

NSCS 50-315/40/P45VCC4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	Single head pump	Fluid	Water, pure	
2	No. of pumps	1	Operating temperature t A	°C	4
3	Nominal flow	m³/h 0	Max / Min Operating Temperature mech. Seal	°C	120 / -25
4	Nominal head	m 0	pH-value at t A		7
5	Static head	m 0	Density at t A	kg/m³	1000
6	Inlet pressure	kPa 0	Kin. viscosity at t A	mm²/s	1.569
7	Environmental temperature	°C 20	Vapor pressure at t A	kPa	100
8	Available system NPSH	m 0	Altitude		0

Pump data

9	Lubrication	32			
10	Execution				
11	Design	Horizontal	Impeller Ø	Max.	mm 322
12	Operating speed	1465 rpm		designed	mm 256
13	Suction nozzle	DN65 / PN10/16 / EN1092-2		Min.	mm 256
14	Discharge nozzle	DN50 / PN10/16 / EN1092-2	Flow	Nominal	m³/h
15	Max. casing pressure	kPa		Max-	m³/h 54.4
16	Max. working pressure	kPa 226.6		Min-	m³/h 8.4
17	Impeller type	Radial impeller	Head	Nominal	m
18	Head H(Q=0)	m 23		at Qmax	m 14.1
19	Max. shaft power	kW 4		at Qmin	m 23
20	Pump weight	kg	Shaft power		kW
21	Total weight	kg 136.2	Efficiency		%
			NPSH 3%		m

Materials

22		Pump			Shaft Seal
23	Volute Casing	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			Single mechanical seal, without shaft sleeve
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30			eMG12 - Ø38mm
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			Mechanical seal diameter
26	Shaft	Stainless steel, 1.4057, AISI 431			38 mm
27	Wear ring	Stainless steel, 1.4301, AISI 304			1. Rotating ring
28	Impeller lock nut and washer	A4 (1.4401)			Carbon graphite resin impregnated
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti			2. Stationary ring
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215			SiC, silicon carbide, sintered press.less
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			3. Secondary seal
32					Ethylene propylene rubber (EPDM)
33					4. Springs
34					CrNiMo - Steel
35					5. Others
36					EPDM - WRAS
37					Gaskets of the pump
38					Ethylene propylene rubber (EPDM)
39					
40					
41					

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency		
44	Type	PLM 112 B5 4 kW		
45	Rated power	4 kW	Rated current	8.23 A
46	Nominal speed	1445 rpm	Rated voltage	400 V
47	Frame size	112	Service factor	1
48	Weight	kg 57.2	Degree of protection	IP55

Remarks

49	
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52	

Project	Xylect-20255621	Created by		Last update	11/26/2024
Block	NSCS 50-315/750/L25VCC4 E4	Created on	11/26/2024		

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Performance curve

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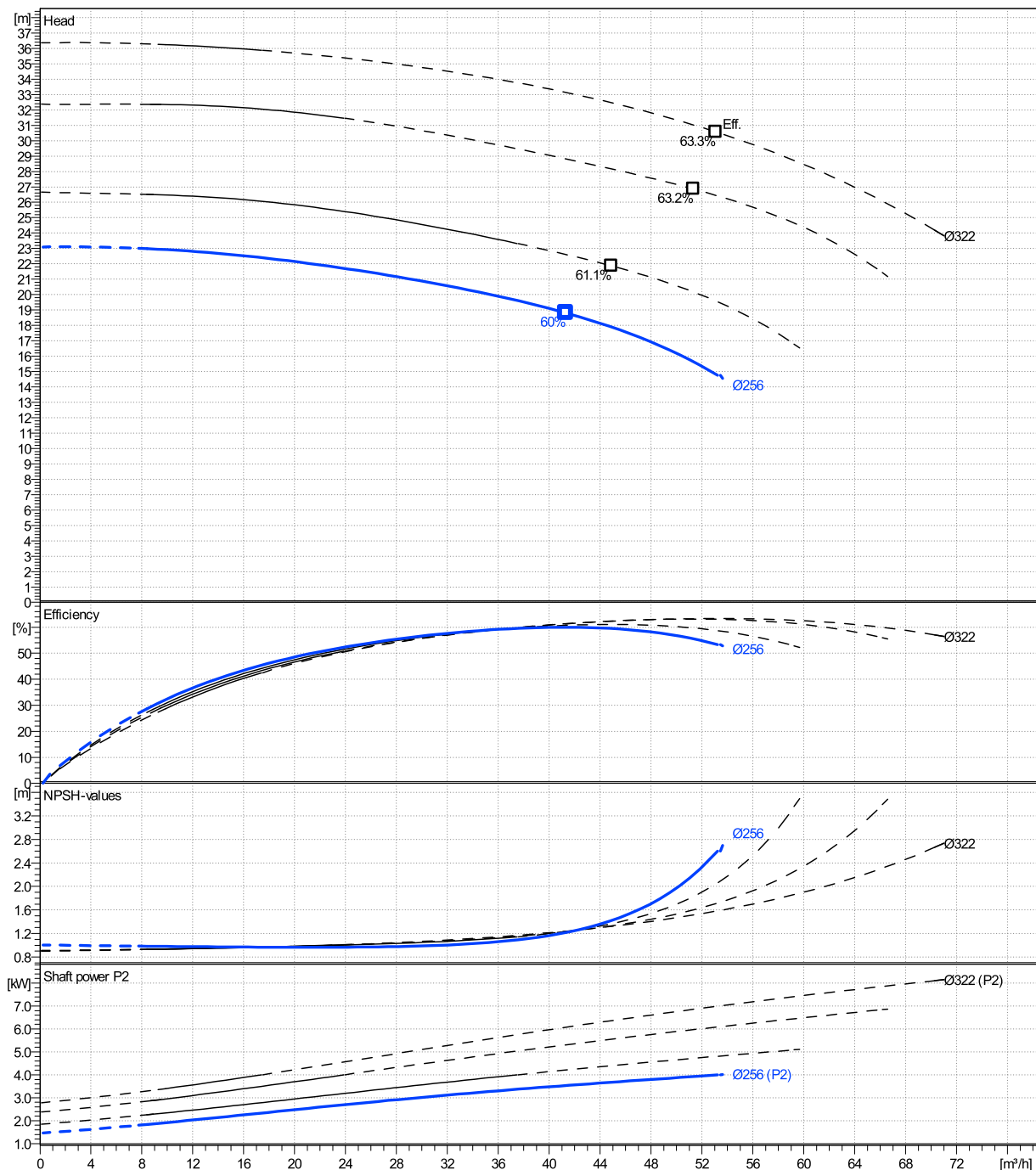
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	256	8.4	53.2	41.3	23.1	18.8		4.05	3.53	Nominal flow	m³/h	0
Min.	0	/	/	41.3	23.1	18.8		/	3.53	Nominal head	m	0
Max.	322	/	/	53.1	36.4	30.6		/	6.98	Inlet pressure	kPa	0
										Static head	m	0

Power datas referred to:

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

MEI: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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Dimensions

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Blockpump

PLM 112 B5 4 kW

Electrical and dimensional data refer to IE3 motor

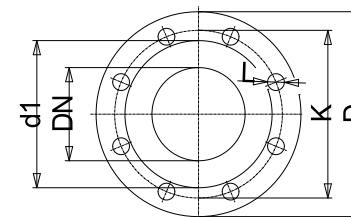
Dimensions [mm]			
a	125	Volumen	0.14391
AD	168	x	140
b	65		
Bmax	413		
CTO	0		
DNd	50		
DNs	65		
E	3/8"		
f	183		
F	3/8"		
g1	14		
h1	225		
h2	280		
Hmax	505		
L	690		
L	690		
m1	125		
m2	95		
n1	345		
n2	280		
P	250		
PM1	1/4"		
s1	15		
Type	A		

Weight

Total weight 136.2 kg

Connections

Suction nozzle		Discharge nozzle	
DN65		DN50	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	20	C	20
D	185	D	165
d1	118	d1	99
K	145	K	125
L	19	L	19
z	4	z	4



Value C, D may vary from Standard

Dimensions and weight without obligation

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