

NSCF150-400/900/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 12 3/4
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	74.4			Max- US g.p.m. 2896.8
17	Impeller type	Radial impeller				Min- US g.p.m. 300.7
18	Head H(Q=0)	ft	170	Head	Nominal ft	
19	Max. shaft power	hp	101.3		at Qmax ft	90.1
20	Pump weight	kg	502.6		at Qmin ft	172.7
21	Total weight	lb	On demand	Shaft power	hp	
				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)	
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						

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 280 M B3 90 kW E4		Shaft diameter	Pump 1 5/8 inch	Moto 2 15/16 inch
45	Rated power	120.69 hp	Rated current	165 A	Frame size	180
46	Nominal speed	1788 rpm	Rated voltage	380 V	Spacer length	inch 3/16
47	Frame size	280 M	Service factor	1	Weight	lb 25.4
48	Weight	lb 1,749.3	Degree of protection	IP55	Coupling protection	GR.COUPLGUARD ES42-230-23 A4 7.4956 lb

Base plate

49	Name	BASEFRAME_NSC80-7_C00				
50	Weight	lb	285.5	Remarks		

NSCF150-400/900/L46UCC4 E4

Performance curve

Company name
Contact
Phone number
e-mail address

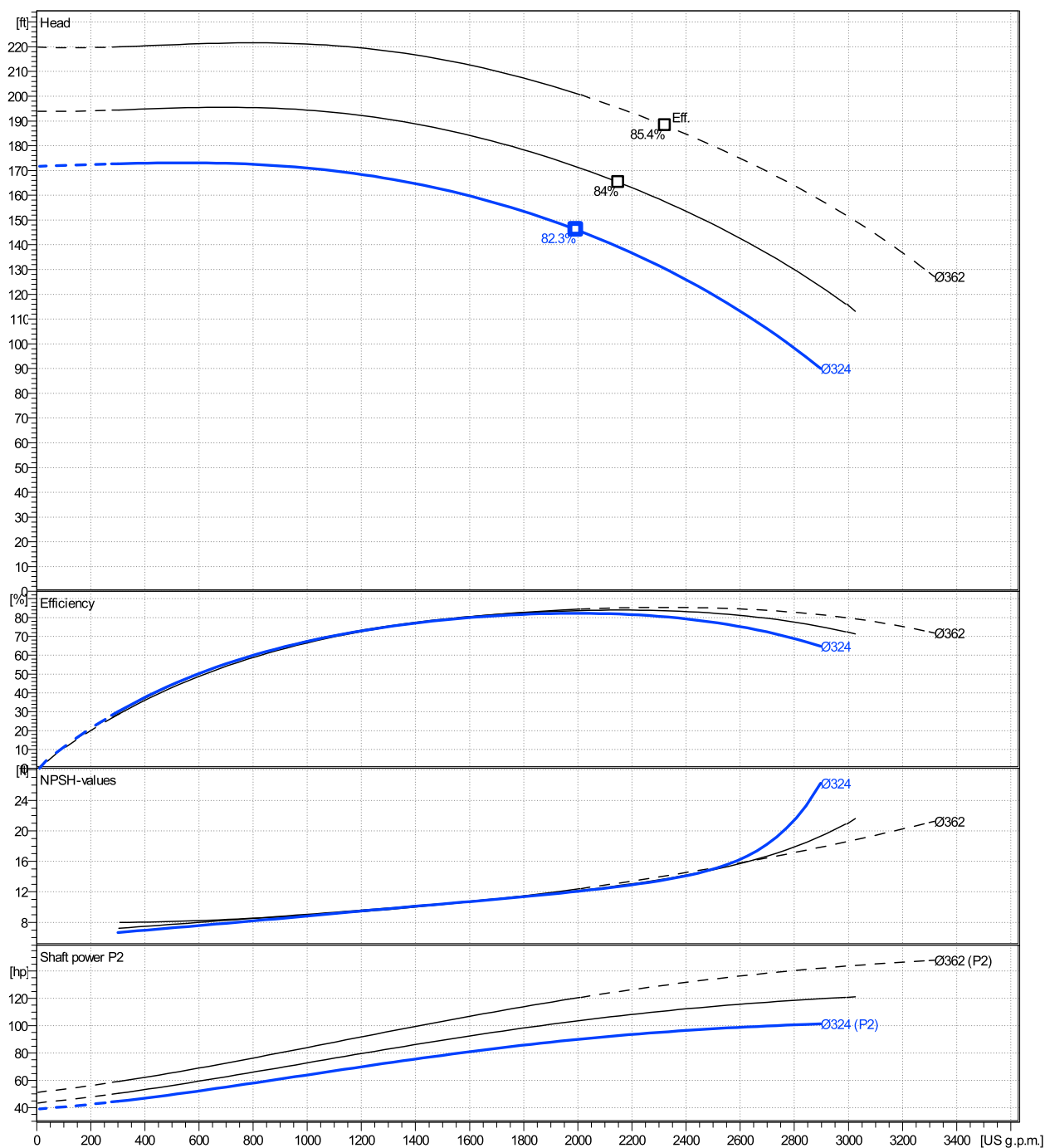
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	1788
actual	12 3/4	301	2900	1990	172	146		101	89.8	Nominal flow	US g.p.m.	0
Min.	0	/	/	1990	172	146	/	/	89.8	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



Project Block Xylect-20182283
NSCF150-400/1100/L46UCC4 E4

Created by
Created on 1/11/2025

Last update 1/11/2025

Program version
75.0 - 06/1/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

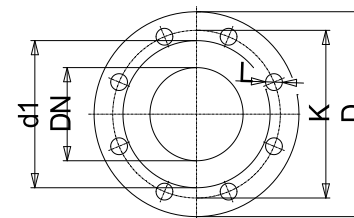
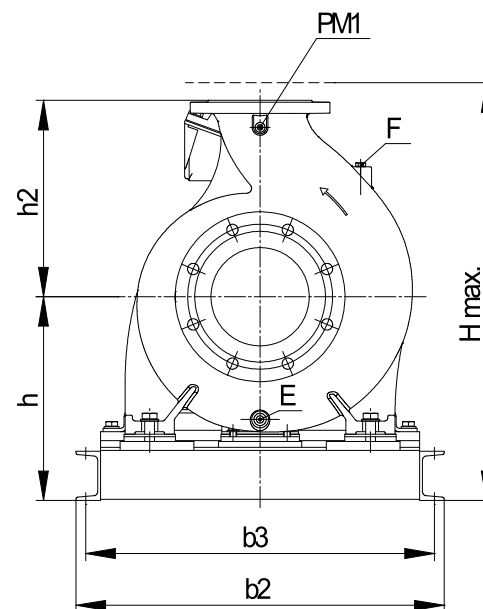
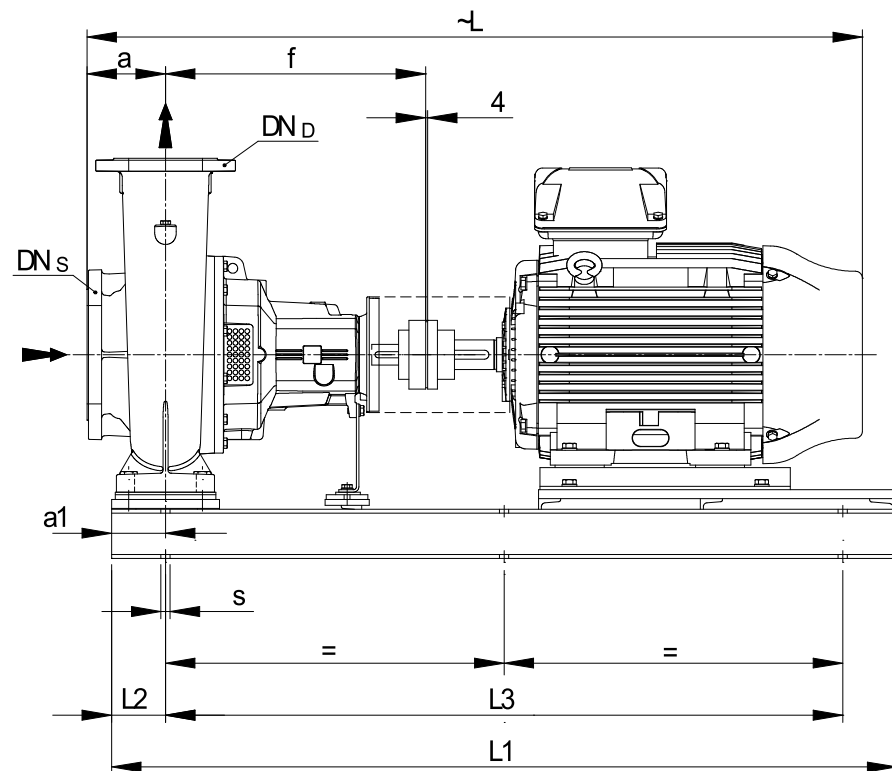
NSCF150-400/900/L46UCC4 E4

Dimensions

Company name
Contact
Phone number
e-mail address

Frame mounted
Standard coupling
3MGS 280 M B3 90 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	29 ¹ / ₂		
b3	27 ¹⁵ / ₁₆		
CTO			
DNd	5 ⁷ / ₈		
DNs	7 ⁷ / ₈		
E	3/8"		
F	3/8"		
f	20 ⁷ / ₈		
Guard	10		
h	17 ⁵ / ₁₆		
h2	17 ¹¹ / ₁₆		
Hmax	35 ¹ / 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	
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		