

LNES 80-250/220/P25VCC4

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		Impeller Ø	Max. mm 229
12	Operating speed	2900 rpm	Stages 1		designed mm 195
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 152
16	Max. working pressure	kPa	506.3	Min- m³/h 26.9	
17	Impeller type	Radial impeller		Head	Nominal m
18	Head H(Q=0)	m	52		at Qmax m 32.3
19	Max. shaft power	kW	20.5	Shaft power kW	at Qmin m 53.5
20	Pump weight	kg		Efficiency %	
21	Total weight	kg	180.0	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 AFM34			
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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 180R B5 22 kW			
45	Rated power	22 kW	Rated current	42.2 A	
46	Nominal speed	2950 rpm	Rated voltage	400 V	
47	Frame size	180R	Service factor	1	
48	Weight	kg 121.2	Degree of protection	IP55	

Remarks					
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Project	Xylect-20945534	Created by		Last update	8/2/2023
Block	LNES 80-250/75/P45VCC4	Created on	8/2/2023		

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Performance curve

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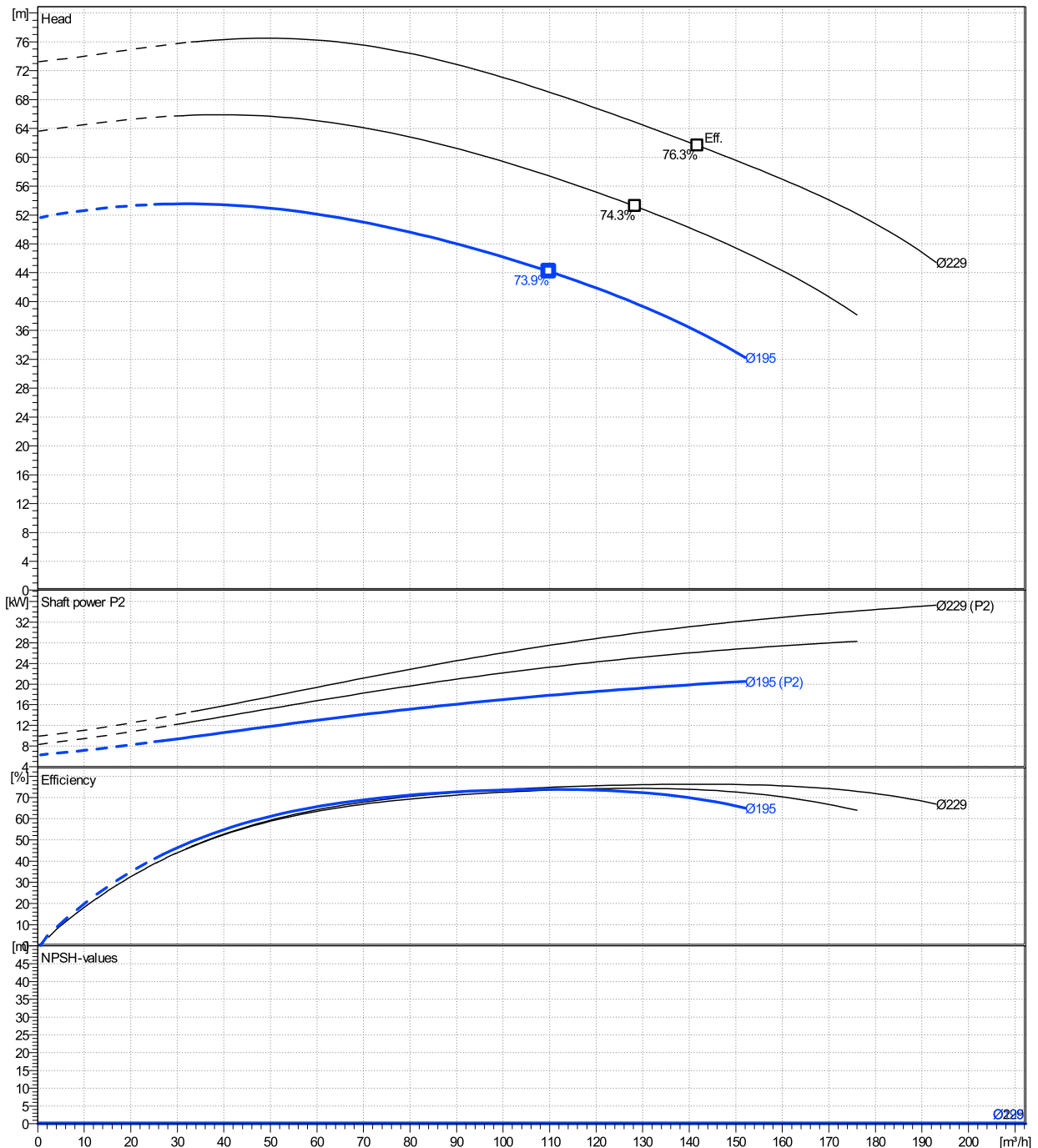
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	195	26.9	152	110	51.6	44.2		20.5	17.8	Nominal flow	m³/h	0
Min.	0	/	/	110	51.6	44.2		/	17.8	Nominal head	m	0
Max.	229	/	/	142	73.3	61.6		/	31.3	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



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Dimensions

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Rigid coupling

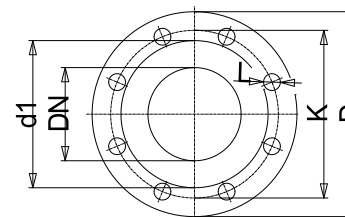
PLM 180R B5 22 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	240		
b1	185		
Bmax	353		
DNd	80		
DNs	80		
e	132		
f	240		
H	500		
h1	265		
h2	235		
L	866		
p	313		
x	130		

Weight	
Total weight	180 kg

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



Value C, D may vary from Standard

Dimensions and weight without obligation

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