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Technical data

Offshore K 147 - 3

With motor

NU 122T-2/110-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	2934 1/min

Pump

Make	WILO
Pump type	Offshore K 147
Frame size	15" (Ø345 - Ø450)
Sense of rotation	Counter clockwise
Max. operating pressure	19.3 bar
Stages	3
Impeller type	Semi axial impeller
Shut off head	197 m
Max. shaft power	200 kW
Weight of unit	856 kg
(without detachable Accessories)	

Discharge port

Pressure rating	PN 25
Rated diameter	DN 200
Standard	EN 1092-2

Impeller Ø

Max.	214 mm
Min.	180 mm
designed	214 mm

According to IEC 60034-1

No test norm defined for this product

Flow

Referring to: Speed in operating point	
Nominal	115 l/s
Max-	158 l/s
Min-	30.5 l/s

Motor

Referring to: Rated speed	
Manufacturer / Type	NU 122T-2/110-o
Specific design	NU (drinking water filling)
Rated power	215 kW
Electric voltage	1,000 V
Power input with rated power	244.6 kW
Current input with rated power	172.2 A
Number of poles	2
Rated speed	2928 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.84/0.82/0.78/0.7/0.53
cos phi with starting	0
Efficiency	89/87.9/86.3/83.3/75.1
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	40
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	1,140 Å 380 A
Starting torque	930 Nm
Inertia moment	0.3318 kg m ²
Starts per hour max.	10
Degree of protection	IP 68
Weight of motor	680 kg
Motor connection cable	6X 1X50 + 1X50 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 version:	Offshore
Shaft sealing:	Mechanical seal
Stator tube:	G-Cu Sn 10
Upper bearing housing:	G-Cu Sn 10
Lower bearing housing:	G-Cu Sn 10
Lower part:	G-Cu Sn 10
Shaft journal:	1 4462
Rubber parts:	EPDM
Screws and nuts:	A4 - 70



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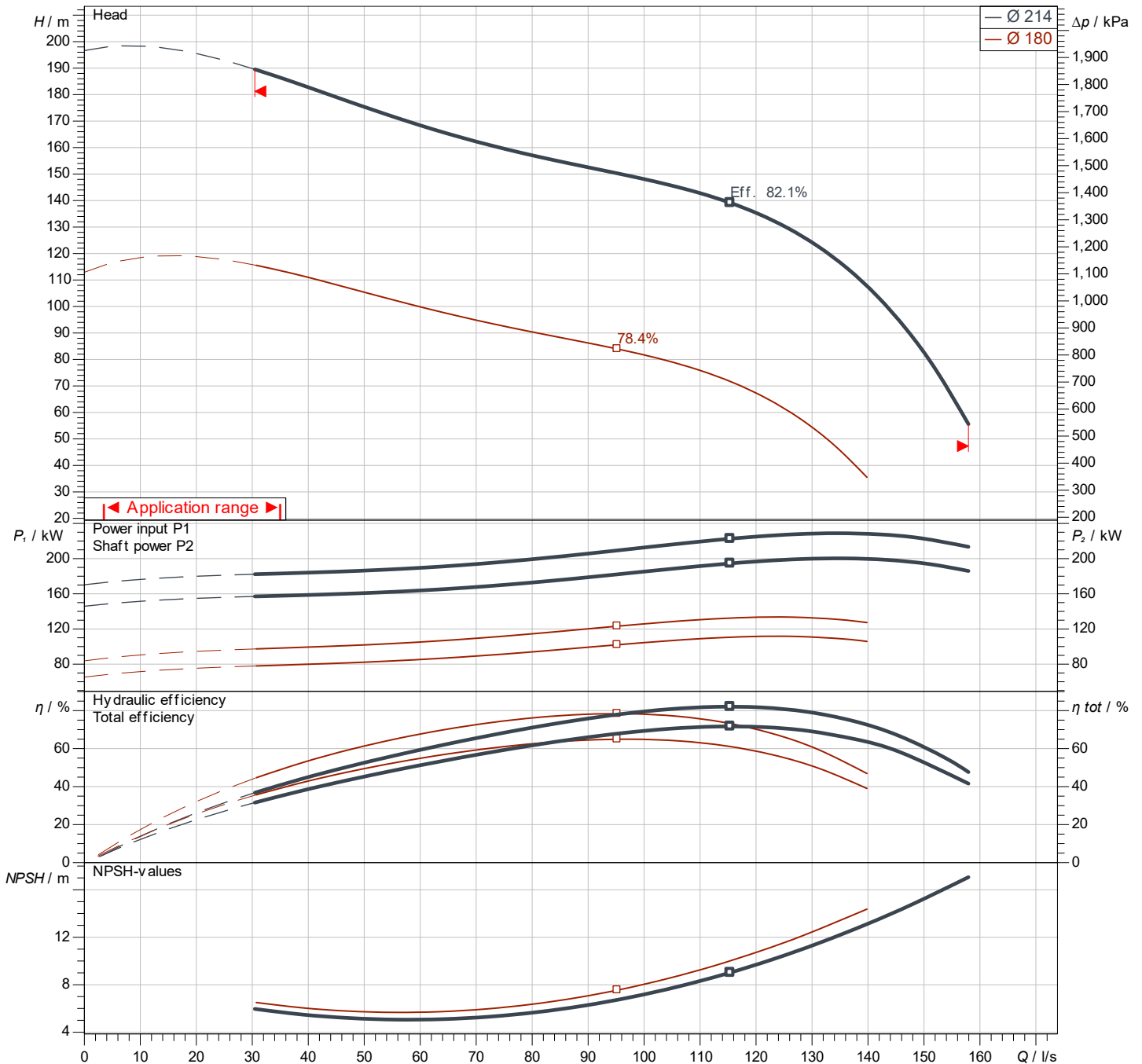
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Pump

Stages	3
Impeller Ø designed	214 mm
Nominal speed	2,900 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

Motor

Rated power	215 kW
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Sel. explosion protection

Subject to change

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	2934 1/min

Software version
Data version

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

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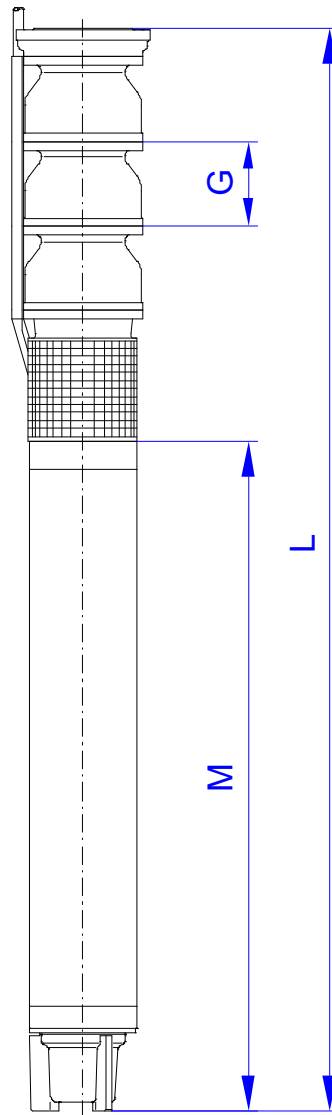
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Dimensions

Name	Value	Name	Value
G	210 mm		
L	3,230 mm		
M	2,270 mm		

Connections

Discharge port	DN 200 PN 25 PN 25
Intake piece	
Non-return valves	no