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Technical data

Offshore K10.220 - 15

With motor

NU 122-2/135-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	2884 1/min

Pump

Make	WILO
Pump type	Offshore K10.220
Frame size	10" (Ø245 - Ø275)
Sense of rotation	Counter clockwise
Max. operating pressure	63.1 bar
Stages	15
Impeller type	Semi axial impeller
Shut off head	645 m
Max. shaft power	359 kW
Weight of unit	1120.2 kg
(without detachable Accessories)	

Discharge port

Pressure rating	PN63
Rated diameter	G 6 I
Standard	DIN ISO 228-1 (I)

Impeller Ø

Max.	186 mm
Min.	150 mm
designed	186 mm

Flow

Referring to: Speed in operating point

Nominal	67.1 l/s
Max-	89.5 l/s
Min-	0 l/s

Motor

Referring to: Rated speed

Manufacturer / Type	NU 122-2/135-o
Specific design	NU (glycol filling)
Rated power	265 kW
Electric voltage	1,000 V
Power input with rated power	298.4 kW
Current input with rated power	202.7 A
Number of poles	2
Rated speed	2903 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.86/0.85/0.82/0.76/0.57
cos phi with starting	0
Efficiency	89.8/88.8/87.4/84.8/77.4
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	40
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	1,460 A / 486.7 A
Starting torque	1180 Nm
Inertia moment	0.3557 kg m ²
Starts per hour max.	10
Degree of protection	IP 68
Weight of motor	755 kg
Motor connection cable	6X 1X70 + 1X70 S07BB

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

Material version:	A
Shaft sealing:	Mechanical seal
Stator tube:	St
Upper bearing housing:	EN - GJL 200
Lower bearing housing:	EN - GJL 200
Lower part:	EN - GJL 200
Shaft journal:	1.4462
Rubber parts:	EPDM
Screws and nuts:	A2 - 70

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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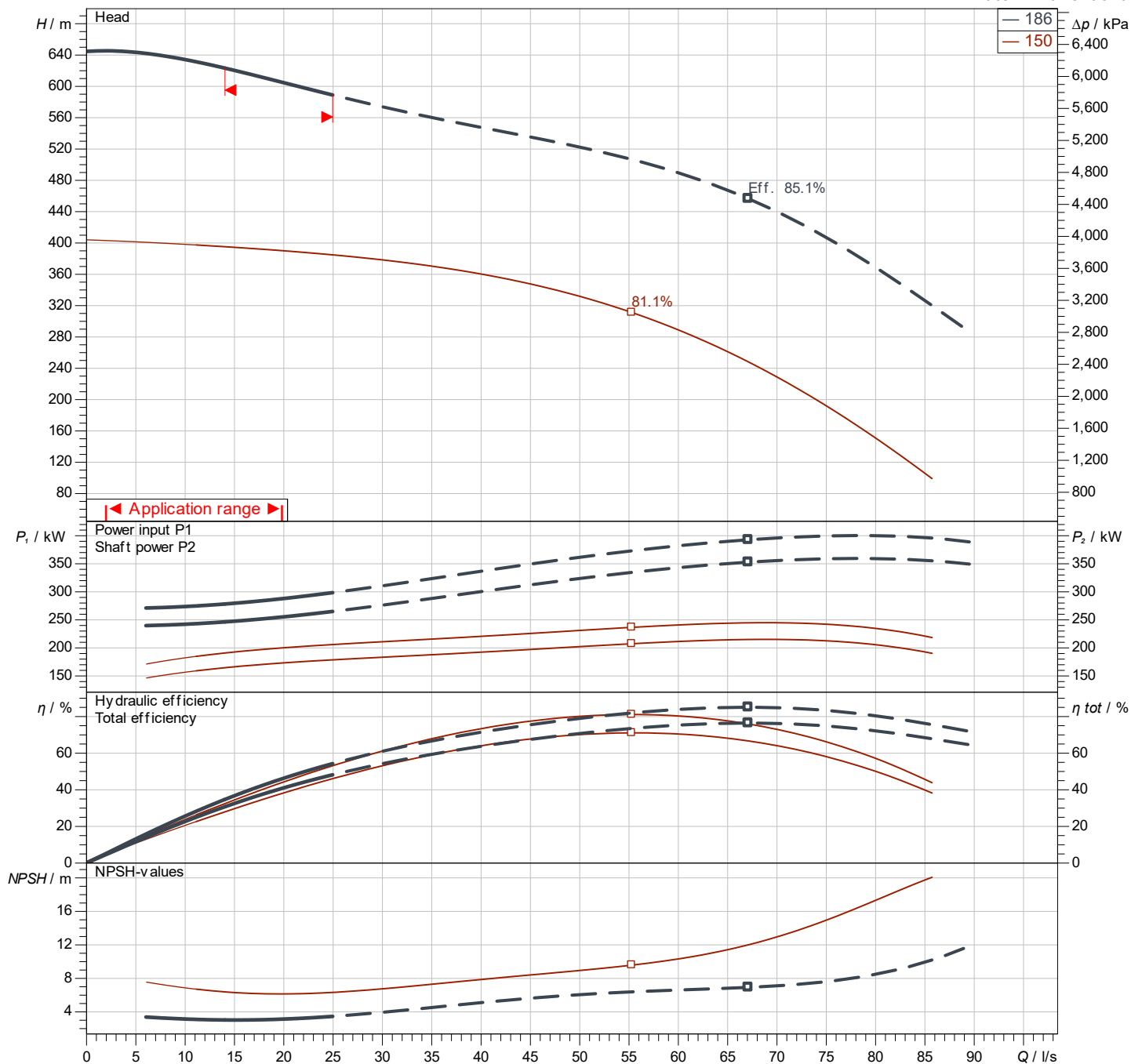
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Pump

Stages	15
Impeller Ø	designed 186 mm
Nominal speed	2,900 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

Motor

Rated power	265 kW
Sel. explosion protection	

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	2884 1/min

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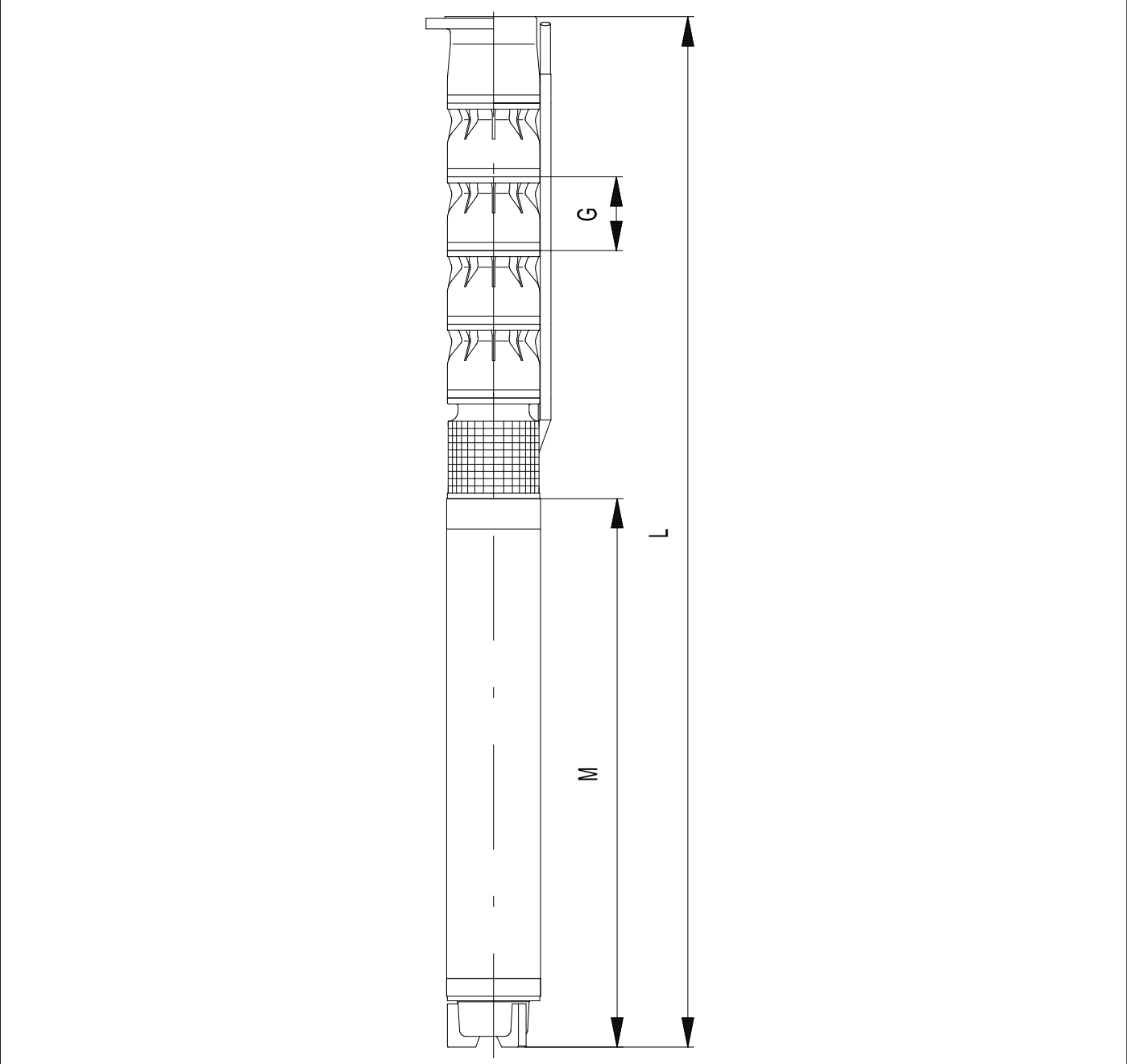
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Dimensions

Name	Value	Name	Value
G	170 mm		
L	5,610 mm		
M	2,520 mm		

Connections

Discharge port	RV G 6 I PN 63 PN63
Intake piece	
Non-return valves	no