

LNES 80-250/40/P45VCC4

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 258
12	Operating speed	1450 rpm		designed mm 215
13	Suction nozzle	DN 80 / PN 16 / EN1092-2		Min. mm 195
14	Discharge nozzle	DN 80 / PN 16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 90
16	Max. working pressure	kPa 153.6		Min- m³/h 15.6
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 16		at Qmax m 8.4
19	Max. shaft power	kW 3.5		at Qmin m 16.2
20	Pump weight	kg	Shaft power	kW
21	Total weight	kg 106.0	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 - Ø38mm	BQ7EGG-WA
25	Impeller	Cast iron / ASTM Class 30	Mechanical seal diameter	38 mm
26	Stub shaft	Stainless steel / AISI 431	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 Nut	Stainless steel	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller washer	Stainless steel	4. Springs	CrNiMo - Steel
30	Impeller key	Stainless steel / AISI 316Ti	5. Others	EPDM - WRAS
31	PLUG	Stainless steel / AISI 316Ti	Gaskets of the pump	Ethylene propylene rubber (EPDM)
32	GASKET	Asbestos-free synthetic fiber AFM 34		
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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 112 B5 4 kW		
45	Rated power	4 kW	Rated current	8.23 A
46	Nominal speed	1445 rpm	Rated voltage	400 V
47	Frame size	112	Service factor	1
48	Weight	kg 57.2	Degree of protection	IP55

Remarks

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Project	Xylect-20128214	Created by		Last update	12/21/2024
Block	LNES 80-250/75/P45VCC4	Created on	12/21/2024		

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Performance curve

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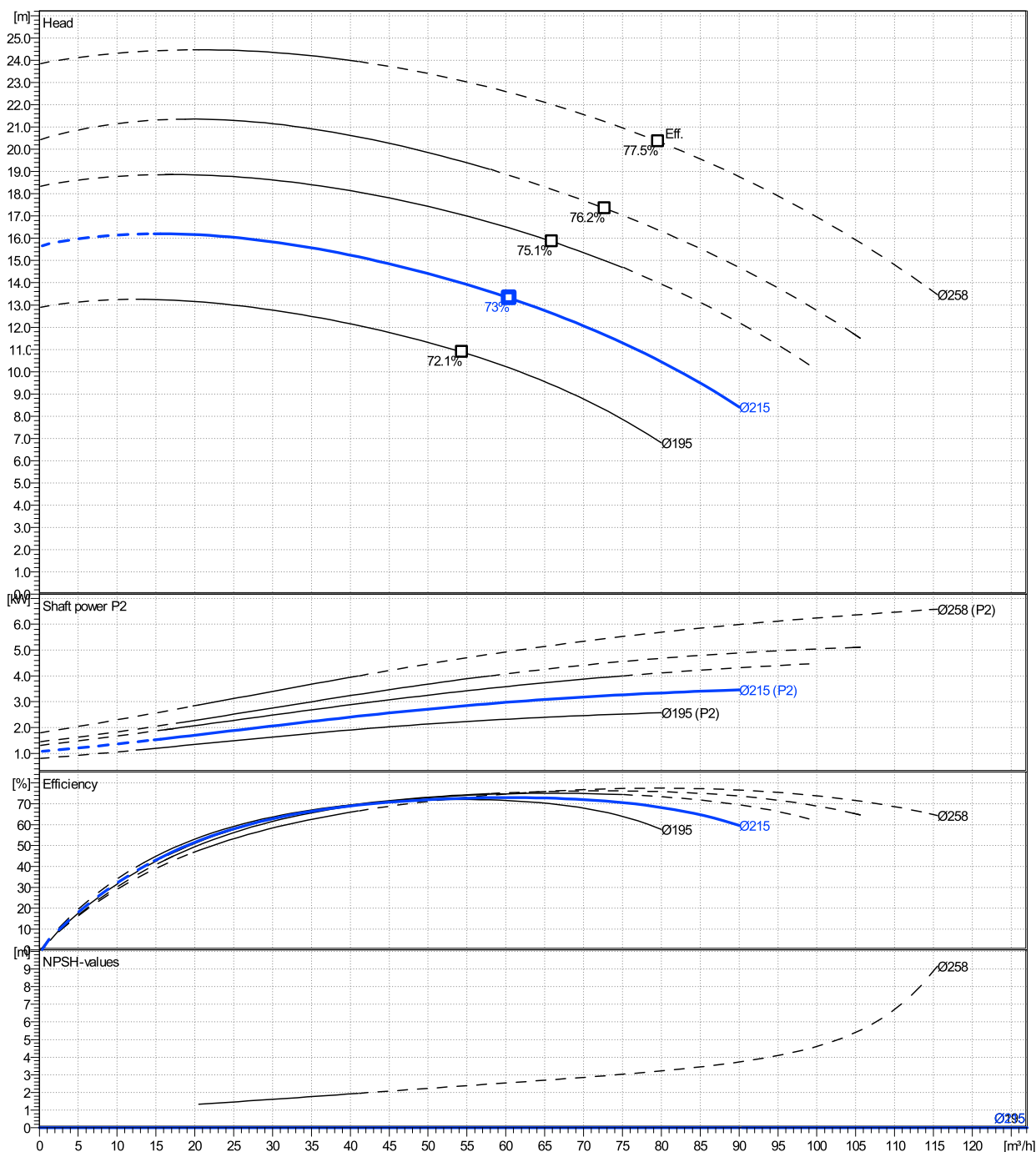
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	215	15.6	90	60.5	15.7	13.3		3.46	2.99	Nominal flow	m³/h	0
Min.	0	/	/	54.4	12.9	10.9		/	2.22	Nominal head	m	0
Max.	258	/	/	79.6	23.8	20.3		/	5.68	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



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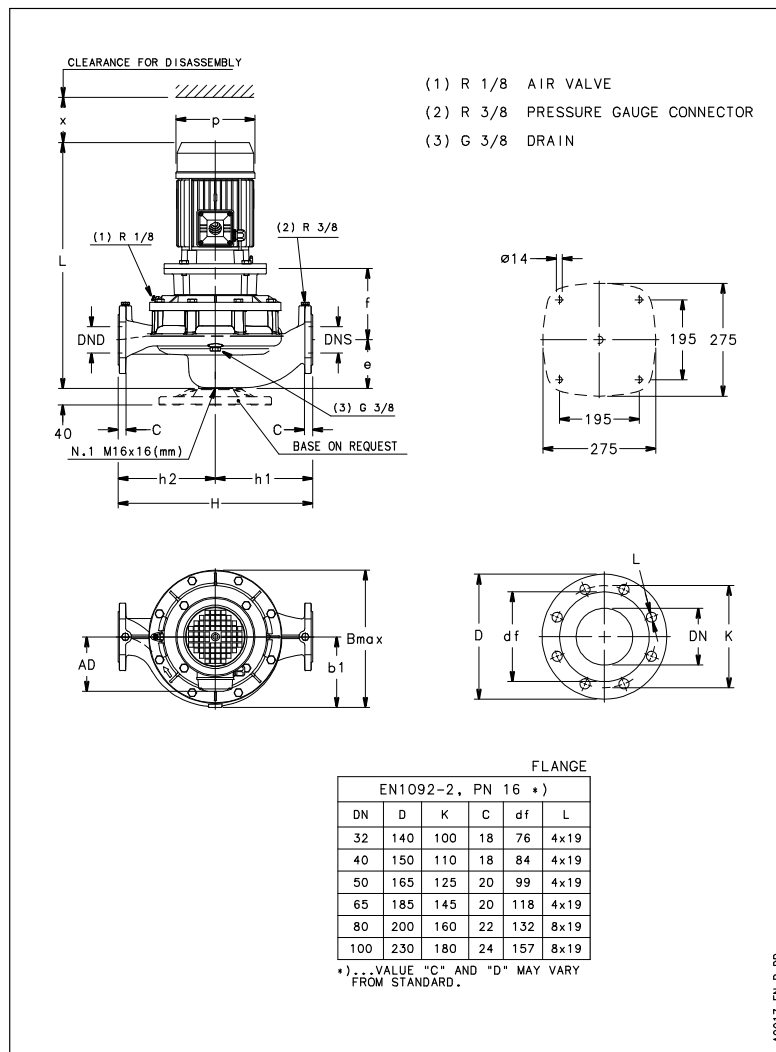
Dimensions

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Rigid coupling

PLM 112 B5 4 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

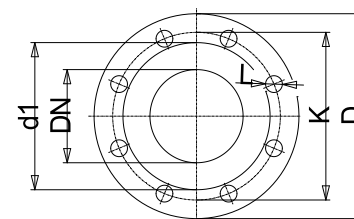
AD	168
b1	185
Bmax	353
DNd	80
DNs	80
e	132
f	183
H	500
h1	265
h2	235
L	697
p	214
x	130

Weight

Total weight	106 kg
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Connections

Suction nozzle	Discharge nozzle
DN 80	DN 80
PN 16	PN 16
EN1092-2	EN1092-2
C	22
D	200
df	132
DN	80
K	160
L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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