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Technical data

KS 9

With motor
F 12.1-2/6

Project ID Untitled project 2025-03-05 07:27:14.016

Project name

Installation location

Customer pos. No.

Date 2025-03-05

Pump

Pump type	KS 9
Installation type	Transportable
Free passage	5 mm
Nominal speed	3480
Rated frequency	60 Hz
Impeller type	Multi-channel
Impeller construction	Closed

Impeller Ø

max. possible	112 mm
min. possible	112 mm
standard	112
designed	112 mm

Suction port

Rated diameter
Pressure rating
Standard

Discharge port

Rated diameter	G1 1/4
Pressure rating	PN10
Standard	EMU-D

Weights

Weight	max.
Weight of motor	11 kg
Weight of unit	max. 14.5 kg

Materials

Pump housing	EN-GJL-250
Impeller	EN-GJL-250
Motor housing	G-Al Si12

Motor

Motor name	F 12.1-2/6
Number of poles	2
Rated power	0.9 kW
Rated speed	3420 1/min
Power input with rated power	1.4 kW
Rated voltage	200 ~3 V
Current input with rated power	4.7 A
Efficiency with rated power	64 %
cos phi with rated power	0.87
cos phi with starting	0
Rated frequency	60 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	16.2 A
Starting current, star-delta	5.4 A
Starting torque	5 Nm
Inertia moment	0.0007 kg m ²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	4G1,5 H07RN
Max. fluid temperature	40 °C
Starts per hour max.	15

Duty point data

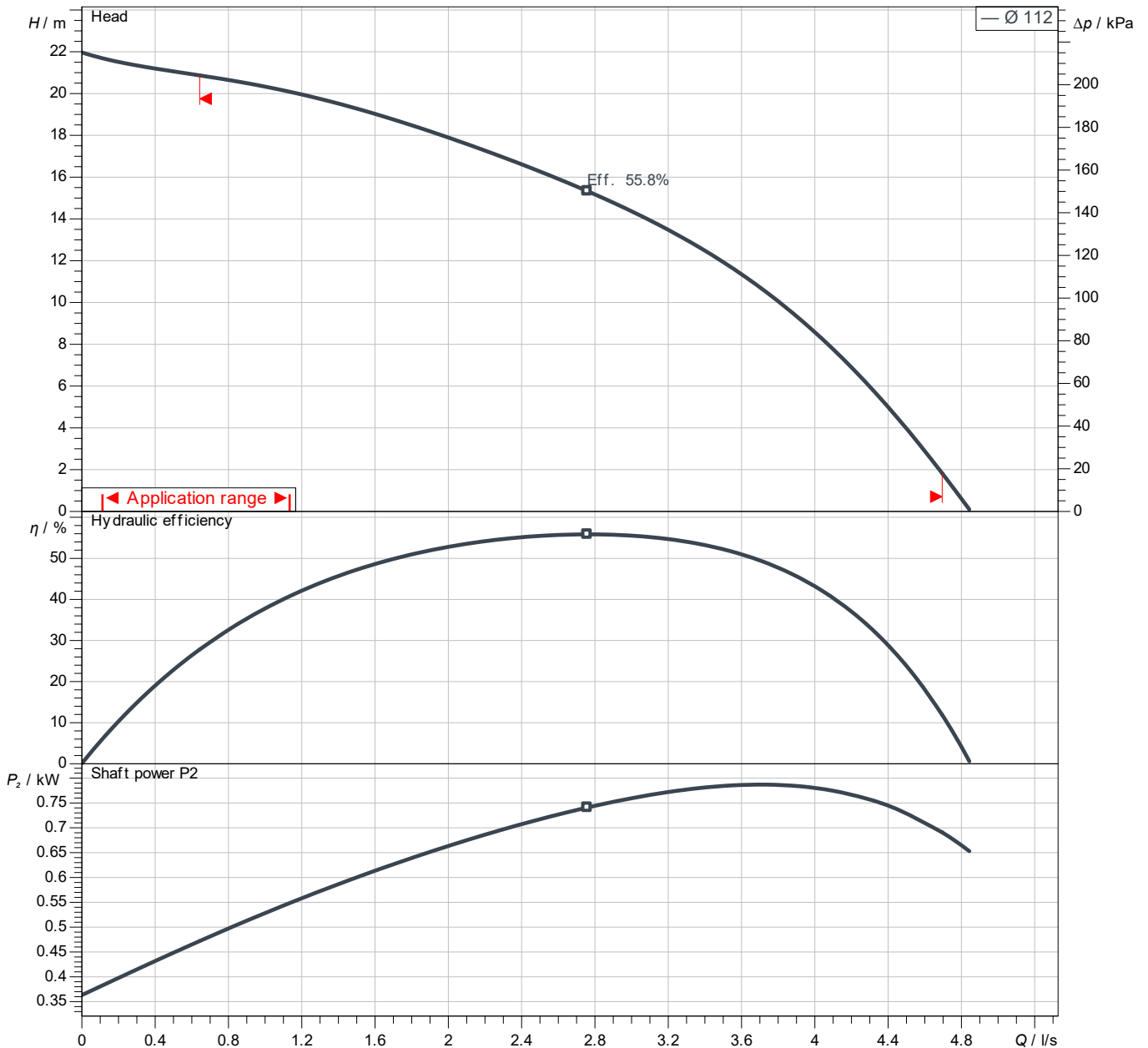
Volume flow	
Head	
Shaft power P ₂	
Hydr. efficiency η _{hyd.}	
Power input P ₁	
Fluid	Water
Required pump NPSH	
Rotational speed	3,450 1/min
Total efficiency	$= \frac{P_2 * \text{Hydr. efficiency } \eta_{\text{hyd.}}}{P_1}$

Weights

Submersible contractor's pump as single stage block unit for stationary, vertical installation, for pumping muddy water which does not attack the pump materials neither chemically nor mechanically.

Service friendly design of the unit by separate pump and motor.

Pumping values to be guaranteed according to ISO 9906 Annex A



Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s
Tolerance as per ISO 9906 / Annex A.2

Pump

Impeller Ø	designed	112 mm
Nominal speed		3,420 1/min
Frequency		60 Hz
Impeller type		Multi-channel

Motor

Rated power	0.9 kW
Sel. explosion protection	

Duty point data

Volume flow	
Head	
Shaft power P2	
Hydr. efficiency η hyd.	
Power input P1	
Required pump NPSH	
Rotational speed	3450 1/min



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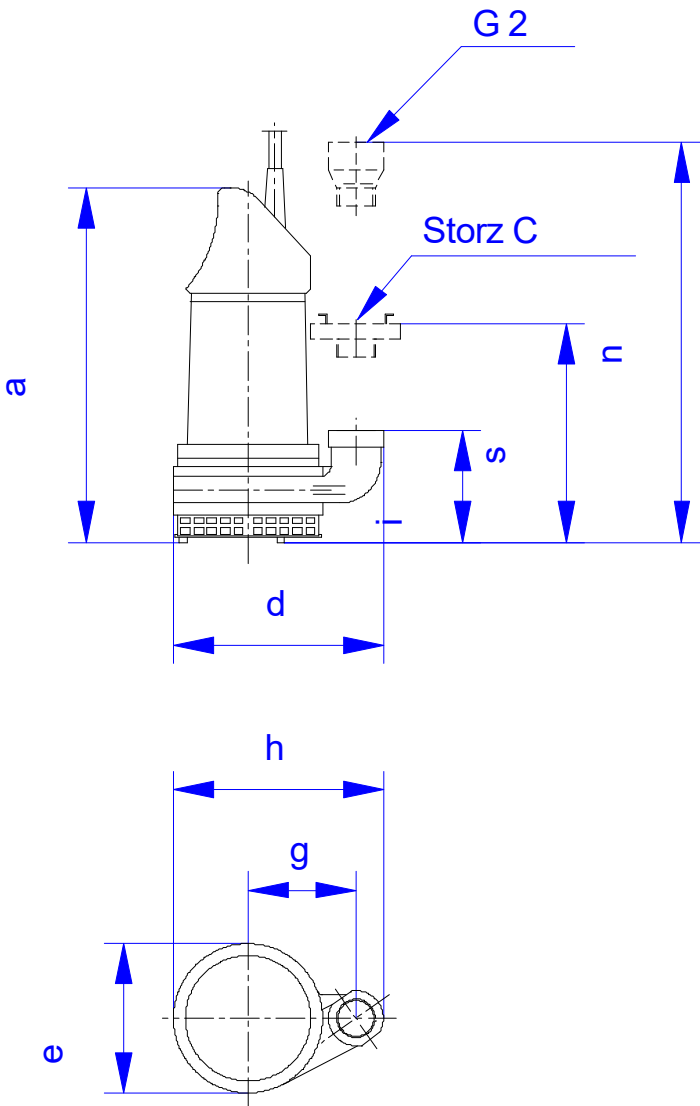
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Dimensions

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Dimensions				Connections	
Name	Value	Name	Value	Suction port	
a	387 mm				
d	230 mm				
e	163 mm				
g	118 mm				
h	230 mm				
i	125 mm				
n	173 mm				
s	143 mm				
				Discharge port	G1 1/4 PN10