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Technical data

Rexa SOLID-Q10-76

With motor
FKT 20.2M-4/32G-P4

Project ID Untitled project 2025-03-17 06:08:24.644
Project name
Installation location
Customer pos. No.

Date 2025-03-17

Pump

Pump type	Rexa SOLID-Q10-76
Installation type	Suspension device 1
	DN100S/2RK
Free passage	78 mm
Nominal speed	324 mm
Frequency	50 Hz
Impeller type	Solid Q
Impeller construction	Semi-open

Impeller Ø

designed	324 mm
standard	50 Hz mm
Max.	324 mm
Min.	324 mm

Discharge port

Pressure rating	PN10
Rated diameter	DN100
Standard	EN1092-2-D

Suction port

Pressure rating	PN10
Rated diameter	DN150
Standard	EN1092-2-S

Weight

Weight	max.	120 kg
Weight of motor		225 kg
Weight of unit	max.	345 kg

Materials

Pump housing	EN-GJL-250
Impeller	EN-GJS-500-7
Suction ports	EN-GJS-500-7

ArtNr

Motor

Motor name	FKT 20.2M-4/32G-P4
Number of poles	4
Rated power	22 kW
Rated speed	1500 1/min
Power input with rated power	24 kW
Rated voltage	340 ~3 V
Current input with rated power	44.9 A
Efficiency with rated power	91.5 %
cos phi with rated power	0.91
cos phi with starting	
Rated frequency	50 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	45 A
Starting current, star-delta	15 A
Starting torque	141 Nm
Inertia moment	0.052 kg m²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	3X6/6KON S1BC4N8 + 2x2x
Max. fluid temperature	40 °C
Starts per hour max.	15

Duty point data

Volume flow	
Head	
Shaft power P2	
Hydr. efficiency η hyd.	
Power input P1	
Fluid	Water
Required pump NPSH	
Rotational speed	1,500 1/min
Max. flow	42.7 l/s
Head H(Qmax)	37.3 m
Shut off head	43.9 m
Best efficiency point Q(BEP)	68.5 l/s
Best efficiency point H(BEP)	32.3 m

Total efficiency $= \frac{P_2 * \text{Hydr. efficiency } \eta \text{ hyd.}}{P}$

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Tender text

Fully submersible sewage pump for stationary and portable wet well installation for pumping wastewater, sewage containing faeces and untreated sewage, including with long-fibre constituents. Semi-open two-channel hydraulics with self-cleaning properties thanks to the retracted blade leading edge in conjunction with the relief groove in the adjustable suction port. Unit structure is easy to service due to split motor and pump housing unit. Hydraulics housing, impeller and motor housing of cast iron. The pumping values must be guaranteed in accordance with ISO 9906, Class 2B.

Synchronous permanent magnet submersible motor in pressure-tight design with water-glycol circulation cooling and additional, dry leakage chamber. Leakage monitoring via capacitive sensor with wiring inside the motor housing. Motor sealing at the shaft by two mechanical shaft seals SIC/SIC independent of the direction of rotation. The motor chamber is equipped with connecting terminals. Protection of the motor winding by thermistors installed. Optional temperature monitoring of both bearings. The two maintenance-free, closed ball bearings are filled with high-quality grease. All outside casing parts are made of cast iron, cooling shroud, shaft and connecting elements are made of stainless steel. The motor is suitable for continuous operation under full load (S1) in emerged and immerged condition. The electrical components correspond to the efficiency class IE4 according to IEC 60034-30-2:2016.

Electronic module installed in the motor and sealed in a separate housing with an integrated, graphic web interface for pump control and visualisation of sensor and system values including hydrograph display. Integrated vibration monitoring with evaluation at the control, data storage for sensor data and digital rating plate for pump data. Control cable with integrated CAT5 Ethernet data cable for conducting sensor data via a digital bus signal. Execution of thermal winding monitoring via separate wires in the control cable. Built-in intelligence with integrated control and

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Performance curves

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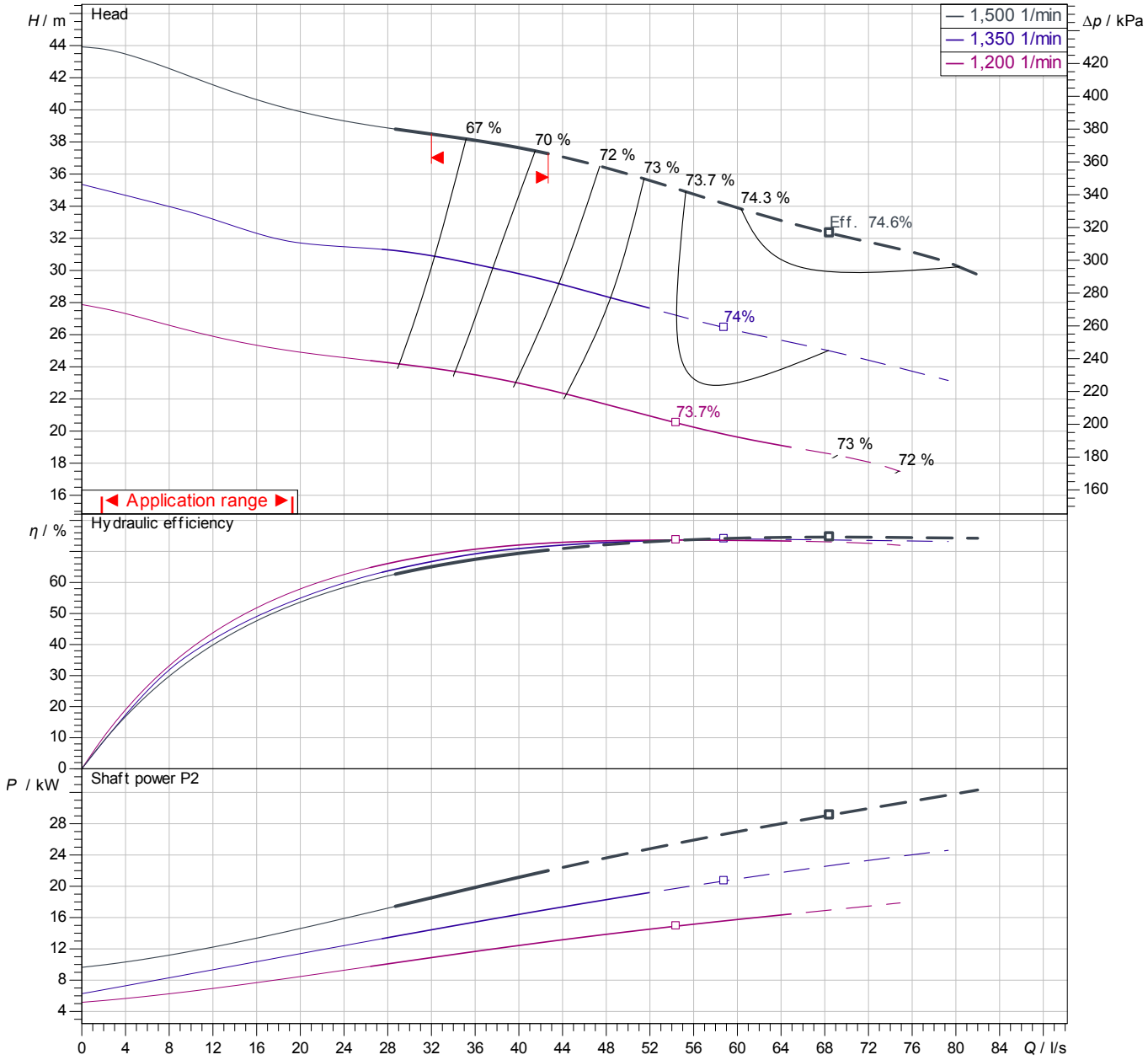

Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s
Tolerance as per ISO 9906 / Annex A.2

Pump

Impeller Ø	designed	324 mm
Nominal speed		1,500 1/min
Frequency		50 Hz
Impeller type		Solid Q

Motor

Rated power	22 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	1500 1/min

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Dimensions

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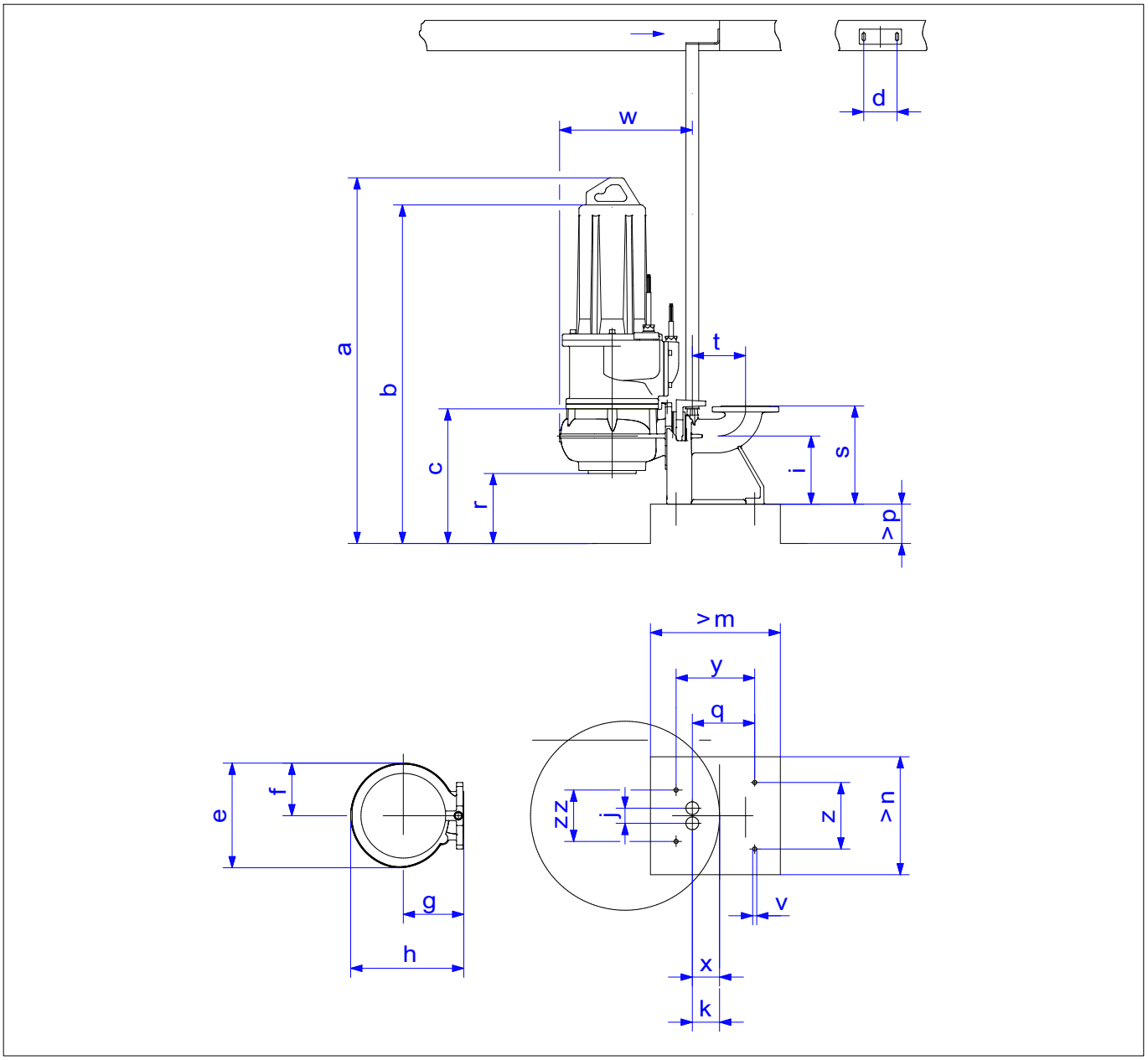

Dimensions

Name	Value	Name	Value
a	1,336 mm	k	96 mm
b = min. water lev	406 mm	m	530 mm
c	406 mm	n	490 mm
d	110 mm	p	100 mm
e	577 mm	q	206 mm
f	302 mm	r	161 mm
g	350 mm	s	325 mm
h	639 mm	t	176 mm
i	225 mm	v	13.5 mm
j	50 mm	w	704 mm

Connections

Suction port	DN150
	PN10
Discharge port	DN100
	PN10
Suspension device 1	DN100S/2RK