

Technical data



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	l/s 6.5	Max / Min Operating Temperature mech. Seal	°C 120 / -25
4	Nominal head	m 35.7	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	171	
11	Design	In-Line single head					designed	mm	171	
12	Operating speed	2900 rpm	Stages	1			Min.	mm	137	
13	Suction nozzle	DN 40	/	PN 16	/	EN1092-2	Flow	Nominal	l/s	6.7
14	Discharge nozzle	DN 40	/	PN 16	/	EN1092-2		Max-	l/s	13.3
15	Max. casing pressure	kPa						Min-	l/s	2.8
16	Max. working pressure	kPa	388.3				Head	Nominal	m	37.4
17	Impeller type	Radial impeller				at Qmax		m	18.1	
18	Head H(Q=0)	m	40					at Qmin	m	40.7
19	Max. shaft power	kW	4.9				Shaft power	kW	3.8	
20	Pump weight	kg				Efficiency	%	64.1		
21	Total weight	kg	56.0				NPSH 3%	m	3.1	

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)
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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 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

Performance curve

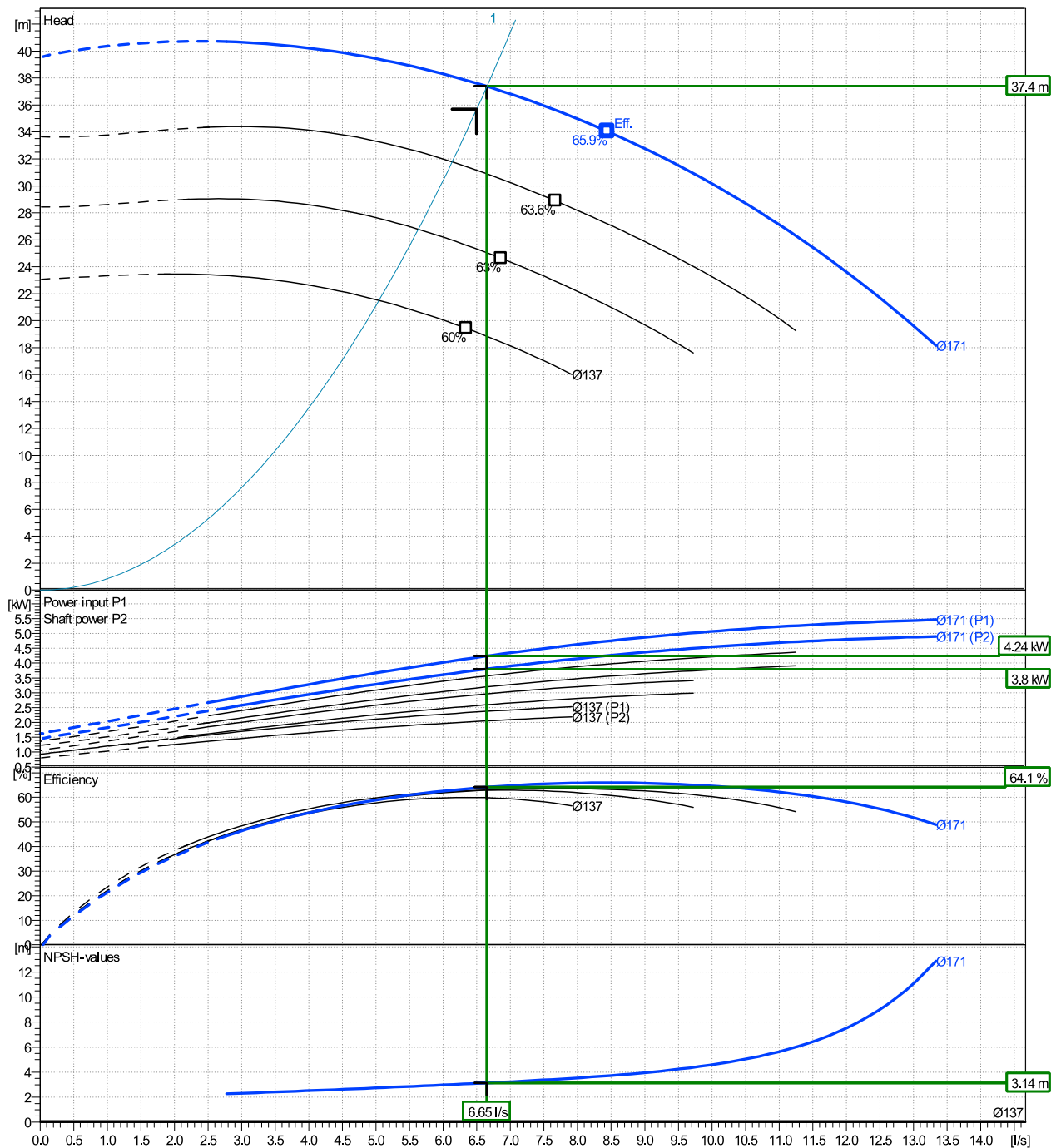

	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency		Hz
		Operating range Min. l/s	Max. l/s	η Max. l/s	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed rpm		
actual	171	2.78	13.3	8.44	39.6	34		4.9	4.25	Nominal flow	l/s	6.5
Min.	0	/	/	6.34	23.1	19.4		/	2.01	Nominal head	m	35.7
Max.	171	/	/	8.44	39.6	34		/	4.25	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 40-160/55/P25VCS4

Close coupled

PLM 112 B14 5,5 kW

Dimensions



Electrical and dimensional data refer to IE3 motor

Dimensions [mm]

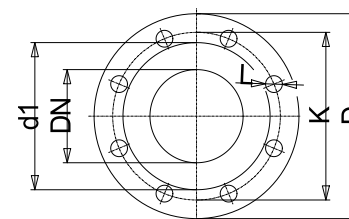
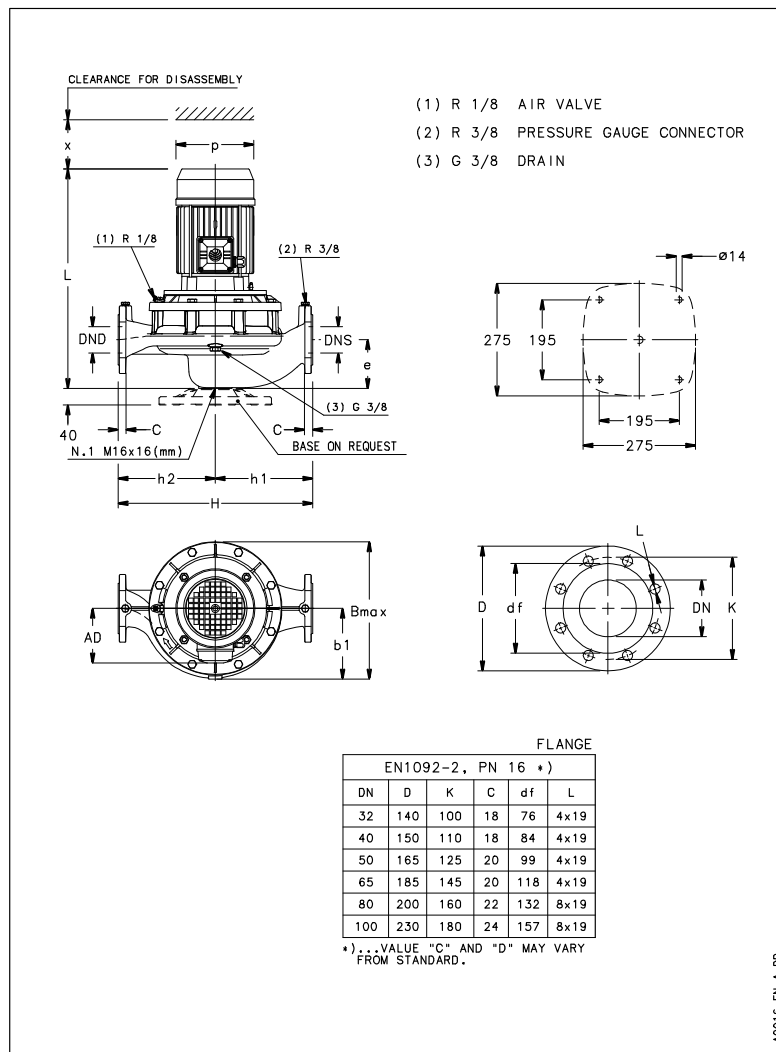
AD	168
b1	128
Bmax	288
DND	40
DNS	40
e	100
H	320
h1	160
h2	160
L	563
p	214
x	94

Weight

Total weight	56 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 40		DN 40	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	18	C	18
D	150	D	150
df	84	df	84
DN	40	DN	40
K	110	K	110
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

A0016-EN_A_D0