

NSCF150-400/1100/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				
11	Design	Horizontal				
12	Operating speed	1788 rpm	Stages	1	Impeller Ø	Max. inch 14 1/4
13	Suction nozzle	DN200 / PN16 / EN1092-2				designed inch 14 1/4
14	Discharge nozzle	DN150 / PN10/16 / EN1092-2				Min. inch 12 3/4
15	Max. casing pressure	psi			Flow	Nominal US g.p.m.
16	Max. working pressure	psi	95.4			Max- US g.p.m. 3317
17	Impeller type	Radial impeller				Min- US g.p.m. 307.4
18	Head H(Q=0)	ft	220	Head		Nominal ft
19	Max. shaft power	hp	148			at Qmax ft 127.1
20	Pump weight	kg	502.6	Shaft power	hp	at Qmin ft 220
21	Total weight	lb	On demand	Efficiency	%	
				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

Coupling

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 315 S B3 110 kW E4		Shaft diameter	Pump 1 5/8 inch	Motor 3 1/8 inch
45	Rated power	147.51 hp	Rated current	203 A	Frame size	200
46	Nominal speed	1788 rpm	Rated voltage	380 V	Spacer length	inch 3/16
47	Frame size	315 S	Service factor	1	Weight	lb 35.3
48	Weight	lb 2,092.2	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES42-230-23 A4 7.4956 lb

Base plate

49	Name	BASEFRAME_NSC80-12_C00				
50	Weight	lb	468.9	Remarks		

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Performance curve

Company name
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e-mail address

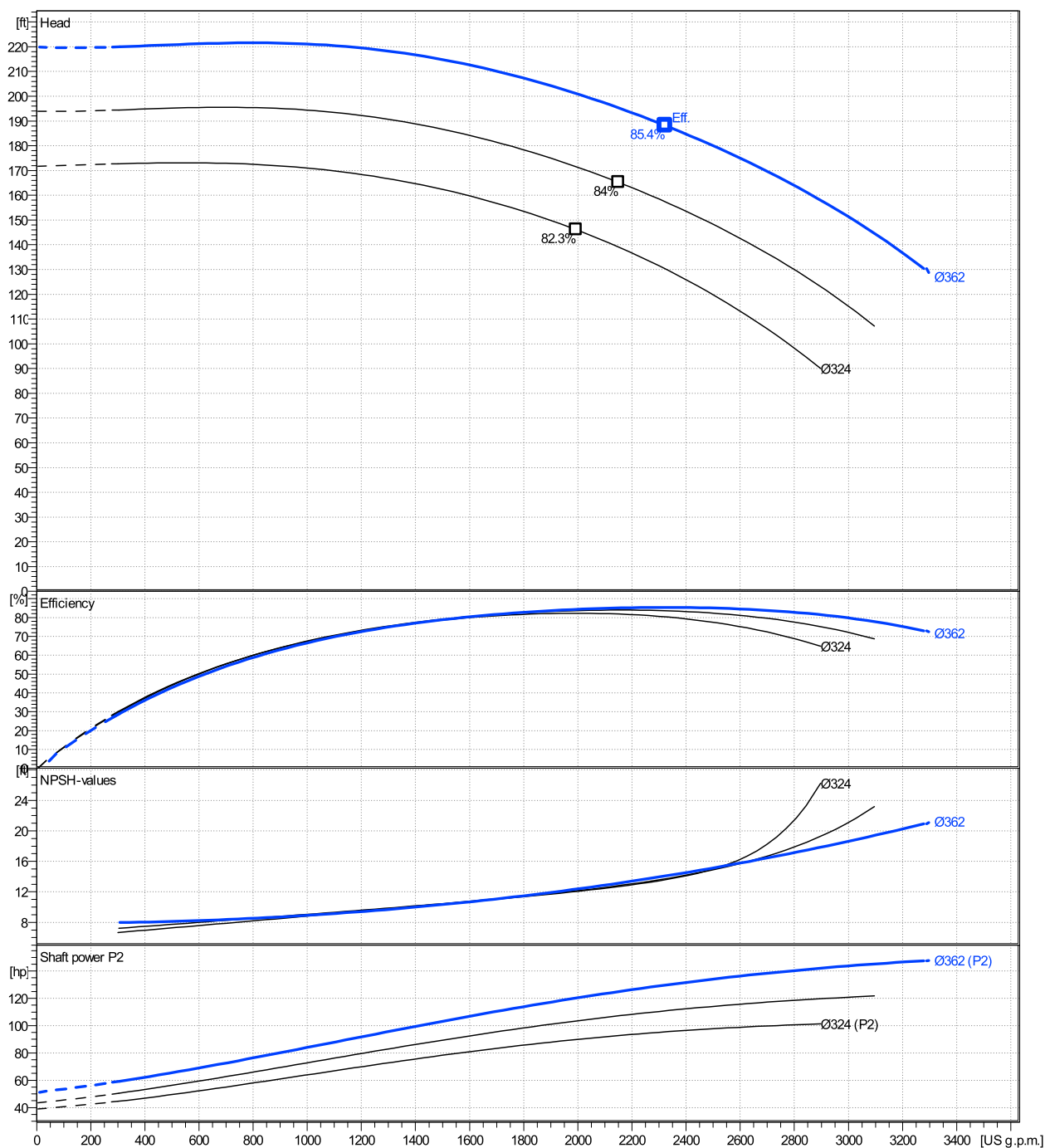
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed rpm		1788
actual	14 1/4	307	3280	2320	220	188		148	130	Nominal flow	US g.p.m.	0
Min.	0	/	/	1990	172	146		/	89.8	Nominal head	ft	0
Max.	14 1/4	/	/	2320	220	188		/	130	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



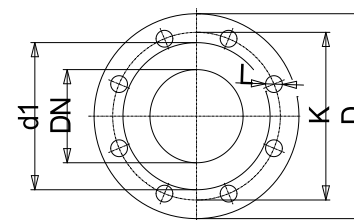
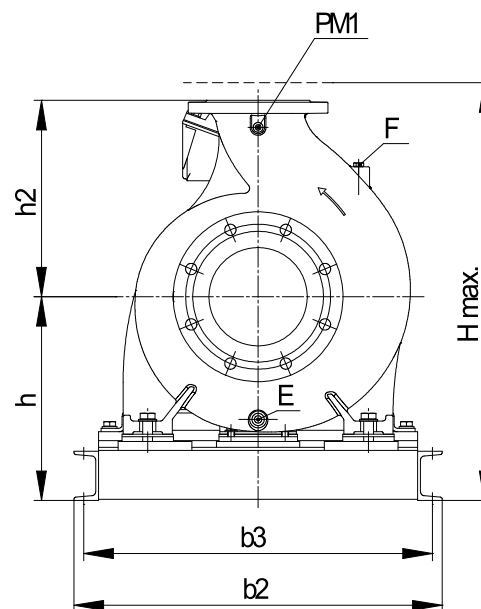
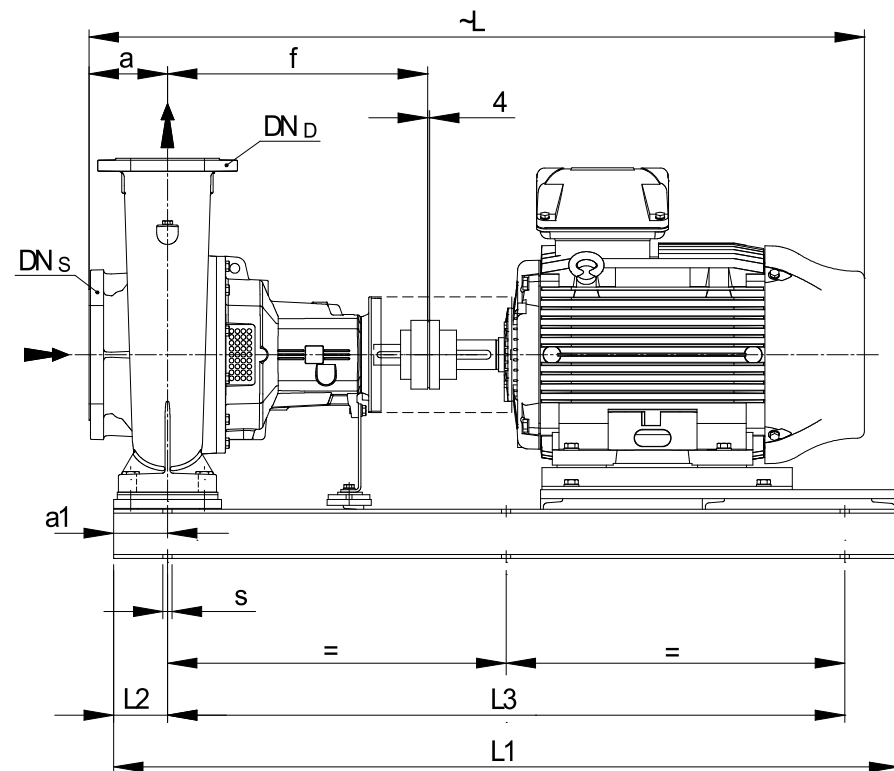
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Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
3MGS 315 S B3 110 kW E4

Electrical and dimensional data refer to IE4 motor



Value C, D may vary from Standard

Dimensions [inch]

a	6 ⁵ / ₁₆
a1	4 ⁵ / ₁₆
b2	33 ⁷ / ₈
b3	31 ⁷ / ₈
CTO	
DNd	5 ⁷ / ₈
DNs	7 ⁷ / ₈
E	3/8"
F	3/8"
f	20 ⁷ / ₈
Guard	11 ³ / ₁₆
h	19 ⁷ / ₈
h2	17 ¹¹ / ₁₆
Hmax	41 ¹³ / ₁₆
L1	72 ¹³ / ₁₆
L2	4 ⁵ / ₁₆
L3	64 ³ / ₁₆
PM1	1/4"
s	6xØ26
Trim	
Volumen	1 ¹ / ₁₆

Weight

Total weight	On demand 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

Dimensions and weight without obligation

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF150-400/1100/L46UCC4 E4	Created on	1/11/2025		