

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 15	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					
11	Design	In-Line single head				
12	Operating speed	2900 rpm		Stages 1		
13	Suction nozzle	DN 65 /		PN 16 / EN1092-2		
14	Discharge nozzle	DN 65 /		PN 16 / EN1092-2		
15	Max. casing pressure	kPa				
16	Max. working pressure	kPa		421.6		
17	Impeller type			Radial impeller		
18	Head H(Q=0)	m		43		
19	Max. shaft power	kW		10.8		
20	Pump weight	kg				
21	Total weight	kg		100.0		

Impeller Ø	Max.	mm	176
	designed	mm	176
	Min.	mm	144
Flow	Nominal	l/s	15.5
	Max-	l/s	32.2
	Min-	l/s	7.2
Head	Nominal	m	38
	at Qmax	m	18
	at Qmin	m	41
Shaft power		kW	8.4
Efficiency		%	68.2
NPSH 3%		m	2.8

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 132 B14 11 kW	
45	Rated power	11 kW	Rated current 20.2 A
46	Nominal speed	2910 rpm	Rated voltage 400 V
47	Frame size	132	Service factor 1
48	Weight	kg 102.0	Degree of protection IP55

Performance curve

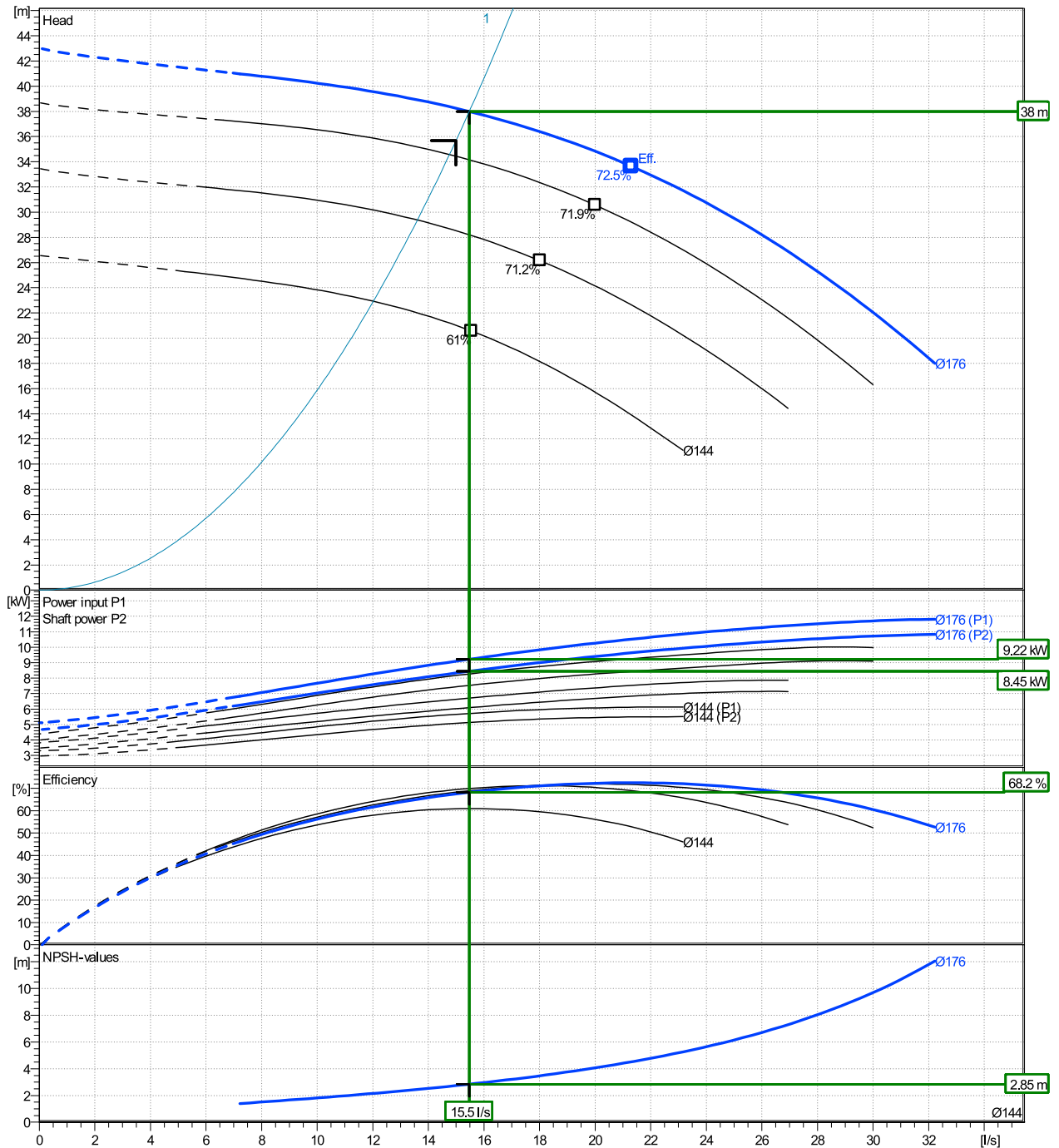

	Ø	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range	Min.	Max.	η	H(Q=0)	η	P2(Q=0)	Max.	η	Operating speed	rpm
	mm	l/s	l/s	l/s	m	m	kW	kW	kW	Nominal flow	l/s	15
actual	176	7.22	32.2	21.3	43	33.6		10.8	9.64	Nominal head	m	35.7
Min.	0	/	/	15.6	26.6	20.6		/	5.14	Inlet pressure	kPa	0
Max.	176	/	/	21.3	43	33.6		/	9.64	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 65-160/110/P25VCS4

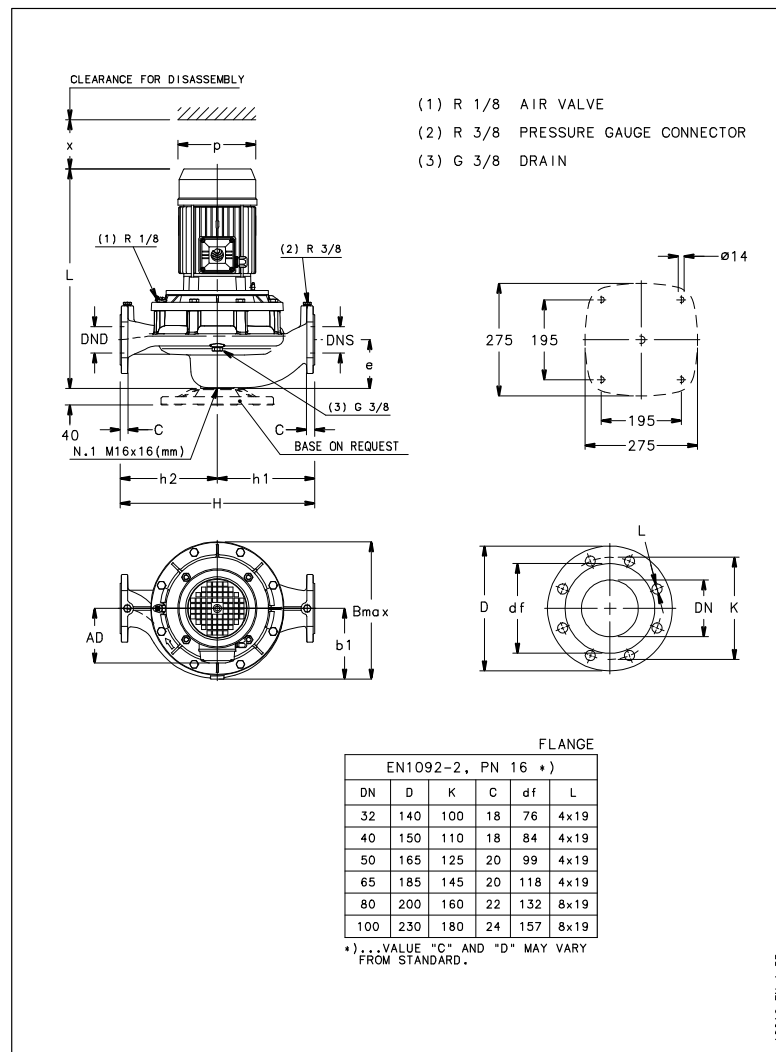
Dimensions

Close coupled

PLM 132 B14 11 kW



Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

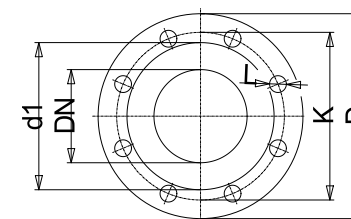
AD	191
b1	148
Bmax	339
DND	65
DNS	65
e	105
H	360
h1	190
h2	170
L	635
p	256
x	94

Weight

Total weight	100 kg
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Connections

Suction nozzle		Discharge nozzle	
DN 65		DN 65	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	20	C	20
D	185	D	185
df	118	df	118
DN	65	DN	65
K	145	K	145
L	4 x 19	L	4 x 19



Value C, D may vary from Standard