

LNEE 40-160/40/P25VCS4

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	m ³ /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/m ³ 1000
6	Inlet pressure	kPa 0	Kin. viscosity at t A	mm ² /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 40 /	PN 16 /	EN1092-2
14	Discharge nozzle	DN 40 /	PN 16 /	EN1092-2
15	Max. casing pressure	kPa		
16	Max. working pressure	kPa	330.1	
17	Impeller type	Radial impeller		
18	Head H(Q=0)	m	34	
19	Max. shaft power	kW	3.9	
20	Pump weight	kg		
21	Total weight	kg	47.0	

Parameter	Value	Unit
Impeller Ø	Max. designed	mm 171
	Min.	mm 160
	Nominal	mm 137
Flow	Max-	m ³ /h 40.5
	Min-	m ³ /h 9.1
Head	Nominal	m
	at Qmax	m 19.3
	at Qmin	m 34.3
Shaft power		kW
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		
44	Type	PLM 112R B14 4 kW		
45	Rated power	4 kW	Rated current	7.75 A
46	Nominal speed	2885 rpm	Rated voltage	400 V
47	Frame size	112R	Service factor	1
48	Weight	kg 37.6	Degree of protection	IP55

Remarks				
49				
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Performance curve

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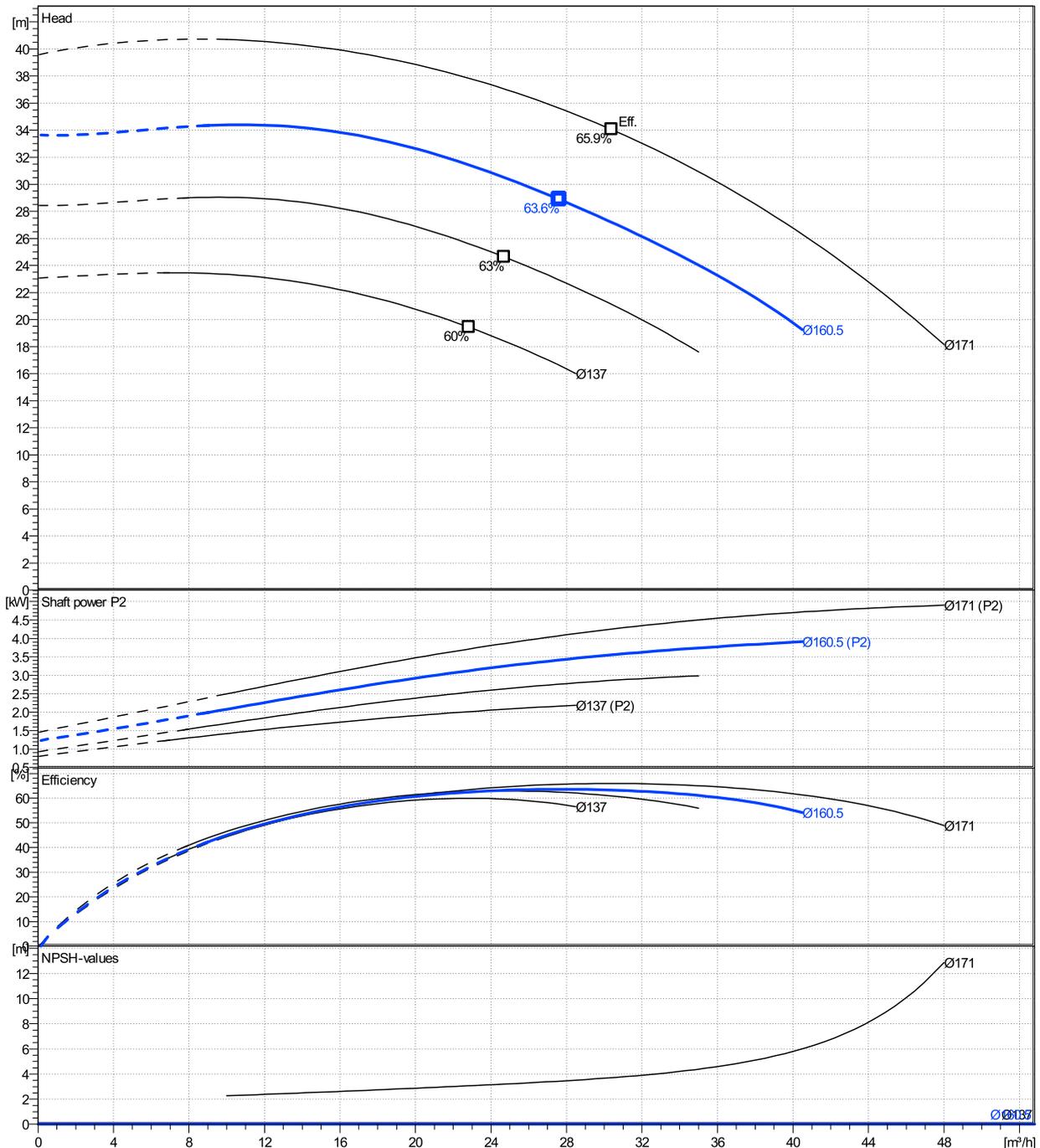
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	50
		Operating range Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	2900
actual	160	9.06	40.5	27.6	33.7	28.9		3.91	3.41	Nominal flow	m³/h	0
Min.	0	/	/	22.8	23.1	19.4		/	2.01	Nominal head	m	0
Max.	171	/	/	30.4	39.6	34		/	4.25	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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Close coupled

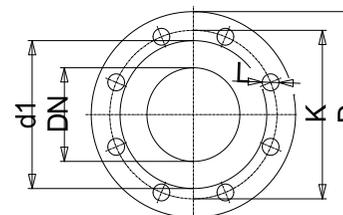
PLM 112R B14 4 kW

Electrical and dimensional data refer to IE3 motor

Dimensions		[mm]	
AD	154		
b1	128		
Bmax	274		
DND	40		
DNS	40		
e	100		
H	320		
h1	160		
h2	160		
L	529		
p	197		
x	94		

Weight	
Total weight	47 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 40		DN 40	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	18	C	18
D	150	D	150
df	84	df	84
DN	40	DN	40
K	110	K	110
L	4 x 19	L	4 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

Project	Xylect-20944784	Created by		Last update	8/2/2023
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