

LNEE 50-250/220/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 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 257
12	Operating speed	2900 rpm	Stages 1		designed mm 257
13	Suction nozzle	DN 50 /	PN 16 /	EN1092-2	Min. mm 199
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-2	Nominal m ³ /h
15	Max. casing pressure	kPa			Max- m ³ /h 67.5
16	Max. working pressure	kPa	937.4		Min- m ³ /h 24
17	Impeller type	Radial impeller		Head	Nominal m
18	Head H(Q=0)	m	96		at Qmax m 76
19	Max. shaft power	kW	21.9	Shaft power	kW
20	Pump weight	kg			Efficiency %
21	Total weight	kg	164.0	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	Stainless steel / AISI 304		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 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					
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LNEE 50-250/220/P25VCS4

Performance curve

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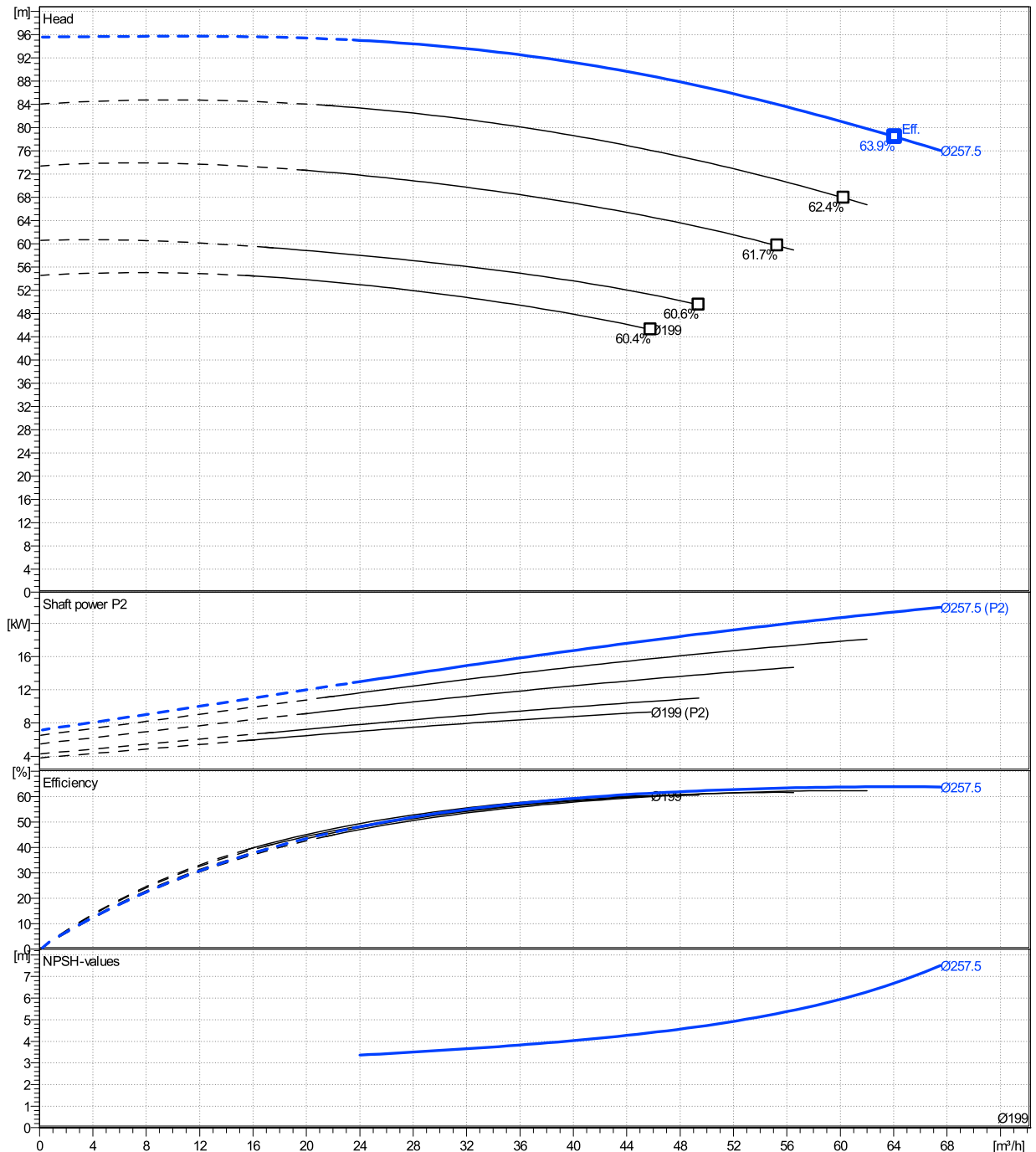
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	257	24	67.5	64.1	95.6	78.4		21.9	21.4	Nominal flow	m³/h	0	
Min.	0	/	/	45.8	54.6	45.2		/	9.33	Nominal head	m	0	
Max.	257	/	/	64.1	95.6	78.4		/	21.4	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

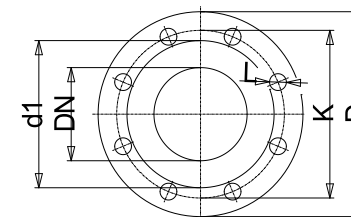
PLM 160 B14 22 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	240		
b1	168		
Bmax	408		
DND	50		
DNS	50		
e	111		
H	440		
h1	220		
h2	220		
L	705		
p	313		
x	108		

Weight	
Total weight	164 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 50		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	20
D	165	D	165
df	99	df	99
DN	50	DN	50
K	125	K	125
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
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