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Technical data

FA 10.94E

With motor

FK 202-6/17

Project ID Untitled project 2025-03-30 11:34:50.544

Project name

Installation location

Customer pos. No.

Date 2025-03-30

Pump

Pump type	FA 10.94E
Installation type	Suspension device 1 DN100S/2RK
Free passage	100 mm
Nominal speed	950 1/min
Rated frequency	50 Hz
Impeller type	Single-channel
Impeller construction	Closed

Impeller size

max. possible	318 mm
min. possible	246 mm
standard	318 mm
designed	318 mm

Suction port

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

Discharge port

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

Weights

Weight	max. 80 kg
Weight of motor	119 kg
Weight of unit	max. 199 kg

Materials

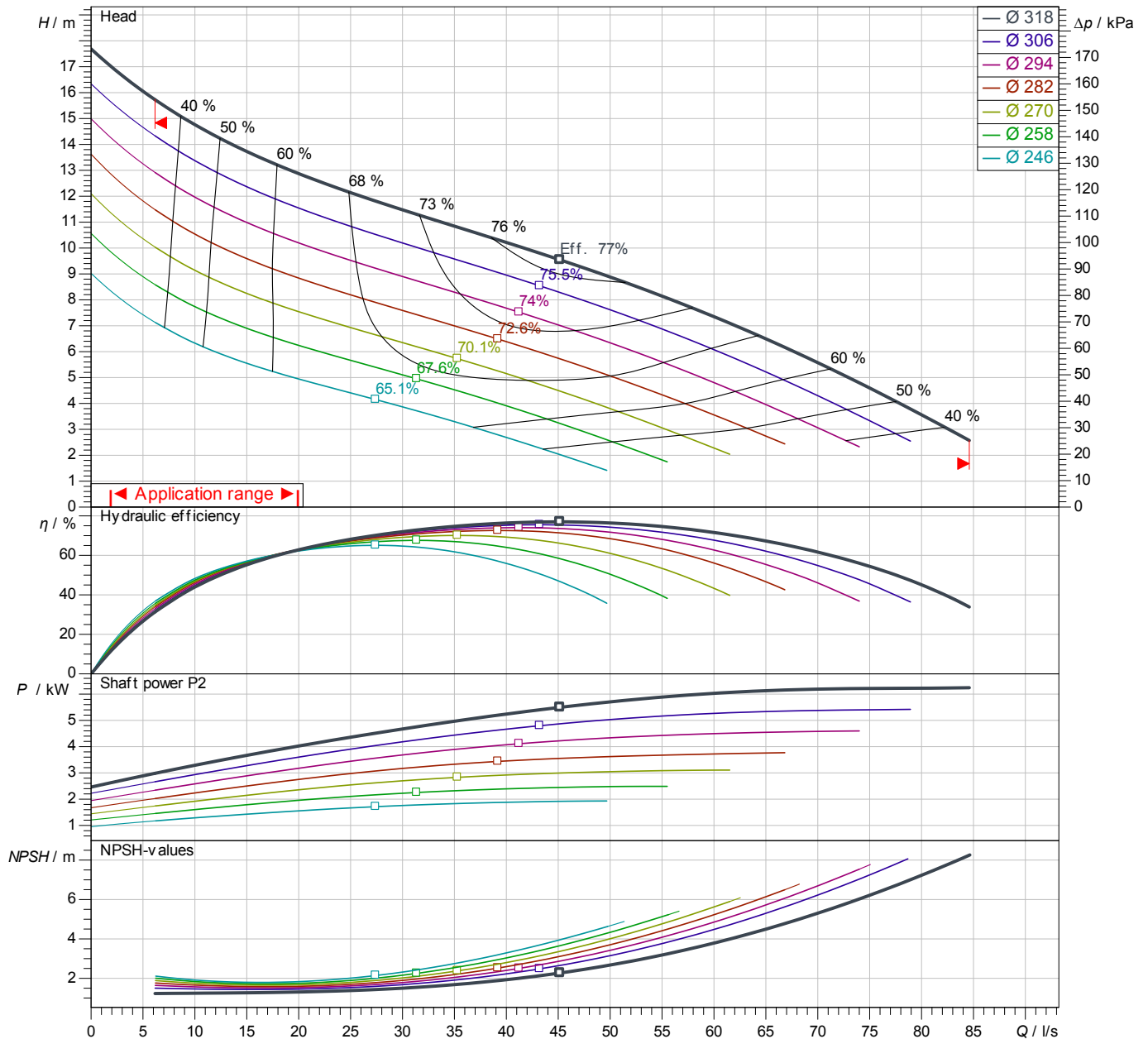
Pump housing	EN-GJL-250
Stationary wear ring	1.4308
Impeller	EN-GJL-250
Mobile wear ring	1.4462/1.4470
Suction ports	EN-GJL-250

Motor

Motor name	FK 202-6/17
Number of poles	6
Rated power	6.5 kW
Rated speed	950 1/min
Power input with rated power	8.2 kW
Rated voltage	400 ~3 V
Current input with rated power	15.2 A
Efficiency with rated power	79 %
cos phi with rated power	0.78
cos phi with starting	
Rated frequency	50 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	61 A
Starting current, star-delta	20.3 A
Starting torque	135 Nm
Inertia moment	0.0459 kg m ²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	7x1,5 NSSHÖU
Max. fluid temperature	60 °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	956.7 1/min
Total efficiency	$= \frac{P_2 * \text{Hydr. efficiency } \eta_{\text{hyd.}}}{P_1}$



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	318 mm
Nominal speed		950 1/min
Frequency		50 Hz
Impeller type		Single-channel

Motor

Rated power	6.5 kW
Sel. explosion protection	

Duty point data

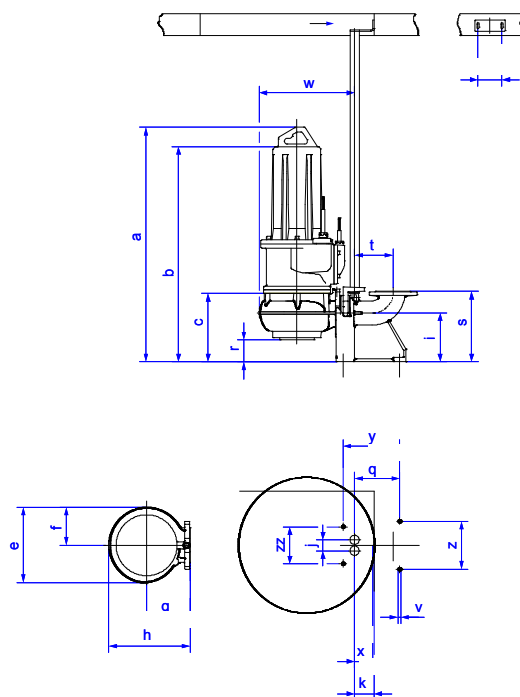
Volume flow	
Head	
Shaft power P2	
Hydr. efficiency η hyd.	
Power input P1	
Required pump NPSH	
Rotational speed	957 1/min

Dimensions

FA 10.94E
With motor
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Dimensions

Name	Value	Name	Value
a	1,081 mm	k	98 mm
b = min. water level	310 mm	q	206 mm
c	310 mm	r	108 mm
d	110 mm	s	325 mm
e	540 mm	t	176 mm
f	298 mm	v	13.5 mm
g	350 mm	w	683 mm
h	618 mm	x	90 mm
i	225 mm	y	260 mm
j	50 mm	z	220 mm

Connections

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