

LNEE 50-160/55/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				
11	Design	In-Line single head		Impeller Ø	Max. mm 165
12	Operating speed	2900 rpm	Stages 1		designed mm 154
13	Suction nozzle	DN 50 /	PN 16 /	EN1092-2	Min. mm 127
14	Discharge nozzle	DN 50 /	PN 16 /	EN1092-2	Flow
15	Max. casing pressure	kPa			
16	Max. working pressure	kPa	325		Max- m³/h 56
17	Impeller type	Radial impeller		Head	Min- m³/h 13
18	Head H(Q=0)	m	33		Nominal m
19	Max. shaft power	kW	5.5		at Qmax m 23.5
20	Pump weight	kg			at Qmin m 32.9
21	Total weight	kg	60.0		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	BQ7EGG-WA
25	Impeller	Stainless steel / AISI 304		Mechanical seal diameter	22 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 112 B14 5,5 kW			
45	Rated power	5.5 kW	Rated current	10.4 A	
46	Nominal speed	2880 rpm	Rated voltage	400 V	
47	Frame size	112	Service factor	1	
48	Weight	kg 55.8	Degree of protection	IP55	

Remarks					
49					
50					
50					
52					

LNEE 50-160/55/P25VCS4

Performance curve

Company name
Contact
Phone number
e-mail address

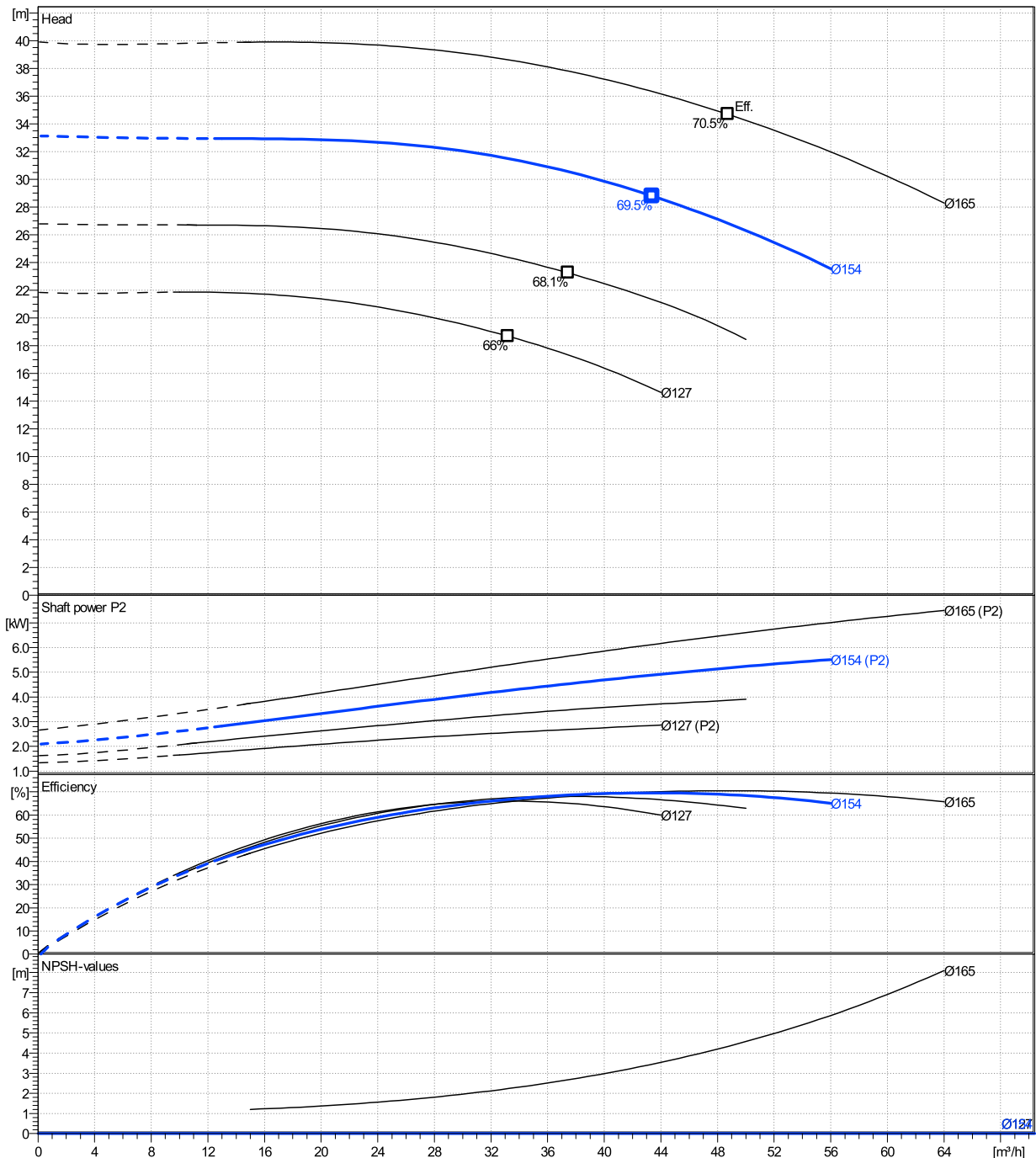
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm	2900		
actual	154	13	56	43.4	33.1	28.8		5.51	4.88	Nominal flow	m³/h	0	
Min.	0	/	/	33.2	21.8	18.7		/	2.56	Nominal head	m	0	
Max.	165	/	/	48.7	39.9	34.7		/	6.51	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 50-160/55/P25VCS4

Dimensions

Company name
Contact
Phone number
e-mail address

Close coupled

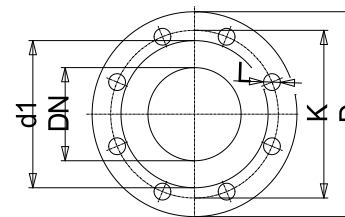
PLM 112 B14 5,5 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	168		
b1	128		
Bmax	286		
DND	50		
DNS	50		
e	116		
H	340		
h1	180		
h2	160		
L	569		
p	214		
x	96		

Weight	
Total weight	60 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-20944933	Created by		Last update	8/2/2023
Block	LNEE 50-160/11/P45RCS4	Created on	8/2/2023		