LOWARA
a xylem brand

LNEE 80-160/55/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			Impeller Ø	Max.	mm	180
11	Design	In-Line single head			designed	mm	130
12	Operating speed	2900 rpm	Stages 1		Min.	mm	130
13	Suction nozzle	DN 80 / PN 16 / EN1092-2		Flow	Nominal	m³/h	
14	Discharge nozzle	DN 80 / PN 16 / EN1092-2			Max-	m³/h	103
15	Max. casing pressure	kPa			Min-	m³/h	20.4
16	Max. working pressure	kPa	224.9	Head	Nominal	m	
17	Impeller type		Radial impeller		at Qmax	m	12
18	Head H(Q=0)	m	23		at Qmin	m	22.2
19	Max. shaft power	kW	5.2	Shaft power		kW	
20	Pump weight	kg		Efficiency		%	
21	Total weight	kg	84.0	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 / ASTM Class 30	Mechanical seal diameter	28 mm
26	Stub shaft	Stainless steel / AISI 316L	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel / AISI 304	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel / AISI 304	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel / AISI 316L	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Nickel-plated brass	5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
32				
33				
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40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor		
44	Type	PLM 112 B14 5,5 kW		
45	Rated power	5.5 kW	Rated current	10.4 A
46	Nominal speed	2880 rpm	Rated voltage	400 V
47	Frame size	112	Service factor	1
48	Weight kg	55.8	Degree of protection	IP55

Remarks

49	
50	
50	
52	

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Performance curve

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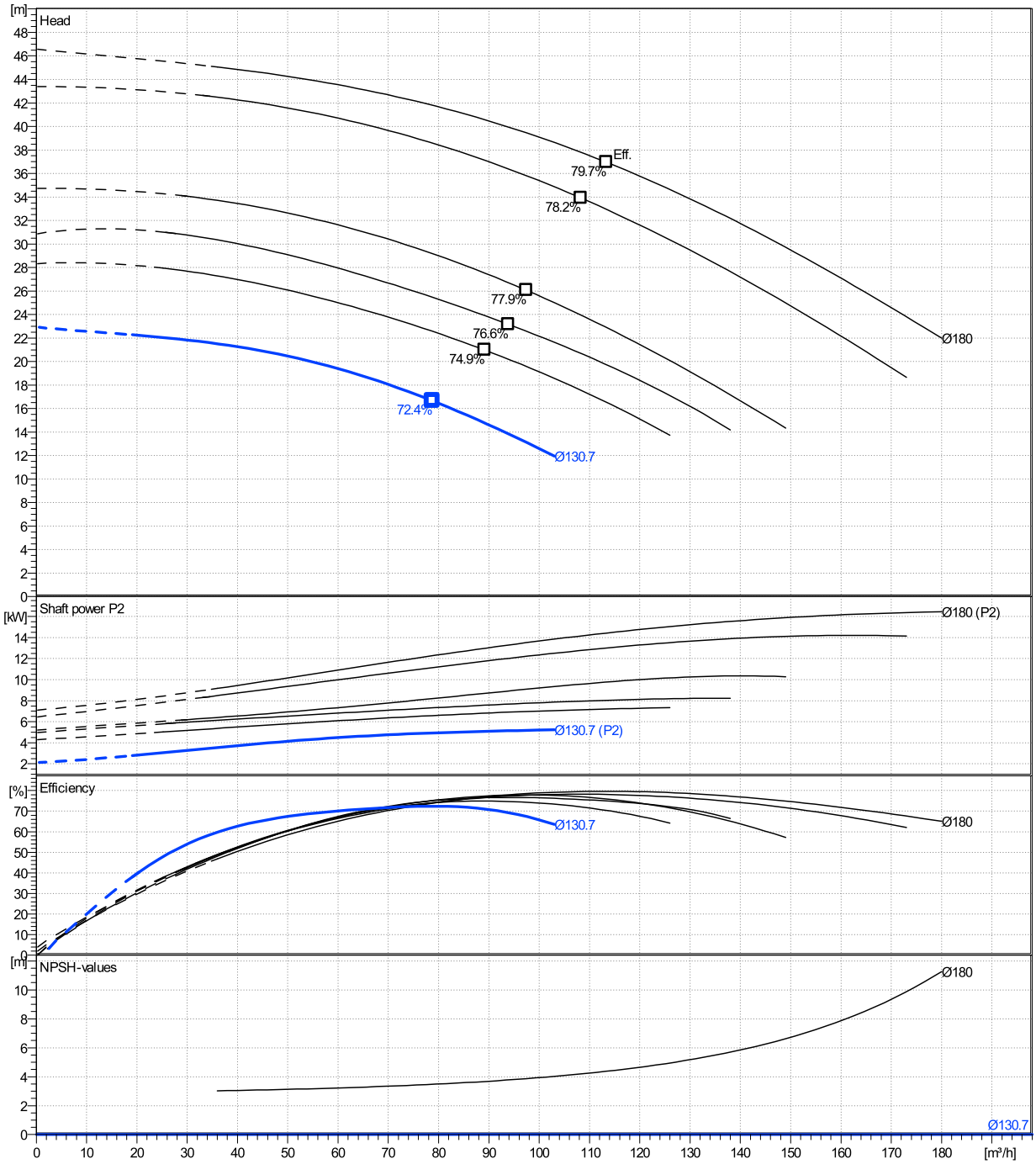
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW	Frequency	Hz	50
actual	130	20.4	103	78.7	22.9	16.7		5.24	4.94	Operating speed	rpm	2900
Min.	0	/	/	78.7	22.9	16.7		/	4.94	Nominal flow	m³/h	0
Max.	180	/	/	113	46.6	36.9		/	14.4	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: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project	Xylect-20945460		**Created by**		**Last update** 8/2/2023
Block	LNEE 80-160/22/P45RCC4		**Created on**	8/2/2023	

Program version: 69.0 - 15/05/2023 (Build 33)
Data version: 20/07/2023 09:39
User group(s): Xylem:United Kingdom - EXT

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Dimensions

Company name
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Close coupled

PLM 112 B14 5,5 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [mm]

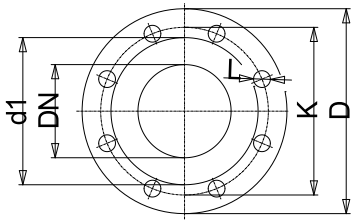
AD	168		
b1	168		
Bmax	336		
DND	80		
DNS	80		
e	114		
H	420		
h1	215		
h2	205		
L	582		
p	214		
x	111		

Weight

Total weight	**84 kg**

Connections

Suction nozzle		**Discharge nozzle**	
DN 80		**DN 80**	
PN 16		**PN 16**	
EN1092-2		**EN1092-2**	
C	22	C	22
D	200	D	200
df	132	df	132
DN	80	DN	80
K	160	K	160
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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