

# LNEE 65-160/110/P25VCS4

## 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		
12	Operating speed	2900 rpm	Stages	1
13	Suction nozzle	DN 65 /	PN 16 /	EN1092-2
14	Discharge nozzle	DN 65 /	PN 16 /	EN1092-2
15	Max. casing pressure	kPa		
16	Max. working pressure	kPa	421.6	
17	Impeller type	Radial impeller		
18	Head H(Q=0)	m	43	
19	Max. shaft power	kW	10.8	
20	Pump weight	kg		
21	Total weight	kg	100.0	

		Impeller Ø		Flow		Head		Shaft power		Efficiency	
	Max.	mm	176		Max-	m <sup>3</sup> /h		at Qmax	m		
	designed	mm	176		Min-	m <sup>3</sup> /h		at Qmin	m		
	Min.	mm	144		Nominal	m <sup>3</sup> /h					
	Nominal	m <sup>3</sup> /h									
	Max-	m <sup>3</sup> /h	116								
	Min-	m <sup>3</sup> /h	26								
	Nominal	m									
	at Qmax	m	18								
	at Qmin	m	41								
	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 - Ø22mm
25	Impeller	Stainless steel / AISI 304		Mechanical seal diameter
26	Stub shaft	Stainless steel / AISI 316L		22 mm
27	Wear ring	Stainless steel / AISI 304		1. Rotating ring
28	Impeller lock nut and washer	Stainless steel / AISI 304		Carbon graphite resin impregnated
29	Impeller key	Stainless steel / AISI 316L		2. Stationary ring
30	Fill and drain plugs	Nickel-plated brass		SiC, silicon carbide, sintered press.less
31				3. Secondary seal
32				Ethylene propylene rubber (EPDM)
33				4. Springs
34				CrNiMo - Steel
35				5. Others
36				EPDM - WRAS
37				Gaskets of the pump
38				Ethylene propylene rubber (EPDM)
39				
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 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				
49				
50				
50				
52				

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## Performance curve

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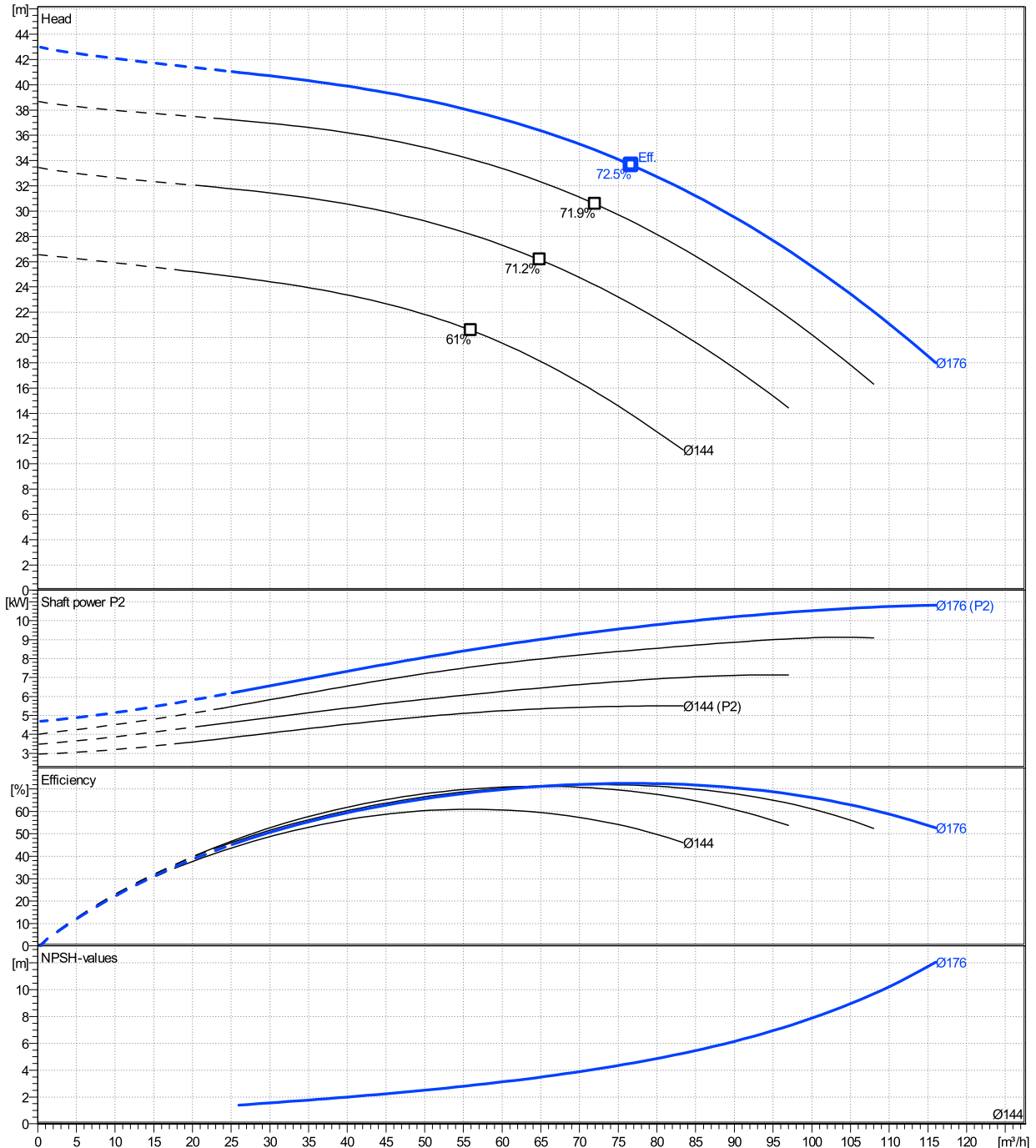
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	176	26	116	76.7	43	33.6	10.8	9.64	Nominal flow	m³/h	0	
Min.	0	/	/	56	26.6	20.6	/	5.14	Nominal head	m	0	
Max.	176	/	/	76.7	43	33.6	/	9.64	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



# LNEE 65-160/110/P25VCS4

## Dimensions

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Close coupled

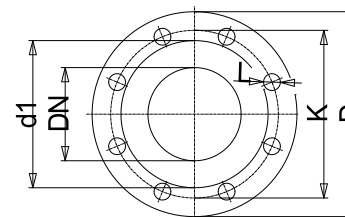
PLM 132 B14 11 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[ mm ]	
AD	191		
b1	148		
Bmax	339		
DND	65		
DNS	65		
e	105		
H	360		
h1	190		
h2	170		
L	635		
p	256		
x	94		

Weight	
Total weight	100 kg

Connections			
<b>Suction nozzle</b>		<b>Discharge nozzle</b>	
DN 65		DN 65	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	20
D	185	D	185
df	118	df	118
DN	65	DN	65
K	145	K	145
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

### Dimensions and weight without obligation

Project	Xlect-20945270	Created by		Last update	8/2/2023
Block	LNEE 65-160/15/P45RCS4	Created on	8/2/2023		