

NSCF65-200/220/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	Standard, Grease lubrication [Std]										
10	Execution	[F] = 2 poles motor unit with standard cuopling					Impeller Ø	Max.	inch	7 13/16		
11	Design	Horizontal						designed	inch	6 13/16		
12	Operating speed	3500 rpm		Stages		1		Min.	inch	6 13/16		
13	Suction nozzle	DN 80		/	PN 16		/	EN1092-2		Nominal	US g.p.m.	
14	Discharge nozzle	DN 65		/	PN 16		/	EN1092-2		Max-	US g.p.m.	660.4
15	Max. casing pressure	psi							Min-	US g.p.m.	145.3	
16	Max. working pressure	psi		84.2					Nominal	ft		
17	Impeller type	Radial impeller					Head	at Qmax	ft	116.5		
18	Head H(Q=0)	ft		190		at Qmin		ft	193.8			
19	Max. shaft power	hp		28.9		Shaft power		hp				
20	Pump weight	kg		138.9		Efficiency		%				
21	Total weight	lb		521.2		NPSH 3%		ft				

Materials

22		Pump		Shaft Seal
23	Volute Casing	Cast Iron		Single mechanical seal, without shaft sleeve
24	Casing Cover	Cast Iron		eMG12 - Ø28mm
25	Impeller	Cast Iron		Mechanical seal diameter
26	Shaft	Stainless steel		1. Rotating ring
27	Wear ring	Stainless steel		2. Stationary ring
28	Impeller lock nut and washer	Stainless steel		3. Secondary seal
29	Impeller key	Stainless steel		4. Springs
30	Fill and drain plugs	Stainless steel		5. Others
31				Gaskets of the pump
32				
33				
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Motor data

Electrical and dimensional data refer to IE3 motor

Coupling

42	Manufacturer	Lowara	Manufacturer	Flender
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency	Series	Standard Coupling - N-EUPEX - Type B
44	Type	3MAS 180 M B3 22 kW	Shaft diameter	Pump 15/16 inch Motor 1 7/8 inch
45	Rated power	29.502 hp	Rated current	39.6 A
46	Nominal speed	3546 rpm	Rated voltage	380 V
47	Frame size	180 M	Service factor	1
48	Weight	lb 280.6	Degree of protection	IP55
			Coupling protection	COUPLGUARD 175x152PNTD 0.72751 lb

Base plate

49	Name	BASE 6C 1250X540 BLU
50	Weight	lb 93.7

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Block	NSCF65-200/370/L26UCC4	Created on	1/11/2025		

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Performance curve

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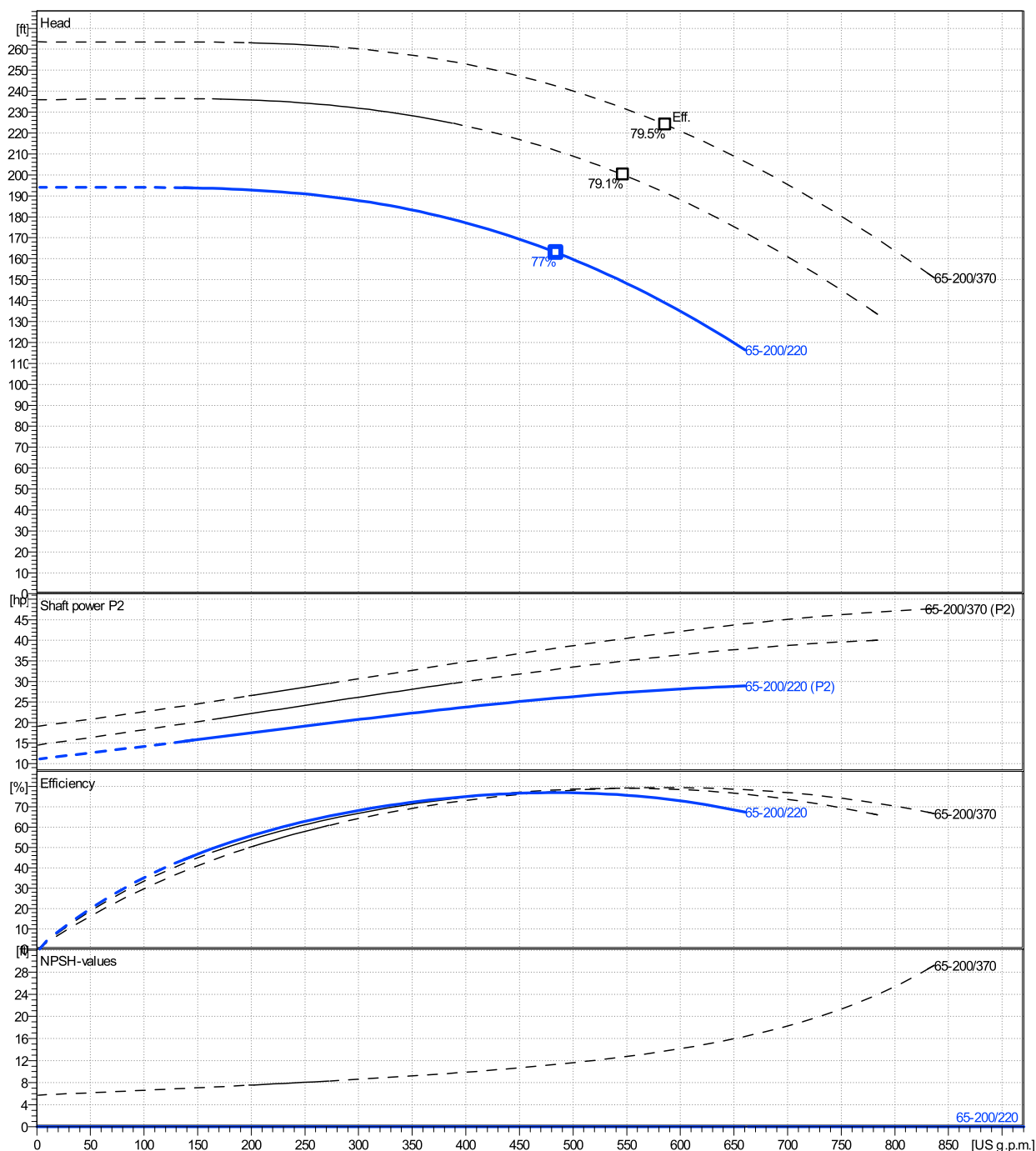
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	Max. ft	P2(Q=0) hp	Max. hp	Max. hp	Operating speed	rpm	3500
actual	6 13/16	145	660	484	194	163		28.9	25.9	Nominal flow	US g.p.m.	0
Min.	0	/	/	484	194	163		/	25.9	Nominal head	ft	0
Max.	7 13/16	/	/	586	264	224		/	41.7	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 by
Created on 1/11/2025

Last update 1/11/2025

Program version
75.0 - 06/12/2024 (Build 274)

Data version
15/12/2024 18:59

User group(s)
Xylem: United Kingdom - EXT

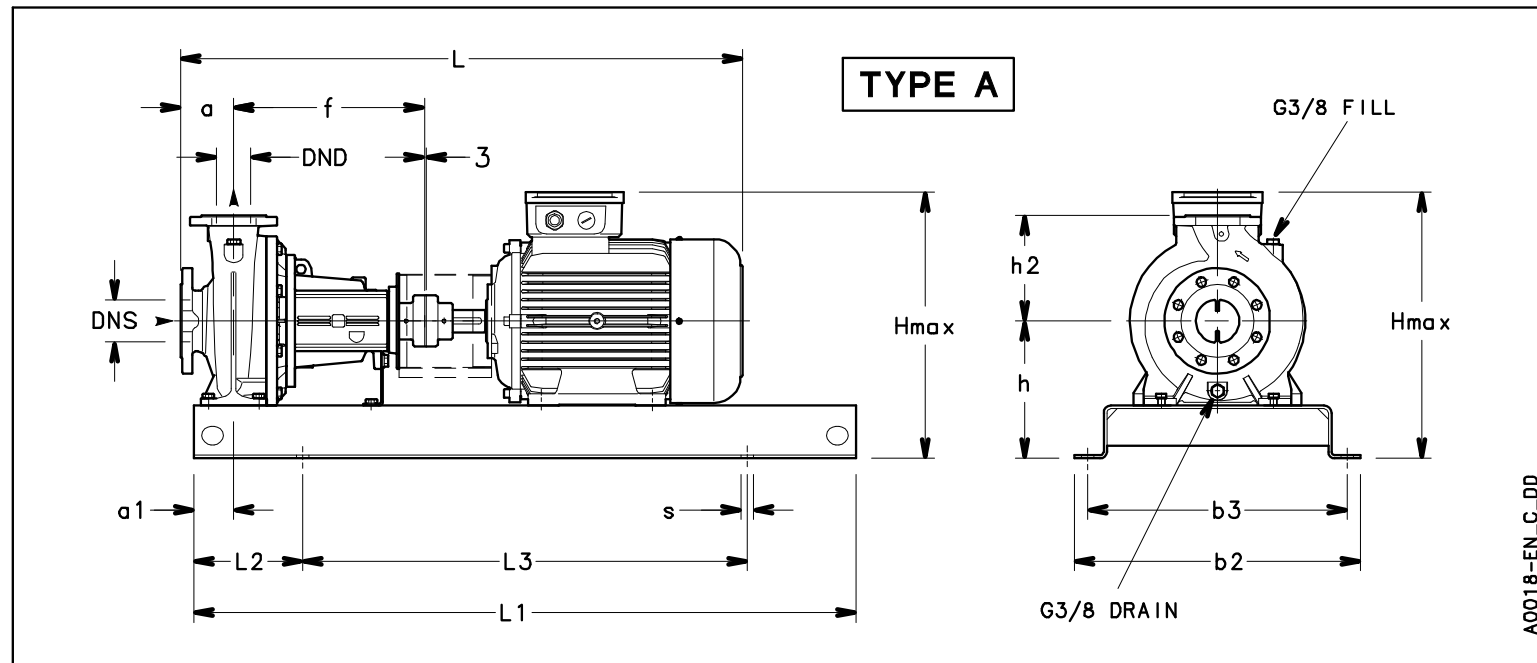
NSCF65-200/220/L26UCC4

Dimensions

Company name
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Frame mounted
[F] = 2 poles motor unit with standard coupling
3MAS 180 M B3 22 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[inch]	
a	3 ¹⁵ / ₁₆		
a1	2 ¹⁵ / ₁₆		
AD	10 ³ / ₈		
b2	21 ¹ / ₄		
b3	19 ⁵ / ₁₆		
DND	2 ⁹ / ₁₆		
DNS	3 ¹ / ₈		
f	14 ³ / ₁₆		
Guard	6 ⁷ / ₁₆		
h	11 ¹ / ₃₂		
h2	8 ⁷ / ₈		
Hmax	21 ⁷ / ₁₆		
L	45 ¹³ / ₁₆		
L1	49 ³ / ₁₆		
L2	8 ¹ / ₁₆		
L3	33 ¹ / ₁₆		
s	4xØ24		
Type	A		
Volumen	1 ¹ / ₆₄		
x	1 ¹ / ₈		

Weight

Total weight	236.43 kg
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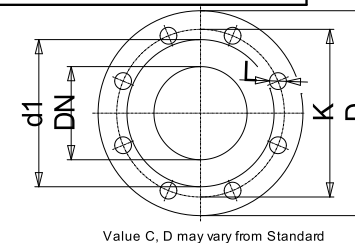
Connections

Suction nozzle		Discharge nozzle	
DN 80		DN 65	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	7 ⁷ / ₈	C	13 ¹ / ₁₆
D	7 ⁷ / ₈	D	7 ⁵ / ₁₆
df	5 ³ / ₁₆	df	4 ⁵ / ₈
DN	3 ¹ / ₈	DN	2 ⁹ / ₁₆
K	6 ⁵ / ₁₆	K	5 ¹¹ / ₁₆
L	8 x 19	L	4 x 19

Note:
Weight and Dimensions of selected Hydrovar are NOT considered.
Please refer to additional datasheet.

Dimensions and weight without obligation

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Value C, D may vary from Standard