

LNEE 100-160/220/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	177	
12	Operating speed	2900 rpm	Stages		1	designed	mm	177
13	Suction nozzle	DN 100 /	PN 16 /		EN1092-2	Min.	mm	144
14	Discharge nozzle	DN 100 /	PN 16 /	EN1092-2	Flow	Nominal	m ³ /h	
15	Max. casing pressure	kPa				Max-	m ³ /h	283.2
16	Max. working pressure	kPa	408.2		Min-	m ³ /h	60	
17	Impeller type	Radial impeller		Head	Nominal	m		
18	Head H(Q=0)	m	42		at Qmax	m	15.4	
19	Max. shaft power	kW	20.7		at Qmin	m	39.7	
20	Pump weight	kg			Shaft power	kW		
21	Total weight	kg	182.0		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)
32					
33					
34					
35					
36					
37					
38					
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 160 B14 22 kW			
45	Rated power	22 kW	Rated current	42.2 A	
46	Nominal speed	2940 rpm	Rated voltage	400 V	
47	Frame size	160	Service factor	1	
48	Weight	kg	18.0	Degree of protection	IP55

Remarks					
49					
50					
50					
52					

LNEE 100-160/220/P25VCC4

Performance curve

Company name
Contact
Phone number
e-mail address

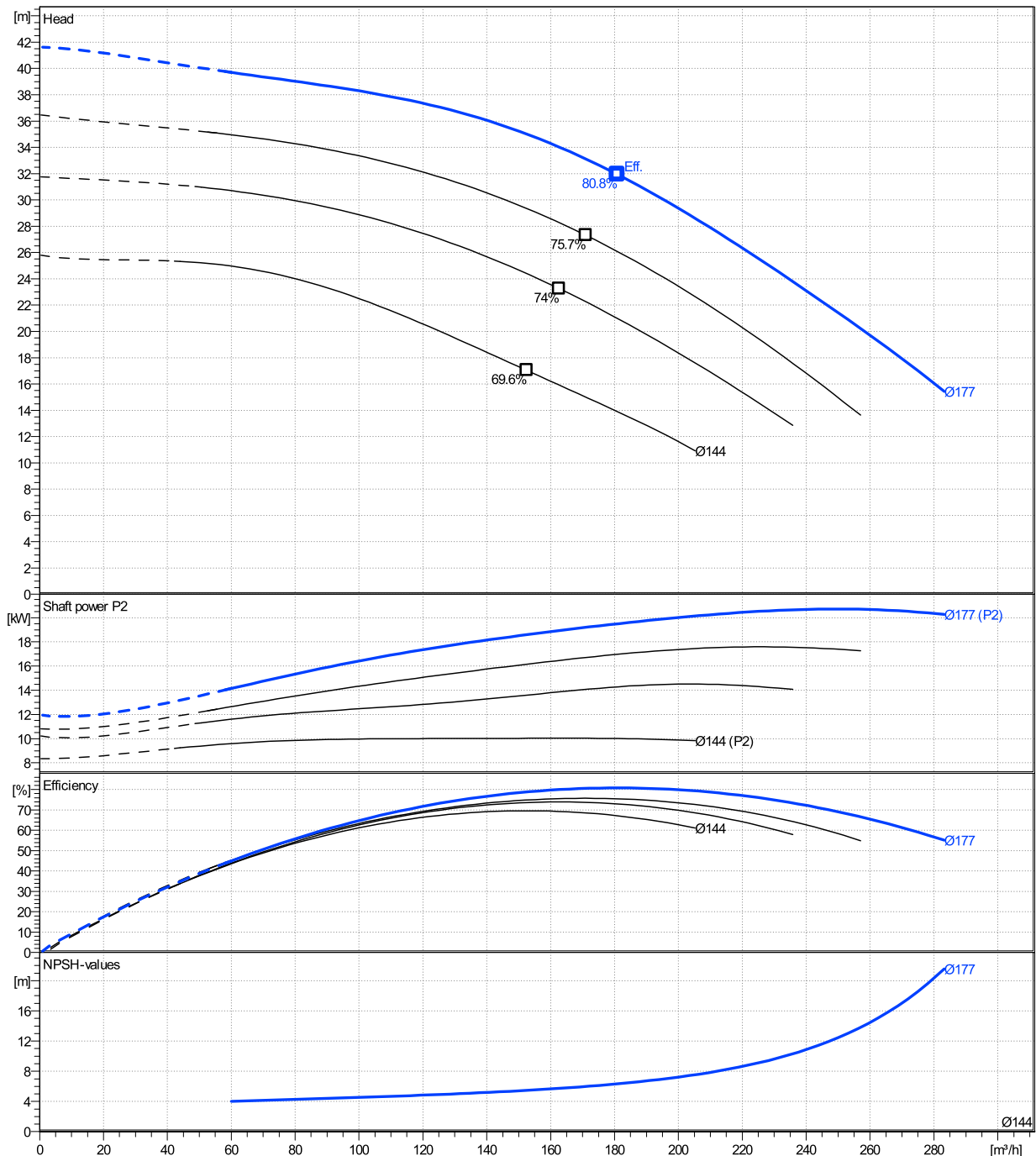
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	177	60	283	181	41.6	31.9		20.7	19.5	Nominal flow	m³/h	0	
Min.	0	/	/	153	25.8	17		/	10	Nominal head	m	0	
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



LNEE 100-160/220/P25VCC4

Dimensions

Company name
Contact
Phone number
e-mail address

Close coupled

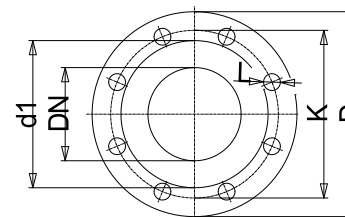
PLM 160 B14 22 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	240		
b1	179		
Bmax	408		
DND	100		
DNS	100		
e	140		
H	500		
h1	260		
h2	240		
L	754		
p	313		
x	123		

Weight	
Total weight	182 kg

Connections			
Suction nozzle		Discharge nozzle	
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

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