

# LNEE 100-160/110/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	m <sup>3</sup> /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 <sup>3</sup>	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm <sup>2</sup> /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	177			
12	Operating speed	2900 rpm	Stages		1	designed	mm	144		
13	Suction nozzle	DN 100	/	PN 16	/	EN1092-2	Min.	mm	144	
14	Discharge nozzle	DN 100	/	PN 16	/	EN1092-2	Flow	Nominal	m <sup>3</sup> /h	
15	Max. casing pressure	kPa			Max-	m <sup>3</sup> /h		205.2		
16	Max. working pressure	kPa	253.1		Min-	m <sup>3</sup> /h	44			
17	Impeller type	Radial impeller		Head	Nominal	m				
18	Head H(Q=0)	m	26		at Qmax	m	10.9			
19	Max. shaft power	kW	10		at Qmin	m	25.3			
20	Pump weight	kg			Shaft power	kW				
21	Total weight	kg	122.0		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 - 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 132 B14 11 kW			
45	Rated power	11 kW	Rated current	20.2 A	
46	Nominal speed	2910 rpm	Rated voltage	400 V	
47	Frame size	132	Service factor	1	
48	Weight	kg	102.0	Degree of protection	IP55

Remarks					
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# LNEE 100-160/110/P25VCC4

## Performance curve

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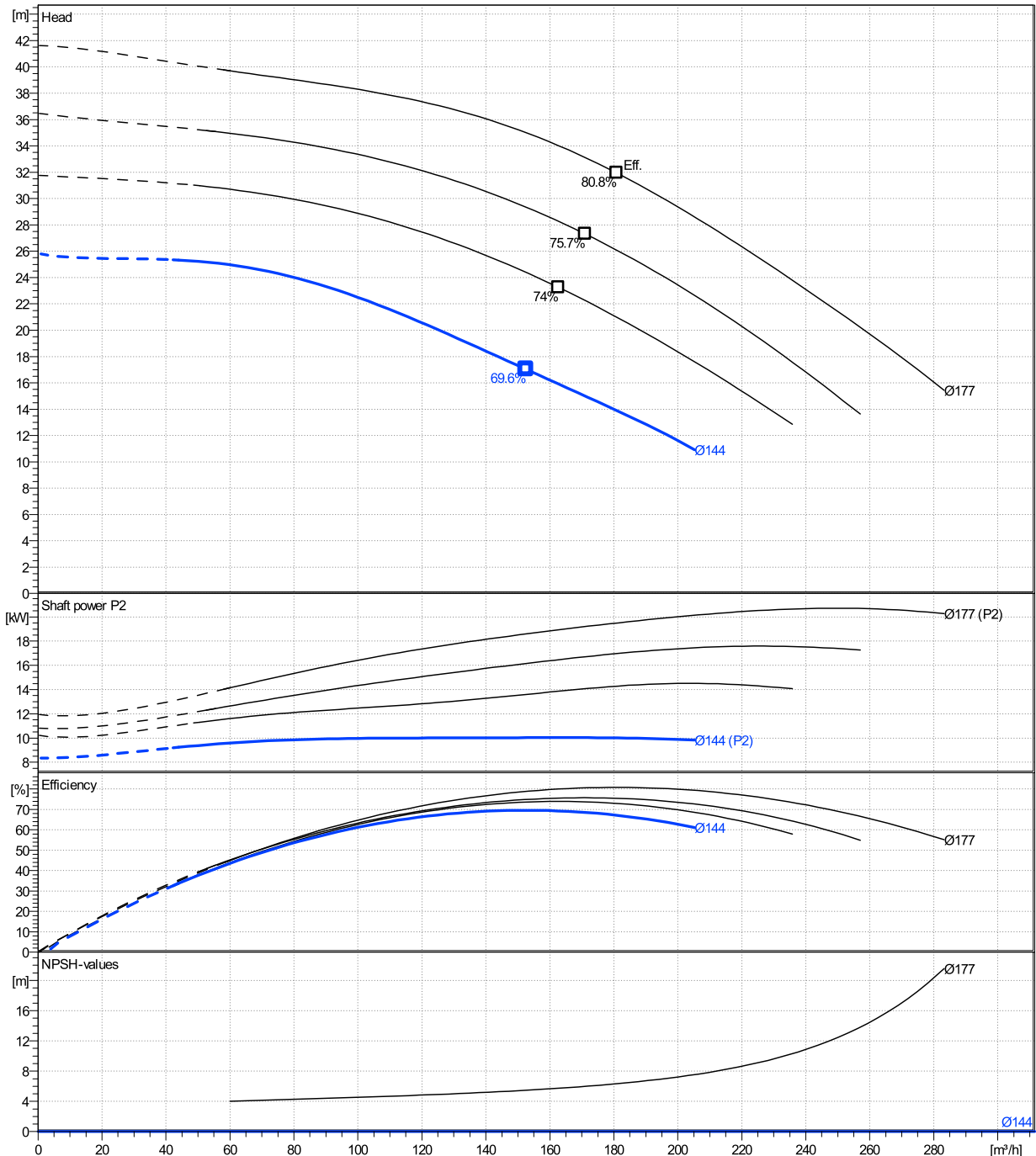
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	144	44	205	153	25.8	17	10	10	10	Nominal flow	m³/h	0	
Min.	0	/	/	153	25.8	17	/	/	10	Nominal head	m	0	
Max.	177	/	/	181	41.6	31.9	/	/	19.5	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

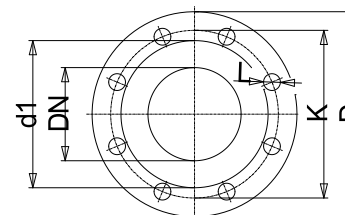
PLM 132 B14 11 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[ mm ]	
AD	191		
b1	179		
Bmax	359		
DND	100		
DNS	100		
e	140		
H	500		
h1	260		
h2	240		
L	665		
p	256		
x	123		

Weight	
Total weight	122 kg

Connections			
<b>Suction nozzle</b>		<b>Discharge nozzle</b>	
DN 100		DN 100	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	24	C	24
D	230	D	230
df	157	df	157
DN	100	DN	100
K	180	K	180
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

### Dimensions and weight without obligation

<b>Project</b>	Xlect-20945534	<b>Created by</b>		<b>Last update</b>	8/2/2023
<b>Block</b>	LNEE 100-160/30/P45RCC4	<b>Created on</b>	8/2/2023		