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Technical data

Offshore K 146 - 1

With motor

NU 801T-2/75-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	2924 1/min

Pump

Make	WILO
Pump type	Offshore K 146
Frame size	15" (Ø340 - Ø350)
Sense of rotation	Counter clockwise
Max. operating pressure	6.4 bar
Stages	1
Impeller type	Semi axial impeller
Shut off head	65.5 m
Max. shaft power	50.7 kW
Weight of unit	272 kg
(without detachable Accessories)	

Discharge port

Pressure rating	PN 10
Rated diameter	DN 200
Standard	EN 1092-2

Impeller Ø

Max.	209 mm
Min.	183 mm
designed	209 mm

Flow

Referring to: Speed in operating point	
Nominal	87.8 l/s
Max-	121 l/s
Min-	30.4 l/s

Motor

Referring to: Rated speed	
Manufacturer / Type	NU 801T-2/75-o
Specific design	NU (drinking water filling)
Rated power	60 kW
Electric voltage	380 V
Power input with rated power	68.6 kW
Current input with rated power	121.1 A
Number of poles	2
Rated speed	2905 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.89/0.86/0.82/0.73/0.53
cos phi with starting	0
Efficiency	86.1/87.5/87.7/84.7/70.9
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	40
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	760 A / 253.3 A
Starting torque	340 Nm
Inertia moment	0.0423 kg m ²
Starts per hour max.	10
Degree of protection	IP 68
Weight of motor	180 kg
Motor connection cable	4G25 S07BB

Application limits for operation with frequency inverter:

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

Pump materials - Material design

Offshore	
Suction piece	G-Cu Sn10
Stage- /guide casing	G-Cu Sn10
Discharge PN 10-16	G-Cu Sn10
Discharge PN 25-40	G-Cu Sn10
Impeller	G-CuAl10Ni
Stationary wear ring	1.4580
Pump shaft	1.4462
Shaft sleeve	1.4401 / 1.4404
Pump end bearing	1.4571 + NBR
Screws / tightening bolt	A 4 - 70 / A 4

Motor materials

Material design:	O
Shaft sealing:	mech. shaft seal
Motor shroud:	1.4571
Housing components:	1.4517
Motor shaft:	1.4462 WZ
Seals:	EPDM
Screws and nuts:	A4

According to IEC 60034-1

No test norm defined for this product

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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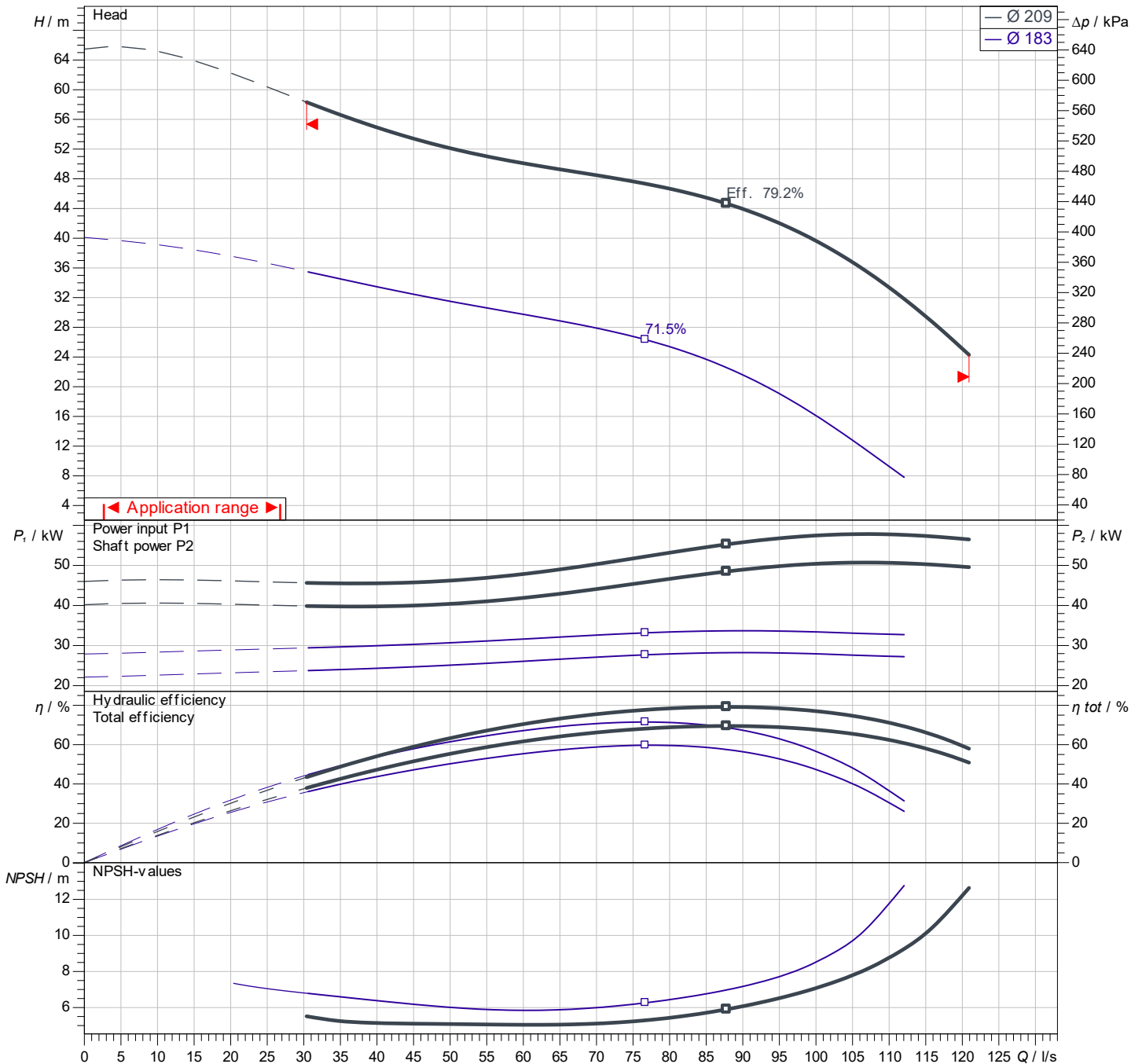
Untitled project 2025-03-03 23:00:00.495

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Pump

Stages	1
Impeller Ø designed	209 mm
Nominal speed	2,900 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

Motor

Rated power	60 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	2924 1/min

Subject to change

Software version
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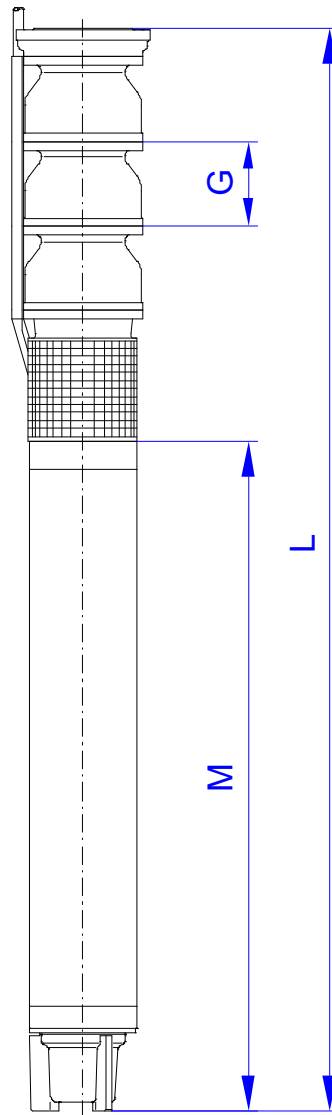
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Dimensions

Name	Value	Name	Value
G	200 mm		
L	1,875 mm		
M	1,345 mm		

Connections

Discharge port	DN 200 PN 10 PN 10
Intake piece	
Non-return valves	no