

LNES 100-160/220/P25VCC4**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 177
12	Operating speed	2900 rpm	Stages 1		designed	mm 177
13	Suction nozzle	DN 100 /	PN 16 /		Min.	mm 144
14	Discharge nozzle	DN 100 /	PN 16 /	Flow	Nominal	m³/h
15	Max. casing pressure	kPa			Max-	m³/h 283.2
16	Max. working pressure	kPa	408.2		Min-	m³/h 60
17	Impeller type	Radial impeller		Head	Nominal	m
18	Head H(Q=0)	m	42		at Qmax	m 15.4
19	Max. shaft power	kW	20.7		at Qmin	m 39.7
20	Pump weight	kg		Shaft power	kW	
21	Total weight	kg	193.0	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 - Ø28mm	BQ7EGG-WA	
25	Impeller	Cast iron / ASTM Class 30		Mechanical seal diameter	28 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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52	

LNES 100-160/220/P25VCC4

Performance curve

Company name
Contact
Phone number
e-mail address

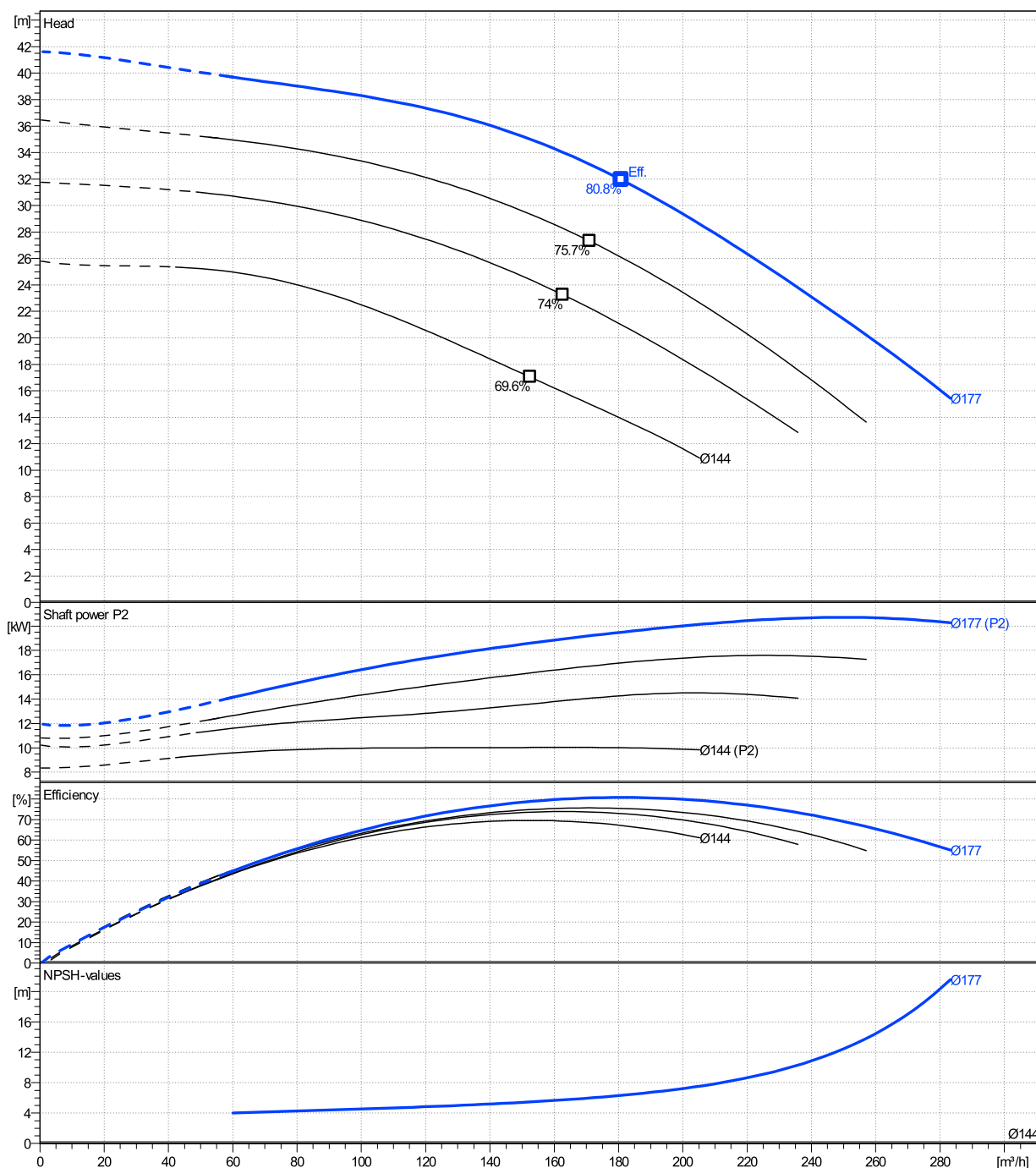
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	50
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	177	60	283	181	41.6	31.9		20.7	19.5	Nominal flow	m³/h	0
Min.	0	/	/	153	25.8	17		/	10	Nominal head	m	0
Max.	177	/	/	181	41.6	31.9		/	19.5	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 100-160/220/P25VCC4

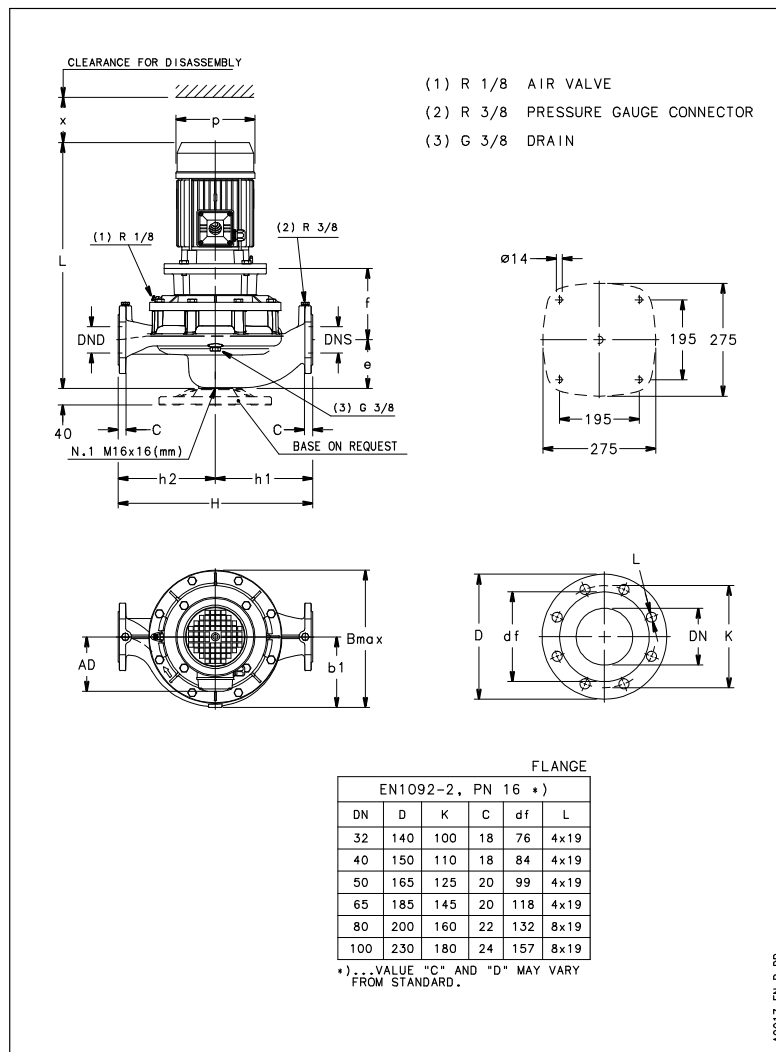
Dimensions

Company name
Contact
Phone number
e-mail address

Rigid coupling

PLM 180R B5 22 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

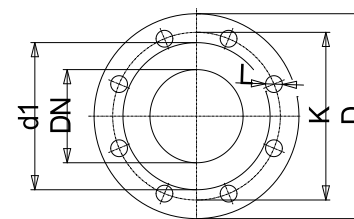
AD	240
b1	171
Bmax	347
DNd	100
DNs	100
e	140
f	240
H	500
h1	260
h2	240
L	874
p	313
x	123

Weight

Total weight	193 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 100		DN 100	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	24	C	24
D	230	D	230
df	157	df	157
DN	100	DN	100
K	180	K	180
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

Project	Xylect-20128214
Block	LNES 100-160/30/P45RCC4

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