

NSCF125-200/110/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	Standard coupling					Impeller Ø	Max.	inch	8 7/8	
11	Design	Horizontal						designed	inch	8 7/8	
12	Operating speed	1758 rpm		Stages		1		Min.	inch	6 1/2	
13	Suction nozzle	DN150 /		PN10/16 /		EN1092-2		Flow	Nominal US g.p.m.		
14	Discharge nozzle	DN125 /		PN10/16 /		EN1092-2			Max-	US g.p.m.	1710.3
15	Max. casing pressure	psi						Min-	US g.p.m.	219.3	
16	Max. working pressure	psi		30.5				Head	Nominal ft		
17	Impeller type			Radial impeller					at Qmax	ft	41.7
18	Head H(Q=0)	ft		70					at Qmin	ft	70
19	Max. shaft power	hp		23.6				Shaft power		hp	
20	Pump weight	kg		246.9				Efficiency		%	
21	Total weight	lb		751.8				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			Coupling
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency			Manufacturer
44	Type	PLM 160 B3 11 kW			Flender
45	Rated power	14.751 hp	Rated current	22.1 A	Series
46	Nominal speed	1758 rpm	Rated voltage	380 V	Standard Coupling - N-EUPEX - Type B
47	Frame size	160	Service factor	1	Shaft diameter
48	Weight	lb 272.0	Degree of protection	IP55	Pump 1 1/4 inch Motor 1 5/8 inch
					Frame size
					95
					Spacer length
					inch 3/16
					Weight
					lb 4.9
					Coupling protection
					GR.COUPLGUARD ES32-190-16 A4 3.9683 lb

Base plate

49	Name	BASEFRAME_NSC80-2_C00			Remarks
50	Weight	lb 224.0			

NSCF125-200/110/P46PCC4

Performance curve

Company name
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Phone number
e-mail address

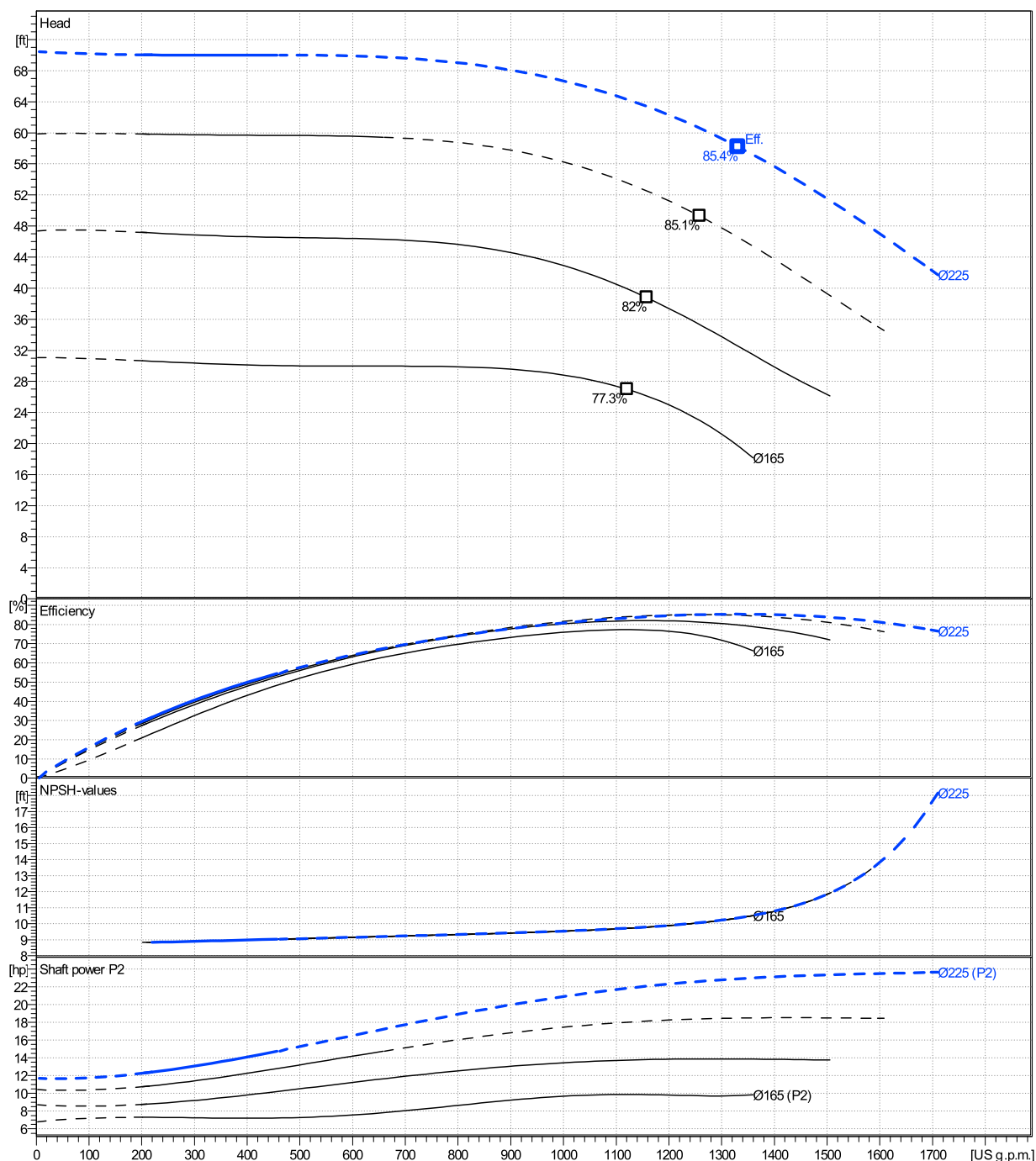
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. US g.p.m.	Max. US g.p.m.	Max. η US g.p.m.	H(Q=0) ft	Max. η ft	P2(Q=0) hp	Max. hp	Max. η hp	Operating speed rpm	Nominal flow US g.p.m.	
actual	8 7/8	219	457	1330	70.4	58.2		23.6	22.9	1758	0	
Min.	0	/	/	1120	31.1	27		/	9.87		0	
Max.	8 7/8	/	/	1330	70.4	58.2		/	22.9		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: 0,66 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



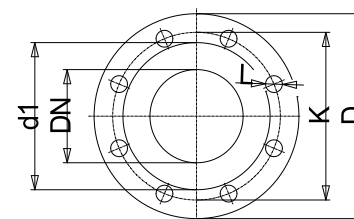
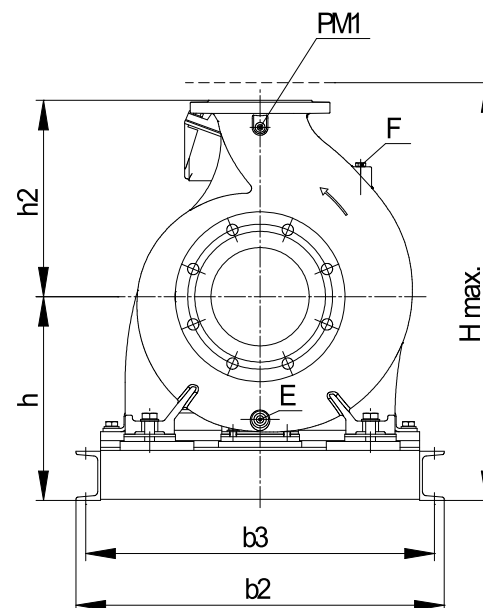
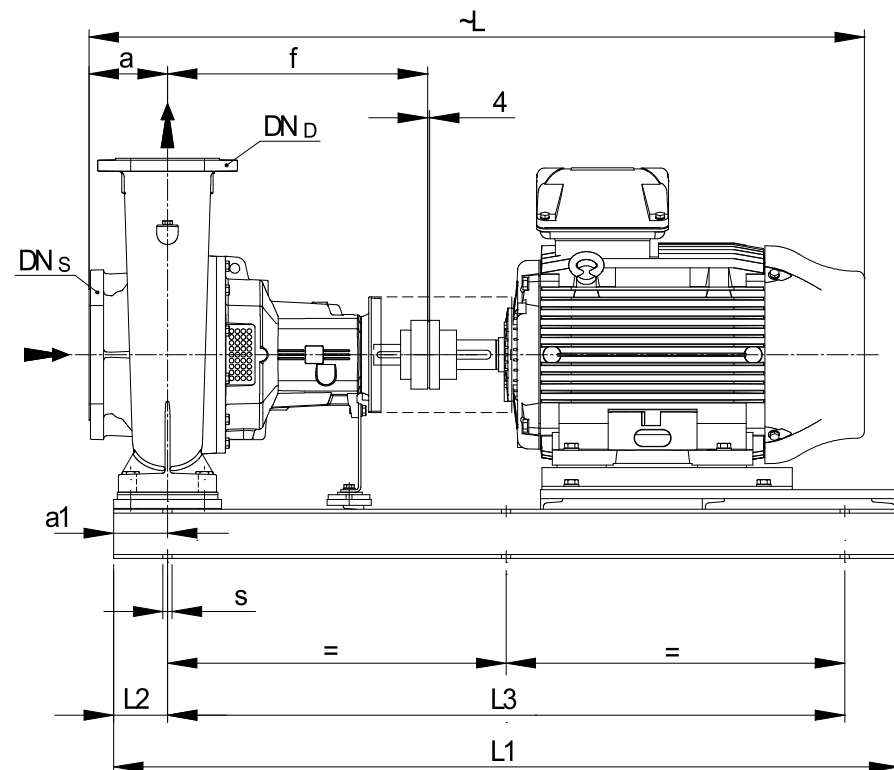
NSCF125-200/110/P46PCC4

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
PLM 160 B3 11 kW

Electrical and dimensional data refer to IE3 motor



Value C, D may vary from Standard

Dimensions [inch]

a	5 ¹ / ₂		
a1	4 ⁵ / ₁₆		
b2	26 ³ / ₈		
b3	24 ¹³ / ₁₆		
CTO			
DNd	4 ¹⁵ / ₁₆		
DNs	5 ⁷ / ₈		
E	3/8"		
F	3/8"		
f	18 ¹ / ₂		
Guard	7 ⁵ / ₈		
h	14 ³ / ₈		
h2	12 ³ / ₈		
Hmax	26 ³ / ₄		
L	47 ¹⁵ / ₁₆		
L1	52 ³ / ₈		
L2	4 ⁵ / ₁₆		
L3	43 ¹¹ / ₁₆		
PM1	1/4"		
s	6xØ19		
Trim			
Volumen	1 ¹ / ₃₂		

Weight

Total weight	341 kg
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Connections

Suction nozzle		Discharge nozzle	
DN150		DN125	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	1 ¹ / ₃₂	C	1 ¹ / ₃₂
D	11 ¹ / ₄	D	10 ¹ / ₁₆
d1	8 ⁵ / ₁₆	d1	7 ¹ / ₄
K	9 ⁷ / ₁₆	K	8 ¹ / ₄
L	7 ⁷ / ₈	L	3 ³ / ₄
Z	5 ⁵ / ₁₆	Z	5 ⁵ / ₁₆

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	NSCF125-200/1100/L26UCC4 E4	Created on	1/11/2025		