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Technical data

KS 24 With motor F 13.1-2/9

Project ID Untitled project 2025-03-30 11:56:43.919
Project name
Installation location
Customer pos. No.

Date 2025-03-30

Pump

| | |
|-----------------------|---------------|
| Pump type | KS 24 |
| Installation type | Transportable |
| Free passage | 5 mm |
| Nominal speed | 2900 |
| Rated frequency | 50 Hz |
| Impeller type | Multi-channel |
| Impeller construction | Closed |

Impeller Ø

| | |
|---------------|--------|
| max. possible | 132 mm |
| min. possible | 132 mm |
| standard | 132 |
| designed | 132 mm |

Suction port

| | |
|-----------------|--|
| Rated diameter | |
| Pressure rating | |
| Standard | |

Discharge port

| | |
|-----------------|-------|
| Rated diameter | G3 |
| Pressure rating | PN10 |
| Standard | EMU-D |

Weights

| | |
|-----------------|------------|
| Weight | max. 6 kg |
| Weight of motor | 34 kg |
| Weight of unit | max. 40 kg |

Materials

| | |
|----------------------|--------------|
| Pump housing | EN-GJL-250 |
| Stationary wear ring | EN-GJS-500-7 |
| Impeller | EN-GJS-500-7 |
| Motor housing | G-Al Si12 |

Motor

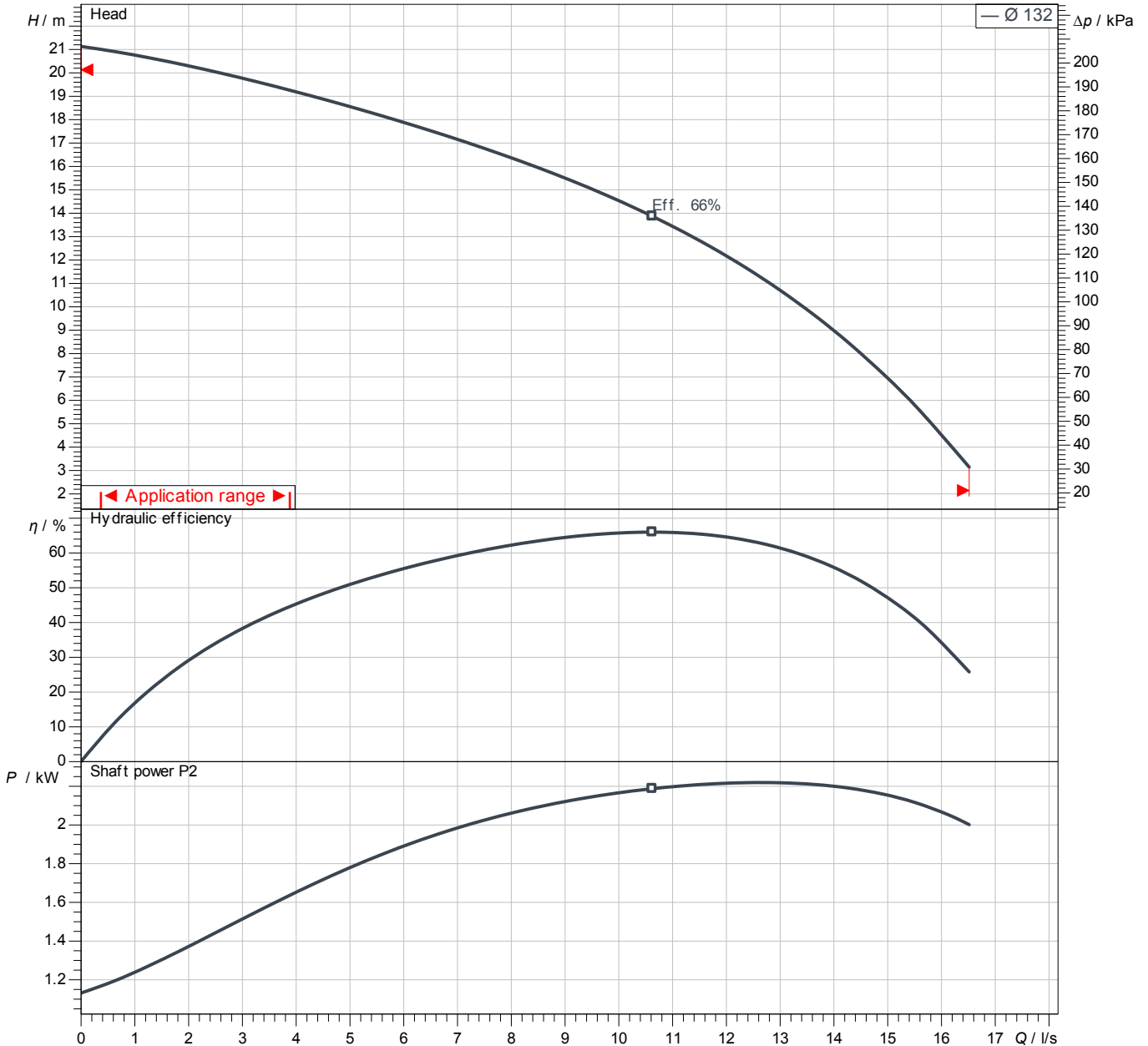
| | |
|-----------------------------------|-------------------------|
| Motor name | F 13.1-2/9 |
| Number of poles | 2 |
| Rated power | 2.36 kW |
| Rated speed | 2830 1/min |
| Power input with rated power | 2.8 kW |
| Rated voltage | 400 ~3 V |
| Current input with rated power | 4.6 A |
| Efficiency with rated power | 84 % |
| cos phi with rated power | 0.88 |
| cos phi with starting | |
| Rated frequency | 50 Hz |
| Operation type wet | S1 |
| Operation type dry | S1 |
| Starting current, direct starting | 24 A |
| Starting current, star-delta | 8 A |
| Starting torque | 16 Nm |
| Inertia moment | 0.001 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 | 2,851 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 | 132 mm |
| Nominal speed | | 2,830 1/min |
| Frequency | | 50 Hz |
| Impeller type | | Multi-channel |

Motor

| | |
|---------------------------|---------|
| Rated power | 2.36 kW |
| Sel. explosion protection | |

Duty point data

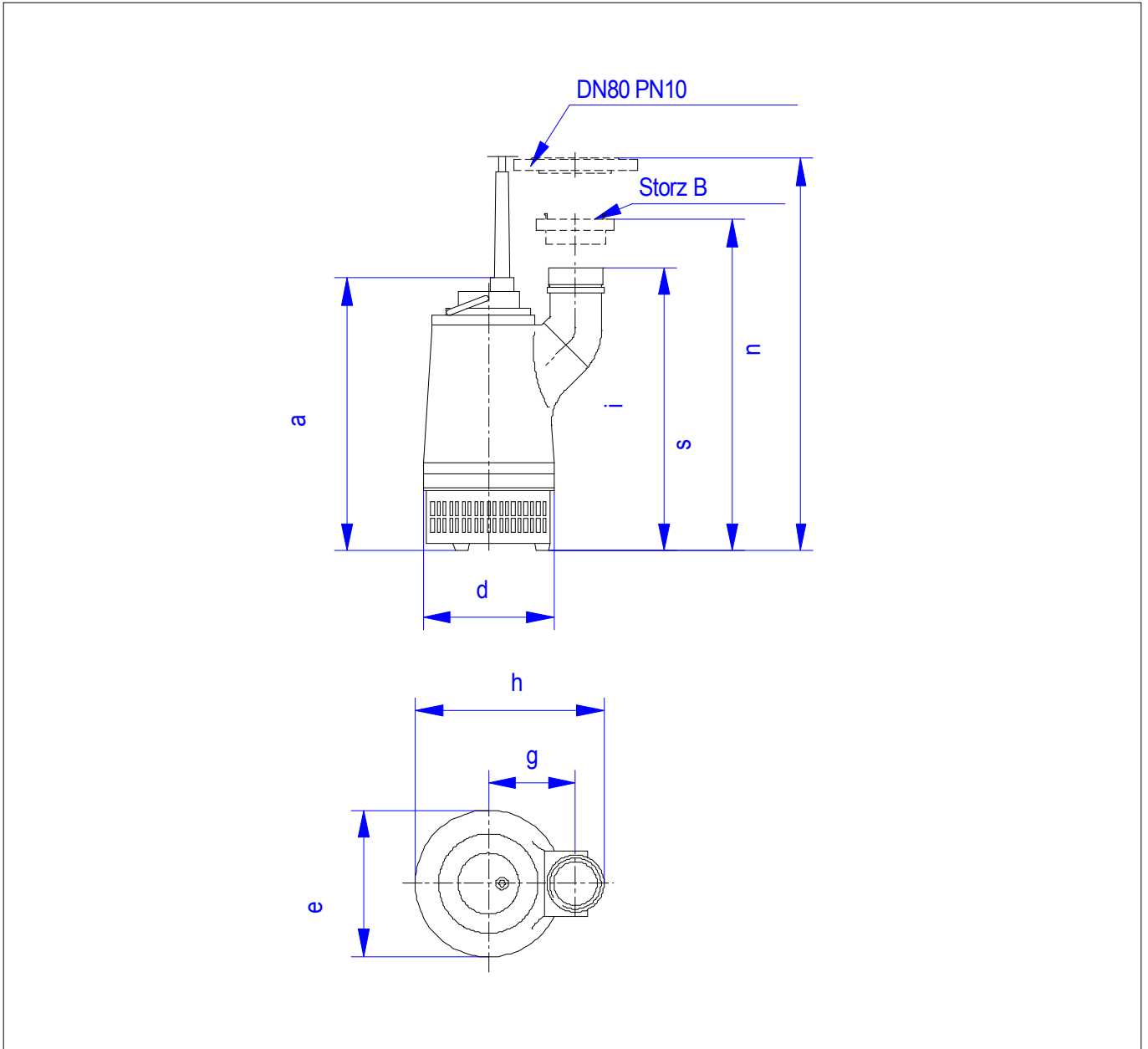
| | |
|-------------------------|------------|
| Volume flow | |
| Head | |
| Shaft power P2 | |
| Hydr. efficiency η hyd. | |
| Power input P1 | |
| Required pump NPSH | |
| Rotational speed | 2851 1/min |

Dimensions

KS 24
With motor
F 13.1-2/9

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Dimensions

| Name | Value |
|------|--------|
| a | 438 mm |
| d | 236 mm |
| e | 236 mm |
| g | 140 mm |
| h | 304 mm |
| i | 455 mm |
| n | 457 mm |
| s | 477 mm |

Connections

| Name | Value |
|----------------|------------|
| Suction port | |
| Discharge port | G3 PN10 |