

NSCS80-400/550/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	42								
10	Execution	Standard Design (Type B)				Impeller Ø	Max.	inch	16 7/16	
11	Design	Horizontal					designed	inch	15 9/16	
12	Operating speed	1775 rpm		Stages 1			Min.	inch	13 11/16	
13	Suction nozzle	DN100	/	PN10/16	/	EN1092-2	Flow	Nominal US g.p.m.		
14	Discharge nozzle	DN80	/	PN10/16	/	EN1092-2		Max-	US g.p.m.	1024.5
15	Max. casing pressure	psi						Min-	US g.p.m.	107.9
16	Max. working pressure	psi		113.6			Head	Nominal ft		
17	Impeller type	Radial impeller				at Qmax		ft	174.6	
18	Head H(Q=0)	ft		260		at Qmin		ft	261.9	
19	Max. shaft power	hp		70.9			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 - 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 IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency		
44	Type	3MGS 250 M B35 55 kW		
45	Rated power	73.756 hp	Rated current	101 A
46	Nominal speed	1782 rpm	Rated voltage	380 V
47	Frame size	250 M	Service factor	1
48	Weight	lb 1,020.7	Degree of protection	IP55

Remarks

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Project	Xylect-20178897	Created by		Last update	1/10/2025
Block	NSCS80-400/750/L46UCC4 E4	Created on	1/10/2025		

NSCS80-400/550/L46UCC4

Performance curve

Company name
Contact
Phone number
e-mail address

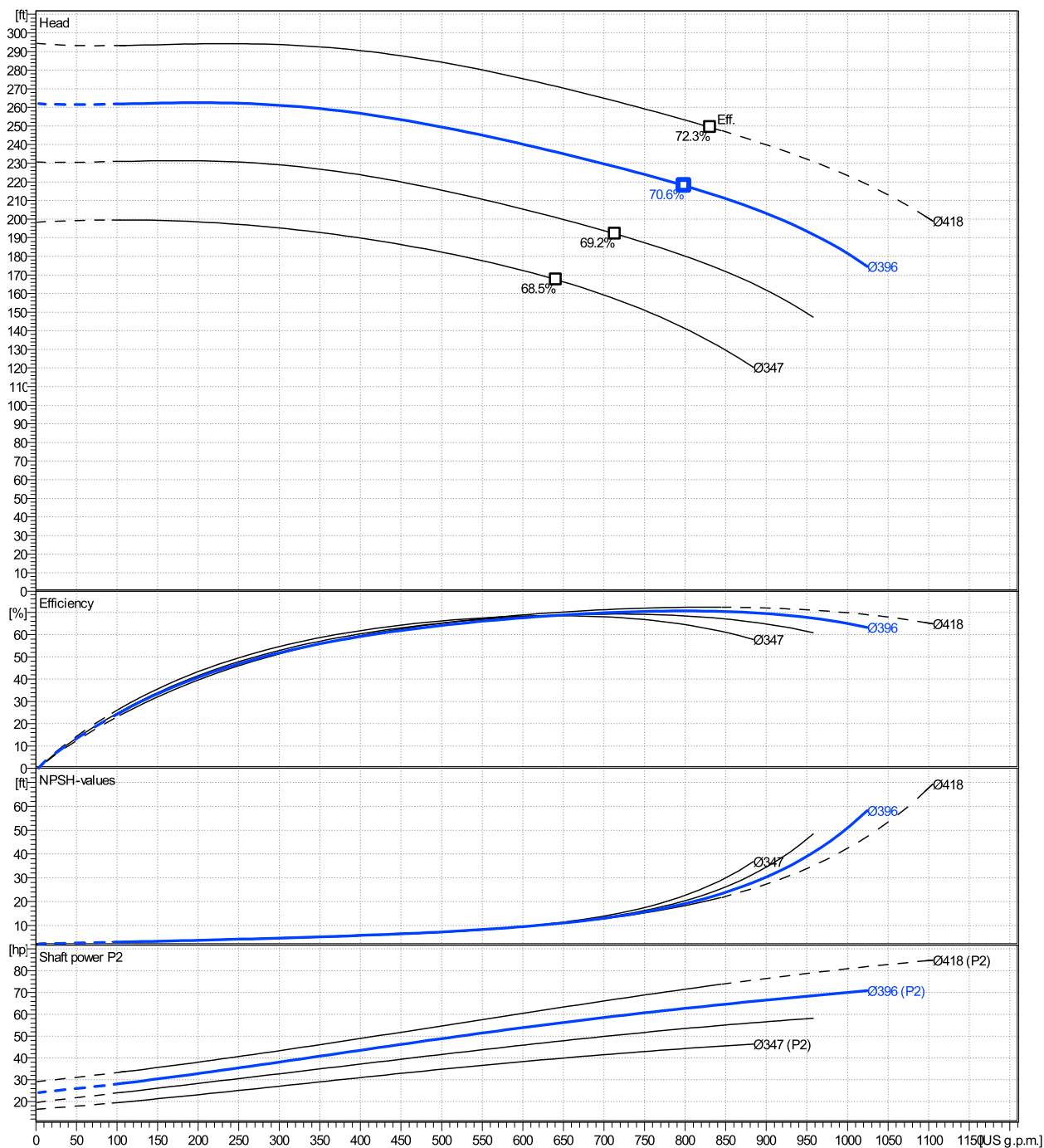
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	1775
actual	15 9/16	108	1020	799	262	218		70.9	62.7	Nominal flow	US g.p.m.	0
Min.	0	/	/	641	198	167	/	/	39.7	Nominal head	ft	0
Max.	16 7/16	/	/	831	294	249	/	/	73.1	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



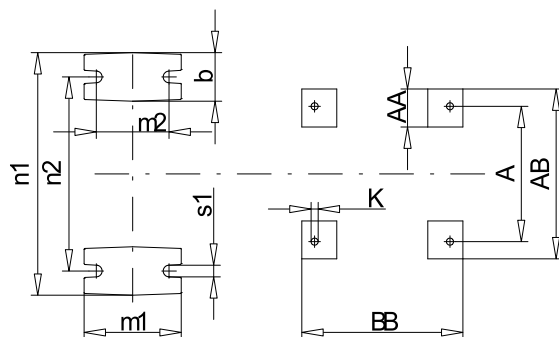
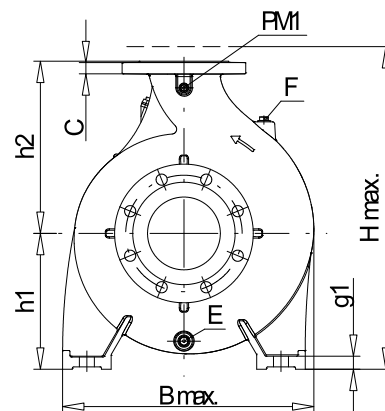
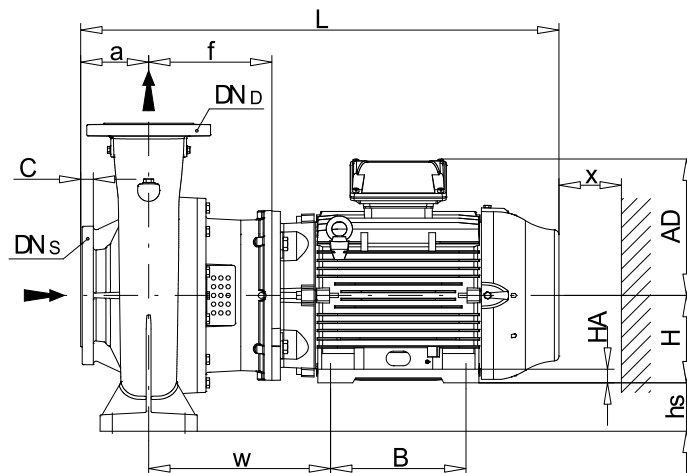
NSCS80-400/550/L46UCC4

Dimensions

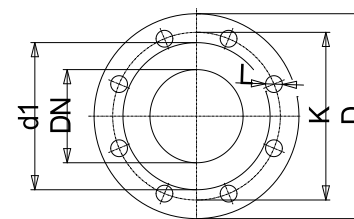
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Blockpump
Standard Design (Type B)
3MGS 250 M B35 55 kW

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	m1	6 ⁵ / ₁₆
A	16	m2	4 ³ / ₄
AA	3 ¹⁵ / ₁₆	n1	17 ¹ / ₈
AB	20 ⁵ / ₁₆	n2	14
AD	14 ¹³ / ₁₆	P	21 ⁵ / ₈
B	13 ³ / ₄	PM1	1/4"
b	3 ¹ / ₈	s1	3/4
BB	16 ⁹ / ₁₆	Trim	
Bmax	21 ⁵ / ₈	Type	B
CTO		w	17 ¹³ / ₁₆
DNd	3 ¹ / ₈	x	5 ¹ / ₂
DNs	3 ¹⁵ / ₁₆		
E	3/8"		
f	11 ³ / ₁₆		
F	3/8"		
g1	1 ¹ / ₃₂		
H	9 ¹³ / ₁₆		
h1	11 ¹ / ₃₂		
h2	14		
h3			
HA	1 ⁷ / ₁₆		
Hmax	25 ⁷ / ₈		
hs	1 ³ / ₁₆		
K	1 ¹⁵ / ₁₆		

Weight

Total weight	On demand kg
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Connections

Suction nozzle		Discharge nozzle	
DN100		DN80	
PN10/16		PN10/16	
EN1092-2		EN1092-2	
C	1 ¹⁵ / ₁₆	C	7/8
D	9 ¹ / ₁₆	D	7 ⁷ / ₈
d1	6 ³ / ₁₆	d1	5 ³ / ₁₆
K	7 ¹ / ₁₆	K	6 ⁵ / ₁₆
L	3/4	L	3/4
Z	5/16	Z	5/16

Dimensions and weight without obligation

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