

DATA SHEET

Company		Date	23/02/2023
Project		Item	
		Ref No.	

SNDS 80-315-160

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

Operating Point Data

Capacity	:	Power at Duty Point	:
Head	:	Frequency	: 50 Hz
Efficiency (%)	:	Voltage	: 380 V
Impeller Diameter	: 320 mm	Motor Power	: 160.00 kW
NPSHr	:	Nominal Speed	: 2980 rpm
Shut Off Head	: 147.8 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 125	Type of Bearing	: Grease Lubricated Bearing
Discharge Flange	: EN 1092 PN 16-DN 80	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

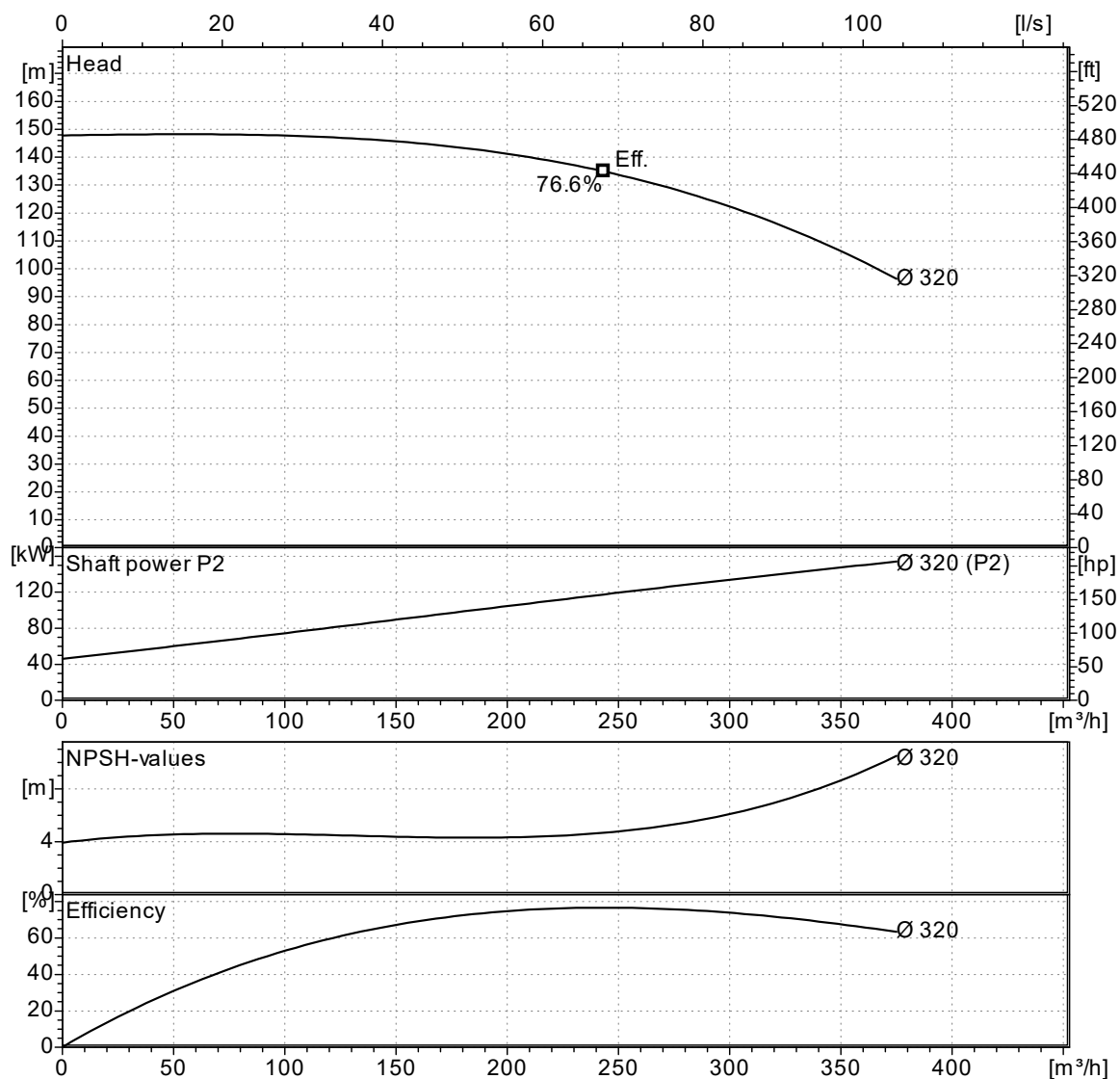
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Capacity:		NPSHr:	
Head:		Motor Power:	160.00 kW
Efficiency (%):		Nominal Speed:	2980 rpm
Power at Duty Point:		Frequency:	50 Hz
Viscosity:	1.005 mm ² /s	Density:	998.30 kg/m ³



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	360
a2	300
d	35
DNb	80
DNe	125
h1	300
h2	140
h3	260
l	80
l1	400
l2	310
l3	710
m1	230
m2	300
n1	400
n2	460
s	20
W	197 kg

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

Flange Dimensions



Suction Flange	Discharge Flange
AB = 125	AB = 80
Df = 250	Df = 200
k = 210	k = 160
n = 8	n = 8
s = 19	s = 19

" n " number of holes

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Motor Data

Efficiency Level :
 Motor type : Three-Phase Asynchronous Motor
 Motor Power : 160.0 kW
 Rated Speed : 2950 rpm
 Voltage : 380 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