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Technical data

FA 10.41E

With motor

FK 17.1-4/12K

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	FA 10.41E
Installation type	Suspension device DN100S/2RK
Free passage	80 mm
Nominal speed	1,740 1/min
Rated frequency	60 Hz
Impeller type	Single-channel
Impeller construction	Closed

Impeller size

max. possible	203 mm
min. possible	153 mm
standard	203 mm
designed	203 mm

Suction port

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

Discharge port

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

Weights

Weight	max.	27.5 kg
Weight of motor		90 kg
Weight of unit	max.	117.5 kg

Materials

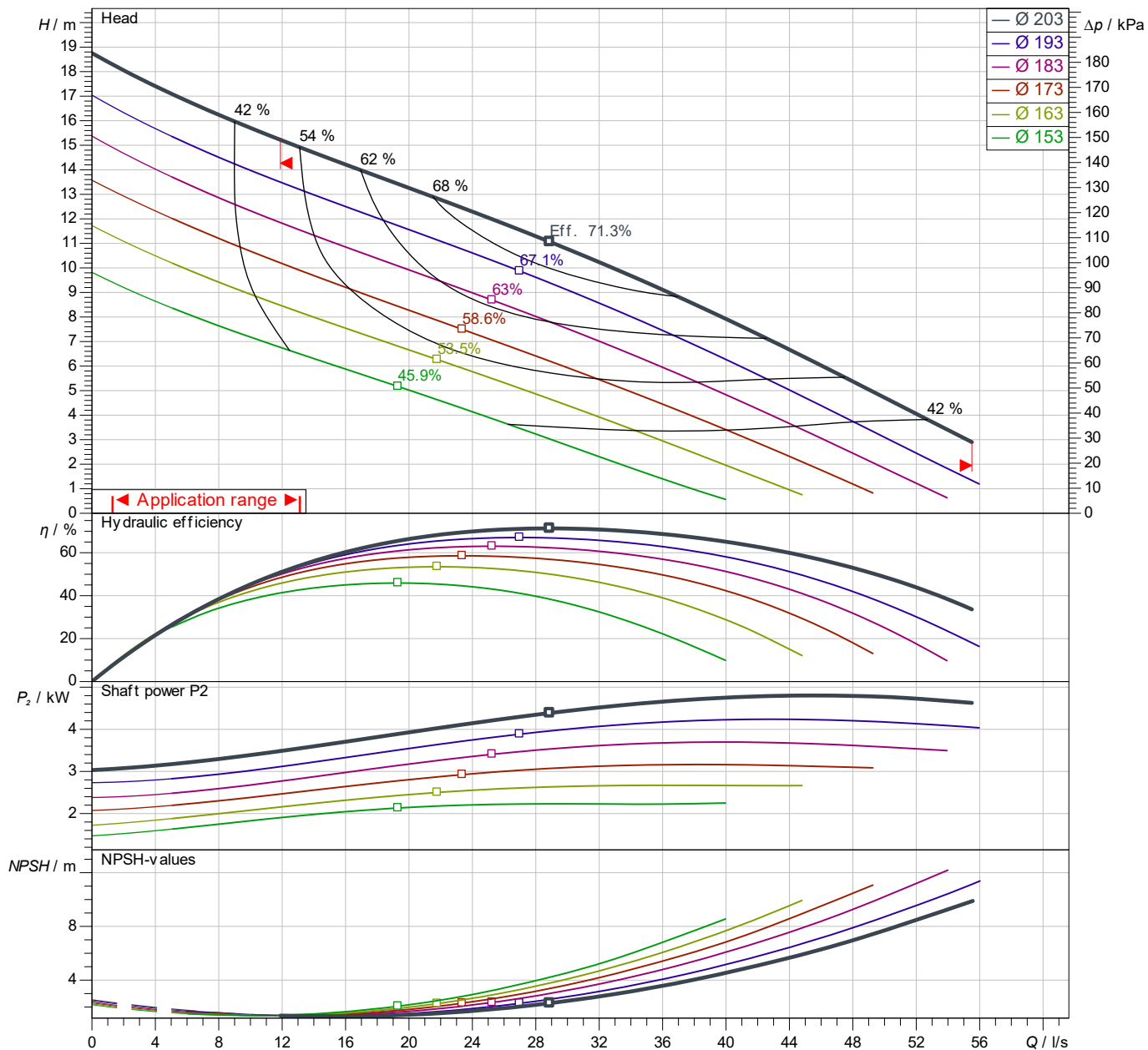
Pump housing	EN-GJL-250
Impeller	EN-GJL-250

Motor

Motor name	FK 17.1-4/12K
Number of poles	4
Rated power	5.5 kW
Rated speed	1680 1/min
Power input with rated power	7.5 kW
Rated voltage	208 ~3 V
Current input with rated power	24.9 A
Efficiency with rated power	73 %
cos phi with rated power	0.84
cos phi with starting	0
Rated frequency	60 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	96 A
Starting current, star-delta	32 A
Starting torque	58 Nm
Inertia moment	0.0108 kg m ²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	7x2,5 NSSHÖU
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	1,702 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	203 mm
Nominal speed		1,680 1/min
Frequency		60 Hz
Impeller type		Single-channel

Motor

Rated power	5.5 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	1702 1/min

Dimensions

FA 10.41E

With motor

FK 17.1-4/12K

Project ID

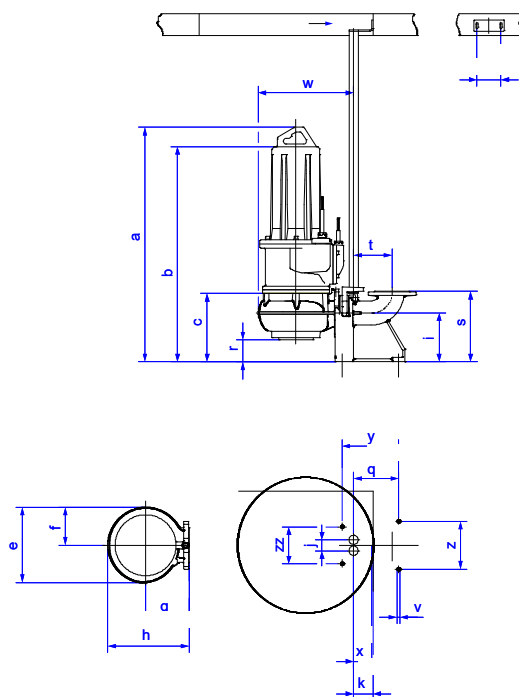
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Dimensions

Name	Value	Name	Value
a	940 mm	k	98 mm
b = min. water level	300 mm	q	206 mm
c	300 mm	r	131 mm
d	110 mm	s	325 mm
e	364 mm	t	176 mm
f	203 mm	v	13.5 mm
g	270 mm	w	527 mm
h	462 mm	x	90 mm
i	225 mm	y	260 mm
j	50 mm	z	220 mm

Connections

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