

# LNTE 100-160/220/P25VCC4

## 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 <sup>3</sup> /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 <sup>3</sup>	1000
6	Inlet pressure	kPa	0	Kin. viscosity at t A	mm <sup>2</sup> /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					
11	Design	In-Line single twin head				Impeller Ø	
12	Operating speed	2900 rpm	Stages	1		Max. mm 177	
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-2		designed mm 177	
14	Discharge nozzle	DN 100 /	PN 16 /	EN1092-2		Min. mm 144	
15	Max. casing pressure	kPa				Flow	
16	Max. working pressure	kPa	403.9				Nominal m <sup>3</sup> /h
17	Impeller type	Radial impeller				Head	
18	Head H(Q=0)	m	41				at Qmax m 23
19	Max. shaft power	kW	21.8				at Qmin m 39.9
20	Pump weight	kg				Shaft power kW	
21	Total weight	kg	357.0			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 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 draing 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 160 B14 22 kW			
45	Rated power	22 kW	Rated current	42.2 A	
46	Nominal speed	2940 rpm	Rated voltage	400 V	
47	Frame size	160	Service factor	1	
48	Weight	kg 18.0	Degree of protection	IP55	

Remarks					
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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	177	50	222	163	41.2	32	21.8	19.6	72.5%	Nominal flow	m³/h	0	
Min.	0	/	/	112	24.7	20.4	/	8.77	71.4%	Nominal head	m	0	
Max.	177	/	/	163	41.2	32	/	19.6	70.4%	Inlet pressure	kPa	0	
									68.3%	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



