LOWARA
a xylem brand

NSCF 65-200/300/L25VCC4

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	°C	4	
3	Nominal flow	m³/h	0	Max / Min Operating Temperature mech. Seal	°C	120 / -25	
4	Nominal head	m	0	pH-value at t A		7	
5	Static head	m	0	Density at t A	kg/m³	1000	
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm²/s	1.569	
7	Environmental temperature	°C	20	Vapor pressure at t A	kPa	100	
8	Available system NPSH	m	0	Altitude		0	

Pump data

9	Lubrication	Standard, Grease lubrication [Std]					
10	Execution	[F] = 2 poles motor unit with standard cuopling		Impeller Ø	Max.	mm	220
11	Design	Horizontal			designed	mm	220
12	Operating speed	2900 rpm	Stages 1		Min.	mm	165
13	Suction nozzle	DN 80 / PN 16 / EN1092-2		Flow	Nominal	m³/h	
14	Discharge nozzle	DN 65 / PN 16 / EN1092-2			Max-	m³/h	189
15	Max. casing pressure	kPa			Min-	m³/h	38
16	Max. working pressure	kPa	688.5	Head	Nominal	m	
17	Impeller type		Radial impeller		at Qmax	m	36.8
18	Head H(Q=0)	m	70		at Qmin	m	69.7
19	Max. shaft power	kW	29.9	Shaft power		kW	
20	Pump weight	kg	63	Efficiency		%	
21	Total weight	kg	325.0	NPSH 3%		m	

Materials

	Pump		Shaft Seal	
22			Single mechanical seal, without shaft sleeve	
23	Volute Casing	Cast Iron		
24	Casing Cover	Cast Iron	eMG12 - Ø28mm	BQ7EGG-WA
25	Impeller	Cast Iron	Mechanical seal diameter	28 mm
26	Shaft	Stainless steel	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Stainless steel	5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency			
44	Type	3MAS 200 L B3 30 kW			
45	Rated power	30 kW	Rated current	52.2 A	
46	Nominal speed	2965 rpm	Rated voltage	400 V	
47	Frame size	200 L	Service factor	1	
48	Weight kg	202.3	Degree of protection	IP55	

Coupling

Manufacturer		Flender			
Series		Standard Coupling - N-EUPEX - Type B			
Shaft diameter		Pump 24 mm	Motor 55 mm		
Frame size		125			
Spacer length	mm	3			
Weight	kg	5.2			
Coupling protection	COUPLGUARD 175x152PNTD				0.33 kg

Base plate

49	Name	BASE 7B 1400X610 BLU	
50	Weight kg	54.2	

Remarks

Project	Xylect-20099624		Created by		Last update 12/13/2024
Block	NSCF 65-200/300/L25VCC4		Created on	12/13/2024	

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Performance curve

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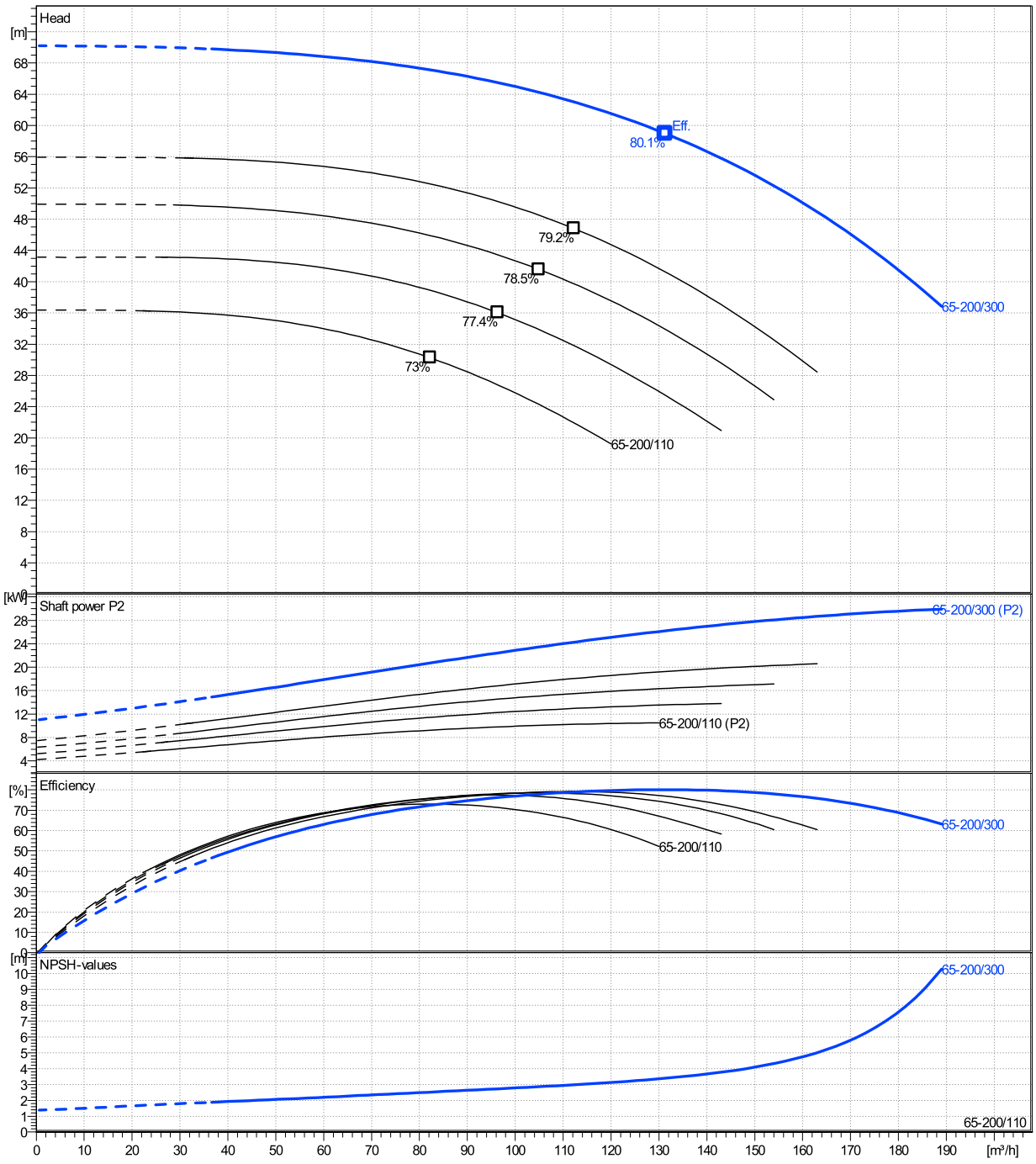
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW			
actual	220	38	189	131	70.2	59		29.9	26.2	Frequency	Hz	50
Min.	0	/	/	82.2	36.4	30.3		/	9.25	Operating speed	rpm	2900
Max.	220	/	/	131	70.2	59		/	26.2	Nominal flow	m³/h	0
										Nominal head	m	0
										Inlet pressure	kPa	0
										Static head	m	0

Power datas refered to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

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

MEI: >=0,4



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Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 02/12/2024 16:17
User group(s): Xylem:United Kingdom - EXT

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NSCF 65-200/300/L25VCC4

Dimensions

Company name
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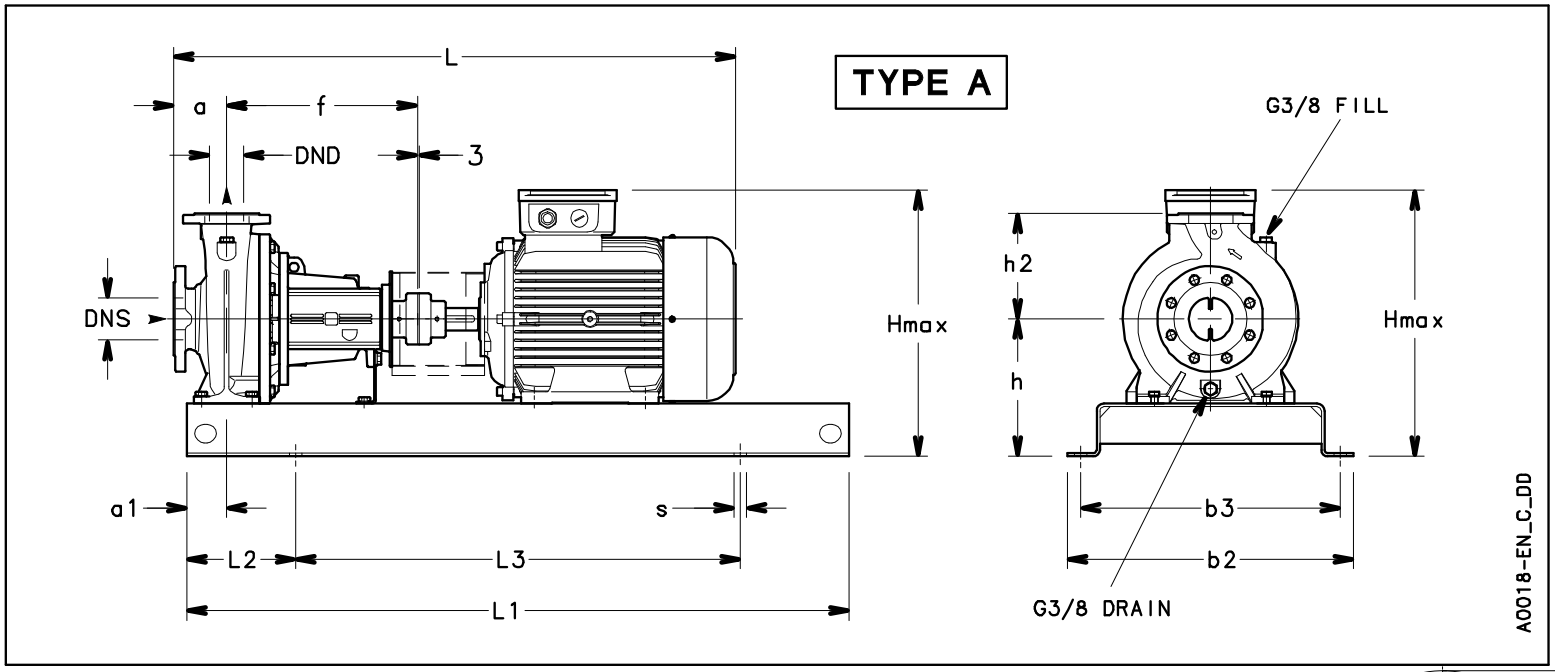
Frame mounted
[F] = 2 poles motor unit with standard cuopling
3MAS 200 L B3 30 kW

Electrical and dimensional data refer to IE3 motor



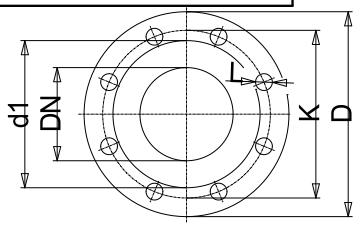
Dimensions [mm]

a	100		
a1	75		
AD	300		
b2	610		
b3	550		
DND	65		
DNS	80		
f	360		
Guard	163		
h	310		
h2	225		
Hmax	610		
L	1244		
L1	1400		
L2	230		
L3	940		
s	4xØ28		
Type	A		
Volumen	0.46289		
x	3		

Weight

Total weight	**325.03 kg**

Connections



Value C, D may vary from Standard

Suction nozzle		**Discharge nozzle**	
DN 80		**DN 65**	
PN 16		**PN 16**	
EN1092-2		**EN1092-2**	
C	22	C	20
D	200	D	185
df	132	df	118
DN	80	DN	65
K	160	K	145
L	8 x 19	L	4 x 19

Dimensions and weight without obligation

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