Kennlinien 50 Hz

PX2-100.0-4 VORTEX 1

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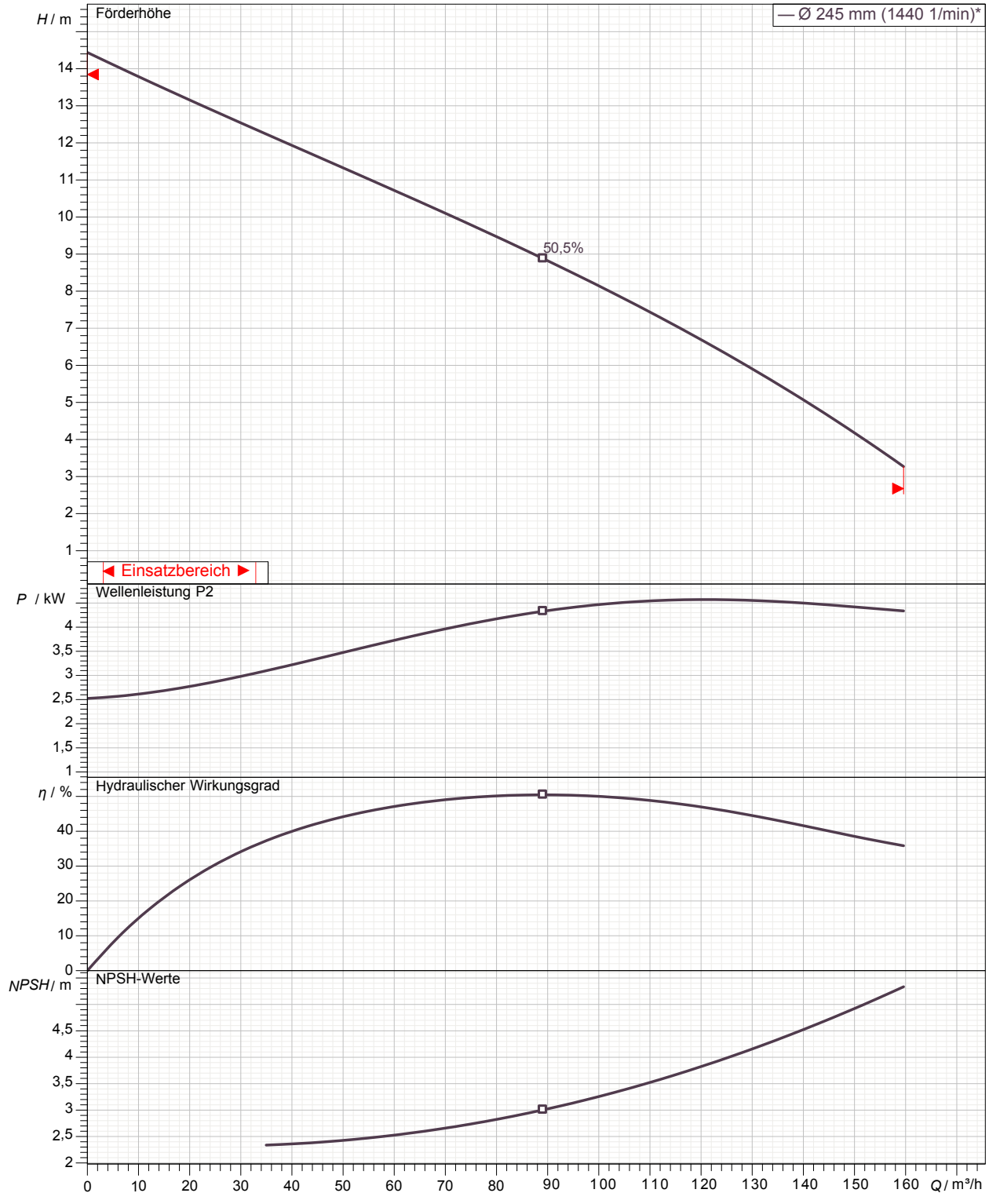
Pumpe	**PX2-100.0-4 VORTEX 1**		1 Einzelpumpe	**Betriebspunkt**	
Laufrad	VX2-100	Freistromrad	D=245 mm	Forderstrom :	
Freier Durchgang :	80 mm	Drehzahl	1410 rpm	Forderhohe :	
				Pumpenwirkungsgrad :	
Motor :	**M2.1B-6,0**	3~ 50 Hz 1410 rpm		Leistung :	(P2)
Nennleistung(P2) / Nennspannung / Nennstrom :		6 kW 400 V 12,7 A		Leistungsaufnahme :	(P1)
Motorwirkungsgrad 4/4 :	84 %	Leistungsfaktor 4/4 (cos phi):	0,815		
Elektrokabel :	7x1,5mm² (DOL) / 12x1,5mm² (SD)				

Leistungsdaten bezogen auf: Water; 20°C; 998,3kg/m³; 1,005mm²/s

Tolerances acc. ISO 9906 Annex A



FLOWSELECT rev. 28-2-2015

Submersible, centrifugal, non-clogging sewage pump PX2-100.0-4 VORTEX 1 capable of handling raw,unscreened sewage.

The pumps manufactured within European Union with the latest manufacturing and environmental standards and practical standard features as :

-Freistromrad made in ductile iron GGG40 are of non clogging design

-Channel and vortex impellers can be accommodated in the same volute. This advance together with possibility to be trimmed allow to meet changing duties.

-Wear rings with 'reducer' clearances system allow to be re-positioned axially in order to reduce the clearances between the channel impeller and volute.

-Fast lock connection system latch bolts made in stainless steel for easy removal of the motor together with impeller from the volute.

Submersible motor type M2.1B- 6,0 can be capable of operating continuously in submerged for wet installation.
Cooling jacket with Internal cooling system is available as option.
An internal impeller, fitted between the mechanical shaft seal, circulate a cooling liquid (Ecoflu) in a closed loop through a cooling jacket, and transfer the heat to the pumped liquid by a cooling flange (heat exchange).

-Electrical motor PXFLOW -SIEMENS standard IE1 or higher efficiency class (IE2 or IE3 as option) have Class F insulation (rated for 155 degrees Celsius) as standard (Class H as option)

-Separate sealed terminal connection area

-Rotor shaft oversized made in stainless steel and oversized ball bearings ensuring smooth and vibration free running with extended life time as result.

-Shaft sealing system consist of double mechanical seals built into a replaceable cartridge facilitate quick changes even on-site without special tools.

Motor protections :
-Three thermal overload switches, one per phase, internally wound to combat high temperature loads.
-Built-in moisture sensors to terminal connection area (upper motor side), inside the motor (lower side) and in oil chamber

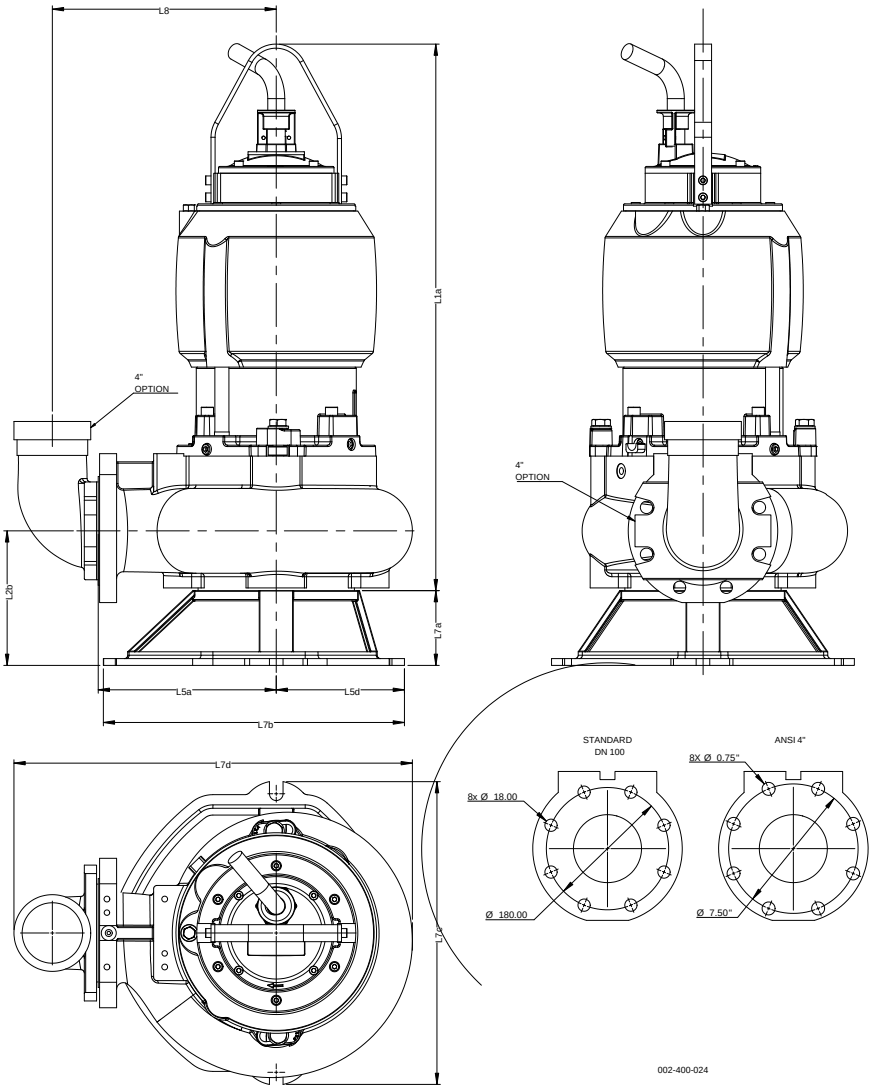
Materials
PX2-100.0-4 VORTEX 1 (Freistromrad) +6 kW
-Motor housing, volute :cast iron GG -25
-Impeller : ductile iron GGG40
-Shaft, cartridge sleeve :stainless steel 431
-Shaft seal:Media side sic/sic
Cooling side sic/sic
-Bearings:upper:single row deep groove ball bearing
lower: double angular contact ball be aring

portable wet installation accesories set (on request)
base : ductile iron GGG40
discharge elbow : cast iron GG25

Aufstellvarianten

Portable (with cooling jacket) with base

PX2-100.0-4 VORTEX 1 Mit Motor M2.1B-6,0



Abmessungen	mm	Abmessungen	mm
Name	Value	Name	Value
L1a	804		
L2b	198		
L5a	262		
L5d	189		
L7a	110		
L7b	444		
L7c	446		
L7d	587		
L8	330		

Outlet for hose - Option : ¨ 100mm (4")

For pump :
Outlet flange - Standard : DN100 / PN16
- Option : 4" ANSI class 125

Suction flange - Standard : DN100 / PN16
- Option : 4" ANSI class 125

Weight of Pump with cooling jacket = 151 kg
(without cooling jacket : - 22 kg)
Weight of Base for Transportable = 8,7 kg

Technische Daten

PX2-100.0-4 VORTEX 1

Motor : **M2.1B-6,0** 3~ 50 Hz 4 1410 rpm

Motorhersteller : **PXFLOW - SIEMENS**

Nennleistung(P2) / Nennspannung / Nennstrom : 6 kW 400 V 12,7 A Schutzart IP 68

Anlaufstrom 67 A (DOL) / 22 A (Y-D) Schalthaufigkeit pro Stunde : 15

Elektrokabel : 7x1,5mm² (DOL) / 12x1,5mm² (SD)

Leistungsdaten bezogen auf: 400 V Tolerances acc. VDE 0530

Symbol	Unbelastet	25 %	50 %	75 %	100 %	125 %
P_2 / kW		1,5	3	4,5	6	7,5
P_1 / kW		1,901	3,469	5,232	7,143	9,193
n / 1/min		1477	1458	1437	1410	1376
cos φ		0,428	0,673	0,769	0,815	0,839
I / A		6,41	7,44	9,82	12,65	15,82
s / %		1,533	2,799	4,2	6,001	8,257
M / Nm		9,698	19,65	29,9	40,64	52,04
η / %		78,92	86,48	86,01	84	81,58