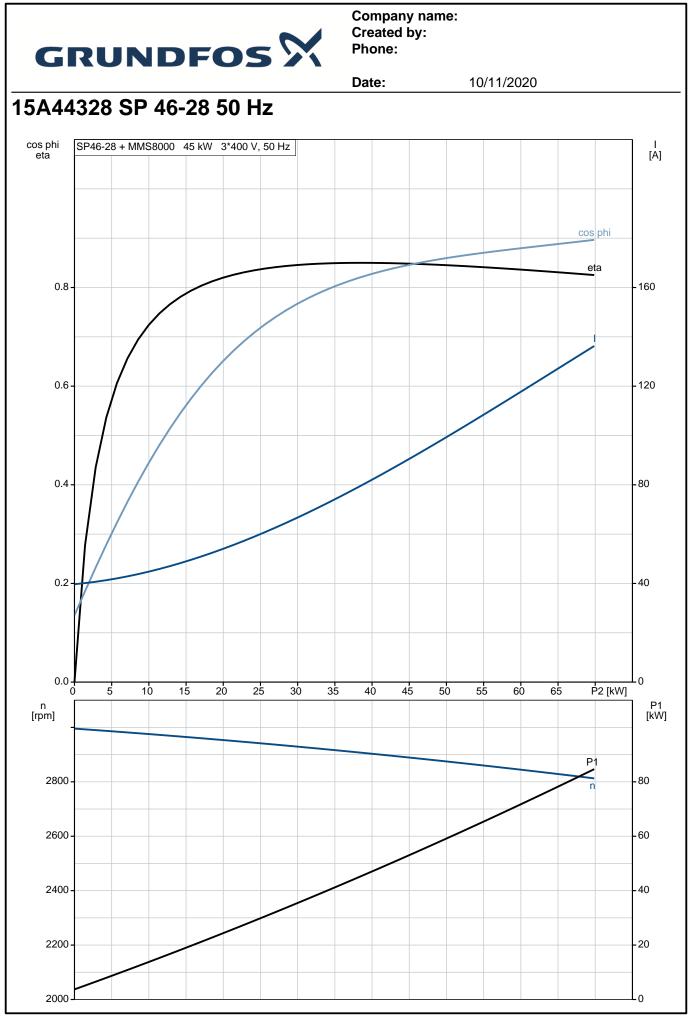


		Date:	10/11/2020	
Description	Value	H [m]	SP 46	-28, 3*400 V, 50Hz
seneral information:				
roduct name:	SP 46-28			
roduct No:	15A44328	400 -		
AN number:	5700318328715			
echnical:		350 -		
ump speed on which pump data are ased:	2900 rpm	300 -		
ated flow:	46 m³/h			
ated head:	246 m	250 -		
Stages:	28			
mpeller reduc.:	NONE	200 -		
Shaft seal for motor:	SIC/SIC			
		150 -		
Curve tolerance:	ISO9906:2012 3B			
lodel:	B	100-		
alve:	YES			
lotor version:	T45	50-		
laterials:				
Pump:	Stainless steel	0	20 30 40	50 Q [m³/h]
ump:	EN 1.4301	P	20 30 40	50 Q [m³/h]
ump:	AISI AISI 304	[kW]		
npeller:	Stainless steel	50 -		P1
npeller:	EN 1.4301	40		
npeller:	AISI AISI 304	40 -		P2
otor:	Cast iron	30-		
lotor:	DIN WNr. 0.6025			
lotor:	ASTM 35-40	20 -		
stallation:				
ump outlet:	R4	10-		
lotor diameter:	8 inch	0		
iquid:		<u>i</u>		
umped liquid:	Water	192 GN	<u>R4</u>	
aximum liquid temperature:	45 °C			
ax liquid t at 0.15 m/sec:	40 °C			
lax liquid t at 0.5 m/sec:	45 °C			
elected liquid temperature:	20 °C			
ensity:	998.2 kg/m ³	373		
lectrical data:				
lotor type:	MMS8000			
pplic. motor:	GRUNDFOS			
ated power - P2:	45 kW			
ower (P2) required by pump:	45 kW			
lains frequency:	50 Hz			
ated voltage:	3 x 380-400-415 V	I I I I I I I I I I I I I I I I I I I		
ated current:	95.5-96.5-96.0 A	192		
tarting current:	560-600-680 %	· .		
os phi - power factor:	0.88-0.82-0.80	L1 L2 L3 PE		
ated speed:	2900-2910-2920 rpm			
tart. method:	direct-on-line			
nclosure class (IEC 34-5):	IP68			
lotor protec:	NONE			
hermal protec:	external			
uilt-in temp. transmitter:	no			
Notor No:	96476891			
Vindings:	PE2/PA	UVWPE		
thers:				
linimum efficiency index, MEI ≥:	0.40			
rP status:	EuP Standalone/Prod.	(M)/		
et weight:	284 kg	3~/		
	20 T NY	~ /		

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