

NSCS65-315/185/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 32										
10	Execution	Standard Design (Type B)				Impeller Ø	Max.	inch	13 1/8		
11	Design	Horizontal					designed	inch	12 3/8		
12	Operating speed		1770 rpm	Stages 1			Min.	inch	10 1/2		
13	Suction nozzle		DN80	/	PN10/16	/	EN1092-2	Nominal US g.p.m.			
14	Discharge nozzle		DN65	/	PN10/16	/	EN1092-2	Flow	Max-	US g.p.m.	601
15	Max. casing pressure		psi						Min-	US g.p.m.	71.3
16	Max. working pressure		psi	71.7				Head	Nominal		ft
17	Impeller type		Radial impeller				at Qmax		ft	93.8	
18	Head H(Q=0)		ft	170					at Qmin		ft
19	Max. shaft power		hp	24.2				Shaft power		hp	
20	Pump weight		kg					Efficiency		%	
21	Total weight		lb	515.4				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)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency		
44	Type	3MAS 180 M B35 18,5 kW		
45	Rated power	24.809 hp	Rated current	37.3 A
46	Nominal speed	1764 rpm	Rated voltage	380 V
47	Frame size	180 M	Service factor	1
48	Weight	lb 312.6	Degree of protection	IP55

Remarks

49	
50	
50	
52	

Project	Xylect-20178266	Created by		Last update	1/10/2025
Block	NSCS65-315/220/L46UCC4	Created on	1/10/2025		
Program version		Data version		User group(s)	
75.0 - 06/1/2024 (Build 274)		15/12/2024 18:59		Xylem: United Kingdom - EXT	

NSCS65-315/185/L46UCC4

Performance curve

Company name
Contact
Phone number
e-mail address

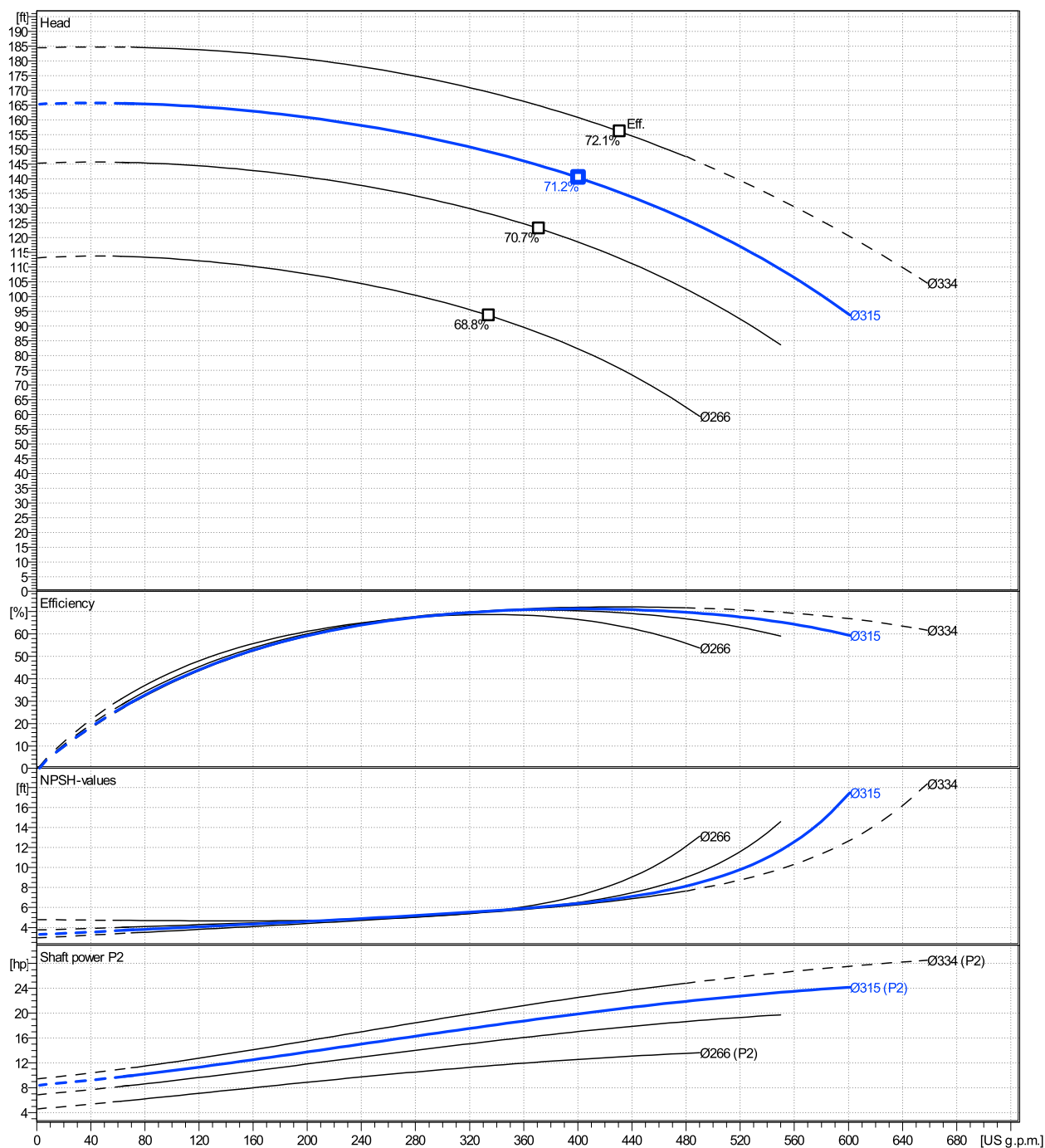
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz
		Operating range Min. US g.p.m.	Max. US g.p.m.	η Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed rpm		
actual	12 3/8	71.3	601	401	165	140		24.2	19.9		Nominal flow	US g.p.m.
Min.	0	/	/	334	113	93.6	/	/	11.5		Nominal head	ft
Max.	13 1/8	/	/	431	184	156	/	/	23.5		Inlet pressure	psi
											Static head	ft

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-20178266
NSCS65-315/220/L46UCC4

Created by
Created on 1/10/2025

Last update 1/10/2025

Program version
75.0 - 06/12/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

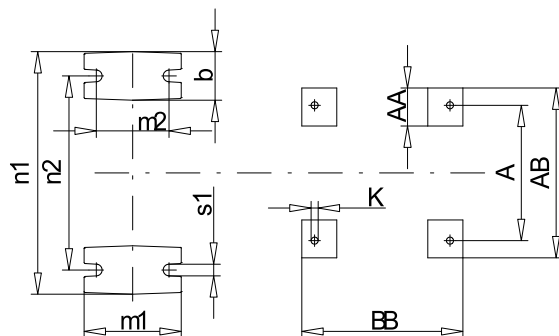
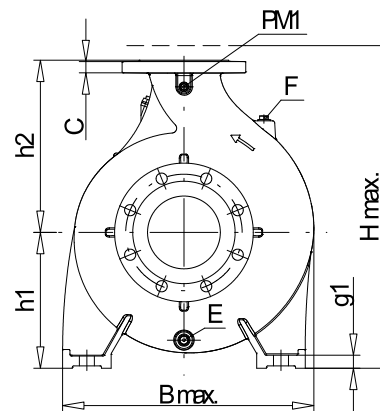
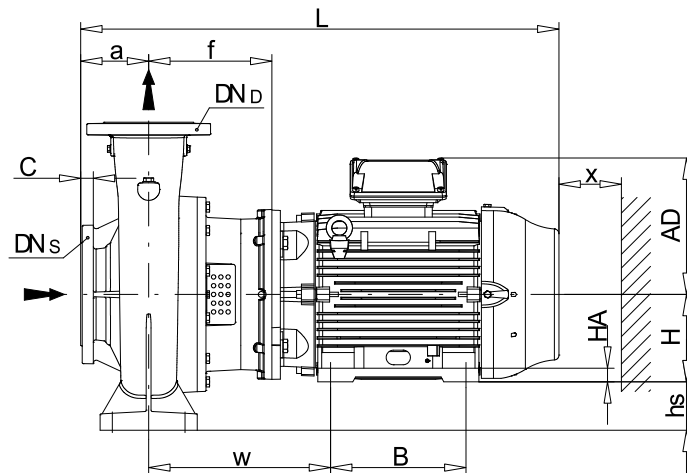
NSCS65-315/185/L46UCC4

Dimensions

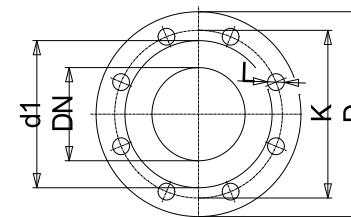
Company name
Contact
Phone number
e-mail address

Blockpump
Standard Design (Type B)
3MAS 180 M B35 18,5 kW

Electrical and dimensional data refer to IE3 motor



PM1...Pressure gauge connector
E....Drain
F....Filling



Value C, D may vary from Standard

Dimensions [inch]			
a	4 ¹⁵ / ₁₆	L	37 ⁵ / ₈
A	11	m1	6 ⁵ / ₁₆
AA	2 ¹ / ₂	m2	4 ³ / ₄
AB	14 ⁵ / ₁₆	n1	15 ³ / ₄
AD	10 ³ / ₈	n2	12 ³ / ₈
B	9 ¹ / ₂	P	13 ³ / ₄
b	3 ¹ / ₈	PM1	1 ¹ / ₄ "
BB	11 ¹ / ₄	s1	3 ³ / ₄
Bmax	17 ³ / ₁₆	Trim	
CTO		Type	B
DNd	2 ⁹ / ₁₆	Volumen	1 ¹ / ₆₄
DNs	3 ¹ / ₈	w	14 ³ / ₁₆
E	3 ³ / ₈ "	x	5 ¹ / ₂
f	9 ⁷ / ₁₆		
F	3 ³ / ₈ "		
g1	13 ¹ / ₁₆		
H	7 ¹ / ₁₆		
h1	8 ⁷ / ₈		
h2	11 ¹ / ₃₂		
h3			
HA	7 ⁷ / ₈		
Hmax	19 ⁷ / ₈		
hs	1 ³ / ₄		
K	9 ⁹ / ₁₆		

Weight

Total weight 233.8 kg

Connections

Suction nozzle		Discharge nozzle	
DN80		DN65	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	7 ⁷ / ₈	C	13 ¹ / ₁₆
D	7 ⁷ / ₈	D	7 ⁵ / ₁₆
d1	5 ³ / ₁₆	d1	4 ⁵ / ₈
K	6 ⁹ / ₁₆	K	5 ¹ / ₁₆
L	3 ³ / ₄	L	3 ³ / ₄
Z	5 ¹ / ₁₆	Z	3 ¹ / ₁₆

Dimensions and weight without obligation

Project	Xylect-20178266	Created by		Last update	1/10/2025
Block	NSCS65-315/220/L46UCC4	Created on	1/10/2025		