

LNTE 50-200/55/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	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	2 poles motor					Impeller Ø	Max.	mm	199	
11	Design	In-Line single twin head						designed	mm	165	
12	Operating speed	2900 rpm		Stages		1		Min.	mm	165	
13	Suction nozzle	DN 50 /		PN 16 /		EN1092-2	Flow	Nominal	m³/h		
14	Discharge nozzle	DN 50 /		PN 16 /		EN1092-2		Max-	m³/h	41	
15	Max. casing pressure	kPa						Min-	m³/h	11.3	
16	Max. working pressure	kPa		352.7			Head	Nominal	m		
17	Impeller type			Radial impeller				at Qmax	m	28.6	
18	Head H(Q=0)	m		36				at Qmin	m	36.5	
19	Max. shaft power	kW		5.5			Shaft power	kW			
20	Pump weight	kg					Efficiency	%			
21	Total weight	kg		153.0			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 - Ø22mm
25	Impeller	Stainless steel / AISI 304		Mechanical seal diameter
26	Stub shaft	Stainless steel / AISI 316L		22 mm
27	Wear ring	Stainless steel / AISI 304		1. Rotating ring
28	Impeller lock nut and washer	Stainless steel / AISI 304		Carbon graphite resin impregnated
29	Impeller key	Stainless steel / AISI 316L		2. Stationary ring
30	Fill and draing plugs	Nickel-plated brass		SiC, silicon carbide, sintered press.less
31				3. Secondary seal
32				Ethylene propylene rubber (EPDM)
33				4. Springs
34				CrNiMo - Steel
35				5. Others
36				EPDM - WRAS
37				Gaskets of the pump
38				Ethylene propylene rubber (EPDM)
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara			
43	Specific design	IE3 3ph Flange Motor			
44	Type	PLM 112 B14 5,5 kW			
45	Rated power	5.5 kW	Rated current	10.4 A	
46	Nominal speed	2880 rpm	Rated voltage	400 V	
47	Frame size	112	Service factor	1	
48	Weight	kg 55.8	Degree of protection	IP55	

Remarks

49	
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52	

Project	Xylect-20969277	Created by		Last update	8/8/2023
Block	LNTE 50-200/110/P25VCS4	Created on	8/8/2023		

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Performance curve

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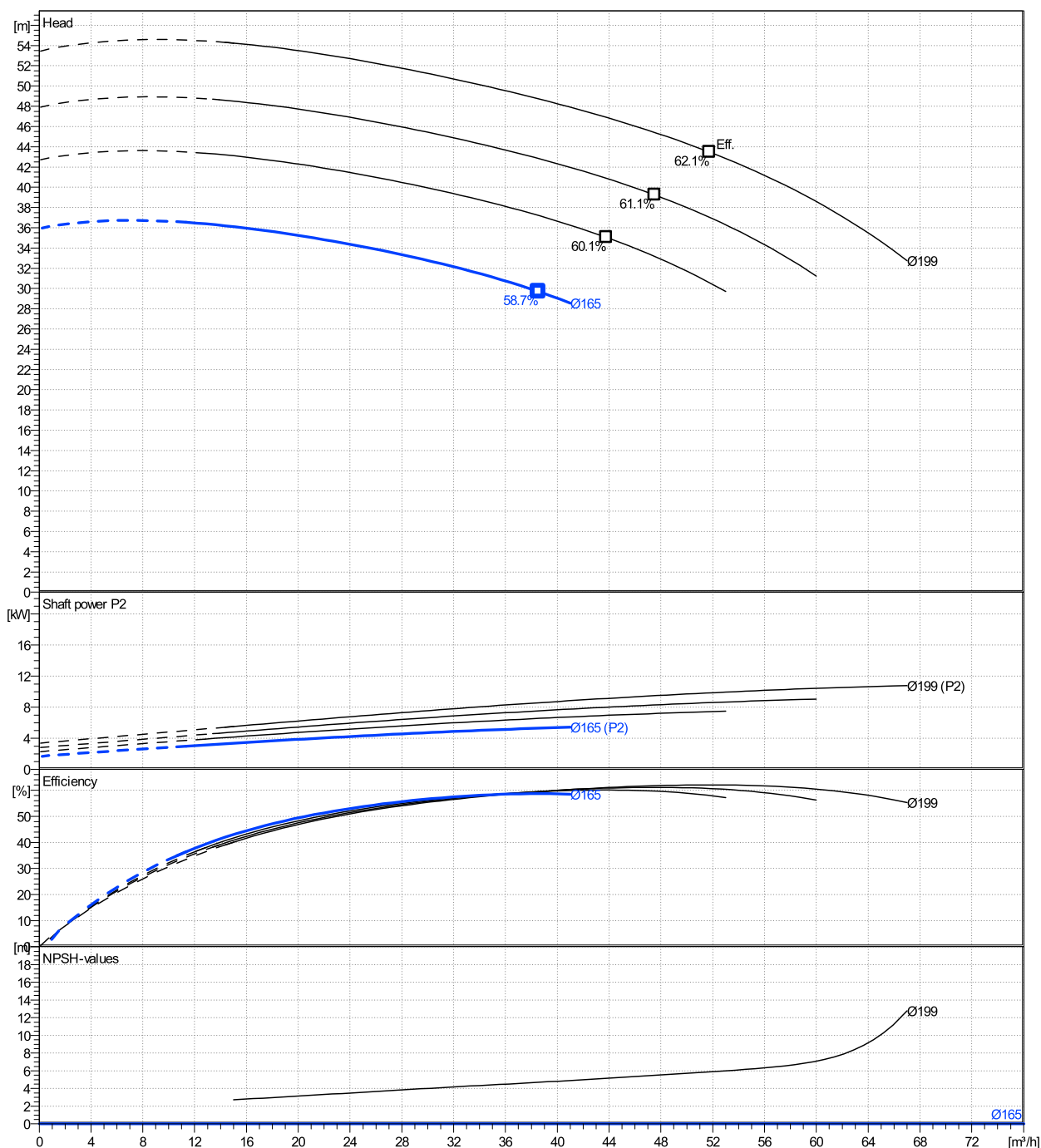
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency		Hz
		Min. m³/h	Max. m³/h	η Max. m³/h	H(Q=0) m	η Max. m	P2(Q=0) kW	Max. kW	η Max. kW	Operating speed	rpm	
actual	165	11.3	41	38.5	36	29.7		5.45	5.31	Nominal flow	m³/h	0
Min.	0	/	/	38.5	36	29.7		/	5.31	Nominal head	m	0
Max.	199	/	/	51.8	53.5	43.5		/	9.85	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



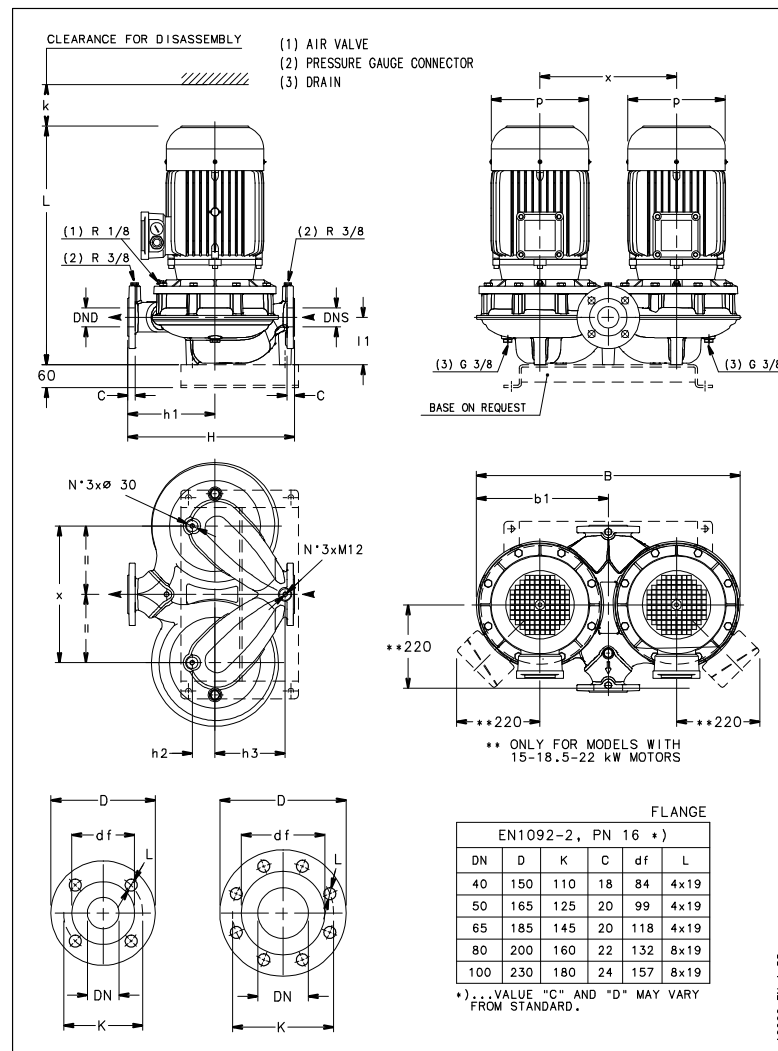
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Dimensions

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Close coupled
2 poles motor
PLM 112 B14 5,5 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[mm]	
B	745		
b1	372.5		
DND	50		
DNS	50		
H	440		
h1	230		
h2	60		
h3	185		
k	108		
L	568		
l1	115		
p	214		
x	410		

Weight

Total weight 153 kg

Connections

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

Dimensions and weight without obligation

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