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Technical data

FA 08.53E

With motor

FK 17.1-4/8K

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 08.53E
Installation type	Suspension device
	DN80/2RK
Free passage	70 mm
Nominal speed	1,450 1/min
Rated frequency	50 Hz
Impeller type	Single-channel
Impeller construction	Closed

Impeller size

max. possible	215 mm
min. possible	170 mm
standard	215 mm
designed	215 mm

Suction port

Rated diameter	DN80
Pressure rating	PN10
Standard	EN1092-2-S

Discharge port

Rated diameter	DN80
Pressure rating	PN10
Standard	EN1092-2-D

Weights

Weight	max. 30 kg
Weight of motor	80 kg
Weight of unit	max. 110 kg

Materials

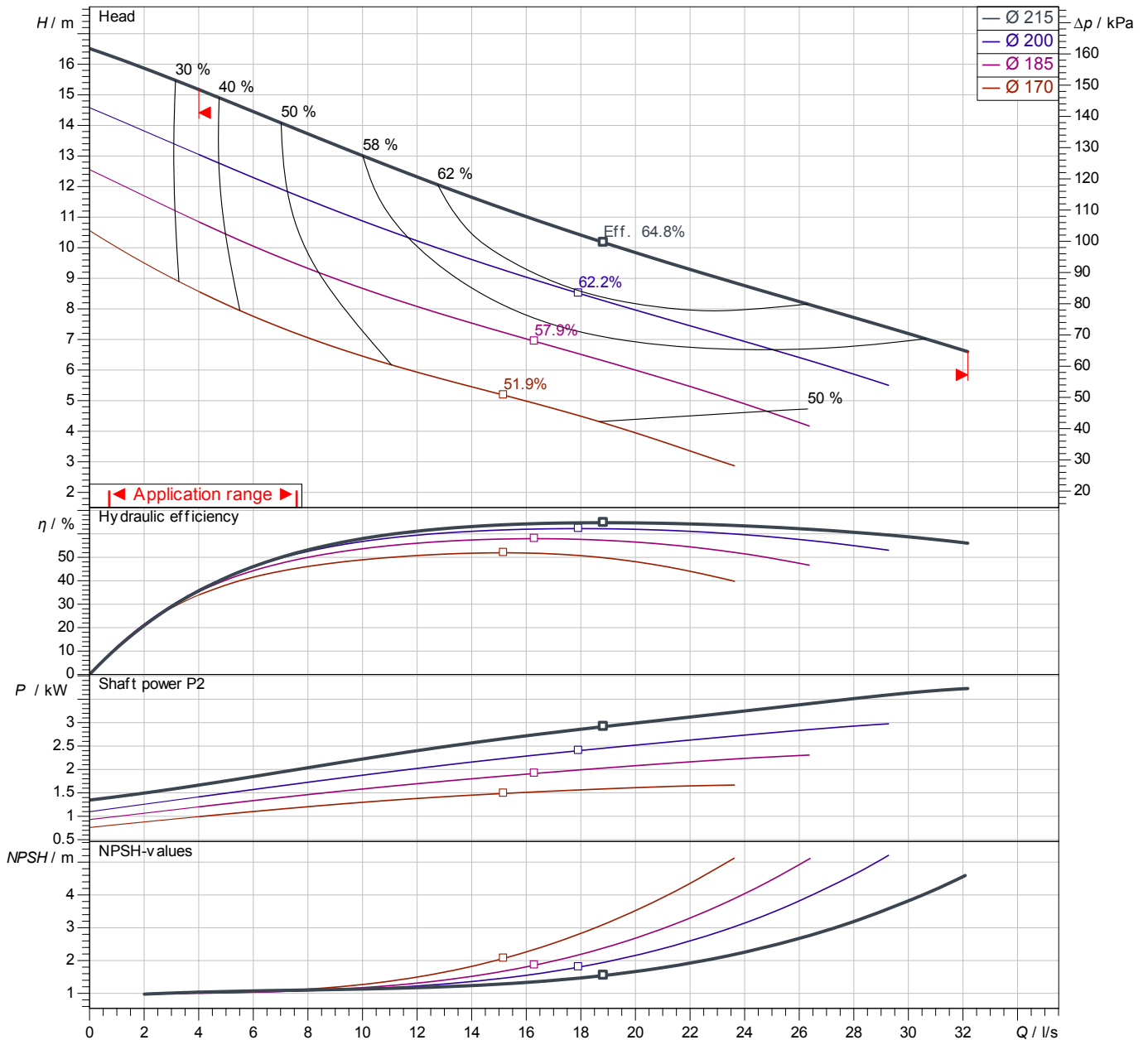
Pump housing	EN-GJL-250
Stationary wear ring	1.4308
Impeller	EN-GJS-500-7
Mobile wear ring	1.4462/1.4470

Motor

Motor name	FK 17.1-4/8K
Number of poles	4
Rated power	4 kW
Rated speed	1385 1/min
Power input with rated power	5.5 kW
Rated voltage	400 ~3 V
Current input with rated power	9.4 A
Efficiency with rated power	73 %
cos phi with rated power	0.84
cos phi with starting	
Rated frequency	50 Hz
Operation type wet	S1
Operation type dry	S1
Starting current, direct starting	36 A
Starting current, star-delta	12 A
Starting torque	40 Nm
Inertia moment	0.0073 kg m ²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	7G1,5 H07RN-F
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	1,416 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	215 mm
Nominal speed		1,385 1/min
Frequency		50 Hz
Impeller type		Single-channel

Motor

Rated power	4 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	1416 1/min

Dimensions

FA 08.53E

With motor

FK 17.1-4/8K

Project ID

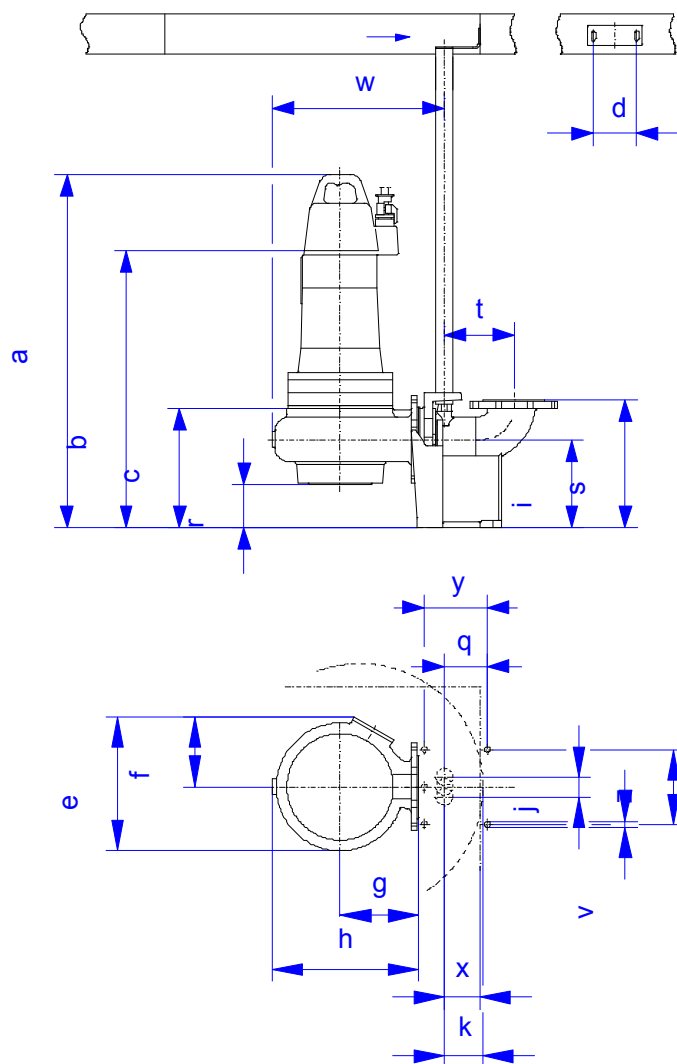
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Dimensions

Name	Value	Name	Value
a	912 mm	k	98 mm
b = min. water level	272 mm	q	69 mm
c	272 mm	r	115 mm
d	110 mm	s	300 mm
e	382 mm	t	166 mm
f	206 mm	v	15 mm
g	240 mm	w	490 mm
h	431 mm	x	90 mm
i	210 mm	y	120 mm
j	50 mm	z	170 mm

Connections

Suction port	DN80 PN10
Discharge port	DN80 PN10
Suspension device	DN80/2RK