

NSCS100-200/75/P46PCC4

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	°F	39.2
3	Nominal flow	US g.p.m. 0	Max / Min Operating Temperature mech. Seal	°F	120 / -25
4	Nominal head	ft 0	pH-value at t A		7
5	Static head	ft 0	Density at t A	lb/ft³	62.4
6	Inlet pressure	psi 0	Kin. viscosity at t A	ft²/s	1.689E-5
7	Environmental temperature	°F 68	Vapor pressure at t A	psi	14.5
8	Available system NPSH	ft 0	Altitude		0

Pump data

9	Lubrication	32			
10	Execution	Standard Design (Type A)			
11	Design	Horizontal	Impeller Ø	Max.	inch 9 1/32
12	Operating speed	1765 rpm		designed	inch 7 3/4
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Min.	inch 7 1/16
14	Discharge nozzle	DN100 / PN10/16 / EN1092-2	Flow	Nominal	US g.p.m.
15	Max. casing pressure	psi		Max-	US g.p.m. 924.6
16	Max. working pressure	psi 25.5		Min-	US g.p.m. 126.4
17	Impeller type	Radial impeller	Head	Nominal	ft
18	Head H(Q=0)	ft 59		at Qmax	ft 25.1
19	Max. shaft power	hp 9.5	Shaft power		hp
20	Pump weight	kg	Efficiency		%
21	Total weight	lb 314.4	NPSH 3%		ft

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			BQ7EGG-WA
26	Shaft	Stainless steel, 1.4057, AISI 431			Mechanical seal diameter
27	Wear ring	Stainless steel, 1.4301, AISI 304			1 1/2 inch
28	Impeller lock nut and washer	A4 (1.4401)			1. Rotating ring
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti			Carbon graphite resin impregnated
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215			2. Stationary ring
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			SiC, silicon carbide, sintered press.less
32					3. Secondary seal
33					Ethylene propylene rubber (EPDM)
34					4. Springs
35					CrNiMo - Steel
36					5. Others
37					EPDM - WRAS
38					Gaskets of the pump
39					Ethylene propylene rubber (EPDM)
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 132 B5 7,5 kW		
45	Rated power	10.058 hp	Rated current	15.4 A
46	Nominal speed	1746 rpm	Rated voltage	380 V
47	Frame size	132	Service factor	1
48	Weight	lb 146.8	Degree of protection	IP55

Remarks

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Project	Xylect-20178897	Created by		Last update	1/10/2025
Block	NSCS100-200/900/L26UCC4 E4	Created on	1/10/2025		

NSCS100-200/75/P46PCC4

Performance curve

Company name
Contact
Phone number
e-mail address

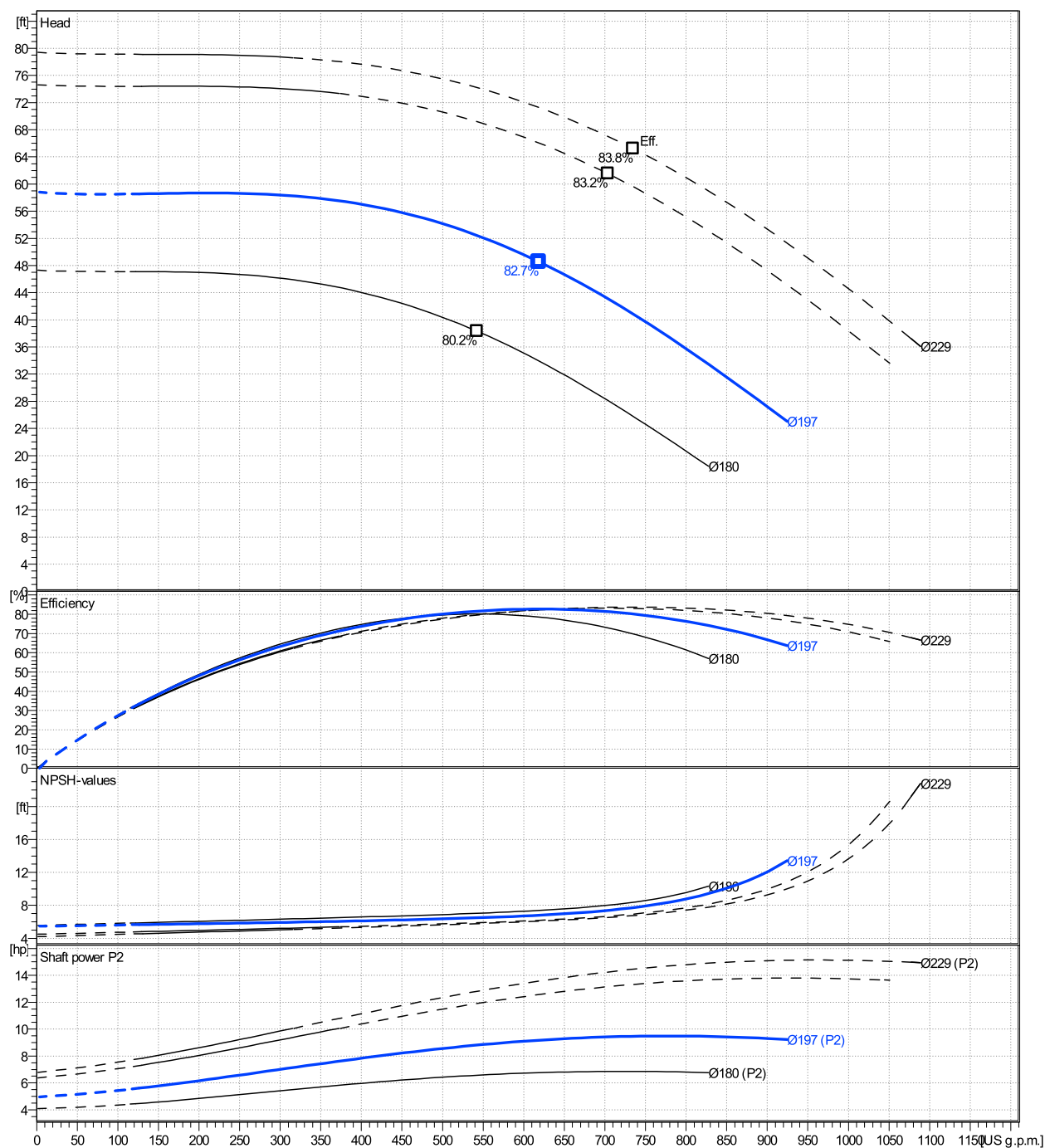
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed	rpm	1765
actual	7 3/4	126	925	619	58.8	48.6		9.49	9.18	Nominal flow	US g.p.m.	0
Min.	0	/	/	543	47.3	38.3		/	6.57	Nominal head	ft	0
Max.	9 1/32	/	/	735	79.4	65.2		/	14.5	Inlet pressure	psi	0
										Static head	ft	0

Power datas referred to:

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

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

MEI: 0,69 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



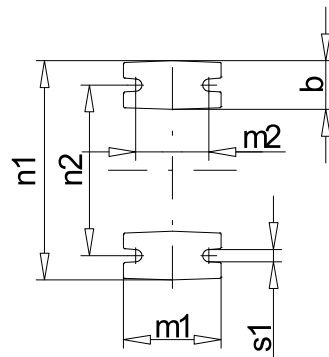
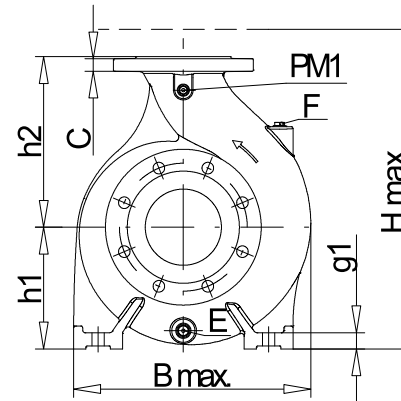
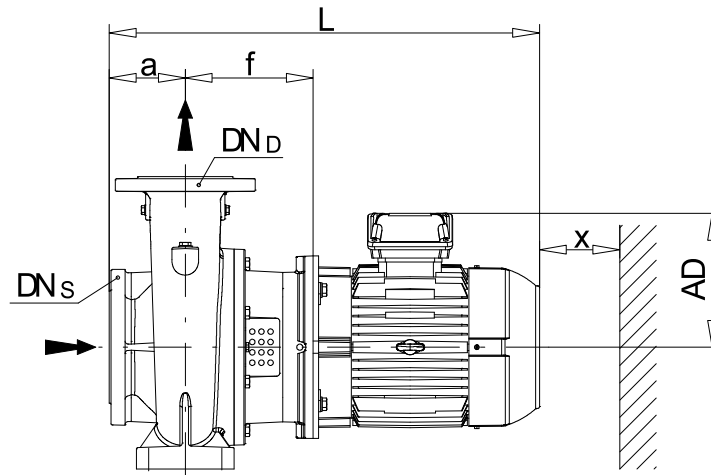
NSCS100-200/75/P46PCC4

Dimensions

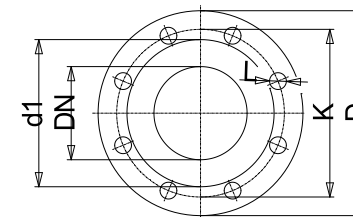
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Blockpump
Standard Design (Type A)
PLM 132 B5 7,5 kW

Electrical and dimensional data refer to IE3 motor



PM1...Pressure gauge connector
E...Drain
F....Filling



Value C, D may vary from Standard

Dimensions		[inch]	
a	4 ¹⁵ / ₁₆	Volumen	1 ¹ / ₁₂₈
AD	7 ¹ / ₂	x	3 ¹ / ₈
b	3 ¹ / ₈		
Bmax	15 ³ / ₈		
CTO			
DNd	3 ¹⁵ / ₁₆		
DNs	4 ¹⁵ / ₁₆		
E	3/8"		
f	8 ¹ / ₄		
F	3/8"		
g1	1 ¹ / ₃₂		
h1	7 ⁷ / ₈		
h2	11 ¹ / ₃₂		
Hmax	18 ⁷ / ₈		
L	29 ¹ / ₈		
m1	6 ⁵ / ₁₆		
m2	4 ³ / ₄		
n1	14 ³ / ₁₆		
n2	11 ¹ / ₃₂		
P	11 ¹³ / ₁₆		
PM1	1/4"		
s1	3/4		
Trim			
Type	A		

Weight

Total weight	142.6 kg
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Connections

Suction nozzle		Discharge nozzle	
DN125		DN100	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	1 ¹ / ₃₂	C	15 ⁵ / ₁₆
D	10 ¹ / ₁₆	D	9 ¹ / ₁₆
d1	7 ¹ / ₄	d1	6 ³ / ₁₆
K	8 ¹ / ₄	K	7 ¹ / ₁₆
L	3/4	L	3/4
Z	5 ⁵ / ₁₆	Z	5 ⁵ / ₁₆

Dimensions and weight without obligation

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