

NSCS100-315/300/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	11 7/16		
11	Design	Horizontal					designed	inch	11 7/16		
12	Operating speed		1775 rpm	Stages 1			Min.	inch	10 9/16		
13	Suction nozzle		DN125	/	PN10/16	/	EN1092-2	Nominal US g.p.m.			
14	Discharge nozzle		DN100	/	PN10/16	/	EN1092-2	Flow	Max-	US g.p.m.	1224
15	Max. casing pressure		psi						Min-	US g.p.m.	146.2
16	Max. working pressure		psi	61.2					Nominal		ft
17	Impeller type		Radial impeller				Head	at Qmax		ft	78
18	Head H(Q=0)		ft	140				at Qmin		ft	140.2
19	Max. shaft power		hp	38.4				Shaft power		hp	
20	Pump weight		kg					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 - Ø38mm	BQ7EGG-WA
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35	Mechanical seal diameter	
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	
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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 200 L B35 30 kW		
45	Rated power	40.231 hp	Rated current	55.7 A
46	Nominal speed	1764 rpm	Rated voltage	380 V
47	Frame size	200 L	Service factor	1
48	Weight	lb 461.9	Degree of protection	IP55

Remarks

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Project	Xylect-20178897	Created by		Last update	1/10/2025
Block	NSCS100-315/300/L46UCC4	Created on	1/10/2025		

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Performance curve

Company name
Contact
Phone number
e-mail address

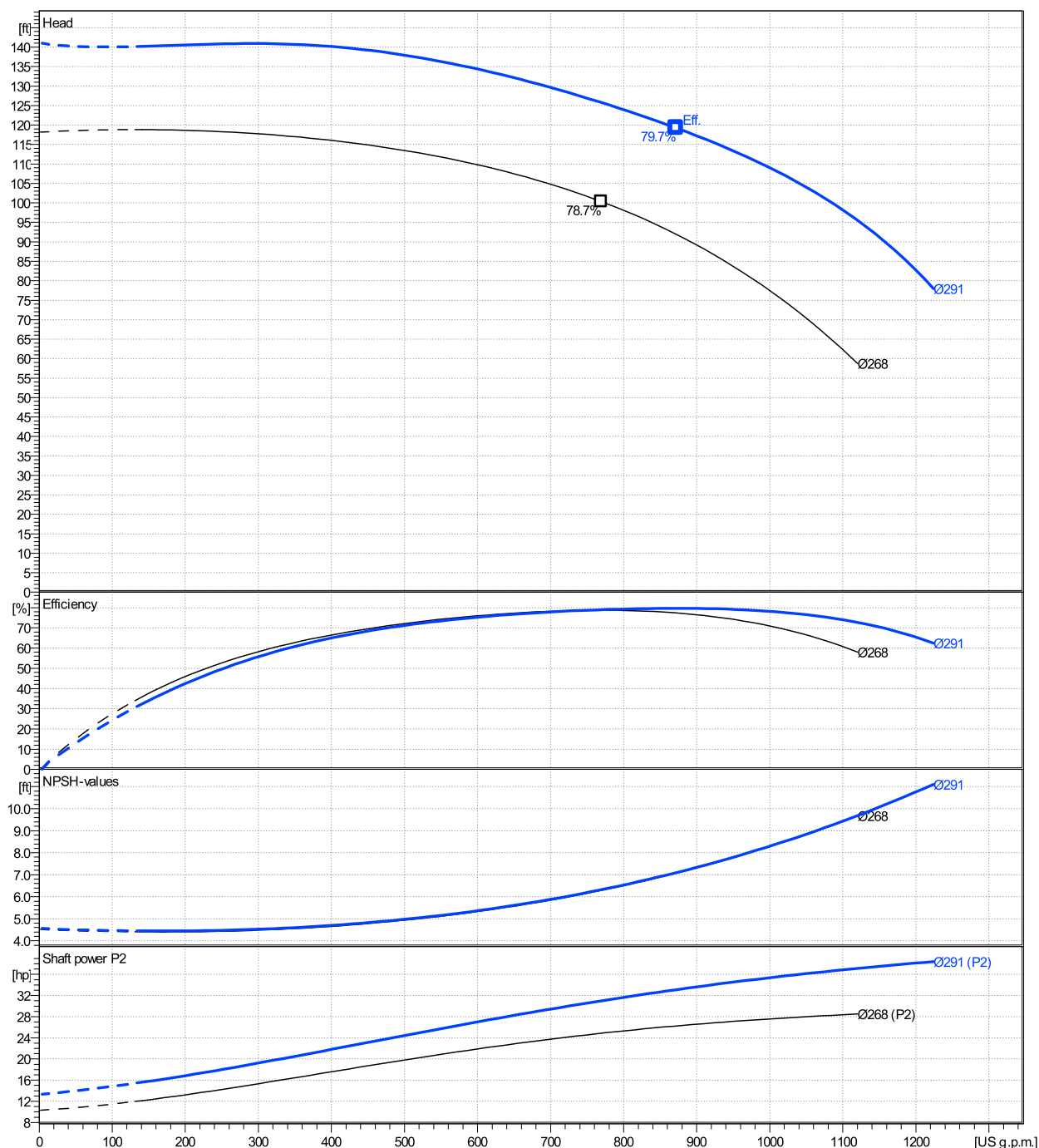
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed rpm	Nominal flow US g.p.m.		
actual	11 7/16	146	1220	871	141	119		38.4	33.1				1775
Min.	0	/	/	769	118	100		/	24.9				0
Max.	11 7/16	/	/	871	141	119		/	33.1				0

Power datas referred to:

Water, pure [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

MEI: 0,69 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



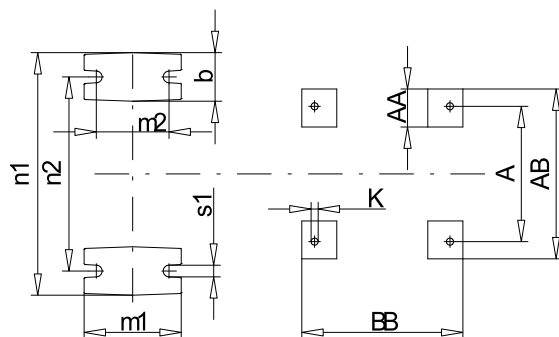
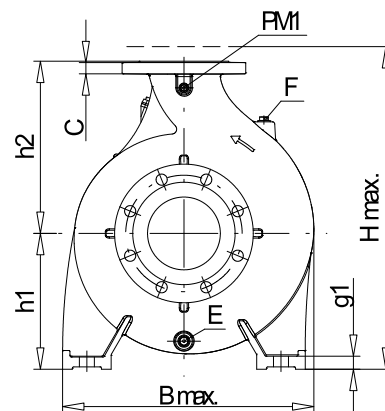
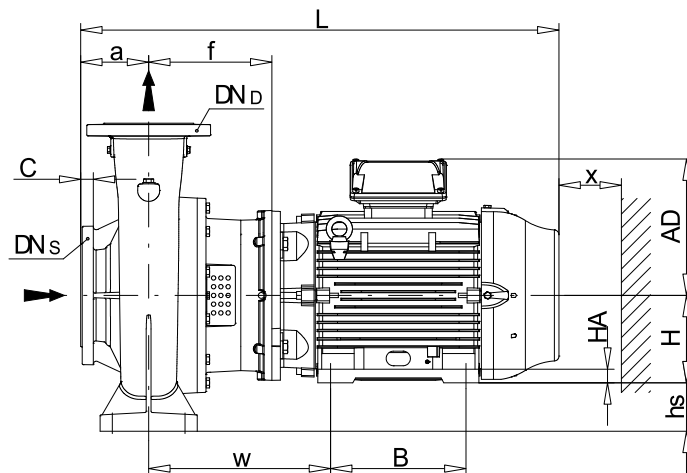
NSCS100-315/300/L46UCC4

Dimensions

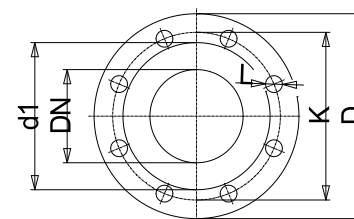
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Blockpump
Standard Design (Type B)
3MAS 200 L B35 30 kW

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	5 ¹ / ₂	m1	6 ⁵ / ₁₆
A	12 ¹ / ₂	m2	4 ³ / ₄
AA	2 ¹¹ / ₁₆	n1	15 ³ / ₄
AB	16 ¹ / ₁₆	n2	12 ³ / ₈
AD	11 ¹³ / ₁₆	P	15 ³ / ₄
B	12 ¹ / ₆₄	PM1	1/4"
b	3 ¹ / ₈	s1	3/4
BB	14	Trim	
Bmax	18 ¹⁵ / ₁₆	Type	B
CTO		w	14 ¹⁵ / ₁₆
DNd	3 ¹⁵ / ₁₆	x	5 ¹ / ₂
DNs	4 ¹⁵ / ₁₆		
E	3/8"		
f	9 ¹¹ / ₁₆		
F	3/8"		
g1	1 ¹ / ₃₂		
H	7 ⁷ / ₈		
h1	9 ¹³ / ₁₆		
h2	12 ³ / ₈		
h3			
HA	1 ¹ / ₁₆		
Hmax	22 ¹ / ₄		
hs	1 ¹⁵ / ₁₆		
K	3/4		

Weight

Total weight	On demand kg
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Connections

Suction nozzle		Discharge nozzle	
DN125		DN100	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	1 ¹ / ₃₂	C	15/16
D	10 ¹ / ₁₆	D	9 ¹ / ₁₆
d1	7 ¹ / ₄	d1	6 ³ / ₁₆
K	8 ¹ / ₄	K	7 ¹ / ₁₆
L	3/4	L	3/4
Z	5/16	Z	5/16

Dimensions and weight without obligation

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