LOWARA
a xylem brand

LNEE 50-250/185/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	m³/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/m³	1000	
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm²/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			Impeller Ø	Max.	mm	257
11	Design	In-Line single head			designed	mm	243
12	Operating speed	2900 rpm	Stages 1		Min.	mm	199
13	Suction nozzle	DN 50 / PN 16 / EN1092-2		Flow	Nominal	m³/h	
14	Discharge nozzle	DN 50 / PN 16 / EN1092-2			Max-	m³/h	62
15	Max. casing pressure	kPa			Min-	m³/h	22.1
16	Max. working pressure	kPa	824.1	Head	Nominal	m	
17	Impeller type		Radial impeller		at Qmax	m	66.7
18	Head H(Q=0)	m	84		at Qmin	m	83.7
19	Max. shaft power	kW	18.1	Shaft power		kW	
20	Pump weight	kg		Efficiency		%	
21	Total weight	kg	155.0	NPSH 3%		m	

Materials

	Pump		Shaft Seal	
22				
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)
32				
33				
34				
35				
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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 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

49	
50	
50	
52	

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Performance curve

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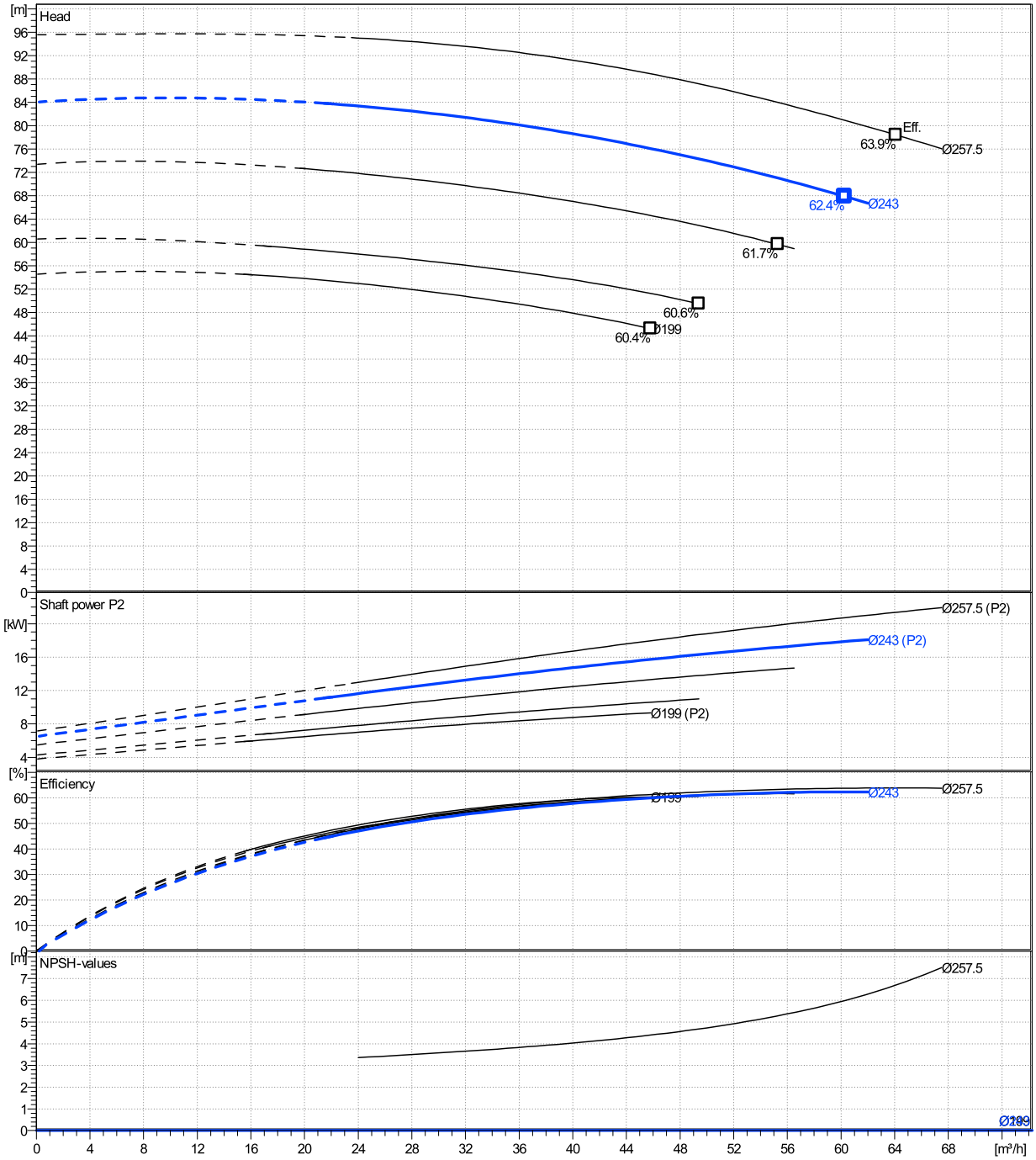
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	m³/h	m³/h	m³/h	m	m	kW	kW	kW	Frequency	Hz	50
actual	243	22.1	62	60.3	84	67.9		18.1	17.9	Operating speed	rpm	2900
Min.	0	/	/	45.8	54.6	45.2		/	9.33	Nominal flow	m³/h	0
Max.	257	/	/	64.1	95.6	78.4		/	21.4	Nominal head	m	0
										Inlet pressure	kPa	0
										Static head	m	0

Power datas refered to:

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project	Xylect-20945270	**Created by**		**Last update**	8/2/2023
Block	LNEE 50-250/30/P45RCS4	**Created on**	8/2/2023		

Program version: 69.0 - 15/05/2023 (Build 33)
Data version: 20/07/2023 09:39
User group(s): Xylem: United Kingdom - EXT

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Dimensions

Company name
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Close coupled

PLM 160 B14 18,5 kW

Electrical and dimensional data refer to IE3 motor

Dimensions [mm]

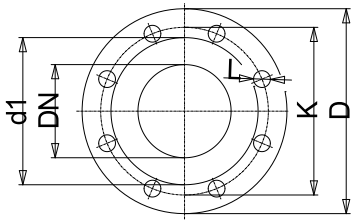
AD	240		
b1	168		
Bmax	408		
DND	50		
DNS	50		
e	111		
H	440		
h1	220		
h2	220		
L	705		
p	313		
x	108		

Weight

Total weight	**155 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

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