LOWARA
a xylem brand

NSCS250-315/300/L66UDC4

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	42					
10	Execution	Standard Design (Type B)		Impeller Ø	Max.	inch	12 5/8
11	Design	Horizontal			designed	inch	11 5/8
12	Operating speed	1180 rpm	Stages 1		Min.	inch	10 1/2
13	Suction nozzle	DN300 / PN16 / EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN250 / PN16 / EN1092-2			Max-	US g.p.m.	4138.7
15	Max. casing pressure	psi			Min-	US g.p.m.	937.8
16	Max. working pressure	psi	24.6	Head	Nominal	ft	
17	Impeller type		Radial impeller		at Qmax	ft	24.6
18	Head H(Q=0)	ft	57		at Qmin	ft	54.9
19	Max. shaft power	hp	39.5	Shaft power		hp	
20	Pump weight	kg		Efficiency		%	
21	Total weight	lb	On demand	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18	Single mechanical seal, without shaft sleeve	
24	Impeller	Cast Iron, EN 1561 - GJL-200, ASTM Class 30	eMG12 - Ø48mm	BQ7EGG-WA
25	Casing Cover	Ductile Iron, EN-GJS-400-15, ASTM A536 40-60-18	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				
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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 225 M B35 30 kW		
45	Rated power	40.231 hp	Rated current	61 A
46	Nominal speed	1182 rpm	Rated voltage	380 V
47	Frame size	225 M	Service factor	1
48	Weight lb	573.2	Degree of protection	IP55

Remarks

49	
50	
50	
52	

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Performance curve

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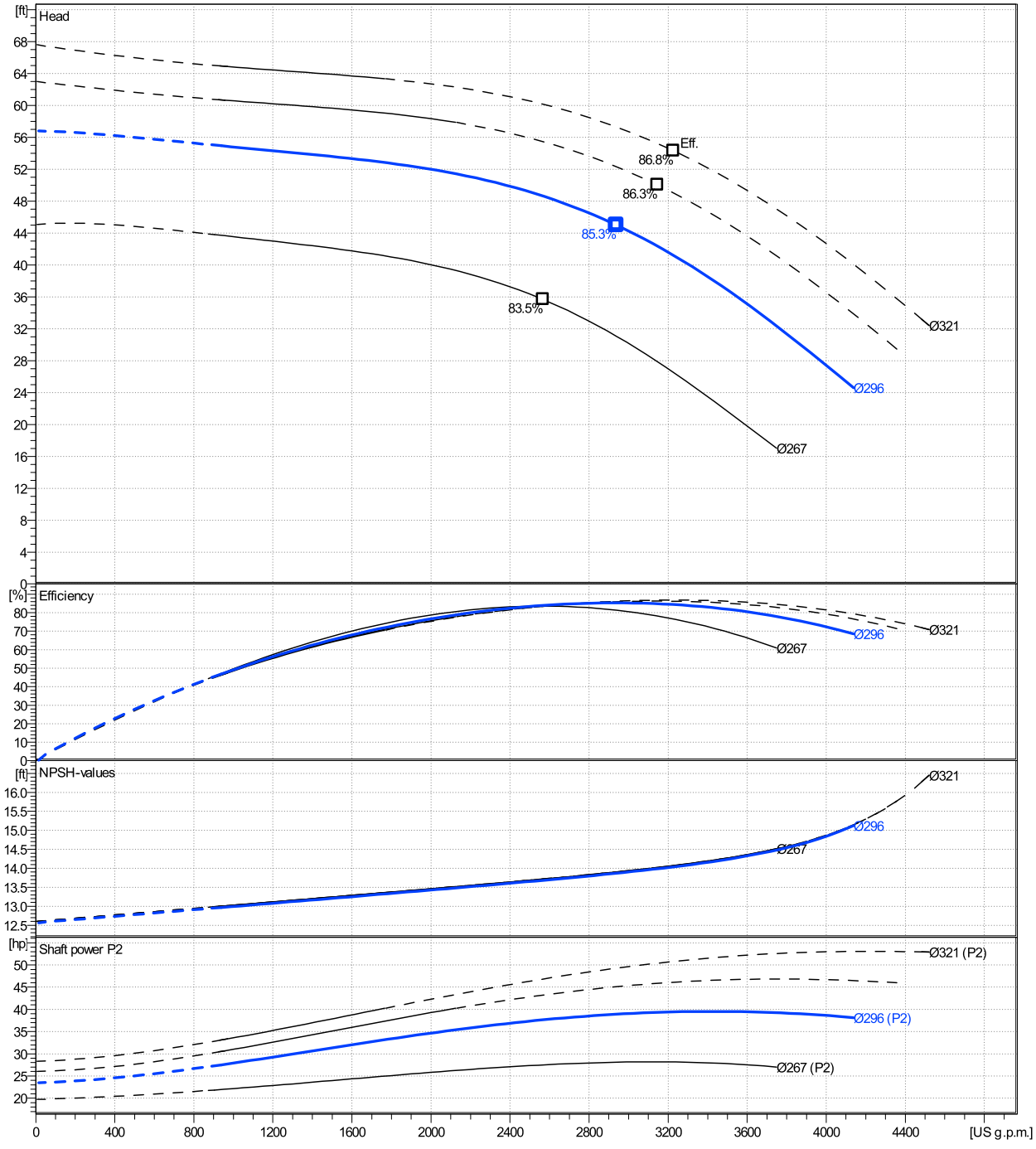
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp			
actual	11 5/8	938	4140	2940	56.8	45		39.5	38.9	Frequency	Hz	60
Min.	0	/	/	2570	45.1	35.7		/	27.5	Operating speed	rpm	1180
Max.	12 5/8	/	/	3230	67.6	54.3		/	50.8	Nominal flow	US g.p.m.	0
										Nominal head	ft	0
										Inlet pressure	psi	0
										Static head	ft	0

Power datas refered to:

hydr. Performance acceptance acc. To EN ISO 9906 Class **Grade 2B**

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



Project	Xylect-20178897		**Created by**		**Last update** 1/10/2025
Block	NSCS250-315/300/L66UDC4		**Created on**	1/10/2025	

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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NSCS250-315/300/L66UDC4

Dimensions

Company name
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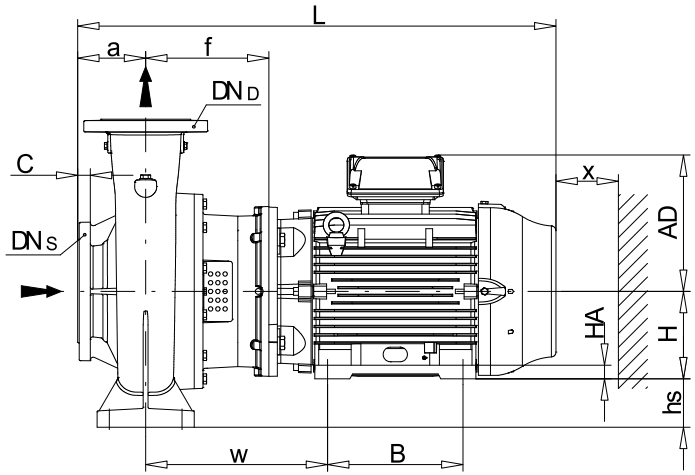
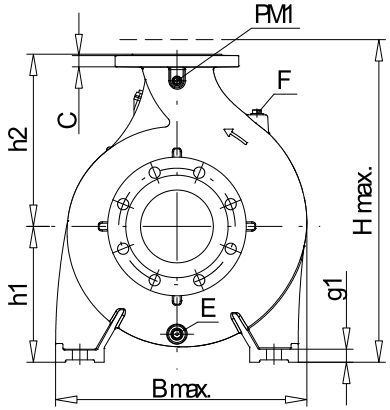
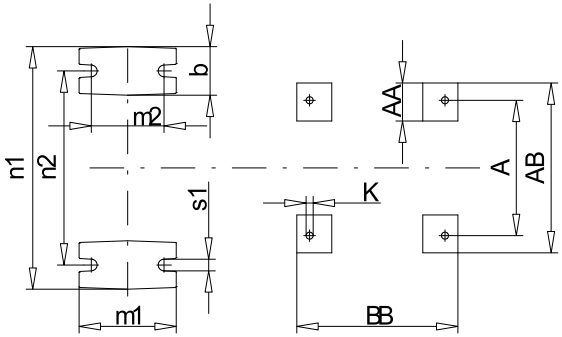
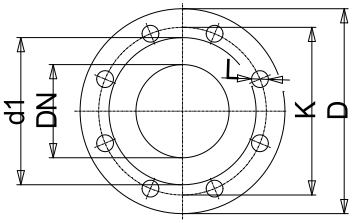
Blockpump
Standard Design (Type B)
3MAS 225 M B35 30 kW







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



Value C, D may vary from Standard

Electrical and dimensional data refer to IE3 motor

Dimensions [inch]			
a	$9^{13}/_{16}$	m1	$11^{13}/_{16}$
A	$14^{1}/_{32}$	m2	$9^{13}/_{16}$
AA	$3^{5}/_{16}$	n1	$27^{15}/_{16}$
AB	$18^{1}/_{2}$	n2	$23^{5}/_{8}$
AD	$12^{11}/_{16}$	P	$17^{11}/_{16}$
b	$4^{5}/_{16}$	PM1	1/2"
B	$12^{1}/_{4}$	s1	$1^{1}/_{8}$
BB	$14^{3}/_{16}$	Trim	
Bmax	$30^{3}/_{16}$	Type	B
CTO		w	$17^{1}/_{16}$
DNd	$9^{13}/_{16}$	x	$7^{7}/_{8}$
DNs	$11^{13}/_{16}$		
E	1/2"		
F	-		
f	$11^{3}/_{16}$		
g1	$1^{3}/_{8}$		
H	$8^{7}/_{8}$		
h1	$15^{3}/_{4}$		
h2	$19^{11}/_{16}$		
h3			
HA	$1^{3}/_{16}$		
Hmax	$35^{7}/_{16}$		
hs	$6^{7}/_{8}$		
K	$^{3}/_{4}$		

Weight	
Total weight	**On demand kg**

Connections			
Suction nozzle		**Discharge nozzle**	
DN300		**DN250**	
PN16		**PN16**	
EN1092-2		**EN1092-2**	
C	$1^{1}/_{4}$	C	$1^{1}/_{4}$
D	$19^{1}/_{8}$	D	$15^{15}/_{16}$
d1	$14^{9}/_{16}$	d1	$12^{9}/_{16}$
K	$16^{1}/_{8}$	K	14
L	$1^{1}/_{8}$	L	$1^{1}/_{8}$
z	$^{1}/_{2}$	z	$^{1}/_{2}$

Dimensions and weight without obligation

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