

NSCF125-315/750/L46UCC4 E4

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	13 1/8	
11	Design	Horizontal						designed	inch	13 1/8	
12	Operating speed	1788 rpm		Stages		1		Min.	inch	10 7/16	
13	Suction nozzle	DN150	/	PN10/16	/	EN1092-2		Nominal US g.p.m.			
14	Discharge nozzle	DN125	/	PN10/16	/	EN1092-2		Flow	Max-	US g.p.m.	2040.2
15	Max. casing pressure	psi						Min-	US g.p.m.	221.8	
16	Max. working pressure	psi		82.4			Head	Nominal		ft	
17	Impeller type				Radial impeller			at Qmax		ft	115.6
18	Head H(Q=0)	ft		190				at Qmin		ft	191
19	Max. shaft power	hp		85.5			Shaft power		hp		
20	Pump weight	kg		335.1			Efficiency		%		
21	Total weight	lb		On demand			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 IE4 motor

42	Manufacturer	Lowara			Manufacturer		Flender	
43	Specific design	IE4 3ph Surface Motor - Super Premium Efficiency			Series		Standard Coupling - N-EUPEX - Type B	
44	Type	3MGS 280 S B3 75 kW E4			Shaft diameter		Pump 1 5/8 inch	Moto 2 15/16 inch
45	Rated power	100.58 hp	Rated current	141 A	Frame size		180	
46	Nominal speed	1788 rpm	Rated voltage	380 V	Spacer length		inch	3/16
47	Frame size	280 S	Service factor	1	Weight		lb	25.4
48	Weight	lb 1,547.2	Degree of protection	IP55	Coupling protection	GR.COUPLEGUARD ES42-230-23 A4 7.4956 lb		

Base plate

49	Name	BASEFRAME_NSC80-7_C00	Remarks
50	Weight	lb 317.0	

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Performance curve

Company name
Contact
Phone number
e-mail address

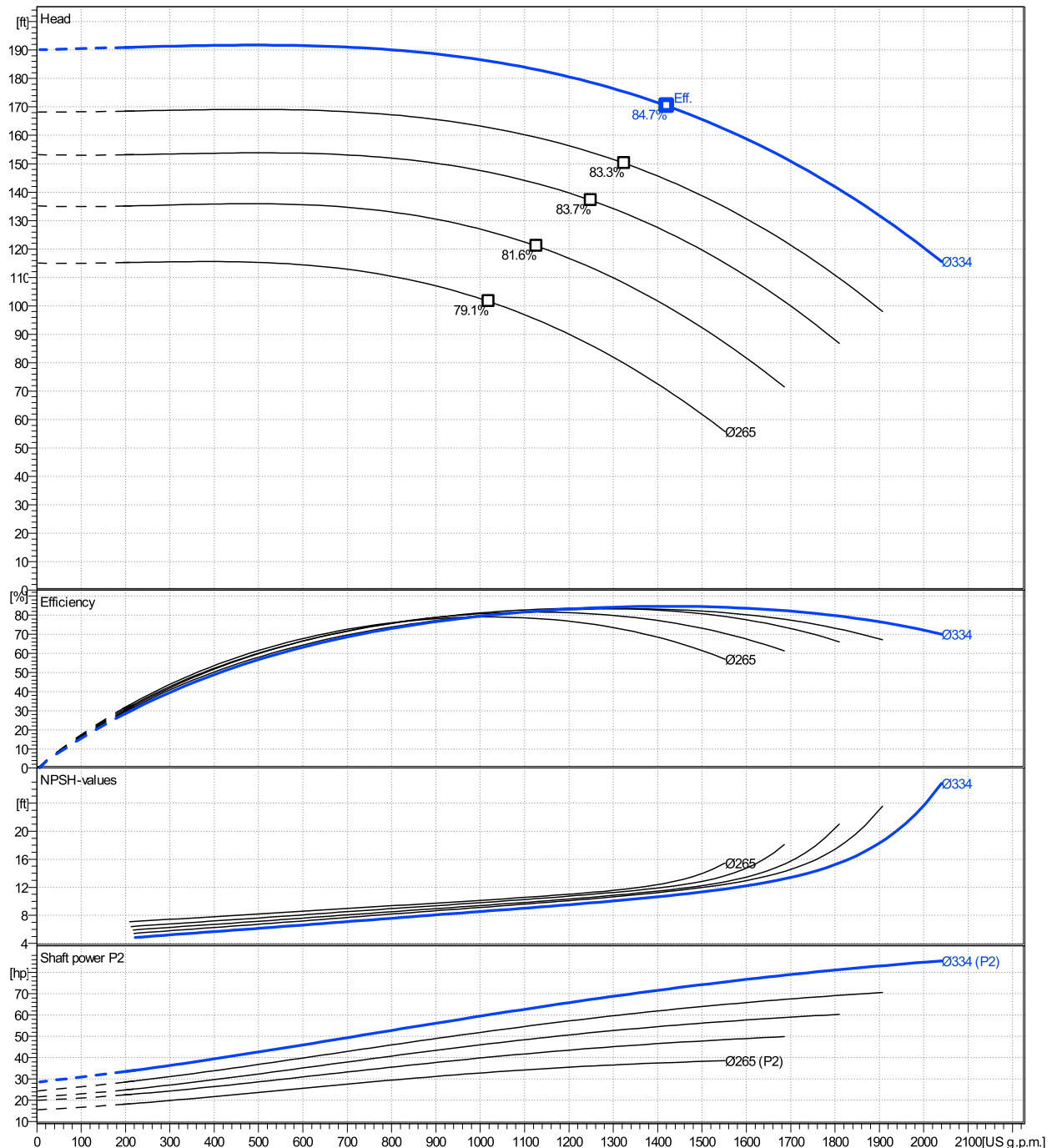
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed rpm		1788
actual	13 1/8	222	2040	1420	190	170		85.5	72.2	Nominal flow	US g.p.m.	0
Min.	0	/	/	1020	115	102		/	33.1	Nominal head	ft	0
Max.	13 1/8	/	/	1420	190	170		/	72.2	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: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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Created on 1/11/2025

Last update 1/11/2025

Program version
75.0 - 06/11/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

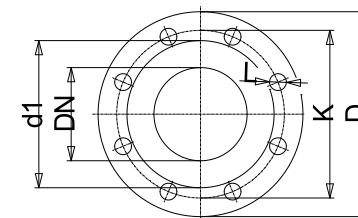
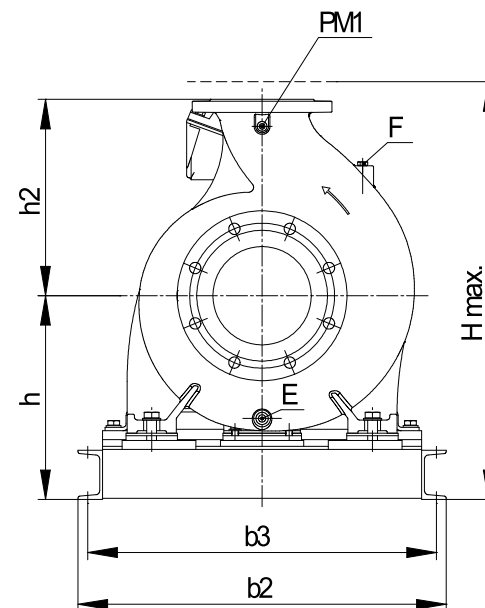
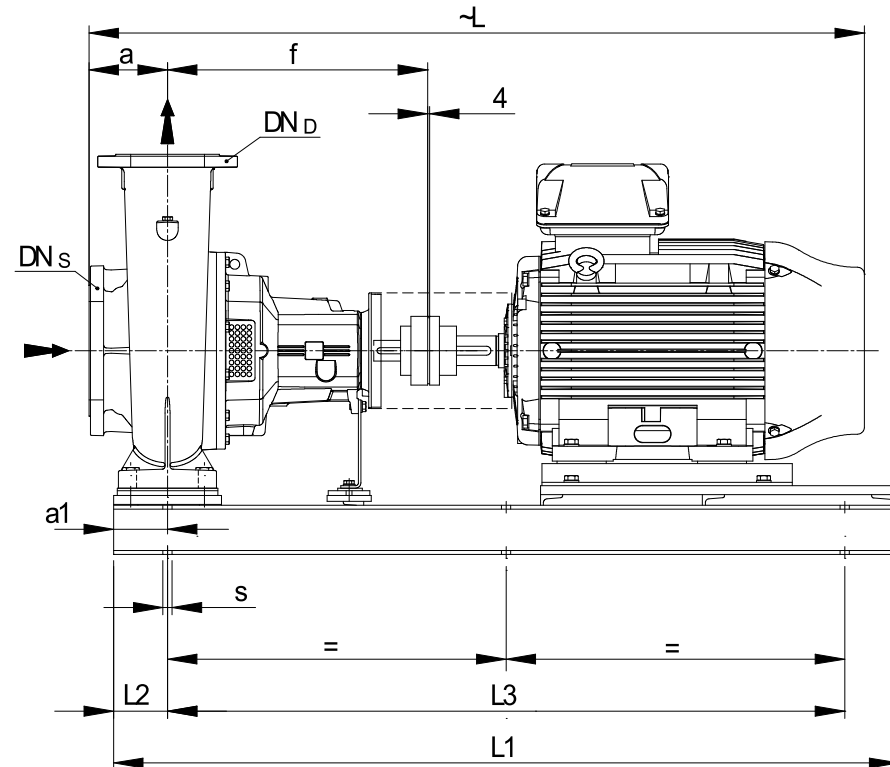
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Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
3MGS 280 S B3 75 kW E4

Electrical and dimensional data refer to IE4 motor



Value C, D may vary from Standard

Dimensions		[inch]	
a	5 ¹ / ₂		
a1	4 ⁵ / ₁₆		
b2	29 ¹ / ₂		
b3	27 ¹⁵ / ₁₆		
CTO			
DNd	4 ¹⁵ / ₁₆		
DNs	5 ⁷ / ₈		
E	3/8"		
F	3/8"		
f	20 ⁷ / ₈		
Guard	10		
h	17 ⁵ / ₁₆		
h2	14		
Hmax	33 ⁹ / ₁₆		
L1	63		
L2	4 ⁵ / ₁₆		
L3	54 ⁵ / ₁₆		
PM1	1/4"		
s	6xØ19		
Trim			
Volumen	1 ¹ / ₁₆		

Weight	
Total weight	On demand kg

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

Dimensions and weight without obligation

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