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Technical data

FA 10.44W

With motor

T 20.1-6/32K

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 10.44W
Installation type	Suspension device 1
	DN100S/2RK
Free passage	100 mm
Nominal speed	1,140 1/min
Rated frequency	60 Hz
Impeller type	Vortex impeller
Impeller construction	Open

Impeller size

max. possible	330 mm
min. possible	200 mm
standard	330 mm
designed	330 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. 67 kg
Weight of motor	185 kg
Weight of unit	max. 252 kg

Materials

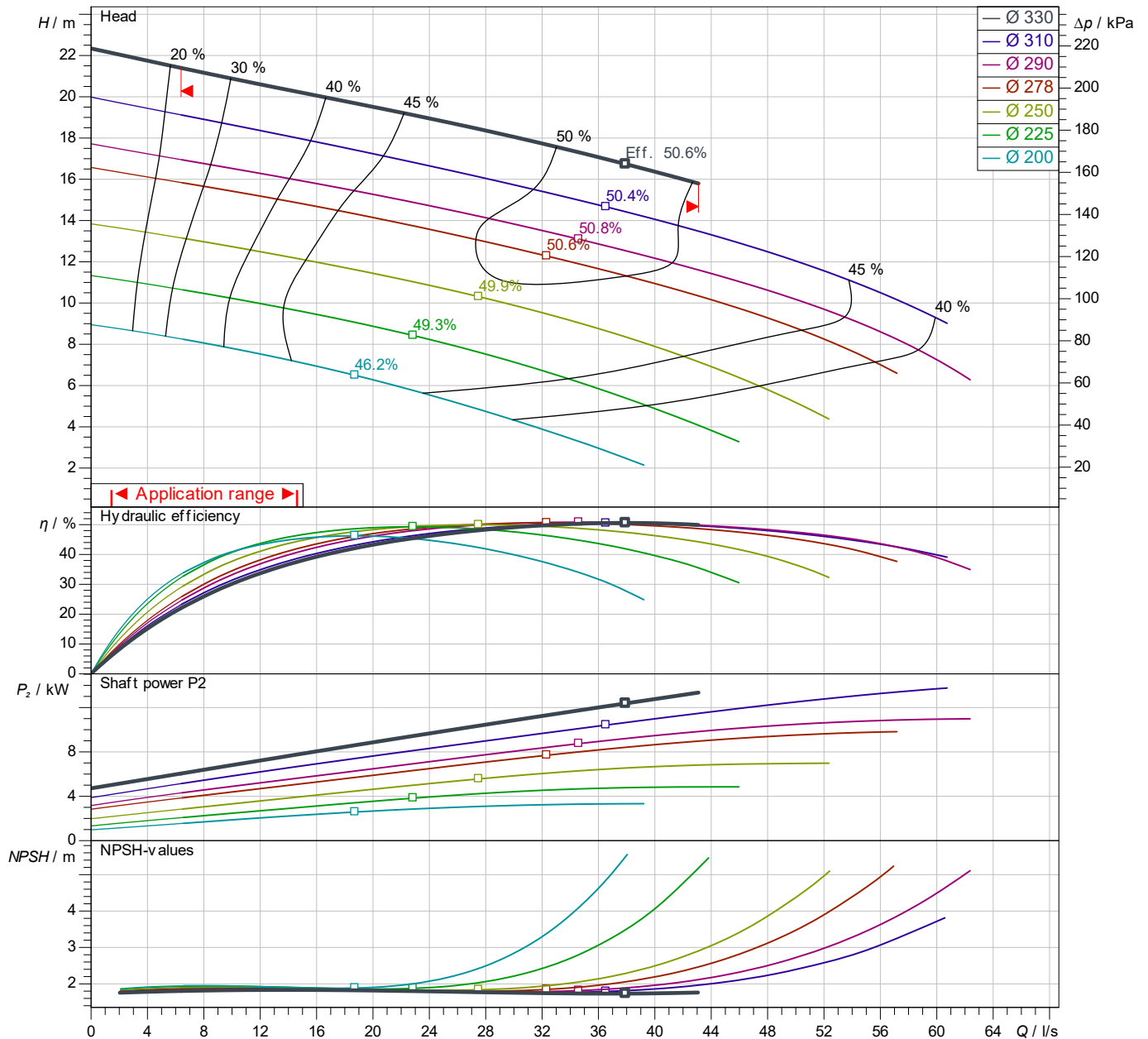
Pump housing	EN-GJL-250
Impeller	EN-GJL-250

Motor

Motor name	T 20.1-6/32K
Number of poles	6
Rated power	15.5 kW
Rated speed	1110 1/min
Power input with rated power	18.7 kW
Rated voltage	220 ~3 V
Current input with rated power	57.7 A
Efficiency with rated power	83 %
cos phi with rated power	0.85
cos phi with starting	0
Rated frequency	60 Hz
Operation type wet	S1
Operation type dry	S2 15
Starting current, direct starting	260 A
Starting current, star-delta	86.7 A
Starting torque	226 Nm
Inertia moment	0.0778 kg m ²
Degree of protection	IP 68
Sel. explosion protection	
Ex-designation	
Ex-number	
Motor connection cable	4x10 + 7x1,5 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	1,123 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 $\varnothing$	designed	330 mm
Nominal speed		1,110 1/min
Frequency		60 Hz
Impeller type		Vortex impeller

Motor

Rated power	15.5 kW
Sel. explosion protection	

Duty point data

Volume flow	
Head	
Shaft power P_2	
Hydr. efficiency η hyd.	
Power input P_1	
Required pump NPSH	
Rotational speed	1123 1/min

Dimensions

FA 10.44W

With motor

T 20.1-6/32K

Project ID

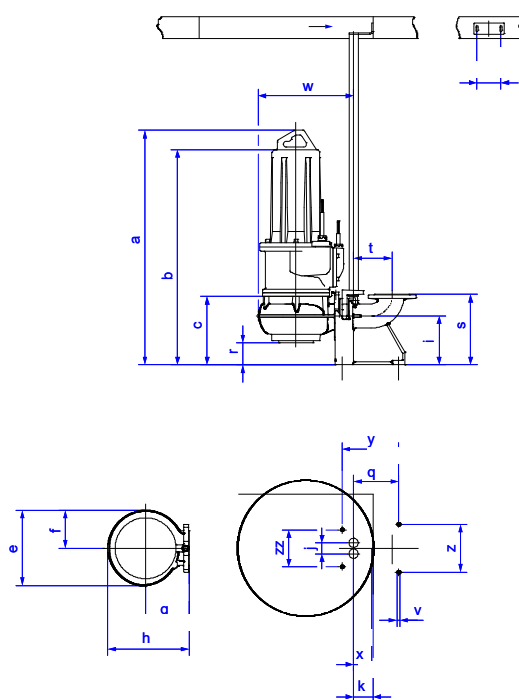
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Dimensions

Name	Value	Name	Value
a	1,094 mm	k	98 mm
b = min. water level	1,004 mm	q	206 mm
c	330 mm	r	100 mm
d	110 mm	s	325 mm
e	420 mm	t	176 mm
f	210 mm	v	13.5 mm
g	280 mm	w	559 mm
h	494 mm	x	90 mm
i	225 mm	y	260 mm
j	50 mm	z	55 mm

Connections

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