

NSCF150-315/220/L66UCC4

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 13 1/8 designed inch 12 3/4 Min. inch 10 3/8
12	Operating speed	1175 rpm	Stages	1
13	Suction nozzle	DN200 / PN16 / EN1092-2		
14	Discharge nozzle	DN150 / PN10/16 / EN1092-2	Flow	Nominal US g.p.m. Max- US g.p.m. 2126.6 Min- US g.p.m. 259.8
15	Max. casing pressure	psi		
16	Max. working pressure	psi 31.7		
17	Impeller type	Radial impeller	Head	Nominal ft at Qmax ft 36.2 at Qmin ft 73
18	Head H(Q=0)	ft 73		
19	Max. shaft power	hp 28.3	Shaft power	hp
20	Pump weight	kg 410.1	Efficiency	%
21	Total weight	lb 1,083.1	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 - Ø48mm	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	1 7/8 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 200 L B3 22 kW	Shaft diameter	Pump 1 5/8 inch Motor 2 3/16 inch
45	Rated power	29.502 hp	Rated current	45 A
46	Nominal speed	1176 rpm	Rated voltage	380 V
47	Frame size	200 L	Service factor	1
48	Weight	lb 405.6	Degree of protection	IP55
			Frame size	125
			Spacer length	inch 3/16
			Weight	lb 11.5
			Coupling protection	GR.COUPLGUARD ES42-230-16 A4 3.7478 lb

Base plate

49	Name	BASEFRAME_NSC80-4_C00	Remarks
50	Weight	lb 252.2	

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Performance curve

Company name
Contact
Phone number
e-mail address

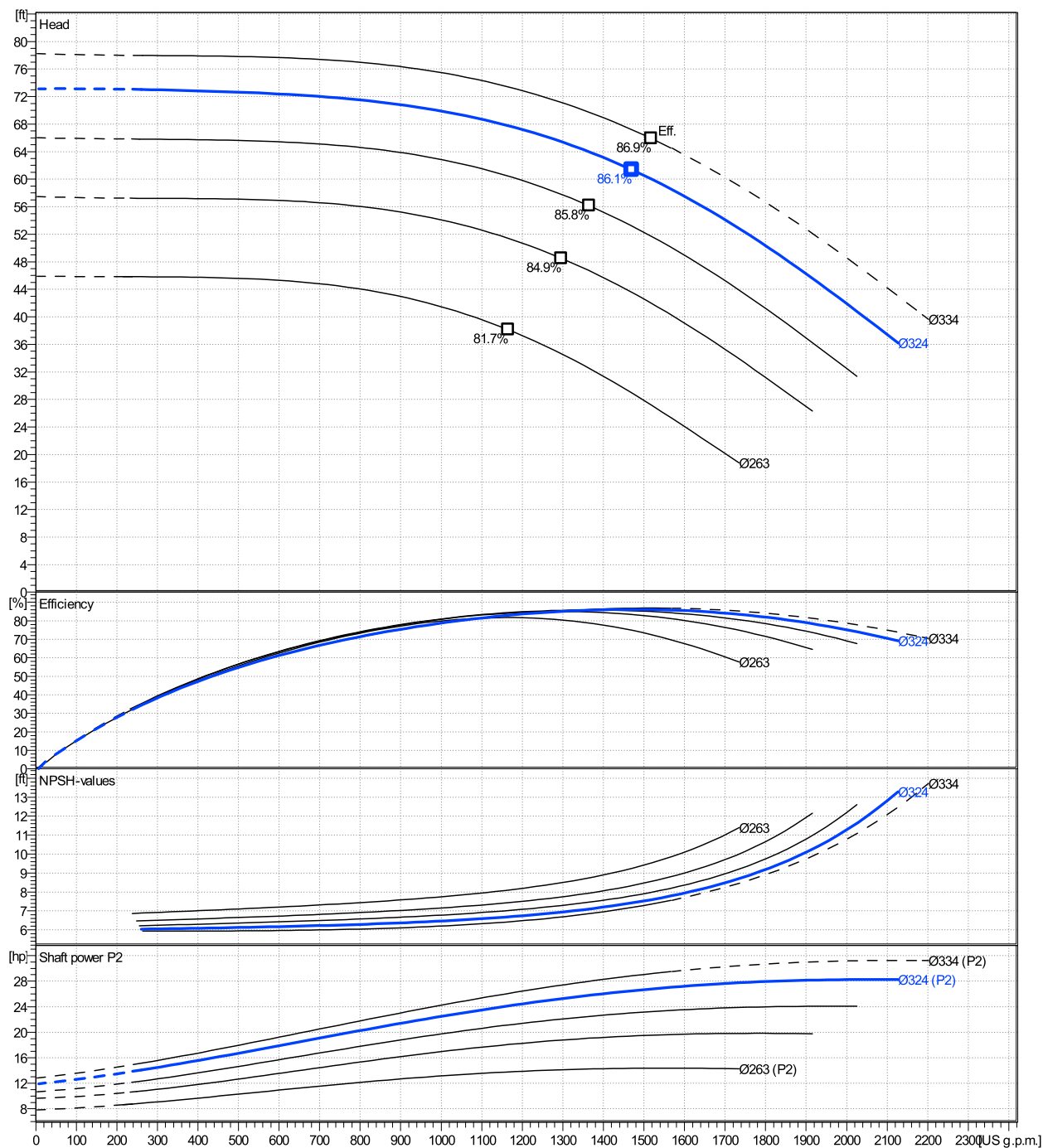
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed rpm	Nominal flow US g.p.m.	
actual	12 3/4	260	2130	1470	73.1	61.3		28.3	26.5			1175
Min.	0	/	/	1170	45.9	38.1		/	13.8			0
Max.	13 1/8	/	/	1520	78.2	65.9		/	29.2			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



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Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
3MAS 200 L B3 22 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [inch]

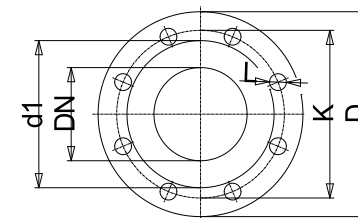
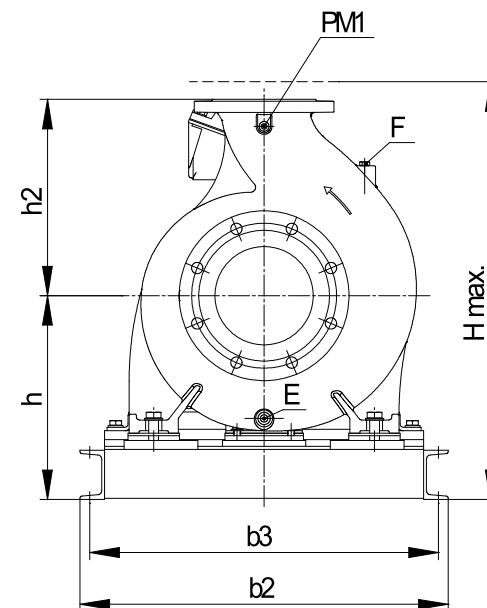
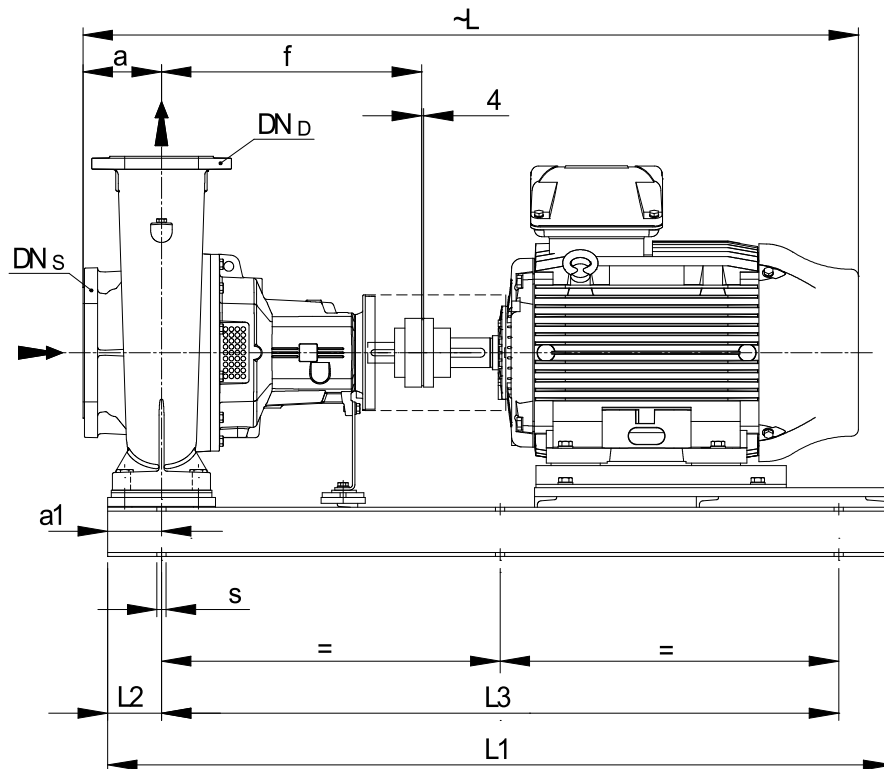
a	6 ⁵ / ₁₆
a1	4 ⁵ / ₁₆
b2	26 ³ / ₈
b3	24 ¹³ / ₁₆
CTO	
DNd	5 ⁷ / ₈
DNs	7 ⁷ / ₈
E	3/8"
F	3/8"
f	20 ⁷ / ₈
Guard	8 ¹³ / ₁₆
h	16 ⁹ / ₁₆
h2	15 ³ / ₄
Hmax	32 ⁵ / ₁₆
L	58 ¹ / ₁₆
L1	56 ⁵ / ₁₆
L2	4 ⁵ / ₁₆
L3	47 ⁵ / ₈
PM1	1/4"
s	6xØ19
Trim	
Volumen	1 ¹ / ₁₆

Weight

Total weight	491.3 kg
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Connections

Suction nozzle		Discharge nozzle	
DN200		DN150	
PN16		PN10/16	
EN1092-2		EN1092-2	
C	1 ³ / ₁₆	C	1 ¹ / ₃₂
D	13 ⁹ / ₁₆	D	11 ¹ / ₄
d1	10 ¹ / ₂	d1	8 ⁵ / ₁₆
K	11 ⁵ / ₈	K	9 ⁷ / ₁₆
L	7 ⁷ / ₈	L	7 ⁷ / ₈
Z	1 ¹ / ₂	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

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