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Technical data

Offshore K8.50 - 1

With motor

NU 611-2/5-o

Project ID Untitled project 2025-03-03 23:00:00.495
Project name
Installation location
Customer pos. No.

Date 2025-03-04

Operating data specification

Pumped fluid	Water
Operating temperature t A	20
pH at t A	
Density at t A	998.3 kg/m ³
Kin. viscosity at t A	1.005 mm ² /s
Rated frequency	50
Rated flow	
Rated head	
Geodetic head	
Max. inlet pressure	0 kPa
Installation type	Vertical installation

Duty point data

Volume flow	
Head	
Shaft power P ₂	P ₂
Hydr. efficiency η _{hyd.}	
Power input P ₁	P ₁
Required pump NPSH	
Rotational speed	2876 1/min

Pump

Make	WILO
Pump type	Offshore K8.50
Frame size	8" (Ø192 - Ø216)
Sense of rotation	Counter clockwise
Max. operating pressure	3 bar
Stages	1
Impeller type	Semi axial impeller
Shut off head	31 m
Max. shaft power	5.12 kW
Weight of unit	71.4 kg
(without detachable Accessories)	

Discharge port

Pressure rating	PN63
Rated diameter	G 5 I
Standard	DIN ISO 228-1 (I)

Impeller Ø

Max.	143 mm
Min.	113 mm
designed	143 mm

Flow

	Referring to: Speed in operating point
Nominal	13.7 l/s
Max-	23.3 l/s
Min-	0 l/s

Motor

	Referring to: Rated speed
Manufacturer / Type	NU 611-2/5-o
Specific design	NU (glycol filling)
Rated power	5.5 kW
Electric voltage	400 V
Power input with rated power	6.9 kW
Current input with rated power	12 A
Number of poles	2
Rated speed	2850 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.85/0.83/0.77/0.67/0.49
cos phi with starting	0
Efficiency	78/80/79/75/63
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	40
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	57 A / 19 A
Starting torque	29 Nm
Inertia moment	0.0166 kg m ²
Starts per hour max.	20
Degree of protection	IP 68
Weight of motor	44 kg
Motor connection cable	4G2,5 S1BB

Application limits for operation with frequency inverter:

- Max. voltage rise: 500 V/μs
- Max. overvoltage (phase - phase): 1000 V

Pump materials - Material design

	O
Suction piece	1.4517
Stage- /guide casing	1.4517
Impeller	1.4517
Stationary wear ring	EPDM
Pump shaft	1.4462
clamp sleeve	1.4462
Bearing sleeve	EPDM
Connecting screws	A4
Nuts	A4
Non-return valve	1.4517

Motor materials

According to IEC 60034-1
No test norm defined for this product



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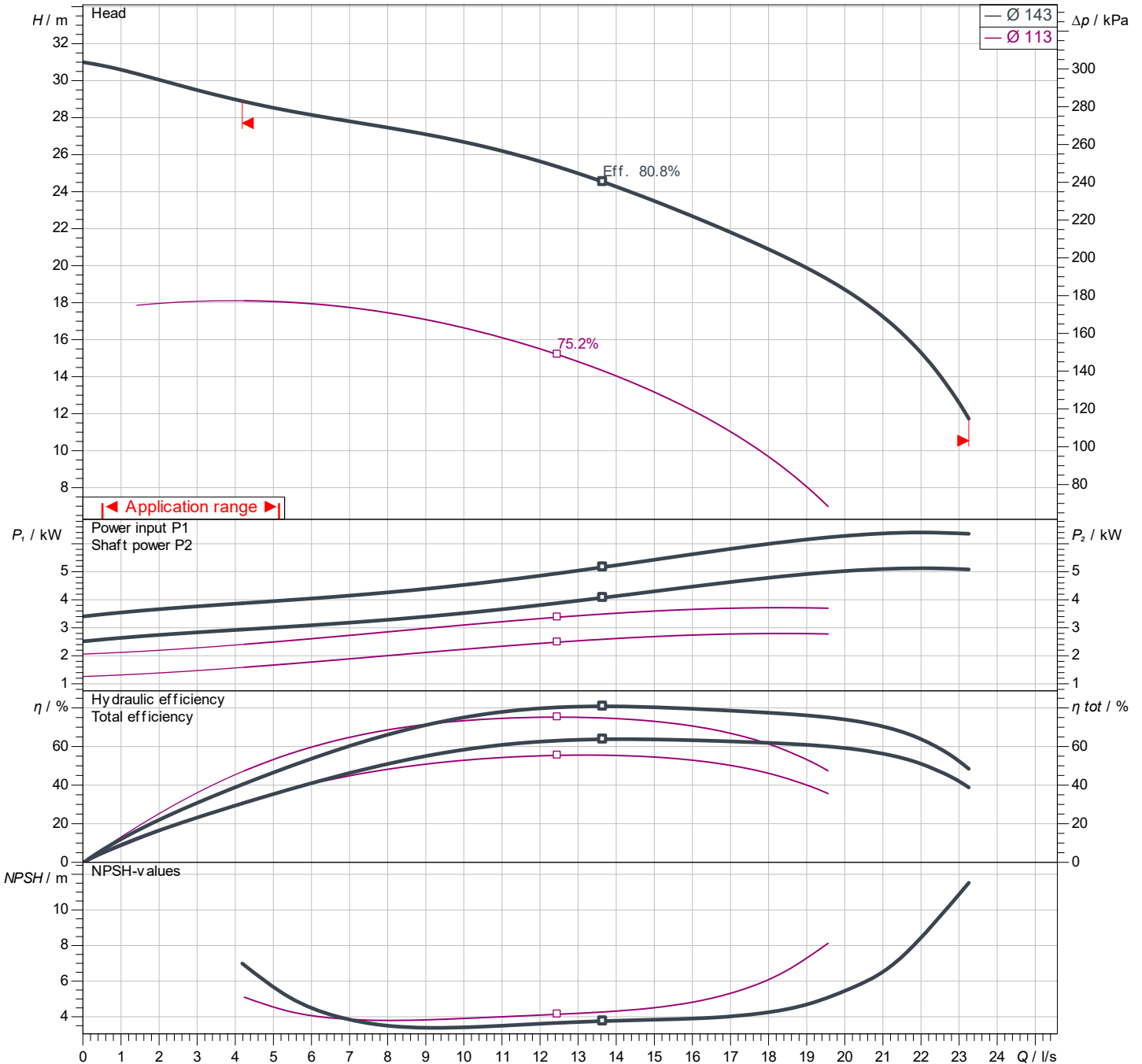
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Pump

Stages	1
Impeller Ø designed	143 mm
Nominal speed	2,900 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

Motor

Rated power	5.5 kW
Sel. explosion protection	

Duty point data

Volume flow	
Head	
Shaft power P2	P ₂
Hydr. efficiency η hyd.	
Power input P1	P ₁
Required pump NPSH	
Rotational speed	2876 1/min

Subject to change

Software version
Data version

Spaix® 5-2024.2 - 2024/09/18 (Build 140), 64 bit
21.11.2024

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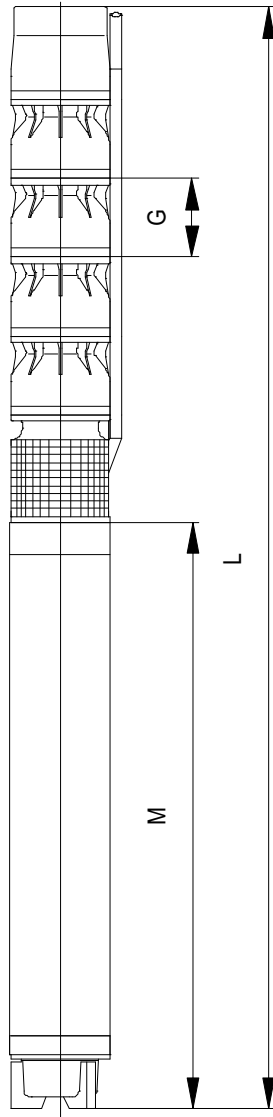
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Dimensions

Name	Value	Name	Value
G	124 mm		
L	1,198 mm		
M	697 mm		

Connections

Discharge port	G 5 I PN 63 PN63
Intake piece	
Non-return valves	no