

LNEE 80-125/40/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	m ³ /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/m ³	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm ² /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	148
12	Operating speed	2900 rpm	Stages	1		designed mm	117
13	Suction nozzle	DN 80 /	PN 16 /	EN1092-2		Min. mm	117
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2	Flow	Nominal m ³ /h	
15	Max. casing pressure	kPa				Max- m ³ /h	90
16	Max. working pressure	kPa	175.4		Min- m ³ /h	24	
17	Impeller type	Radial impeller			Head	Nominal m	
18	Head H(Q=0)	m	18			at Qmax m	11.2
19	Max. shaft power	kW	3.8			at Qmin m	18
20	Pump weight	kg			Shaft power	kW	
21	Total weight	kg	75.0		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 - Ø22mm	BQ7EGG-WA
25	Impeller	Cast iron / ASTM Class 30			Mechanical seal diameter	22 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 112R B14 4 kW			
45	Rated power	4 kW	Rated current	7.75 A	
46	Nominal speed	2885 rpm	Rated voltage	400 V	
47	Frame size	112R	Service factor	1	
48	Weight	kg 37.6	Degree of protection	IP55	

Remarks					
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Performance curve

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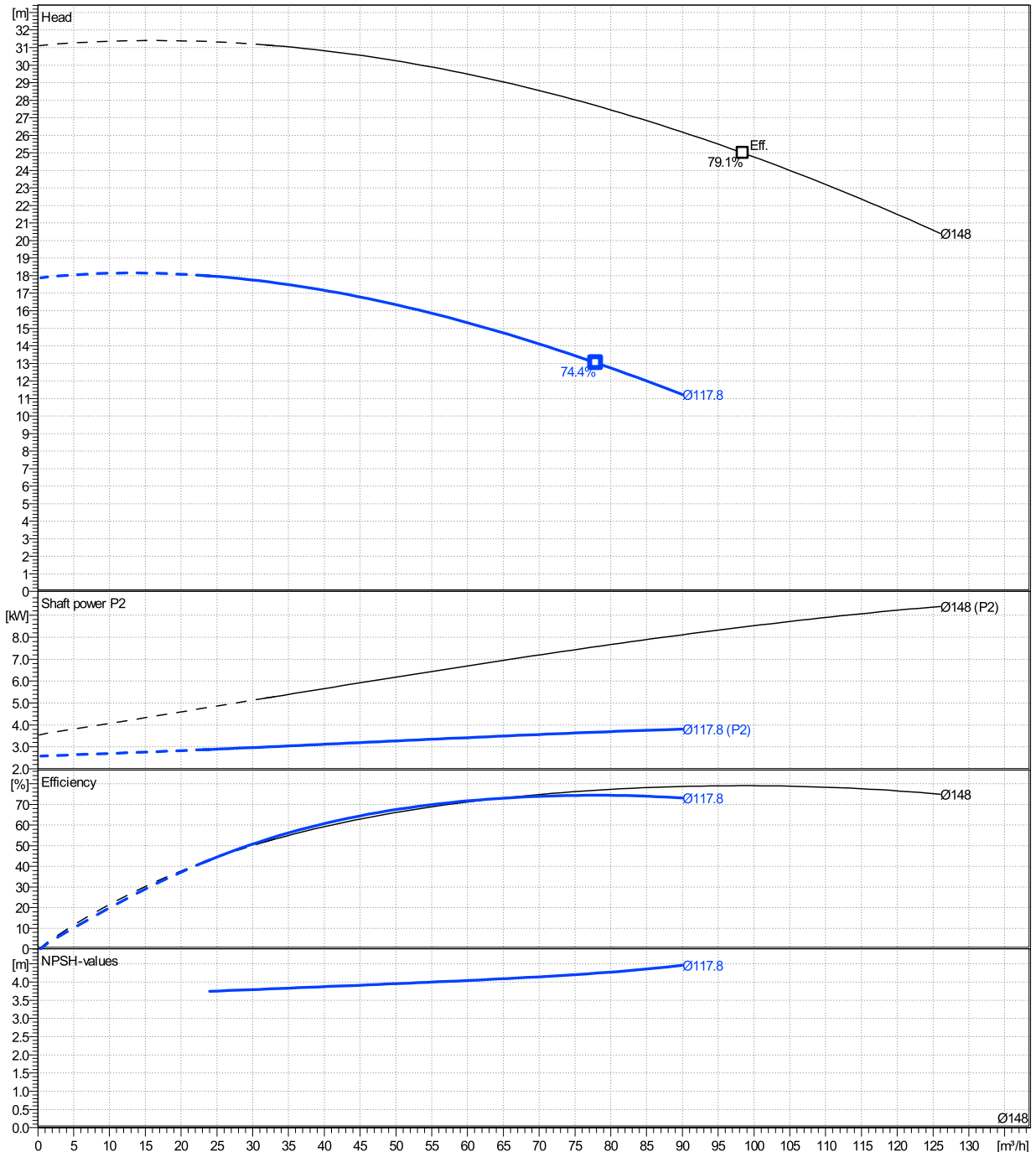
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	117	24	90	77.9	17.9	13	3.81	3.67		Nominal flow	m³/h	0
Min.	0	/	/	77.9	17.9	13	/	3.67		Nominal head	m	0
Max.	148	/	/	98.4	31.1	25	/	8.46		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/m³; 1.57mm²/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

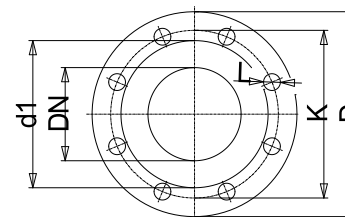
PLM 112R B14 4 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	154		
b1	168		
Bmax	336		
DND	80		
DNS	80		
e	114		
H	420		
h1	215		
h2	205		
L	548		
p	197		
x	111		

Weight	
Total weight	75 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

Project	Xylect-20945270	Created by		Last update	8/2/2023
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