LOWARA
a xylem brand

NSCE80-160/55/P46PCC4

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	°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	Standard, Grease lubrication [Std]					
10	Execution	4 poles motor		Impeller Ø	Max.	inch	6 15/16
11	Design	Horizontal			designed	inch	6 15/16
12	Operating speed	1765 rpm	Stages 1		Min.	inch	5 11/16
13	Suction nozzle	DN 100 / PN 16 / EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle	DN 80 / PN 16 / EN1092-2			Max-	US g.p.m.	732.7
15	Max. casing pressure	psi			Min-	US g.p.m.	159.9
16	Max. working pressure	psi	22.2	Head	Nominal	ft	
17	Impeller type		Radial impeller		at Qmax	ft	23.2
18	Head H(Q=0)	ft	51		at Qmin	ft	50.5
19	Max. shaft power	hp	6.5	Shaft power		hp	
20	Pump weight	kg		Efficiency		%	
21	Total weight	lb	235.9	NPSH 3%		ft	

Materials

	Pump		Shaft Seal	
22				
23	Volute Casing	Cast Iron	Single mechanical seal, without shaft sleeve	
24	Casing Cover	Cast Iron	eMG12 - Ø28mm	BQ7EGG-WA
25	Impeller	Cast Iron	Mechanical seal diameter	1 1/8 inch
26	Shaft	Stainless steel	1. Rotating ring	Carbon graphite resin impregnated
27	Wear ring	Stainless steel	2. Stationary ring	SiC, silicon carbide, sintered press.less
28	Impeller lock nut and washer	Stainless steel	3. Secondary seal	Ethylene propylene rubber (EPDM)
29	Impeller key	Stainless steel	4. Springs	CrNiMo - Steel
30	Fill and drain plugs	Stainless steel	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		
44	Type	PLM 132 B14 5,5 kW		
45	Rated power	7.3756 hp	Rated current	20 A
46	Nominal speed	1765 rpm	Rated voltage	220 V
47	Frame size	132	Service factor	1
48	Weight lb	127.9	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	6 15/16	160	733	481	51.1	39.8		6.49	6.01
Min.	0	/	/	408	32.4	22		/	3.02
Max.	6 15/16	/	/	481	51.1	39.8		/	6.01

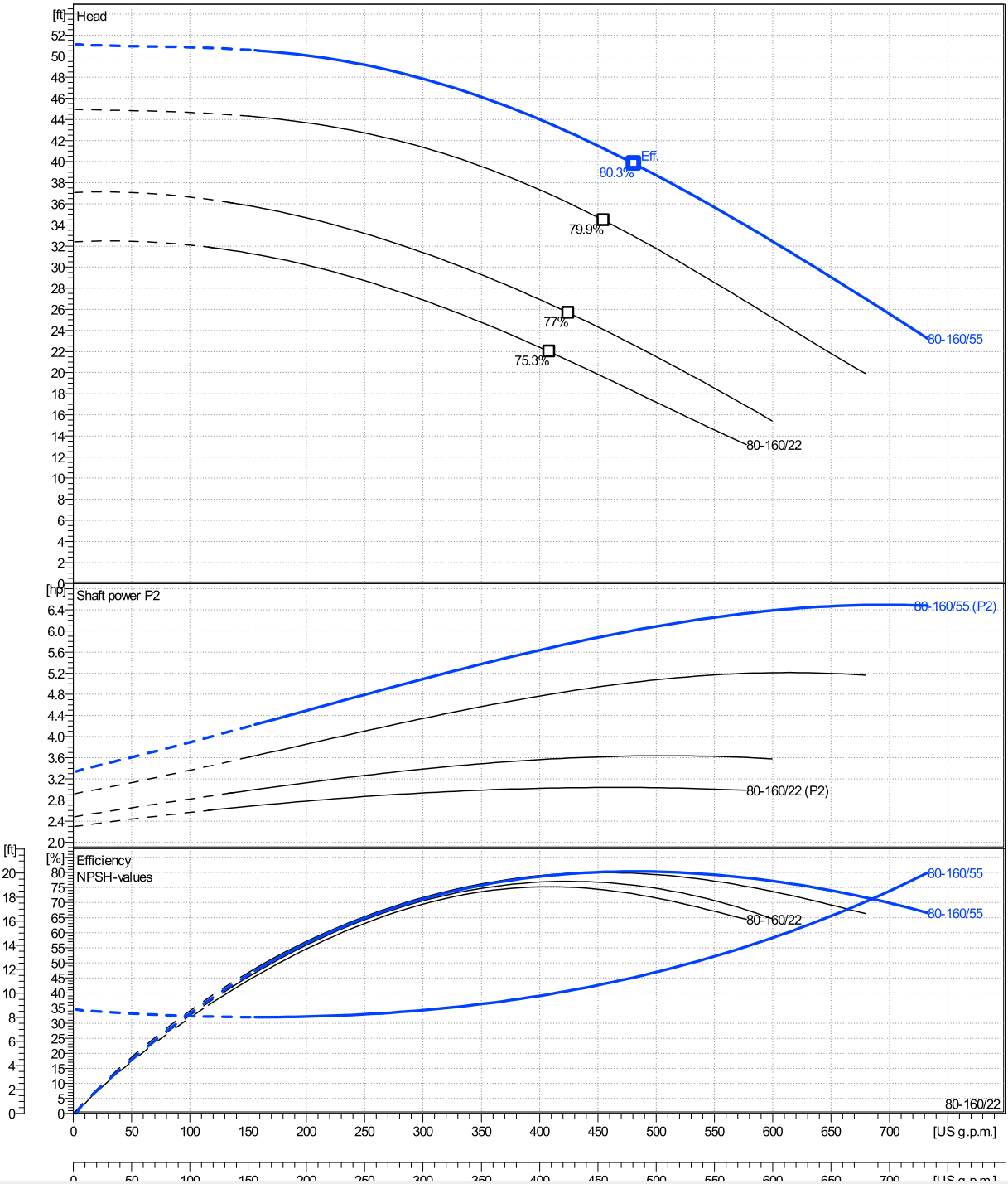
Frequency	Hz	60
Operating speed	rpm	1765
Nominal flow	US g.p.m.	0
Nominal head	ft	0
Inlet pressure	psi	0
Static head	ft	0

Power datas refered to:

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

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

MEI: N.A - according to Ecodesign Directive 2009/125/EC and Regulation (EU) No.547/2012



Project		Created by	Last update 1/9/2025
Block	NSCE80-160/220/P26PCC4	Created on 1/9/2025	

Program version: 75.0 - 06/11/2024 (Build 274)
Data version: 15/12/2024 18:59
User group(s): Xylem:United Kingdom - EXT

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Dimensions

Company name
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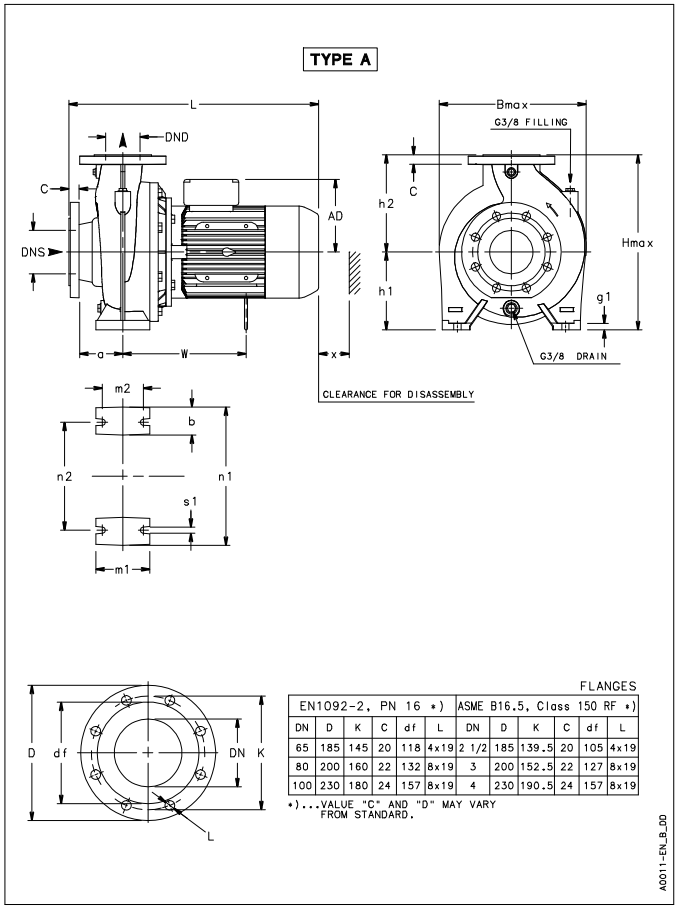
Extended shaft
4 poles motor
PLM 132 B14 5,5 kW



FLANGES

EN1092-2, PN 16 *)						ASME B16.5, Class 150 RF *)					
DN	D	K	C	df	L	DN	D	K	C	df	L
65	185	145	20	118	4x19	2 1/2	185	139.5	20	105	4x19
80	200	160	22	132	8x19	3	200	152.5	22	127	8x19
100	230	180	24	157	8x19	4	230	190.5	24	157	8x19

*)...VALUE "C" AND "D" MAY VARY FROM STANDARD.

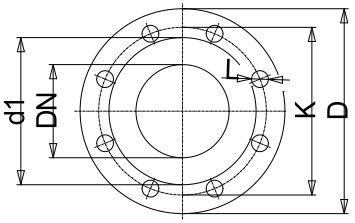
Note:
Weight and Dimensions of selected Hydrovar are NOT considered.
Please refer to additional datasheet.

Electrical and dimensional data refer to IE3 motor

Dimensions [inch]			
a	$4^{15}/_{16}$		
AD	$7^{1}/_{2}$		
B max	$13^{3}/_{8}$		
b	$2^{9}/_{16}$		
DND	$3^{1}/_{8}$		
DNS	$3^{15}/_{16}$		
g1	$^{5}/_{8}$		
H max	$15^{15}/_{16}$		
h1	$7^{1}/_{16}$		
h2	$8^{7}/_{8}$		
L	$24^{13}/_{16}$		
m1	$4^{15}/_{16}$		
m2	$3^{3}/_{4}$		
n1	$12^{5}/_{8}$		
n2	$9^{13}/_{16}$		
s1	$^{9}/_{16}$		
Type	A		
W	$13^{1}/_{2}$		
x	$4^{13}/_{16}$		

Weight	
Total weight	**107 kg**

Connections			
Suction nozzle		**Discharge nozzle**	
DN 100		**DN 80**	
PN 16		**PN 16**	
EN1092-2		**EN1092-2**	
C	$^{15}/_{16}$	C	$^{7}/_{8}$
D	$9^{1}/_{16}$	D	$7^{7}/_{8}$
df	$6^{3}/_{16}$	df	$5^{3}/_{16}$
DN	$3^{15}/_{16}$	DN	$3^{1}/_{8}$
K	$7^{1}/_{16}$	K	$6^{5}/_{16}$
L	8 x 19	L	8 x 19



Value C, D may vary from Standard

Dimensions and weight without obligation

Project		**Created by**		**Last update**	1/9/2025
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