

NSCS100-160/450/L26UCC4

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 C)			
11	Design	Horizontal	Impeller Ø	Max.	inch 7 1/2
12	Operating speed	3555 rpm		designed	inch 6 15/16
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Min.	inch 5 13/16
14	Discharge nozzle	DN100 / PN10/16 / EN1092-2	Flow	Nominal	US g.p.m. 1772.2
15	Max. casing pressure	psi		Max-	US g.p.m. 340.8
16	Max. working pressure	psi 78.3		Min-	US g.p.m. 340.8
17	Impeller type	Radial impeller	Head	Nominal	ft
18	Head H(Q=0)	ft 180		at Qmax	ft 90.6
19	Max. shaft power	hp 57.2		at Qmin	ft 177.1
20	Pump weight	kg	Shaft power	hp	
21	Total weight	lb On demand	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 - 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)	
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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 225 M B35 45 kW		
45	Rated power	60.346 hp	Rated current	79.7 A
46	Nominal speed	3558 rpm	Rated voltage	380 V
47	Frame size	225 M	Service factor	1
48	Weight	lb 605.2	Degree of protection	IP55

Remarks

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Project	Xylect-20178897	Created by		Last update	1/10/2025
Block	NSCS100-160/550/L26UCC4	Created on	1/10/2025		

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Performance curve

Company name
Contact
Phone number
e-mail address

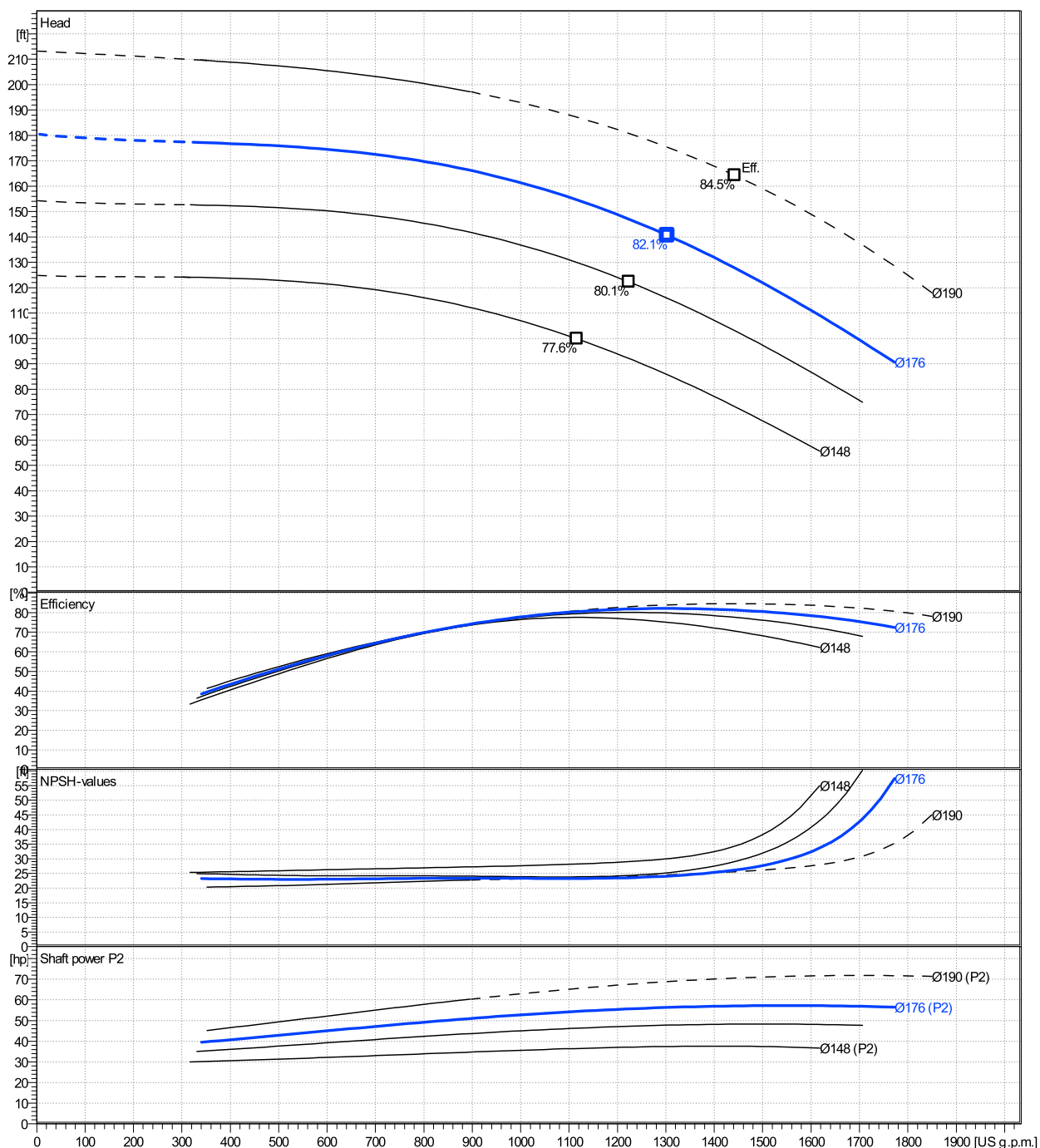
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed	rpm	3555
actual	6 15/16	341	1770	1300	180	141		57.2	56.3	Nominal flow	US g.p.m.	0
Min.	0	/	/	1120	125	99.8	/	/	36.5	Nominal head	ft	0
Max.	7 1/2	/	/	1440	213	164	/	/	70.5	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



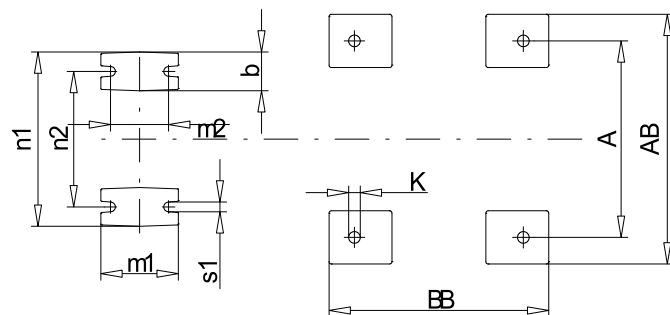
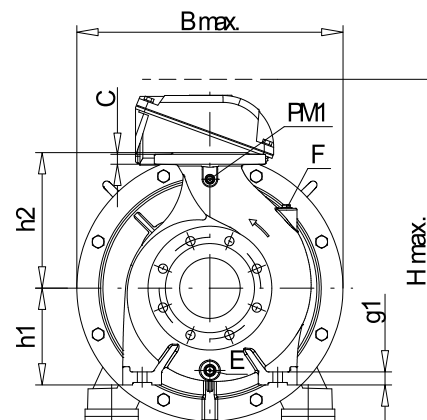
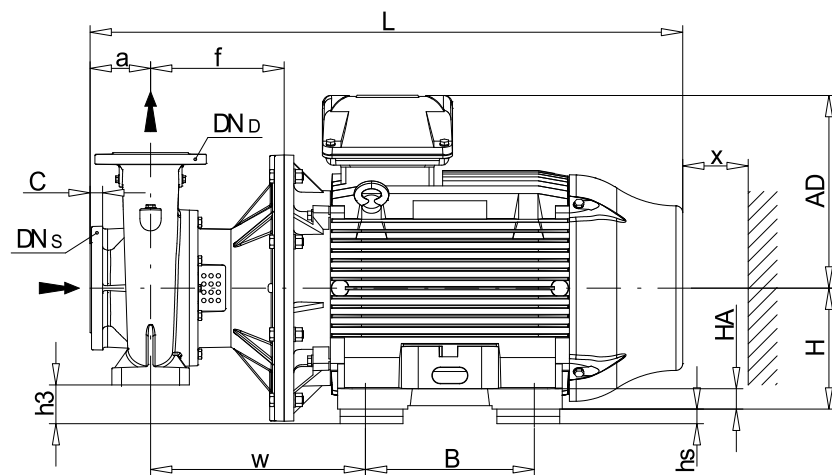
NSCS100-160/450/L26UCC4

Dimensions

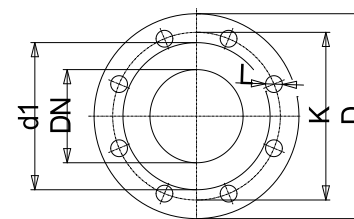
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Blockpump
Standard Design (Type C)
3MAS 225 M B35 45 kW

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	14 ¹ / ₃₂	m2	4 ³ / ₄
AA	3 ⁹ / ₁₆	n1	14 ³ / ₁₆
AB	18 ¹ / ₂	n2	11 ¹ / ₃₂
AD	12 ¹¹ / ₁₆	P	17 ¹¹ / ₁₆
B	12 ¹ / ₄	PM1	1/4"
b	3 ¹ / ₈	s1	3/4
BB	14 ³ / ₁₆	Trim	
Bmax	17 ¹¹ / ₁₆	Type	C
CTO		w	15 ⁹ / ₁₆
DND	3 ¹⁵ / ₁₆	x	3 ¹ / ₈
DNs	4 ¹⁵ / ₁₆		
E	3/8"		
f	9 ¹¹ / ₁₆		
F	3/8"		
g1	1 ¹ / ₃₂		
H	8 ⁷ / ₈		
h1	7 ⁷ / ₈		
h2	11 ¹ / ₃₂		
h3	1		
HA	1 ³ / ₁₆		
Hmax	20 ⁹ / ₁₆		
hs			
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 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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