

NSCS50-200/30/P46PCS4

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	Standard, Grease lubrication [Std]				
10	Execution	4 poles motor				
11	Design	Horizontal				
12	Operating speed	1750 rpm	Stages	1	Impeller Ø	Max. inch 8 1/4
13	Suction nozzle	DN 65 / PN 16 / EN1092-2				designed inch 7 11/16
14	Discharge nozzle	DN 50 / PN 16 / EN1092-2				Min. inch 6 5/8
15	Max. casing pressure	psi			Flow	Nominal US g.p.m.
16	Max. working pressure	psi	25.1			Max- US g.p.m. 273
17	Impeller type	Radial impeller				Min- US g.p.m. 61.6
18	Head H(Q=0)	ft	58		Head	Nominal ft
19	Max. shaft power	hp	3.9			at Qmax ft 34.5
20	Pump weight	kg				at Qmin ft 58.9
21	Total weight	lb	149.9		Shaft power	hp
					Efficiency	%
					NPSH 3%	ft

Materials

22	Pump			Shaft Seal		
23	Volute Casing	Cast Iron		Single mechanical seal, without shaft sleeve		
24	Casing Cover	Cast Iron		eMG12 - Ø28mm	BQ7EGG-WA	
25	Impeller	Fabricated Stainless Steel		Mechanical seal diameter	1 1/8 inch	
26	Shaft	Stainless steel		1. Rotating ring	Carbon graphite resin impregnated	
27	Wear ring	Stainless steel		2. Stationary ring	SiC, silicon carbide, sintered press.less	
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal	Ethylene propylene rubber (EPDM)	
29	Impeller key	Stainless steel		4. Springs	CrNiMo - Steel	
30	Fill and drain plugs	Stainless steel		5. Others	EPDM - WRAS	
31				Gaskets of the pump	Ethylene propylene rubber (EPDM)	
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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 100 B5 3 kW			
45	Rated power	4.0231 hp	Rated current	6.66 A	
46	Nominal speed	1746 rpm	Rated voltage	380 V	
47	Frame size	100	Service factor	1	
48	Weight	lb 78.0	Degree of protection	IP55	

Remarks

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Project	Xylet-20178897	Created by		Last update	1/10/2025
Block	NSCS50-200/300/L26UCS4	Created on	1/10/2025		

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Performance curve

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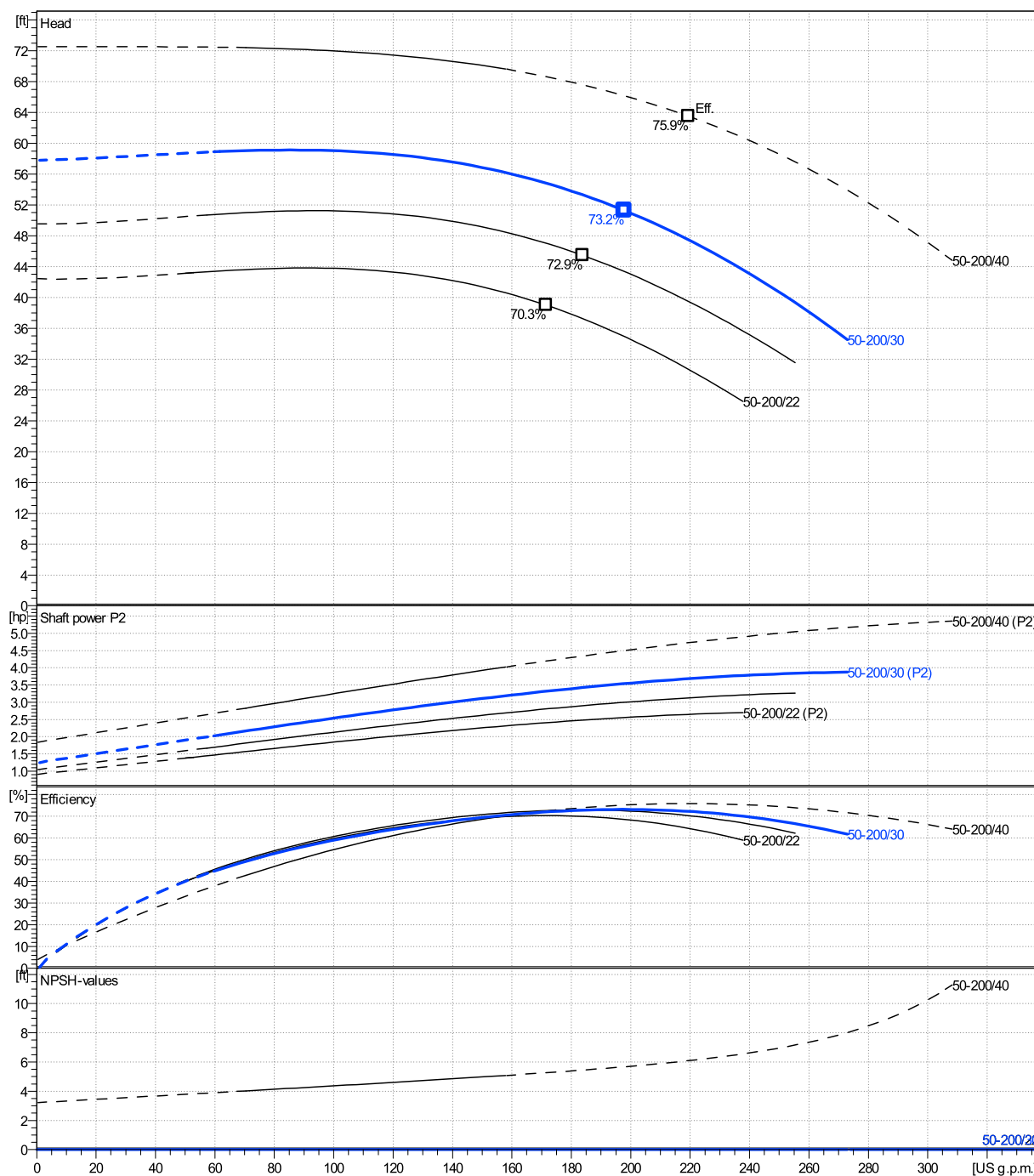
	Ø	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	60
		Operating range								Operating speed		1750
	mm	Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Nominal flow	US g.p.m.	0
actual	7 11/16	61.6	273	198	57.8	51.3		3.87	3.54	Nominal head	ft	0
Min.	0	/	/	171	42.4	39		/	2.41	Inlet pressure	psi	0
Max.	8 1/4	/	/	219	72.5	63.5		/	4.73	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: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project Block Xylect-20178897
NSCS50-200/300/L26UCS4

Created by
Created on 1/10/2025

Last update 1/10/2025

Program version
75.0 - 06/1/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

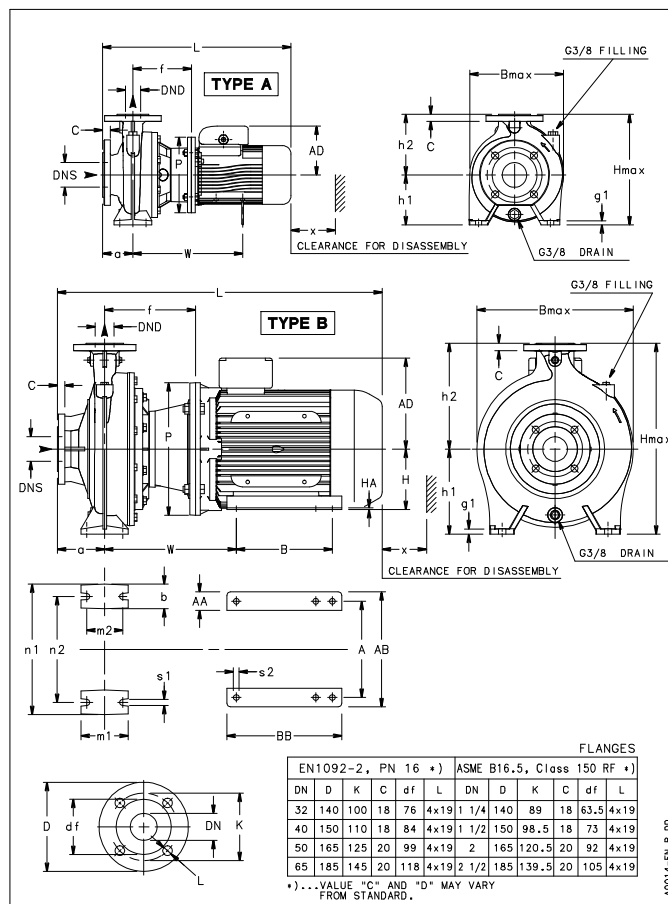
NSCS50-200/30/P46PCS4

Dimensions

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Blockpump
4 poles motor
PLM 100 B5 3 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [inch]

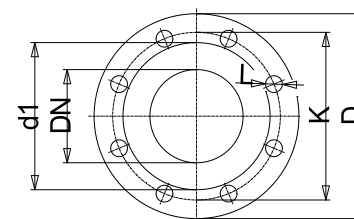
a	3 ¹⁵ / ₁₆		
AD	6 ⁵ / ₈		
b	1 ¹⁵ / ₁₆		
Bmax	12 ¹ / ₆₄		
DNd	1 ¹⁵ / ₁₆		
DNs	2 ⁹ / ₁₆		
f	6 ¹ / ₂		
g1	9 ⁹ / ₁₆		
h1	6 ⁵ / ₁₆		
h2	7 ⁷ / ₈		
Hmax	14 ³ / ₁₆		
L	24 ⁵ / ₁₆		
m1	3 ¹⁵ / ₁₆		
m2	2 ³ / ₄		
n1	10 ⁷ / ₁₆		
n2	8 ³ / ₈		
P	9 ¹³ / ₁₆		
s1	9 ⁹ / ₁₆		
Type	A		
Volumen	1 ¹ / ₂₅₆		
w	11 ¹ / ₄		
x	3 ⁷ / ₈		

Weight

Total weight	68 kg
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Connections

Suction nozzle	Discharge nozzle
DN 65	DN 50
PN 16	PN 16
EN1092-2	EN1092-2
C	1 ³ / ₁₆
D	7 ⁵ / ₁₆
df	4 ⁵ / ₈
DN	2 ⁹ / ₁₆
K	5 ¹¹ / ₁₆
L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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