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## Technical data

### D 200 - 6

With motor  
**NU 911-4/90**

Project ID                      Untitled project 2025-03-30 07:06:50.818  
Project name  
Installation location  
Customer pos. No.

Date    2025-03-30

#### Operating data specification

Pumped fluid	Water
Operating temperature t A	20
pH at t A	
Density at t A	998.3 kg/m <sup>3</sup>
Kin. viscosity at t A	1.005 mm <sup>2</sup> /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 <sub>2</sub>	P <sub>2</sub>
Hydr. efficiency η <sub>hyd.</sub>	
Power input P <sub>1</sub>	P <sub>1</sub>
Required pump NPSH	
Rotational speed	1397 1/min

#### Pump

Make	WILO
Pump type	D 200
Frame size	16" (Ø 354 - Ø 374)
Sense of rotation	Counter clockwise
Max. operating pressure	9.2 bar
Stages	6
Impeller type	Semi axial impeller
Shut off head	93.7 m
Max. shaft power	68.8 kW
Weight of unit	825.5 kg
(without detachable Accessories)	

#### Discharge port

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

#### Impeller Ø

Max.	238 mm
Min.	211 mm
designed	238 mm

#### Flow

Referring to: Speed in operating point	
Nominal	78 l/s
Max-	128 l/s
Min-	24.7 l/s

#### Motor

Referring to: Rated speed	
Manufacturer / Type	NU 911-4/90
Specific design	NU (glycol filling)
Rated power	78 kW
Electric voltage	400 V
Power input with rated power	91.2 kW
Current input with rated power	196.5 A
Number of poles	4
Rated speed	1363 1/min
Load	125 / 100 / 75 / 50 / 25 %
cos phi	0.69/0.67/0.64/0.61/0.52

cos phi with starting	
Efficiency	83/85.5/86.6/86.9/77
Operation type (VDE 0530)	S1 immersed
Max. fluid temperature	25
Min. flow velocity	0.1
Starting curr. d-o-l/ YD	820 A / 273.3 A
Starting torque	655 Nm
Inertia moment	0.2417 kg m <sup>2</sup>
Starts per hour max.	10
Degree of protection	IP 68
Weight of motor	347 kg
Motor connection cable	Eingetaucht, 4G16 + 4G16 S07B

Application limits for operation with frequency inverter:

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

#### Pump materials - Material design

<b>A</b>	
Suction piece	EN - GJL
Stage- /guide casing	EN-GJL-300
Impeller	G-CuAl10Ni
Stationary wear ring	1.4580
Pump shaft	1.4021
Shaft sleeve	1.4021
Pump end bearing	Brass + NBR
Connecting screws	A 2 - 70
Nuts	A 2 - 70

#### Motor materials

Material version:	A
Motor seal:	Mechanical seal
Motor shroud:	1.4571
Housing components:	EN - GJL 250
Motor shaft:	1.4462 2WZ
Gaskets:	EPDM
Connecting elements:	A4

According to IEC 60034-1

No test norm defined for this product

Subject to change

Software version  
Data version

Spaix® 5-2024.2 - 2024/09/19 (Build 140), 64 bit  
20.02.2025

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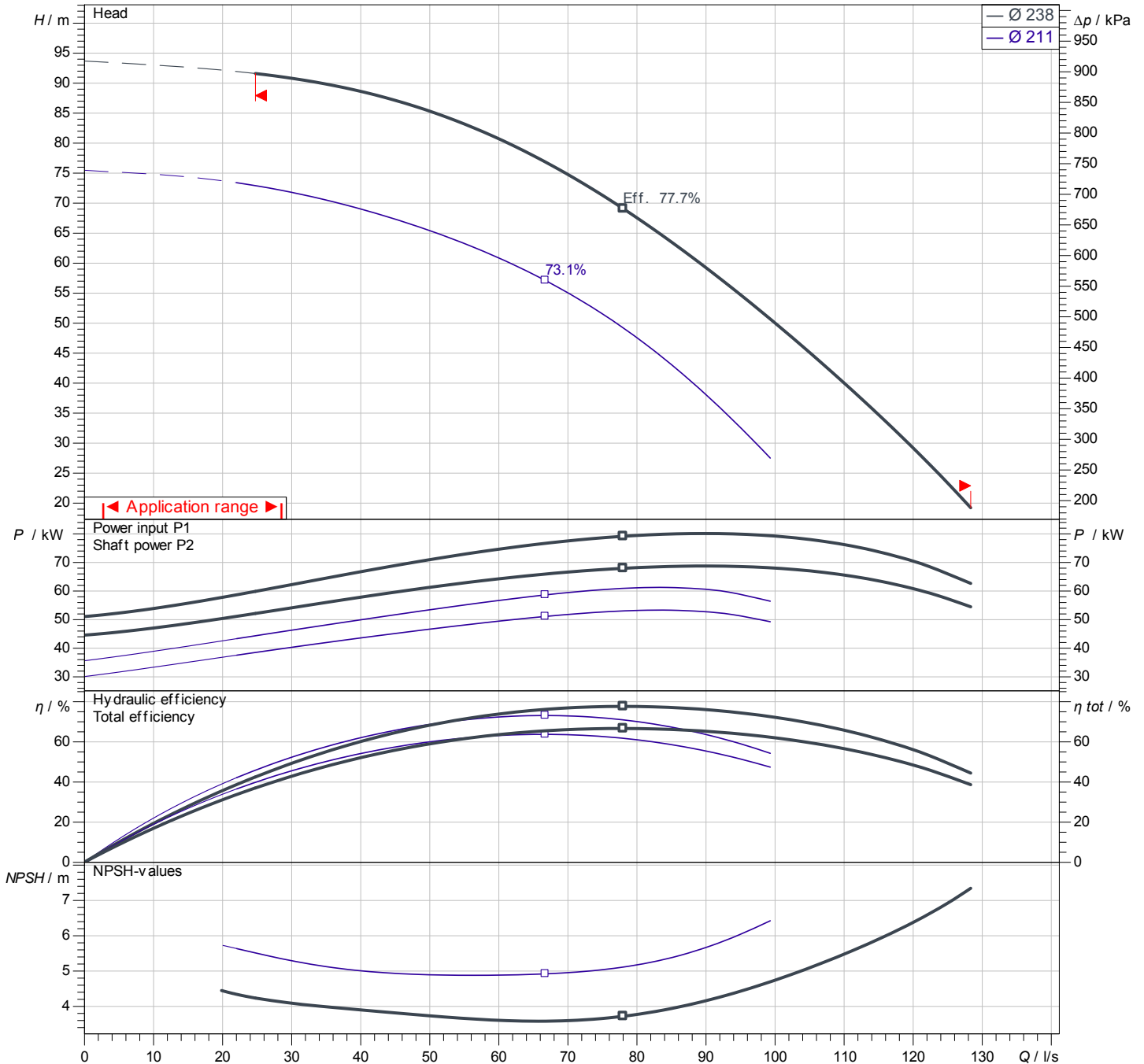
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### Pump

Stages	6
Impeller Ø designed	238 mm
Nominal speed	1,400 1/min
Frequency	50 Hz
Impeller type	Semi axial impeller

### Motor

Rated power	78 kW
Sel. explosion protection	

### Duty point data

Volume flow	
Head	
Shaft power P2	P <sub>2</sub>
Hydr. efficiency η hyd.	
Power input P1	P <sub>1</sub>
Required pump NPSH	
Rotational speed	1397 1/min

Subject to change

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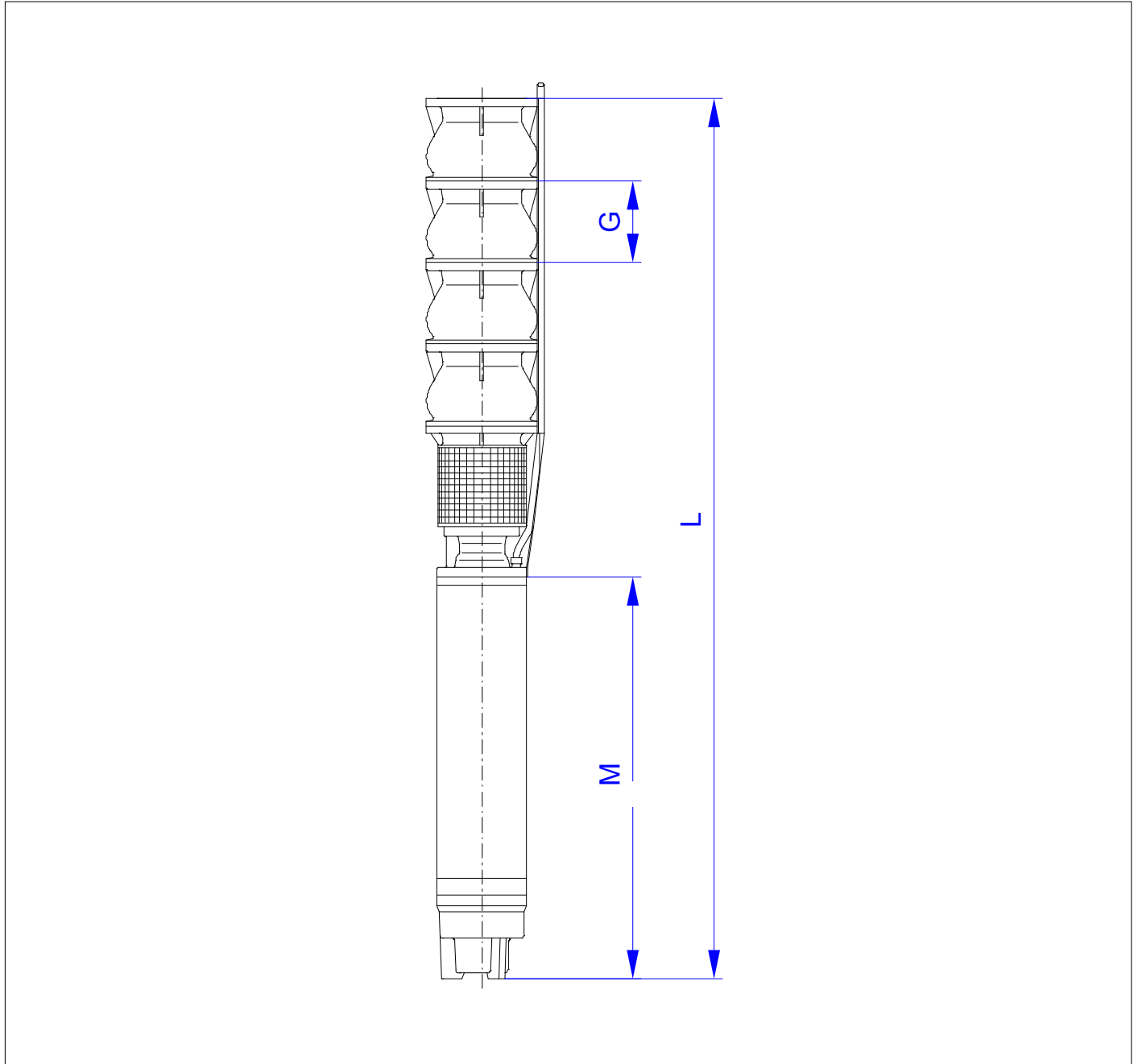
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### Dimensions

Name	Value	Name	Value
G	250 mm		
L	3,526 mm		
M	1,710 mm		

### Connections

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