LOWARA
a xylem brand

NSCF 65-160/110/P25VCC4

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	180
11	Design	Horizontal				designed	mm	159
12	Operating speed	2900 rpm	Stages 1			Min.	mm	145
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	150
15	Max. casing pressure	kPa				Min-	m³/h	29.9
16	Max. working pressure	kPa	327.1		Head	Nominal	m	
17	Impeller type		Radial impeller			at Qmax	m	17.8
18	Head H(Q=0)	m	33			at Qmin	m	33.2
19	Max. shaft power	kW	10.2	Shaft power		kW		
20	Pump weight	kg	60	Efficiency		%		
21	Total weight	kg	185.2	NPSH 3%		m		

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
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	PLM 160 B3 11 kW			
45	Rated power	11 kW	Rated current	20.2 A	
46	Nominal speed	2935 rpm	Rated voltage	400 V	
47	Frame size	160	Service factor	1	
48	Weight kg	80.2	Degree of protection	IP55	

Coupling

Manufacturer		Flender	
Series		Standard Coupling - N-EUPEX - Type B	
Shaft diameter		Pump 24 mm	Motor 42 mm
Frame size		95	
Spacer length	mm	3	
Weight	kg	2.2	
Coupling protection	COUPLGUARD 175x152PNTD		0.33 kg

Base plate

49	Name	BASE 6B 1250X540 BLU	
50	Weight kg	42.5	

Remarks

Project	Xylect-20100489		Created by		Last update 12/14/2024
Block	NSCF 65-160/185/P25VCC4		Created on	12/14/2024	

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Performance curve

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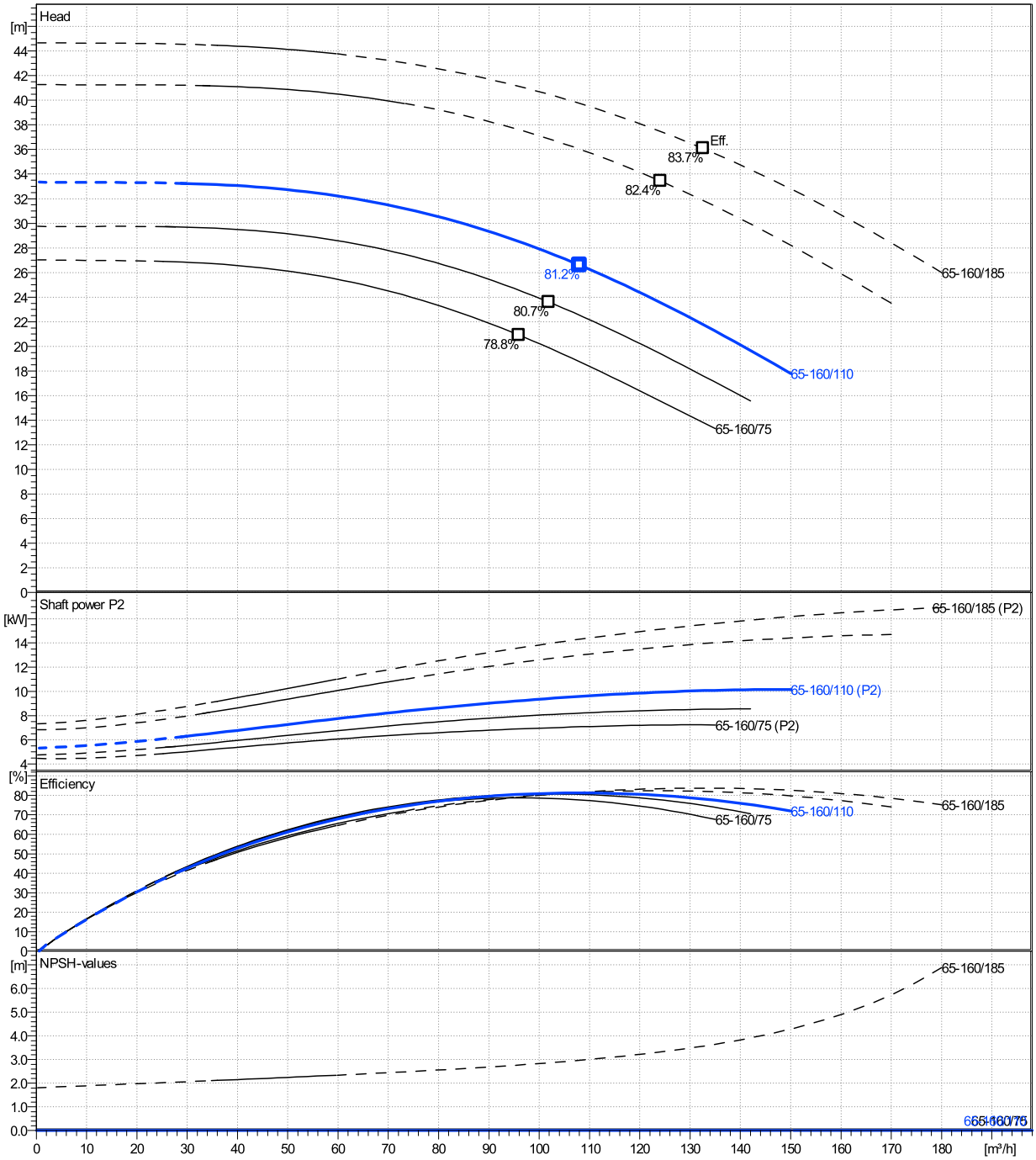
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW			
actual	159	29.9	150	108	33.3	26.6		10.2	9.58	Frequency	Hz	50
Min.	0	/	/	96	27	20.9		/	6.9	Operating speed	rpm	2900
Max.	180	/	/	133	44.7	36.1		/	15.5	Nominal 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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Dimensions

Company name
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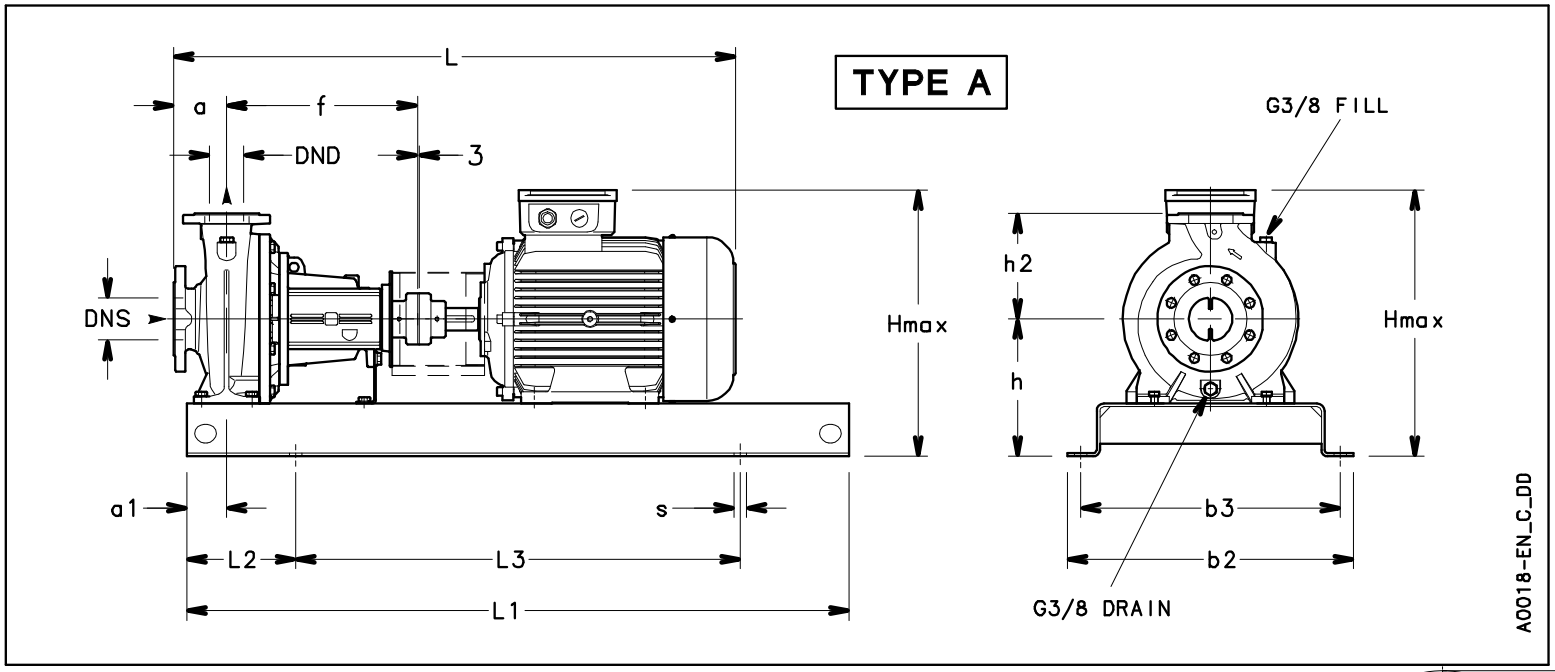
Frame mounted
[F] = 2 poles motor unit with standard cuopling
PLM 160 B3 11 kW

Electrical and dimensional data refer to IE3 motor



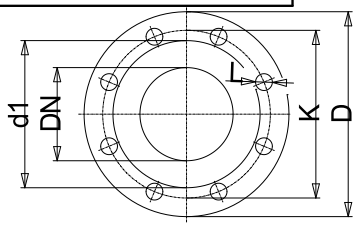
Dimensions [mm]

a	100		
a1	75		
AD	240		
b2	540		
b3	490		
DND	65		
DNS	80		
f	360		
Guard	163		
h	260		
h2	200		
Hmax	500		
L	1067		
L1	1250		
L2	205		
L3	840		
s	4xØ24		
Type	A		
Volumen	0.28809		
x	3		

Weight

Total weight	**185.23 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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