

# LNEE 80-160/185/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				
11	Design	In-Line single head		Impeller Ø	Max. mm 180
12	Operating speed	2900 rpm	Stages 1		designed mm 180
13	Suction nozzle	DN 80 /	PN 16 /	EN1092-2	Min. mm 130
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2	Flow
15	Max. casing pressure	kPa			
16	Max. working pressure	kPa	456.7		Max- m³/h 180
17	Impeller type	Radial impeller		Head	Min- m³/h 36
18	Head H(Q=0)	m	47		Nominal m
19	Max. shaft power	kW	16.5		at Qmax m 22
20	Pump weight	kg			at Qmin m 45.1
21	Total weight	kg	163.0		Shaft power kW
					Efficiency %
					NPSH 3% m

Materials					
22		Pump		Shaft Seal	
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)
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Motor data					
Electrical and dimensional data refer to IE3 motor					
42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Flange Motor			
44	Type	PLM 160 B14 18,5 kW			
45	Rated power	18.5 kW	Rated current	32.7 A	
46	Nominal speed	2940 rpm	Rated voltage	400 V	
47	Frame size	160	Service factor	1	
48	Weight	kg 121.2	Degree of protection	IP55	

Remarks					
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52					

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## Performance curve

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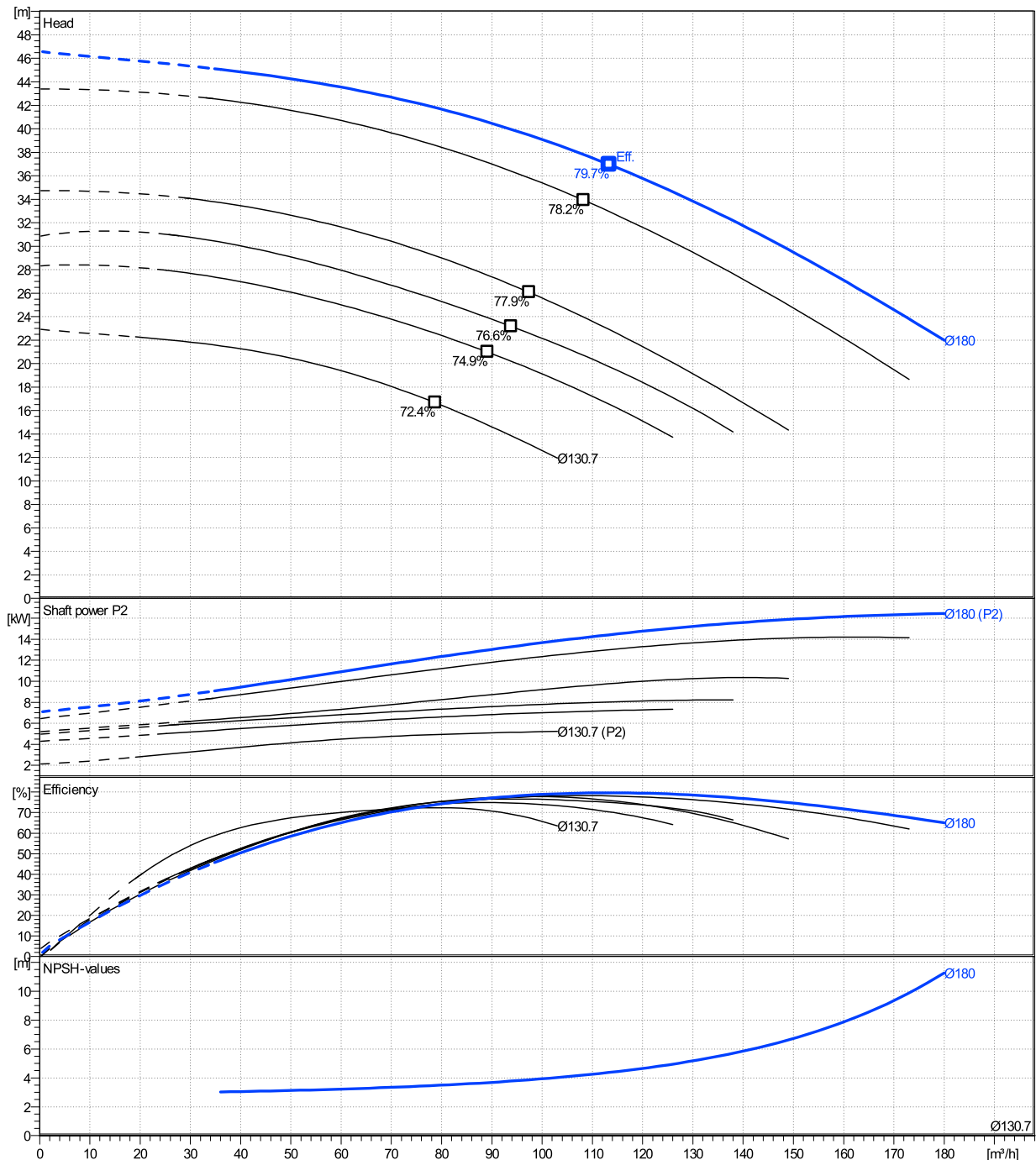
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz
		Operating range Min. m <sup>3</sup> /h	Max. m <sup>3</sup> /h	η Max. m <sup>3</sup> /h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900
actual	180	36	180	113	46.6	36.9	16.5	14.4	Nominal flow	m <sup>3</sup> /h	0
Min.	0	/	/	78.7	22.9	16.7	/	4.94	Nominal head	m	0
Max.	180	/	/	113	46.6	36.9	/	14.4	Inlet pressure	kPa	0
									Static head	m	0

**Power datas referred to:**

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

Water, pure [100%] ; 4°C; 1000kg/m<sup>3</sup>; 1.57mm<sup>2</sup>/s

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



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## Dimensions

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Close coupled

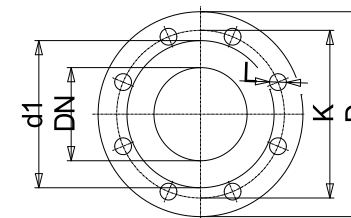
PLM 160 B14 18,5 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[ mm ]	
AD	240		
b1	168		
Bmax	408		
DND	80		
DNS	80		
e	114		
H	420		
h1	215		
h2	205		
L	723		
p	313		
x	111		

Weight	
Total weight	163 kg

Connections			
<b>Suction nozzle</b>		<b>Discharge nozzle</b>	
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

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