

DATA SHEET

Company		Date	17/02/2023
Project		Item	
		Ref No.	

SNDS 200-500-315

Horizontal, double suction, single stage, axially split volute casing pump

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 400 V
Impeller Diameter	: 525 mm	Motor Power	: 315.00 kW
NPSHr	:	Nominal Speed	: 1488 rpm
Shut Off Head	: 103.5 m		

Liquid Data

Liquid	: Water	Density	: 998.30 kg/m ³
Temperature	: 20 °C	Viscosity	: 1.005 mm ² /s

Pump Data

Design	: Double suction, Single stage	Type of Coupling	: Standard
Installation	: Horizontal	Impeller Type	: Double Suction
Suction Flange	: EN 1092 PN 16-DN 250	Type of Bearing	: Grease Lubricated Bearing
Discharge Flange	: EN 1092 PN 16-DN 200	Type of Shaft Sealing	: Soft Packing
Direction Of Rotation	: Clockwise from the drive end		

Materials

Volute Casing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Impeller	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Shaft	1.4021 / X20Cr13 / ASTM A276 Type 420
Bearing Housing	0.6025 / GG25 / EN-GJL-250 / ASTM A48 Class 40B
Casing Wear Ring	2.1050.01 / G-CuSn10 / ASTM B427 C90700
Shaft Protecting Sleeve	1.4021 / X20Cr13 / ASTM A276 Type 420

Operating Point Data

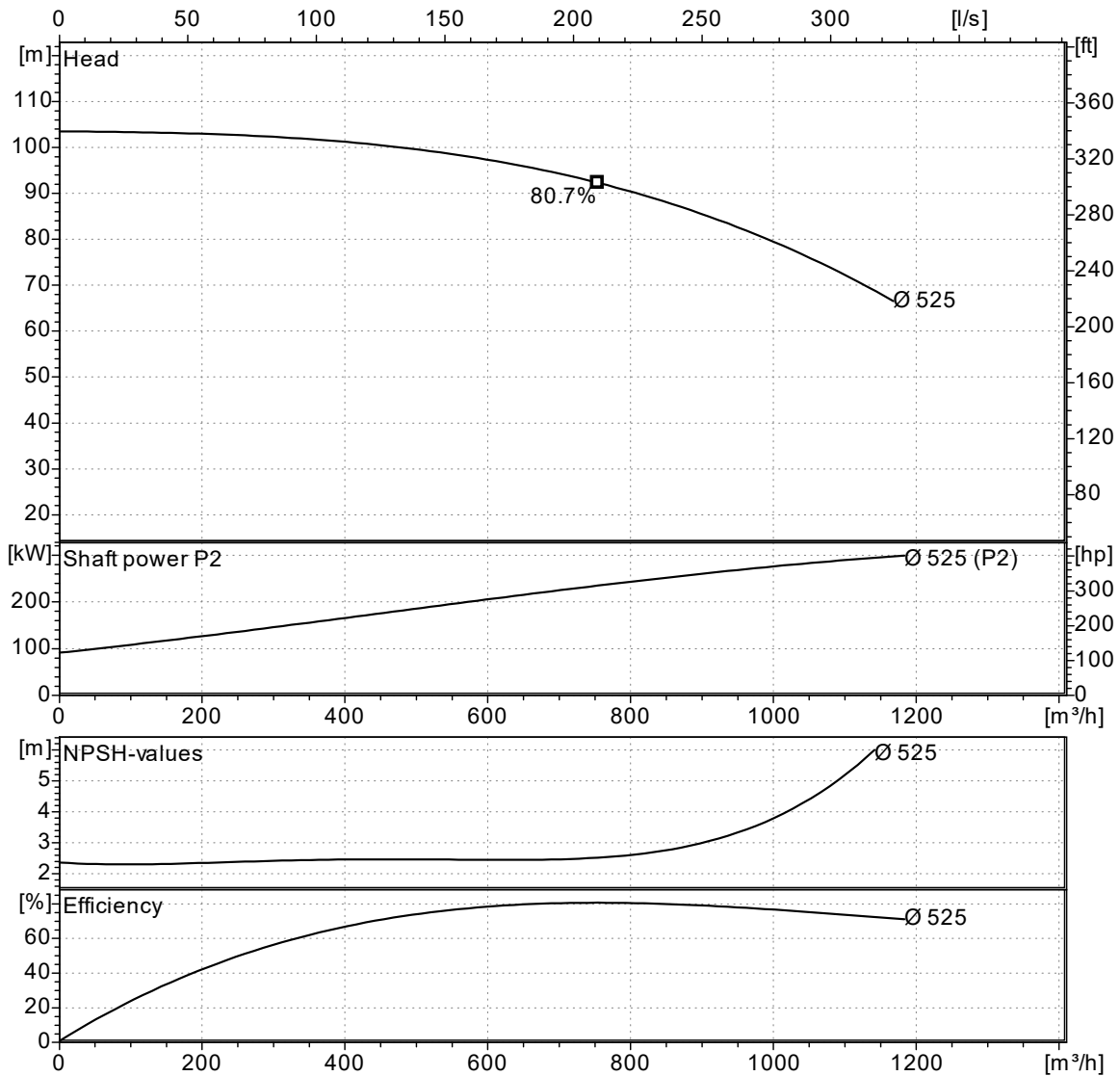
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Capacity:
 Head:
 Efficiency (%):
 Power at Duty Point:
 Viscosity: 1.005 mm²/s

NPSHr:
 Motor Power: 315.00 kW
 Nominal Speed: 1488 rpm
 Frequency: 50 Hz
 Density: 998.30 kg/m³



Curves compatible with ISO 9906:2012 Gr 3B
 NPSHa > NPSHr + 1m
 Note : The motor power is not sufficient for dotted area.

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Pump Dimensions



Name	Value
a1	550
a2	500
d	65
DNb	200
DNe	250
h1	560
h2	300
h3	380
l	130
l1	645
l2	500
l3	1145
m1	360
m2	420
n1	620
n2	720
s	22
W	700 kg

Note : l1 and l2 replaced each other since pump shaft rotates counter-clockw ise.

Flange Dimensions



Suction Flange	Discharge Flange
AB = 250	AB = 200
Df = 405	Df = 340
k = 355	k = 295
n = 12	n = 12
s = 28	s = 23

" n " number of holes

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Motor Data

Efficiency Level :
 Motor type : Three-Phase Asynchronous Motor
 Motor Power : 315.0 kW
 Rated Speed : 1450 rpm
 Voltage : 400 V
 Rated Current : 0.00 A
 Frequency : 50 Hz
 Motor Phase : 3
 Service Factor : 1.15
 Insulation Class : F
 Degree of Protection : IP 55
 Efficiency : - %
 Power factor : 0.00