

NSCF50-200/30/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	[F] = 4 poles motor unit with standard cuopling				
11	Design	Horizontal		Impeller Ø	Max.	inch 8 1/4
12	Operating speed	1750 rpm	Stages 1		designed	inch 7 11/16
13	Suction nozzle	DN 65 / PN 16 / EN1092-2			Min.	inch 6 5/8
14	Discharge nozzle	DN 50 / PN 16 / EN1092-2		Flow	Nominal US g.p.m.	
15	Max. casing pressure	psi			Max- US g.p.m.	273
16	Max. working pressure	psi	25.1		Min- US g.p.m.	61.6
17	Impeller type	Radial impeller		Head	Nominal	ft
18	Head H(Q=0)	ft	58		at Qmax	ft 34.5
19	Max. shaft power	hp	3.9		at Qmin	ft 58.9
20	Pump weight	kg	92.6	Shaft power	hp	
21	Total weight	lb	233.0	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)	
32						
33						
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39						
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41						

Motor data

Electrical and dimensional data refer to IE3 motor

Coupling

42	Manufacturer	Lowara		Manufacturer	Flender	
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B	
44	Type	PLM 100 B3 3 kW		Shaft diameter	Pump 15/16 inch	Motor 1 1/8 inch
45	Rated power	4.0231 hp	Rated current 6.66 A	Frame size	68	
46	Nominal speed	1746 rpm	Rated voltage 380 V	Spacer length	inch 1/8	
47	Frame size	100	Service factor 1	Weight	lb 1.2	
48	Weight	lb 86.4	Degree of protection IP55	Coupling protection	COUPLGUARD 160x112PNTD 0.5291 lb	

Base plate

49	Name	BASE 3A 900X390 BLU				
50	Weight	lb	52.2	Remarks		

NSCF50-200/30/P46PCS4

Performance curve

Company name
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e-mail address

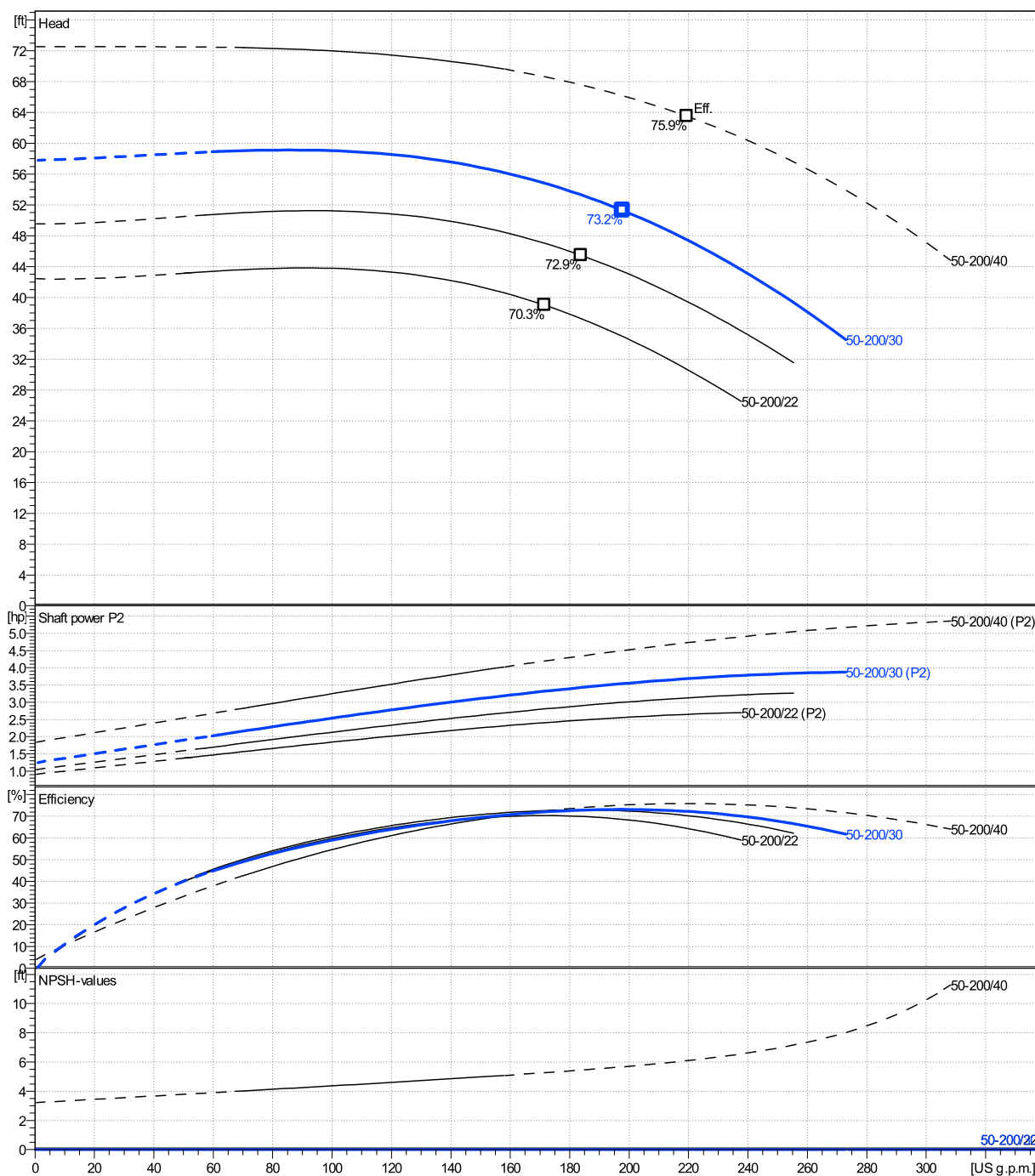
	Ø	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	60
		Operating range			η		η			Operating speed		1750
	mm	Min.	Max.	Max.	H(Q=0)	Max.	P2(Q=0)	Max.	Max.	Nominal flow	US g.p.m.	0
actual	7 11/16	61.6	273	198	57.8	51.3		3.87	3.54	Nominal head	ft	0
Min.	0	/	/	171	42.4	39		/	2.41	Inlet pressure	psi	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-20182283
NSCF50-200/300/L26UCS4

Created by
Created on 1/11/2025

Last update 1/11/2025

Program version
75.0 - 06/12/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

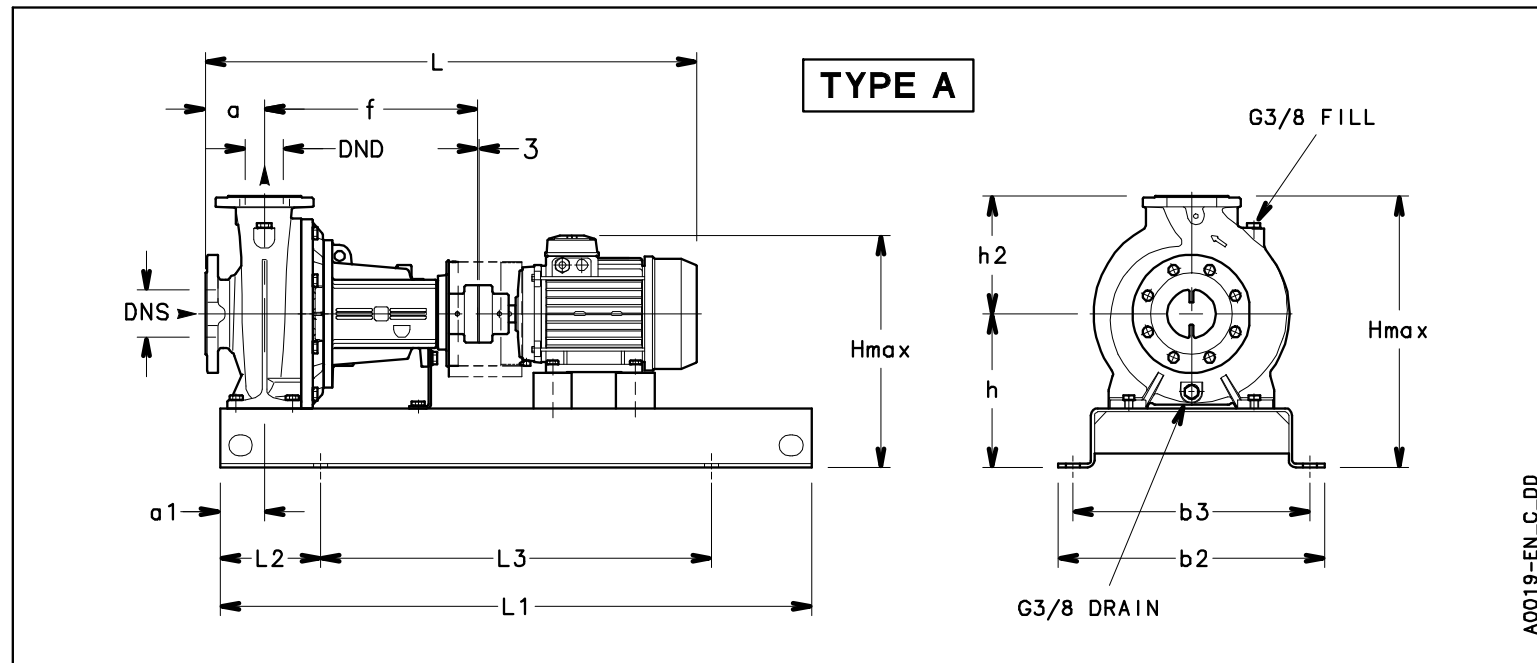
NSCF50-200/30/P46PCS4

Dimensions

Company name
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Phone number
e-mail address

Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 100 B3 3 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
a1	2 ³ / ₈		
AD	6 ⁷ / ₁₆		
b2	15 ³ / ₈		
b3	13 ³ / ₄		
DND	1 ¹⁵ / ₁₆		
DNS	2 ⁹ / ₁₆		
f	14 ³ / ₁₆		
Guard	4 ⁷ / ₁₆		
h	10 ¹ / ₄		
h2	7 ⁷ / ₈		
Hmax	18 ¹ / ₈		
L	34 ¹⁵ / ₁₆		
L1	35 ⁷ / ₁₆		
L2	5 ⁷ / ₈		
L3	23 ⁵ / ₈		
s	4xØ19		
Type	A		
Volumen	1 ¹ / ₁₂₈		
x	1 ¹ / ₈		

Weight

Total weight	105.68 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	C	1 ³ / ₁₆
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
df	4 ⁵ / ₈	df	3 ⁷ / ₈
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
K	5 ¹¹ / ₁₆	K	4 ¹⁵ / ₁₆
L	4 x 19	L	4 x 19

Note:
Weight and Dimensions of selected Hydrovar are NOT considered.
Please refer to additional datasheet.

Dimensions and weight without obligation

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