

NSCF125-250/220/L46UCC4

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		
11	Design	Horizontal	Impeller Ø	Max. inch 10 3/16 designed inch 9 5/8 Min. inch 8 7/16
12	Operating speed	1758 rpm	Stages	1
13	Suction nozzle	DN150 / PN10/16 / EN1092-2		
14	Discharge nozzle	DN125 / PN10/16 / EN1092-2	Flow	Nominal US g.p.m. Max- US g.p.m. 1677.1 Min- US g.p.m. 214.7
15	Max. casing pressure	psi		
16	Max. working pressure	psi 39		
17	Impeller type	Radial impeller	Head	Nominal ft at Qmax ft 50.9 at Qmin ft 89.2
18	Head H(Q=0)	ft 90		
19	Max. shaft power	hp 28.3	Shaft power	hp
20	Pump weight	kg 246.9	Efficiency	%
21	Total weight	lb 804.5	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	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	1 1/2 inch
26	Shaft	Stainless steel, 1.4057, AISI 431	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel, 1.4301, AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press. less
28	Impeller lock nut and washer	A4 (1.4401)	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215	5. Others	EPDM - WRAS
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Gaskets of the pump	Ethylene propylene rubber (EPDM)
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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	3MAS 180 L B3 22 kW	Shaft diameter	Pump 1 1/4 inch Motor 1 7/8 inch
45	Rated power	29.502 hp	Rated current	43.6 A
46	Nominal speed	1758 rpm	Rated voltage	380 V
47	Frame size	180 L	Service factor	1
48	Weight	lb 310.8	Degree of protection	IP55
			Frame size	110
			Spacer length	inch 3/16
			Weight	lb 7.3
			Coupling protection	GR.COUPLGUARD ES32-190-16 A4 3.9683 lb

Base plate

49	Name	BASEFRAME_NSC80-2_C00	Remarks
50	Weight	lb 235.4	

NSCF125-250/220/L46UCC4

Performance curve

Company name
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e-mail address

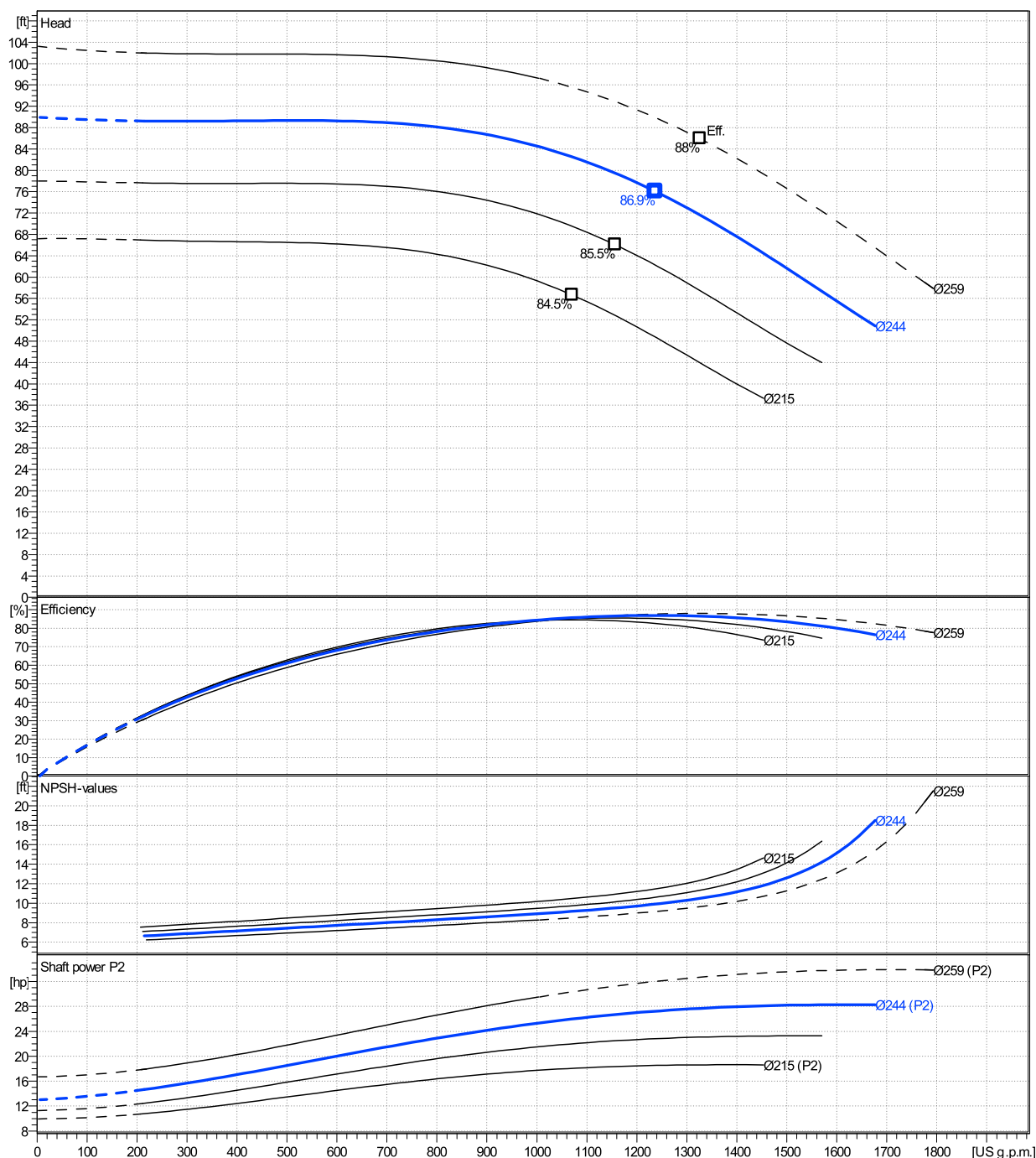
	Ø	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	60
		Operating range										
	mm	Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed	rpm	1758
		US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp	Nominal flow	US g.p.m.	0
actual	9 5/8	215	1680	1240	89.9	76.1		28.3	27.2	Nominal head	ft	0
Min.	0	/	/	1070	67.2	56.7		/	18.1	Inlet pressure	psi	0
Max.	10 3/16	/	/	1330	103	85.9		/	32.7	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: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
3MAS 180 L B3 22 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [inch]

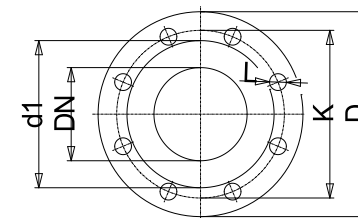
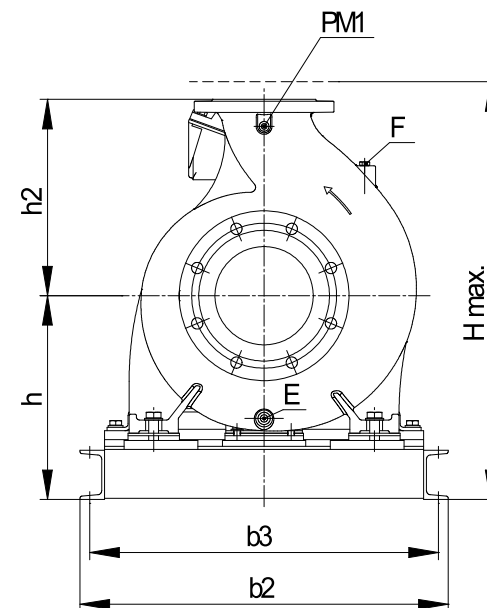
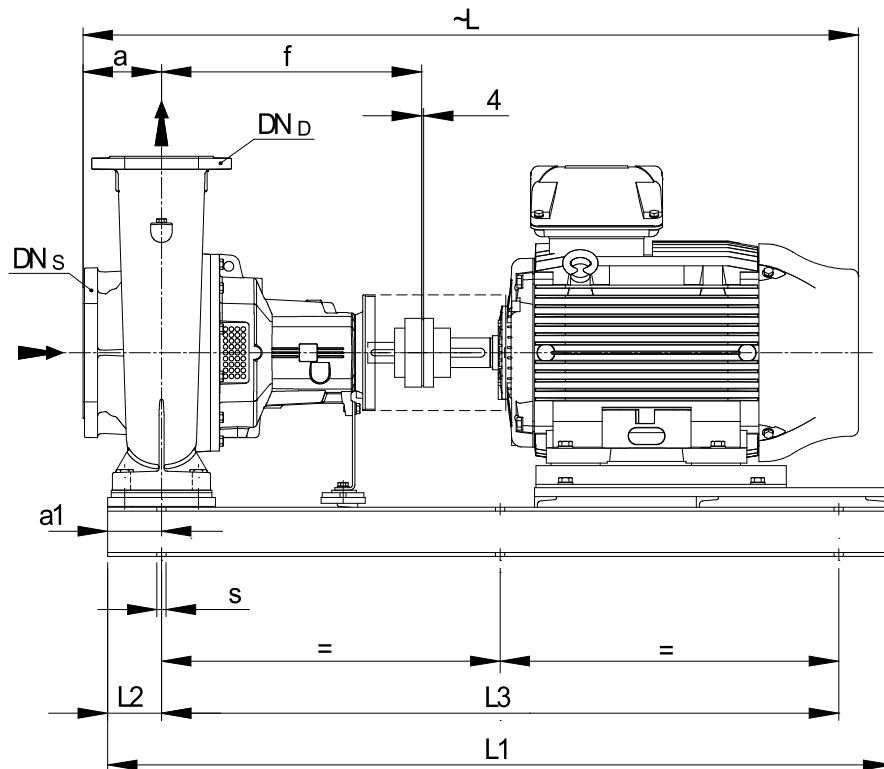
a	5 ¹ / ₂		
a1	4 ⁵ / ₁₆		
b2	26 ³ / ₈		
b3	24 ¹³ / ₁₆		
CTO			
DNd	4 ¹⁵ / ₁₆		
DNs	5 ⁷ / ₈		
E	3/8"		
F	3/8"		
f	18 ¹ / ₂		
Guard	7 ⁵ / ₈		
h	15 ³ / ₁₆		
h2	14		
Hmax	29 ¹ / ₈		
L	51 ³ / ₄		
L1	52 ³ / ₈		
L2	4 ⁵ / ₁₆		
L3	43 ¹¹ / ₁₆		
PM1	1/4"		
s	6xØ19		
Trim			
Volumen	1 ¹ / ₃₂		

Weight

Total weight	364.9 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



Value C, D may vary from Standard

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	NSCF125-250/300/L46UCC4	Created on	1/11/2025		