

LNES 50-160/11/P45RCS4

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 165
12	Operating speed	1450 rpm		designed mm 165
13	Suction nozzle	DN 50 / PN 16 / EN1092-2		Min. mm 139
14	Discharge nozzle	DN 50 / PN 16 / EN1092-2	Flow	Nominal m³/h
15	Max. casing pressure	kPa		Max- m³/h 33.3
16	Max. working pressure	kPa 97		Min- m³/h 7.5
17	Impeller type	Radial impeller	Head	Nominal m
18	Head H(Q=0)	m 9.9		at Qmax m 6.2
19	Max. shaft power	kW .9		at Qmin m 9.8
20	Pump weight	kg	Shaft power	kW
21	Total weight	kg 46.0	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 90 B5 1,1 kW	
45	Rated power	1.1 kW	Rated current 4.59 A
46	Nominal speed	1435 rpm	Rated voltage 230 V
47	Frame size	90	Service factor 1
48	Weight	kg 19.4	Degree of protection IP55

Remarks

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Performance curve

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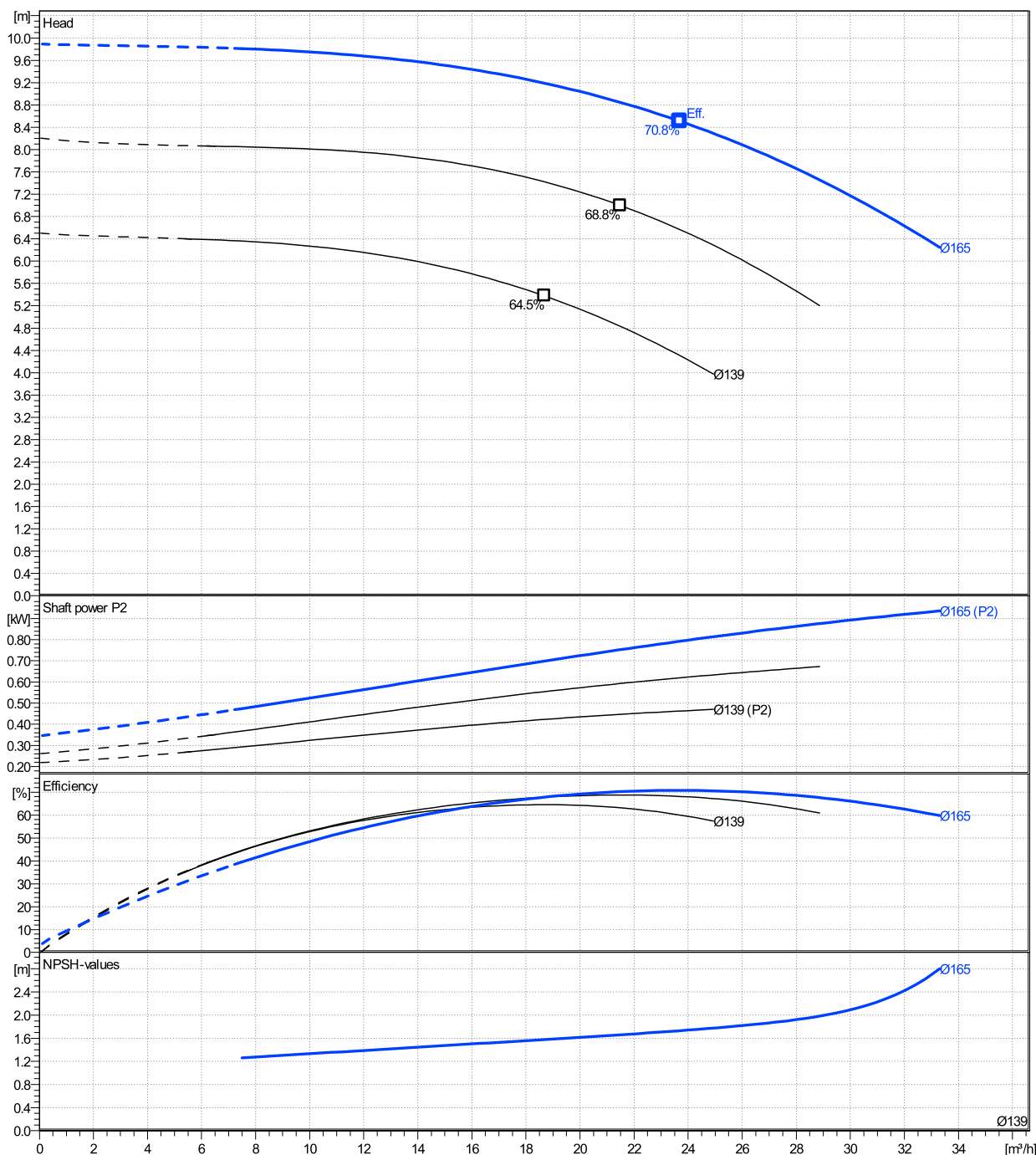
	Ø mm	Pump capacity Operating range Min. Max. η m³/h m³/h m³/h			Pump head H(Q=0) η m m		Shaft power P2 P2(Q=0) Max. η kW kW kW			Frequency Hz 50		
		Min. m³/h	Max. m³/h	Max. η m³/h	H(Q=0) m	η m	P2(Q=0) kW	Max. kW	η kW	Operating speed rpm	1450	
actual	165	7.5	33.3	23.7	9.89	8.51		0.936	0.792	Nominal flow	m³/h	0
Min.	0	/	/	18.7	6.5	5.38		/	0.423	Nominal head	m	0
Max.	165	/	/	23.7	9.89	8.51		/	0.792	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 50-160/11/P45RCS4

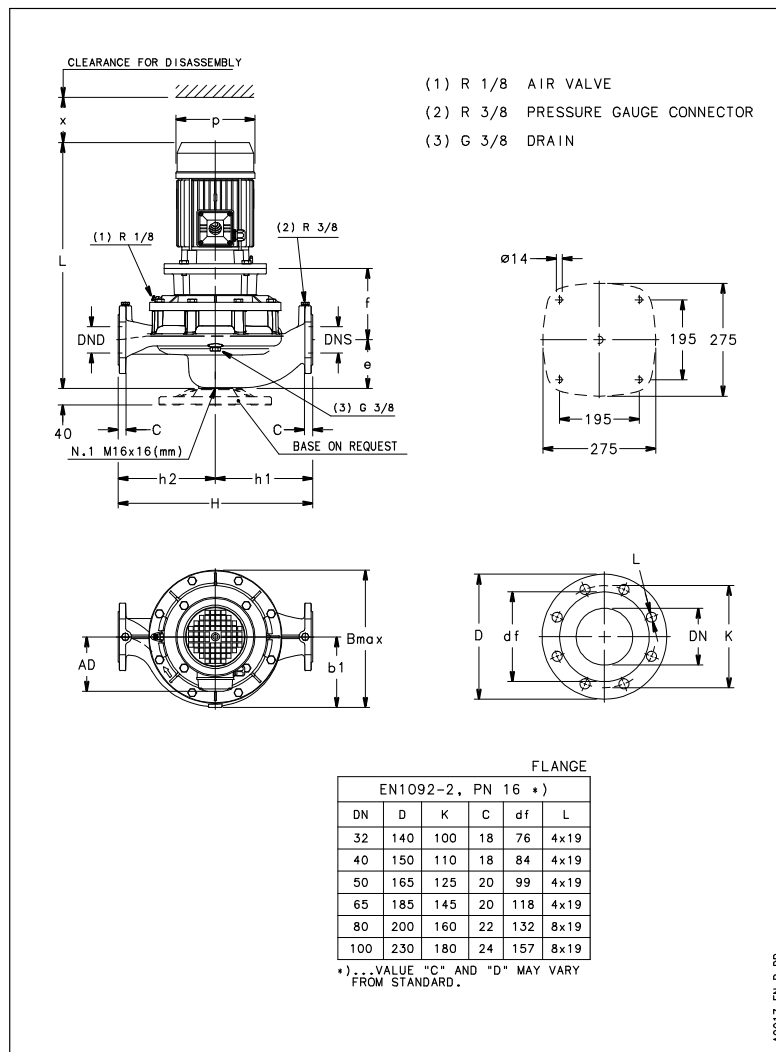
Dimensions

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Rigid coupling

PLM 90 B5 1,1 kW

Electrical and dimensional data refer to IE3 motor



Dimensions [mm]

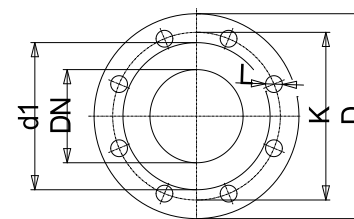
AD	134
b1	128
Bmax	252
DNd	50
DNs	50
e	116
f	155
H	340
h1	180
h2	160
L	569
p	174
x	96

Weight

Total weight	46 kg
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Connections

Suction nozzle	Discharge nozzle
DN 50	DN 50
PN 16	PN 16
EN1092-2	EN1092-2
C	20
D	165
df	99
DN	50
K	125
L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

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