LOWARA
a xylem brand

LNES 125-315/220/L46UCC4

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		°F	39.2
3	Nominal flow	US g.p.m.	0	Max / Min Operating Temperature mech. Seal		°F	120 / -25
4	Nominal head	ft	0	pH-value at t A			7
5	Static head	ft	0	Density at t A		lb/ft³	62.4
6	Inlet pressure	psi	0	Kin. viscosity at t A		ft²/s	1.689E-5
7	Environmental temperature	°F	68	Vapor pressure at t A		psi	14.5
8	Available system NPSH	ft	0	Altitude			0

Pump data

9	Lubrication	32					
10	Execution	with support foot		Impeller Ø	Max.	inch	11 3/16
11	Design	In-line			designed	inch	10 1/4
12	Operating speed	1770 rpm	Stages 1		Min.	inch	10 1/4
13	Suction nozzle	DN125 / PN10/16 / EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN125 / PN10/16 / EN1092-2			Max-	US g.p.m.	1276.8
15	Max. casing pressure	psi	232		Min-	US g.p.m.	123.3
16	Max. working pressure	psi	47.8	Head	Nominal	ft	
17	Impeller type		Radial impeller		at Qmax	ft	55.6
18	Head H(Q=0)	ft	110		at Qmin	ft	110.2
19	Max. shaft power	hp	26.8	Shaft power		hp	
20	Pump weight	kg		Efficiency		%	
21	Total weight	lb	639.8	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Impeller	Cast iron, 0.6020	Single mechanical seal, without shaft sleeve	
24	Casing	Cast iron, 0.6025	eMG12 - Ø38mm	BQ7EGG-WA
25	casing cover	Cast iron, 0.6025	Mechanical seal diameter	1 1/2 inch
26	Wear ring	stainless steel, 1.4301 (1.4408)	1. Rotating ring	Carbon graphite resin impregnated
27	Shaft	Stainless steel, 1.4057	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	O-ring	EPDM	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Bearing frame	Cast iron, 0.6025	4. Springs	CrNiMo - Steel
30			5. Others	EPDM - WRAS
31			Gaskets of the pump	Ethylene propylene rubber (EPDM)
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				

Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor - Premium Efficiency		
44	Type	3MAS 180 L B5 22 kW		
45	Rated power	29.502 hp	Rated current	43.6 A
46	Nominal speed	1758 rpm	Rated voltage	380 V
47	Frame size	180 L	Service factor	1
48	Weight lb	339.9	Degree of protection	IP55

Remarks

49	
50	
50	
52	

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Performance curve

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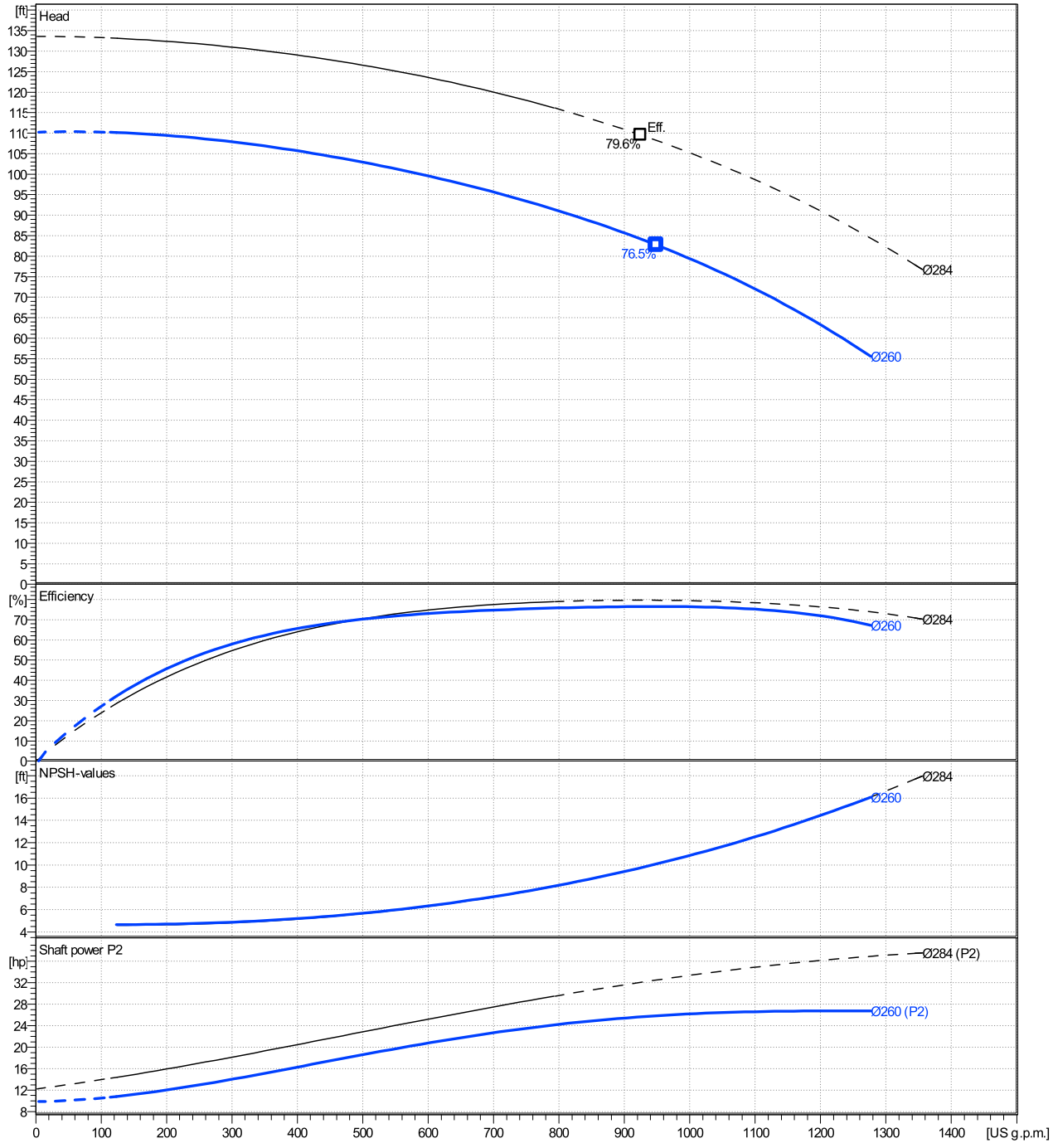
	Ø	Pump capacity Operating range Min.	Max.	η Max.	Pump head H(Q=0)	η Max.	Shaft power P2 P2(Q=0)	Max.	η Max.			
	mm	US g.p.m.	US g.p.m.	US g.p.m.	ft	ft	hp	hp	hp			
actual	10 1/4	123	1280	949	110	82.7		26.8	25.9	Frequency	Hz	60
Min.	0	/	/	949	110	82.7		/	25.9	Operating speed	rpm	1770
Max.	11 3/16	/	/	925	134	110		/	32.1	Nominal flow	US g.p.m.	0
										Nominal head	ft	0
										Inlet pressure	psi	0
										Static head	ft	0

Power datas refered to:

Water [100%] ; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

MEI: >=0,70 - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project	Xylect-20070985		**Created by**		**Last update** 1/19/2025
Block	LNES 125-315/300/L46UCC4		**Created on**	1/19/2025	

Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 18/01/2025 09:55
User group(s): Xylem: United Kingdom - EXT

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Dimensions

Company name
Contact
Phone number
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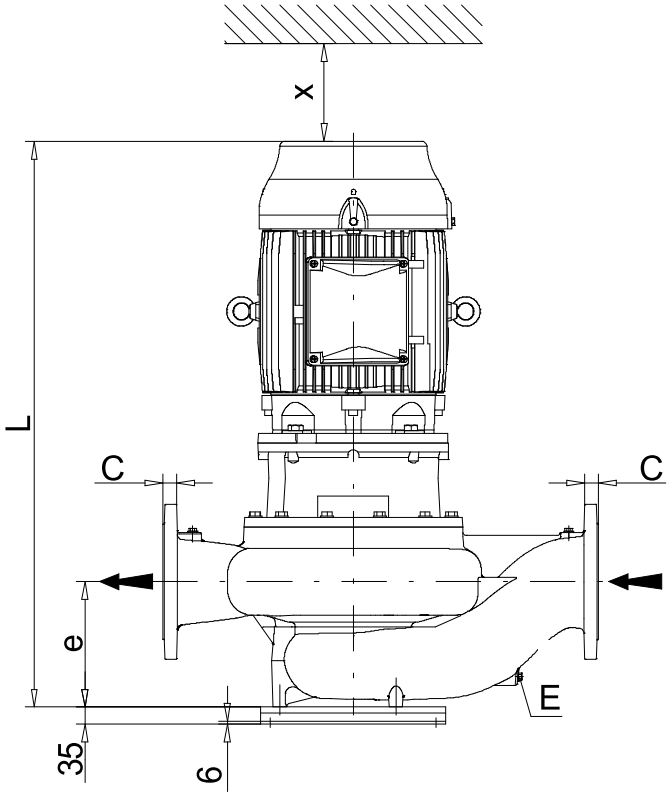
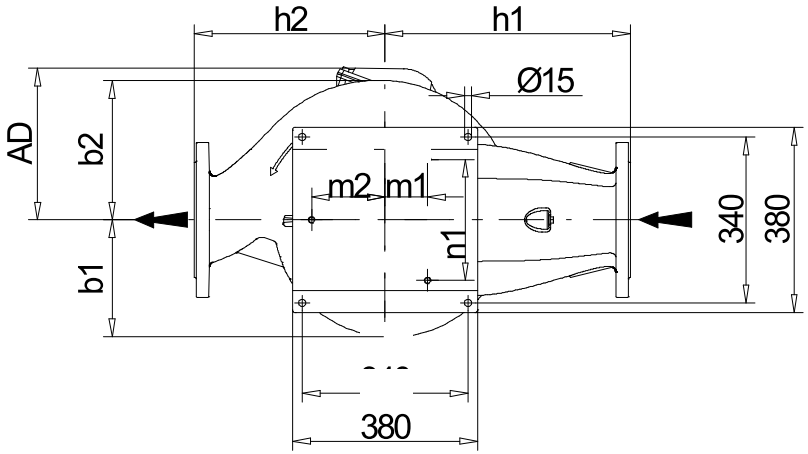
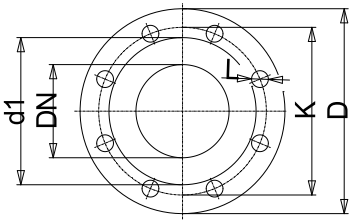
Rigid coupling
with support foot
3MAS 180 L B5 22 kW





ssure gauge connector
E....Drain



Value C, D may vary from Standard

Electrical and dimensional data refer to IE3 motor

Dimensions	[inch]
AD	$10^{3}/_{8}$
b1	$8^{3}/_{4}$
b2	$10^{13}/_{16}$
DNd	$4^{15}/_{16}$
DNs	$4^{15}/_{16}$
e	$9^{1}/_{16}$
E	3/8"
f	$9^{5}/_{8}$
H	$31^{1}/_{2}$
h1	$17^{11}/_{16}$
h2	$13^{3}/_{4}$
L	$41^{15}/_{16}$
m1	$2^{1}/_{2}$
m2	$4^{5}/_{16}$
n1	$7^{1}/_{16}$
PM1	1/4"
PM2	3/8"
Type	B
x	$5^{1}/_{2}$

Weight	
Total weight	**290.2 kg**

Connections			
Suction nozzle		**Discharge nozzle**	
DN125		**DN125**	
PN10/16		**PN10/16**	
EN1092-2		**EN1092-2**	
C	$1^{1}/_{32}$	C	$1^{1}/_{32}$
D	$10^{1}/_{16}$	D	$10^{1}/_{16}$
d1	$7^{1}/_{4}$	d1	$7^{1}/_{4}$
K	$8^{1}/_{4}$	K	$8^{1}/_{4}$
L	$^{3}/_{4}$	L	$^{3}/_{4}$
z	$^{5}/_{16}$	z	$^{5}/_{16}$

Dimensions and weight without obligation

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