

LNEE 100-160/185/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	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	168		
						Min.	mm	144		
13	Suction nozzle	DN 100	/	PN 16	/	EN1092-2	Nominal	m ³ /h		
14	Discharge nozzle	DN 100	/	PN 16	/	EN1092-2	Flow	Max-	m ³ /h	257
							Min-	m ³ /h	55.5	
15	Max. casing pressure	kPa			Head	Nominal	m			
16	Max. working pressure	kPa	357.8			at Qmax	m	13.6		
17	Impeller type	Radial impeller		at Qmin		m	35.1			
18	Head H(Q=0)	m	36		Shaft power	kW				
19	Max. shaft power	kW	17.6		Efficiency	%				
20	Pump weight	kg			NPSH 3%	m				
21	Total weight	kg	173.0							

Materials							
Pump			Shaft Seal				
22				Single mechanical seal, without shaft sleeve			
23	Volute Casing	Cast iron		eMG12 - Ø28mm	BQ7EGG-WA		
24	Casing Cover	Cast iron		Mechanical seal diameter	28 mm		
25	Impeller	Cast iron / ASTM Class 30		1. Rotating ring	Carbon graphite resin impregnated		
26	Stub shaft	Stainless steel / AISI 316L		2. Stationary ring	SiC, silicon carbide, sintered press. less		
27	Wear ring	Stainless steel / AISI 304		3. Secondary seal	Ethylene propylene rubber (EPDM)		
28	Impeller lock nut and washer	Stainless steel / AISI 304		4. Springs	CrNiMo - Steel		
29	Impeller key	Stainless steel / AISI 316L		5. Others	EPDM - WRAS		
30	Fill and drain plugs	Nickel-plated brass		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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Performance curve

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e-mail address

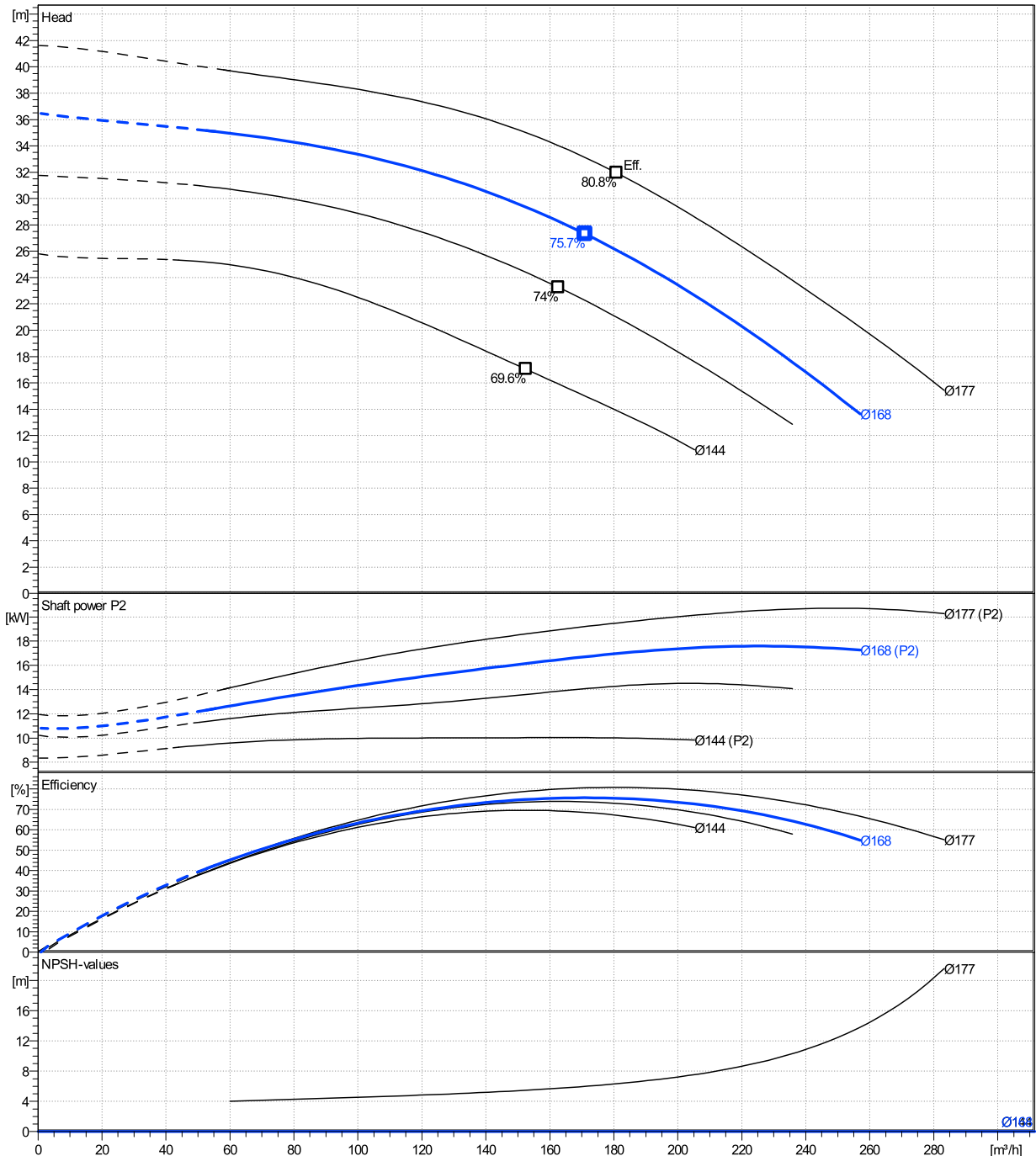
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	168	55.5	257	171	36.5	27.3		17.6	16.7	Nominal flow	m³/h	0	
Min.	0	/	/	153	25.8	17		/	10	Nominal head	m	0	
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

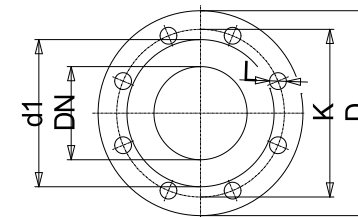
PLM 160 B14 18,5 kW

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	173 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		