

NSCS150-250/75/L66UCC4

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)			
11	Design	Horizontal	Impeller Ø	Max.	inch 11 1/8
12	Operating speed	1175 rpm		designed	inch 9 3/16
13	Suction nozzle	DN200 / PN16 / EN1092-2		Min.	inch 9 3/16
14	Discharge nozzle	DN150 / PN10/16 / EN1092-2	Flow	Nominal	US g.p.m.
15	Max. casing pressure	psi		Max-	US g.p.m. 1699.5
16	Max. working pressure	psi 15		Min-	US g.p.m. 224.5
17	Impeller type	Radial impeller	Head	Nominal	ft
18	Head H(Q=0)	ft 35		at Qmax	ft 12.1
19	Max. shaft power	hp 9.4	Shaft power		hp
20	Pump weight	kg	Efficiency		%
21	Total weight	lb 544.5	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
25	Casing Cover	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			BQ7EGG-WA
26	Shaft	Stainless steel, 1.4057, AISI 431			Mechanical seal diameter
27	Wear ring	Stainless steel, 1.4301, AISI 304			1 7/8 inch
28	Impeller lock nut and washer	A4 (1.4401)			1. Rotating ring
29	Impeller key	Stainless steel, 1.4571, AISI 316Ti			Carbon graphite resin impregnated
30	Fill and drain plugs	Galvanized carbon steel, EN 10277-3, AISI 1213 / 1215			2. Stationary ring
31	Bearing bracket	Cast Iron, EN 1561 - GJL-250, ASTM Class 35			SiC, silicon carbide, sintered press.less
32					3. Secondary seal
33					Ethylene propylene rubber (EPDM)
34					4. Springs
35					CrNiMo - Steel
36					5. Others
37					EPDM - WRAS
38					Gaskets of the pump
39					Ethylene propylene rubber (EPDM)
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 160 M B35 7,5 kW		
45	Rated power	10.058 hp	Rated current	16.9 A
46	Nominal speed	1158 rpm	Rated voltage	380 V
47	Frame size	160 M	Service factor	1
48	Weight	lb 183.0	Degree of protection	IP55

Remarks

49	
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50	
52	

Project	Xylect-20178266	Created by		Last update	1/10/2025
Block	NSCS150-250/450/L46UCC4	Created on	1/10/2025		

NSCS150-250/75/L66UCC4

Performance curve

Company name
Contact
Phone number
e-mail address

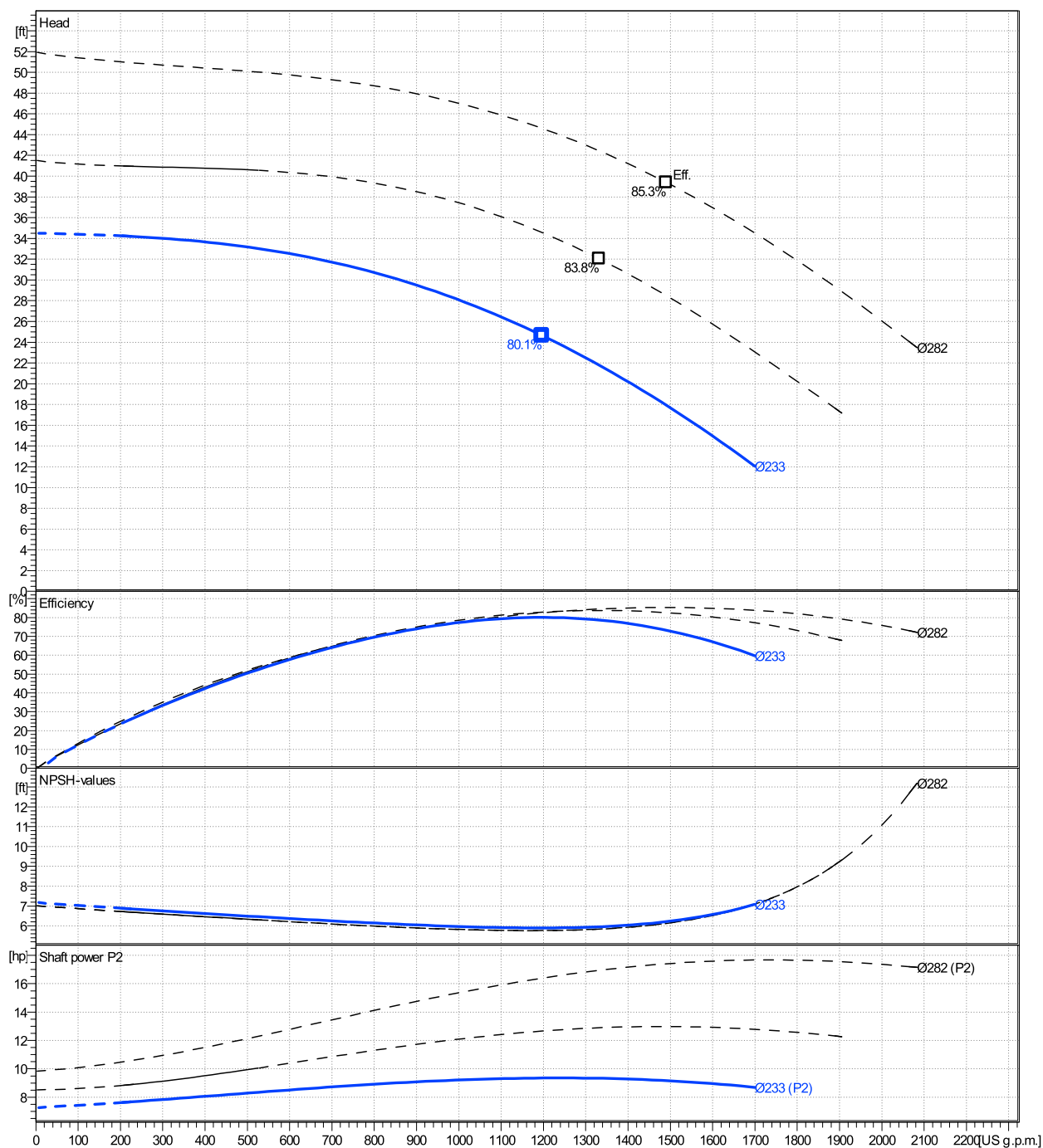
	Ø mm	Pump capacity Operating range Min. Max. Max. US g.p.m. US g.p.m. US g.p.m.			Pump head H(Q=0) η ft Max. ft		Shaft power P2 P2(Q=0) Max. η hp hp Max. hp			Frequency Hz 60	
		Min.	Max.	Max.	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed rpm	1175
actual	9 3/16	225	1700	1200	34.5	24.6		9.36	9.35	Nominal flow US g.p.m.	0
Min.	0	/	/	1200	34.5	24.6		/	9.35	Nominal head ft	0
Max.	11 1/8	/	/	1490	51.9	39.4		/	17.4	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: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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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

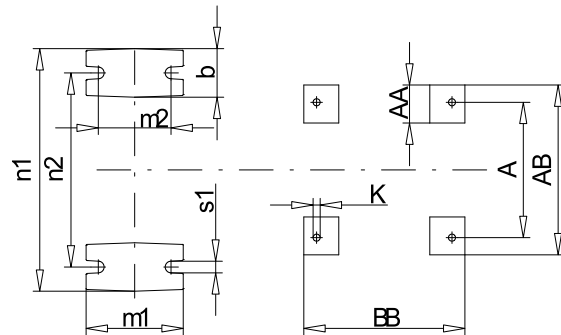
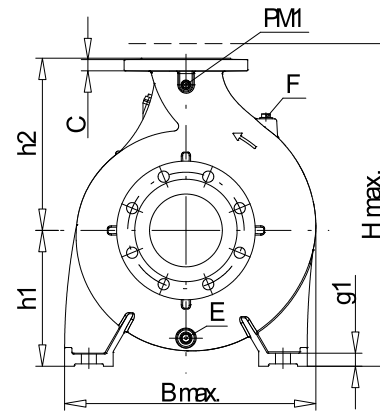
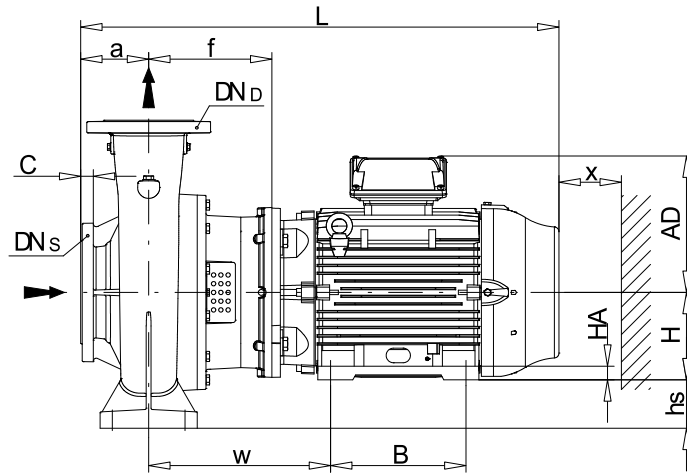
NSCS150-250/75/L66UCC4

Dimensions

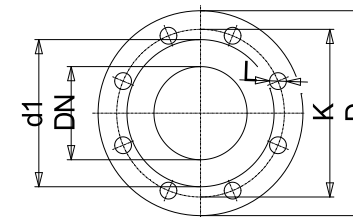
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Blockpump
Standard Design (Type B)
3MAS 160 M B35 7,5 kW

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	6 ⁵ / ₁₆	L	36
A	10	m1	7 ⁷ / ₈
AA	2 ⁷ / ₁₆	m2	5 ⁷ / ₈
AB	13 ¹ / ₁₆	n1	19 ¹¹ / ₁₆
AD	9 ¹⁵ / ₁₆	n2	15 ³ / ₄
b	3 ¹⁵ / ₁₆	P	13 ³ / ₄
B	8 ¹ / ₄	PM1	1 ¹ / ₄ "
BB	10 ¹ / ₁₆	s1	7 ⁷ / ₈
Bmax	22 ⁵ / ₁₆	Trim	B
CTO		Type	B
DNd	5 ⁷ / ₈	Volumen	1 ¹ / ₆₄
DNs	7 ⁷ / ₈	w	14 ¹ / ₄
E	3 ³ / ₈ "	x	5 ¹ / ₂
f	10		
F	3 ³ / ₈ "		
g1	1 ¹ / ₃₂		
H	6 ⁵ / ₁₆		
h1	11 ¹ / ₃₂		
h2	15 ³ / ₄		
h3			
HA	7 ⁷ / ₈		
Hmax	26 ³ / ₄		
hs	4 ³ / ₄		
K	9 ⁹ / ₁₆		

Weight

Total weight	247 kg
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Connections

Suction nozzle		Discharge nozzle	
DN200		DN150	
PN16		PN10/16	
EN1092-2		EN1092-2	
C	1 ³ / ₁₆	C	1 ¹ / ₃₂
D	13 ⁹ / ₁₆	D	11 ¹ / ₄
d1	10 ¹ / ₂	d1	8 ⁵ / ₁₆
K	11 ⁹ / ₈	K	9 ⁷ / ₁₆
L	7 ⁷ / ₈	L	7 ⁷ / ₈
Z	1 ¹ / ₂	Z	5 ⁵ / ₁₆

Dimensions and weight without obligation

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