



Contact  
E-mail  
Phone

Customer

Contact  
E-mail  
Phone

## Technical data

### Offshore K12.380 - 1

With motor

#### NU 801-2/75-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 °C
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	2913 1/min

#### Pump

Make	WILO
Pump type	Offshore K12.380
Frame size	12" (Ø275 - Ø300)
Sense of rotation	Counter clockwise
Max. operating pressure	6.5 bar
Stages	1
Impeller type	Semi axial impeller
Shut off head	66.2 m
Max. shaft power	57.8 kW
Weight of unit	274.9 kg
(without detachable Accessories)	

#### Discharge port

Pressure rating	PN40
Rated diameter	8" NPT I
Standard	ANSI B 1.20.1
Non-return valves	Yes

#### Impeller Ø

Max.	224 mm
Min.	179 mm
designed	224 mm

#### Flow

	Referring to: Speed in operating point
Nominal	106 l/s
Max-	151 l/s
Min-	0 l/s

#### Motor

	Referring to: Rated speed
Manufacturer / Type	NU 801-2/75-o
Specific design	NU (glycol filling)
Rated power	60 kW
Electric voltage	380 ~3 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 °C
Min. flow velocity	0.1 m/s
Starting curr. d-o-l/ YD	760 A / 253.3 A
Starting torque	340 Nm
Inertia moment	0.0423 kg m <sup>2</sup>
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

	O
Suction piece	1.4517
Stage- /guide casing	1.4517
Impeller	1.4517
Stationary wear ring	1.4470
Pump shaft	1.4462
clamp sleeve	1.4462
Shaft sleeve	1.4462
Bearing sleeve	EPDM
Connecting screws	A4
Nuts	A4

#### 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

Pump curves in accordance with ISO 9906: 2012 2B

Subject to change

Software version  
Data version

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

Pages 1 / 3



Contact  
E-mail  
Phone

Customer

Contact  
E-mail  
Phone

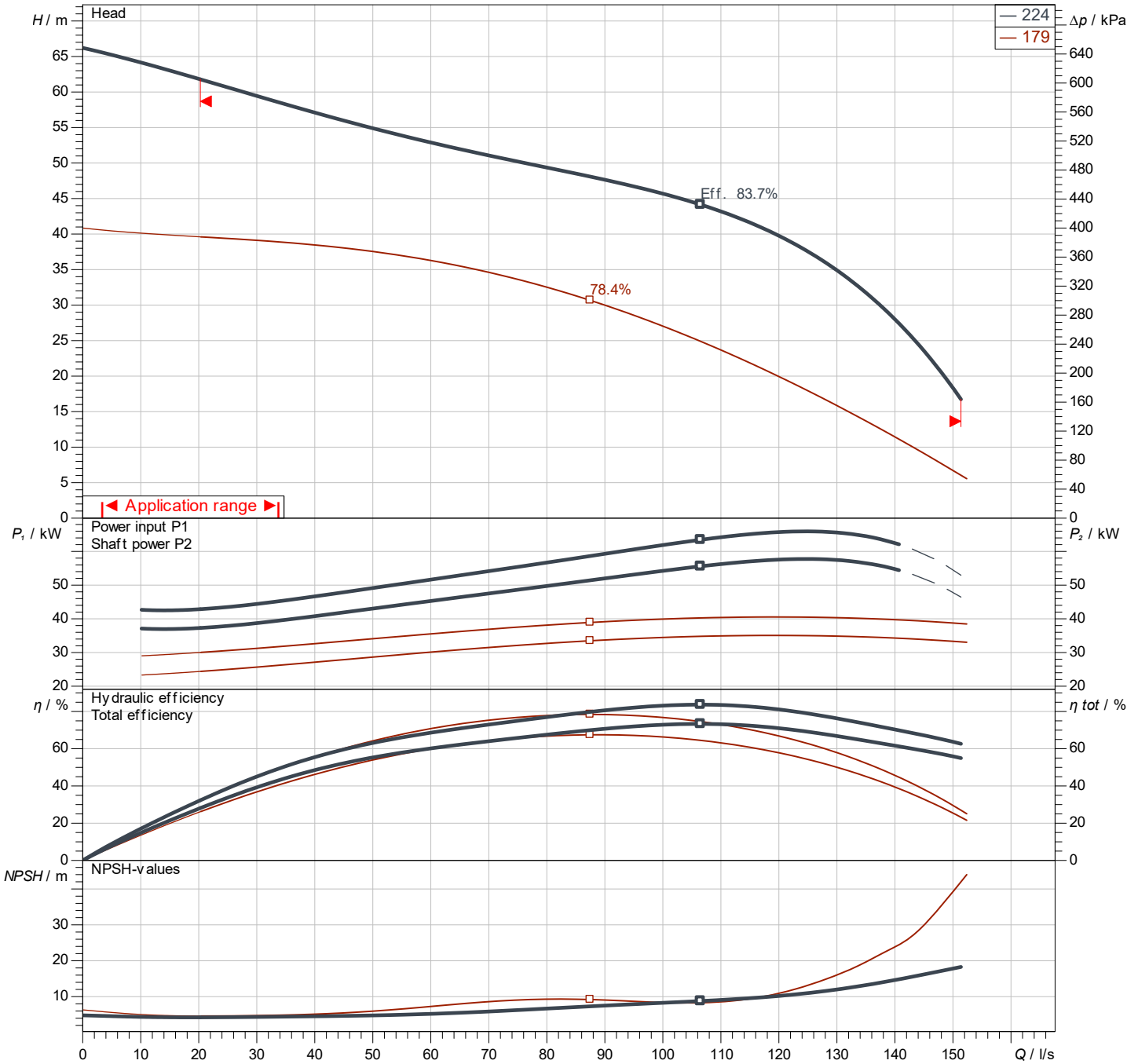
## Technical data

### Offshore K12.380 - 1

With motor  
**NU 801-2/75-o**

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

Date 2025-03-04



#### Pump

Stages	1
Impeller Ø	designed 224 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 <sub>2</sub>
Hydr. efficiency η hyd.	
Power input P1	P <sub>1</sub>
Required pump NPSH	
Rotational speed	2913 1/min

Subject to change

Software version  
Data version

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

Pages 2 / 3

Contact  
E-mail  
Phone

Customer

Contact  
E-mail  
Phone

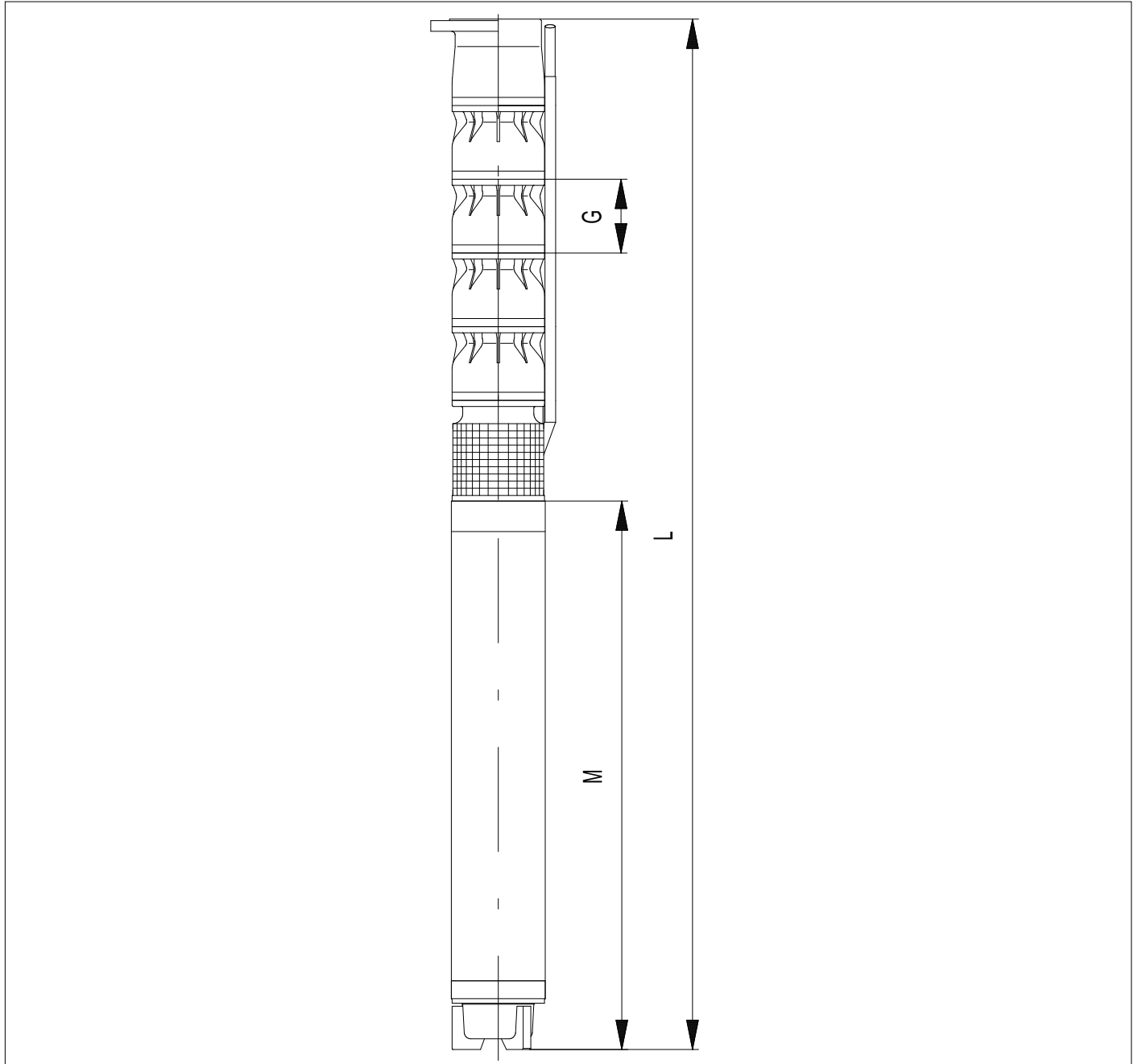
## Technical data

### Offshore K12.380 - 1

With motor  
**NU 801-2/75-o**

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

Date    2025-03-04



#### Dimensions

Name	Value	Name	Value
G	220 mm		
L	2,195 mm		
M	1,345 mm		

#### Connections

Discharge port	RV 8 NPT I PN 40 PN40
Intake piece	
Non-return valves	no