

NSCF65-125/22/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	Standard, Grease lubrication [Std]							
10	Execution	[F] = 4 poles motor unit with standard cuopling				Impeller Ø	Max.	inch	5 13/16
11	Design	Horizontal					designed	inch	5 13/16
12	Operating speed	1750 rpm		Stages 1			Min.	inch	4 7/16
13	Suction nozzle	DN 80 / PN 16		/ EN1092-2		Flow	Nominal		US g.p.m.
14	Discharge nozzle	DN 65 / PN 16		/ EN1092-2			Max-	US g.p.m.	449.1
15	Max. casing pressure	psi					Min-	US g.p.m.	95.5
16	Max. working pressure	psi		14.8		Head	Nominal		ft
17	Impeller type	Radial impeller					at Qmax	ft	18.3
18	Head H(Q=0)	ft		34			at Qmin	ft	33.8
19	Max. shaft power	hp		2.9		Shaft power		hp	
20	Pump weight	kg		99.2		Efficiency		%	
21	Total weight	lb		241.6		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 - Ø22mm BQ7EGG-WA
25	Impeller	Cast Iron		Mechanical seal diameter 7/8 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				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

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 2,2 kW			Shaft diameter		Pump 15/16 inch	Motor 1 1/8 inch
45	Rated power	2.9502 hp	Rated current	8.19 A	Frame size		68	
46	Nominal speed	1740 rpm	Rated voltage	220 V	Spacer length		inch	1/8
47	Frame size	100	Service factor	1	Weight		lb	1.2
48	Weight	lb 87.7	Degree of protection	IP55	Coupling protection	COUPLGUARD 160x112PNTD 0.5291 lb		

Base plate

49	Name	BASE 3C 900X390 BLU	Remarks
50	Weight	lb 52.9	

NSCF65-125/22/P46PCC4

Performance curve

Company name
Contact
Phone number
e-mail address

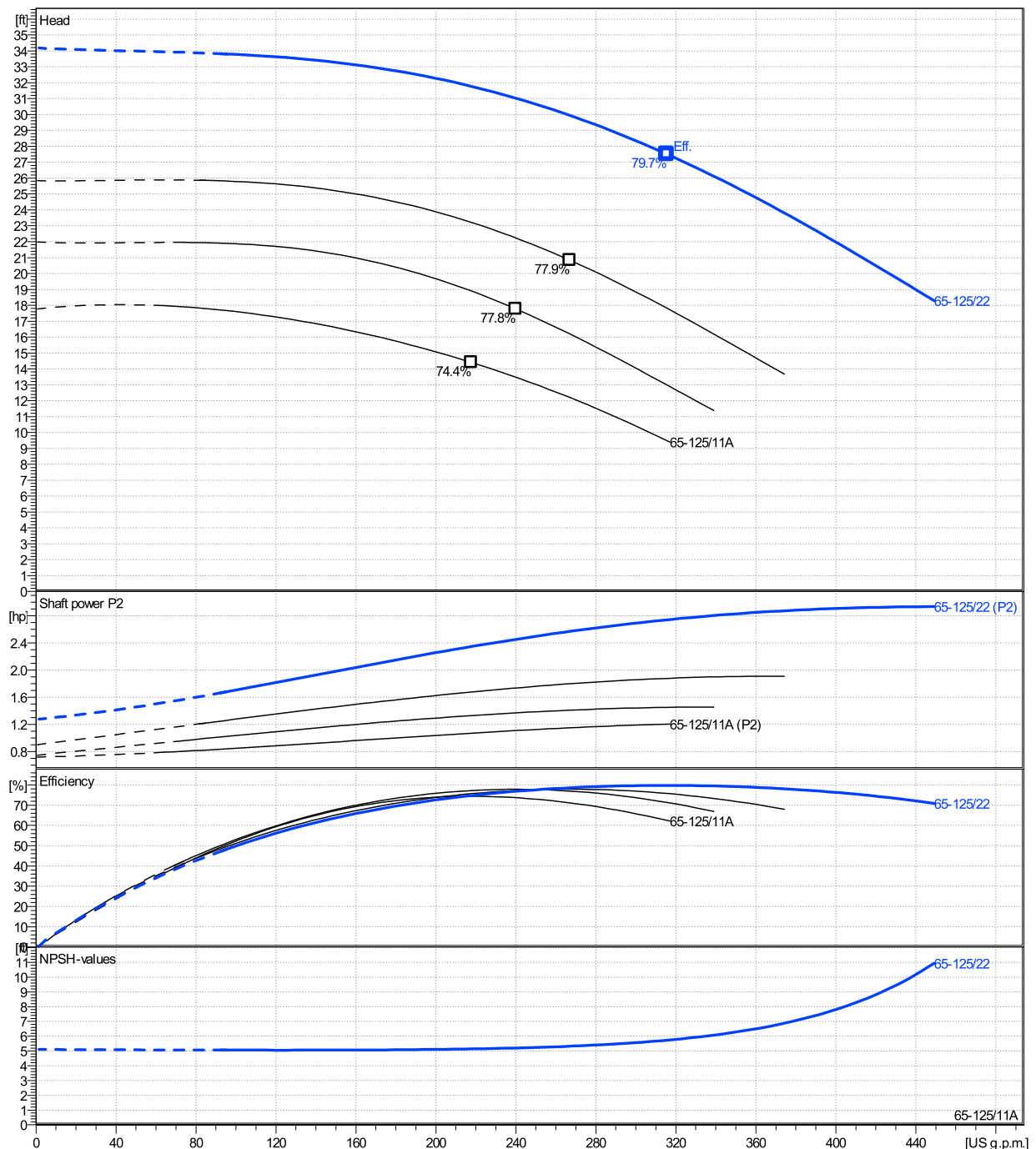
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. US g.p.m.	Max. US g.p.m.	η US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed rpm	Nominal flow US g.p.m.	
actual	5 13/16	95.5	449	315	34.2	27.5		2.94	2.74			60
Min.	0	/	/	218	17.8	14.4		/	1.07			1750
Max.	5 13/16	/	/	315	34.2	27.5		/	2.74			0
										Nominal head	ft	0
										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: N.A. - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



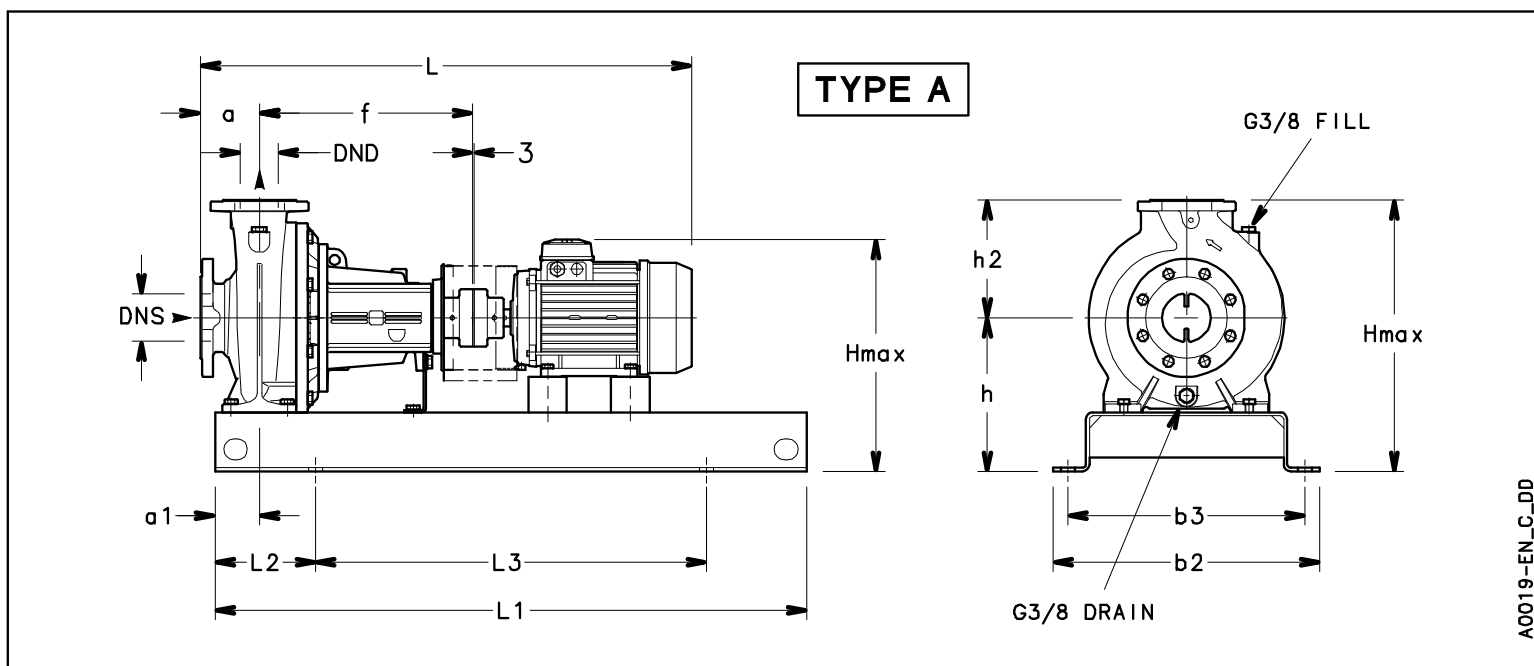
NSCF65-125/22/P46PCC4

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
[F] = 4 poles motor unit with standard coupling
PLM 100 B3 2,2 kW

Electrical and dimensional data refer to IE3 motor



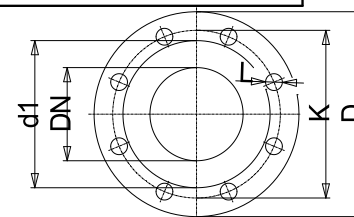
Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
a1	2 ³ / ₈		
AD	6 ⁷ / ₁₆		
b2	15 ³ / ₈		
b3	13 ³ / ₄		
DND	2 ⁹ / ₁₆		
DNS	3 ¹ / ₈		
f	14 ³ / ₁₆		
Guard	4 ⁷ / ₁₆		
h	10 ¹ / ₄		
h2	7 ¹ / ₁₆		
Hmax	17 ⁵ / ₁₆		
L	34 ¹⁵ / ₁₆		
L1	35 ⁷ / ₁₆		
L2	5 ⁷ / ₈		
L3	23 ⁵ / ₈		
s	4xØ19		
Type	A		
Volumen	1 ¹ / ₁₂₈		
x	1 ¹ / ₈		

Weight

Total weight	109.58 kg
--------------	-----------

Connections

Suction nozzle		Discharge nozzle	
DN 80		DN 65	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	7 ⁷ / ₈	C	13 ³ / ₁₆
D	7 ⁷ / ₈	D	7 ⁵ / ₁₆
df	5 ³ / ₁₆	df	4 ⁵ / ₈
DN	3 ¹ / ₈	DN	2 ⁹ / ₁₆
K	6 ⁵ / ₁₆	K	5 ¹¹ / ₁₆
L	8 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

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF65-125/110/P26PCC4	Created on	1/11/2025		