

LNES 40-160/55/P25VCS4

Technical data

Company name
Contact
Phone number
e-mail address

Operating data

1	Pumpe type	Single head pump	Fluid	Water
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	Impeller Ø	Max. mm 171
12	Operating speed	2900 rpm		designed mm 171
13	Suction nozzle	DN 40 / PN 16 / EN1092-2		Min. mm 137
14	Discharge nozzle	DN 40 / PN 16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 48
16	Max. working pressure	kPa 388.4		Min- m³/h 10
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 40		at Qmax m 18.1
19	Max. shaft power	kW 4.9		at Qmin m 40.7
20	Pump weight	kg	Shaft power	kW
21	Total weight	kg 65.0	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)
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Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara	
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency	
44	Type	PLM 132R B5 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	132R	Service factor 1
48	Weight	kg 37.6	Degree of protection IP55

Remarks

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Project	Xylect-20128214	Created by		Last update	12/21/2024
Block	LNES 40-160/07/X45RCS4	Created on	12/21/2024		

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Performance curve

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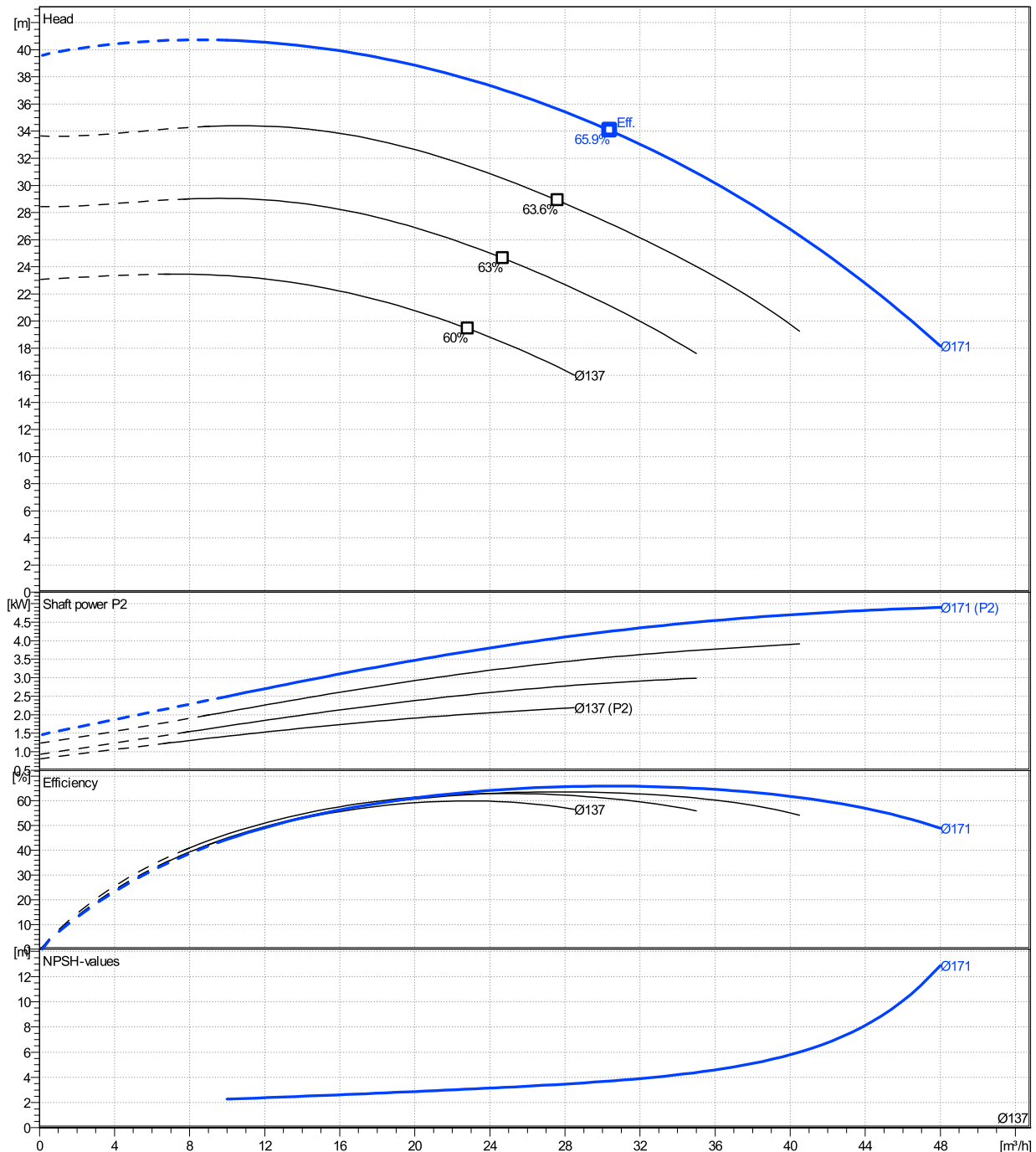
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	171	10	48	30.4	39.6	34		4.9	4.25	Nominal flow	m³/h	0
Min.	0	/	/	22.8	23.1	19.4		/	2.01	Nominal head	m	0
Max.	171	/	/	30.4	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 [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

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



LNES 40-160/55/P25VCS4

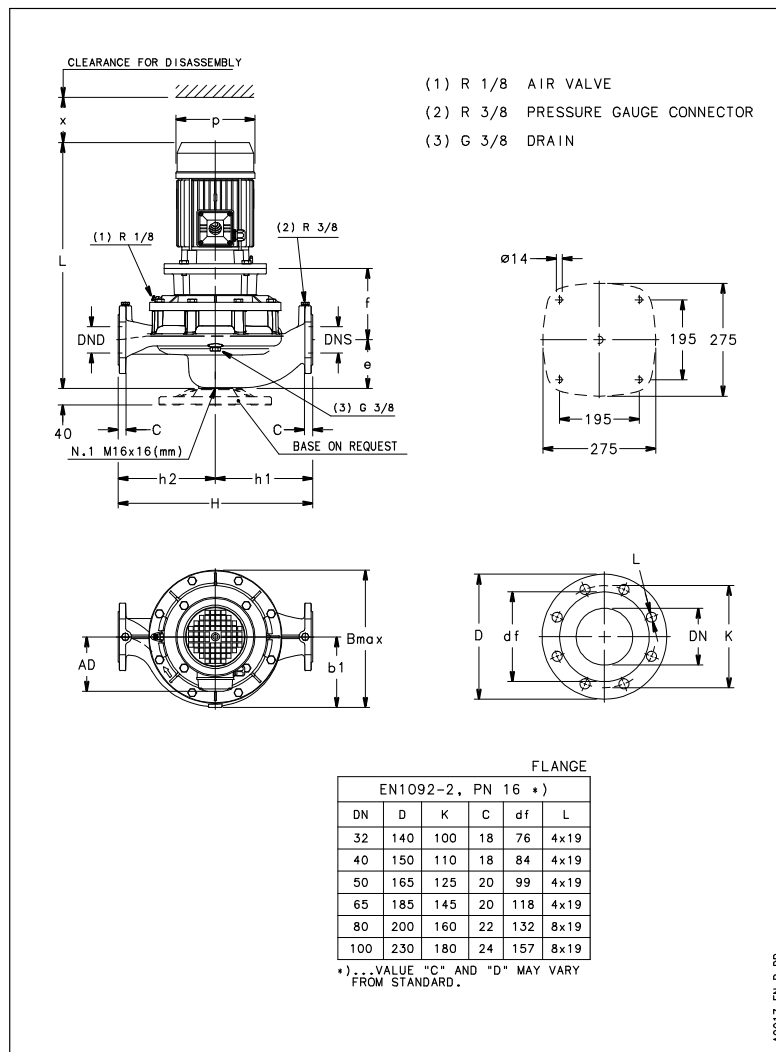
Dimensions

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Rigid coupling

PLM 132R B5 5,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

AD	168
b1	128
Bmax	249
DNd	40
DNs	40
e	100
f	202
H	320
h1	160
h2	160
L	677
p	214
x	94

Weight

Total weight	65 kg
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Connections

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

Dimensions and weight without obligation

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