

# NSCF80-160/22/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 at 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	[F] = 4 poles motor unit with standard cuopling						
11	Design	Horizontal		Impeller Ø	Max.	inch	6 15/16	
12	Operating speed	1750 rpm	Stages		1	designed	inch	5 11/16
13	Suction nozzle	DN 100 /	PN 16 /		EN1092-2	Min.	inch	5 11/16
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2	Flow	Nominal	US g.p.m.	
15	Max. casing pressure	psi				Max-	US g.p.m.	572.4
16	Max. working pressure	psi	13.8		Min-	US g.p.m.	118.9	
17	Impeller type	Radial impeller		Head	Nominal	ft		
18	Head H(Q=0)	ft	32		at Qmax	ft	13	
19	Max. shaft power	hp	3		at Qmin	ft	31.3	
20	Pump weight	kg	145.5	Shaft power	hp			
21	Total weight	lb	312.3	Efficiency	%			
				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
25	Impeller	Cast Iron	Mechanical seal diameter
26	Shaft	Stainless steel	1. Rotating ring
27	Wear ring	Stainless steel	2. Stationary ring
28	Impeller lock nut and washer	Stainless steel	3. Secondary seal
29	Impeller key	Stainless steel	4. Springs
30	Fill and drain plugs	Stainless steel	5. Others
31			Gaskets of the pump
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			

Motor data				Coupling		
Electrical and dimensional data refer to IE3 motor						
42	Manufacturer	Lowara		Manufacturer	Flender	
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B	
44	Type	PLM 100 B3 2,2 kW		Shaft diameter	Pump 15/16 inch Motor 1 1/8 inch	
45	Rated power	2.9502 hp	Rated current	4.73 A	Frame size	68
46	Nominal speed	1740 rpm	Rated voltage	380 V	Spacer length	inch 1/8
47	Frame size	100	Service factor	1	Weight	lb 1.2
48	Weight	lb 87.7	Degree of protection	IP55	Coupling protection	COUPLGUARD 175x102PNTD 0.5291 lb

Base plate		Remarks	
49	Name	BASE 5B 1120X490 BLU	
50	Weight	lb	77.4

# NSCF80-160/22/P46PCC4

## Performance curve

Company name  
Contact  
Phone number  
e-mail address

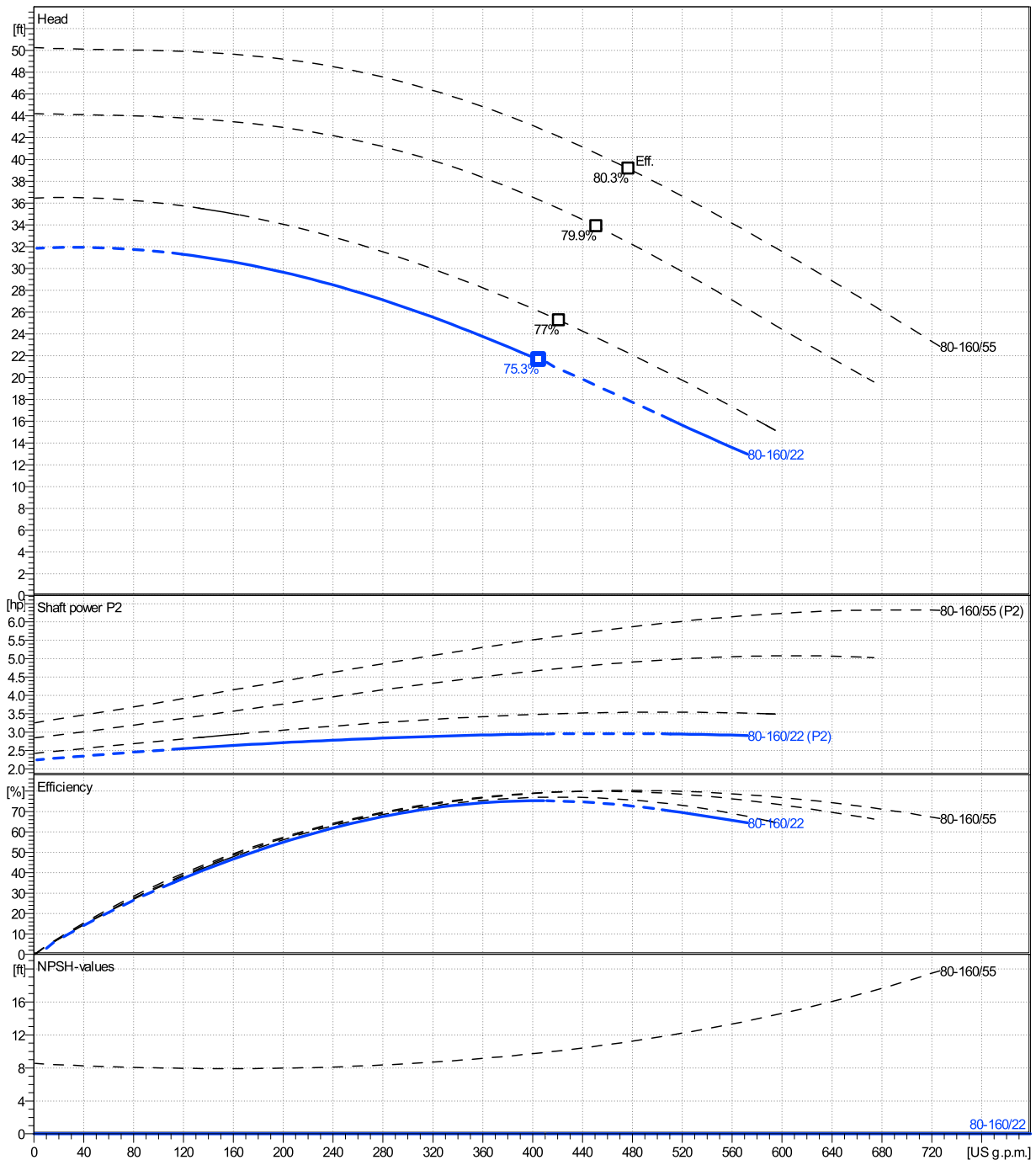
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	ft	ft	hp	Max. hp	η hp	rpm	
actual	5 11/16	119	572	405	31.8	21.6	2.96	2.95		1750	
Min.	0	/	/	405	31.8	21.6	/	2.95		0	
Max.	6 15/16	/	/	477	50.3	39.1	/	5.86		0	

**Power datas referred to:**

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

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

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



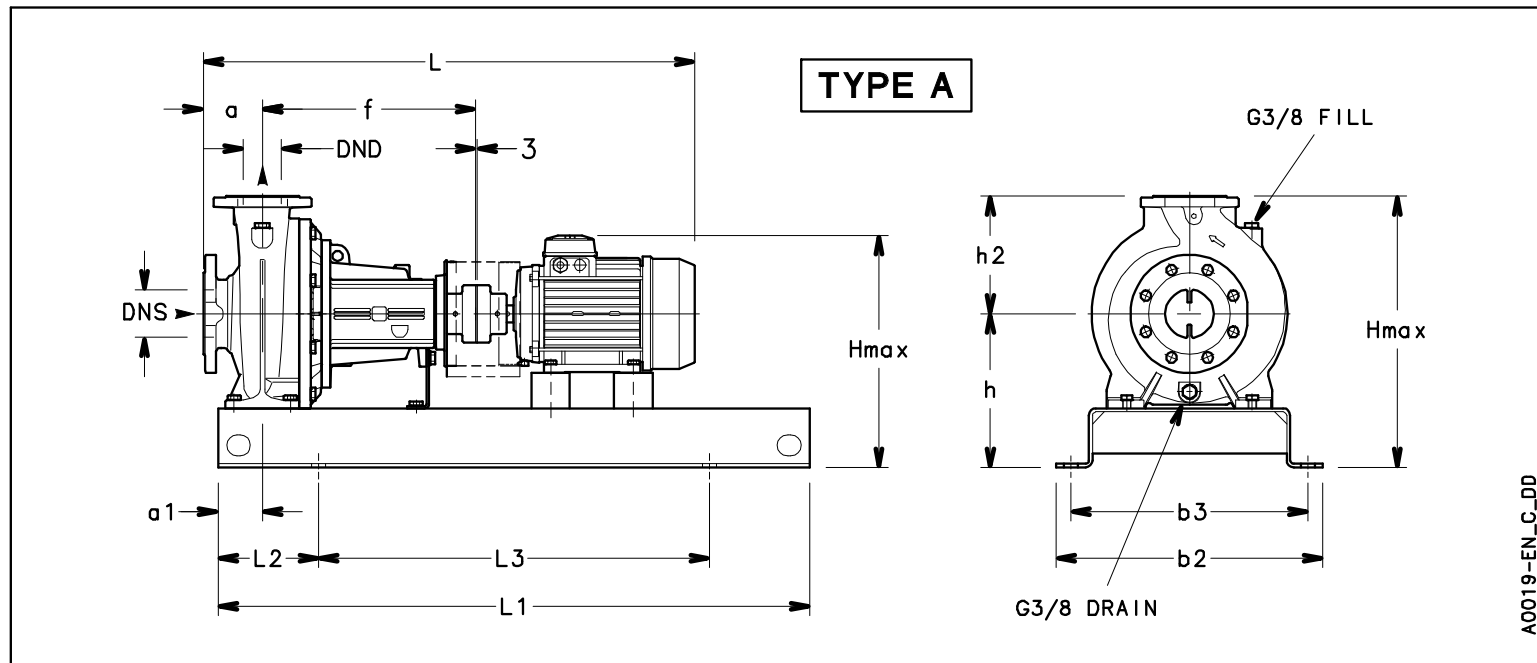
**NSCF80-160/22/P46PCC4**

**Dimensions**

Company name  
Contact  
Phone number  
e-mail address

Frame mounted  
[F] = 4 poles motor unit with standard coupling  
PLM 100 B3 2,2 kW

Electrical and dimensional data refer to IE3 motor



**Dimensions [ inch ]**

a	4 <sup>15</sup> / <sub>16</sub>		
a1	2 <sup>15</sup> / <sub>16</sub>		
AD	6 <sup>7</sup> / <sub>16</sub>		
b2	19 <sup>5</sup> / <sub>16</sub>		
b3	17 <sup>5</sup> / <sub>16</sub>		
DND	3 <sup>1</sup> / <sub>8</sub>		
DNS	3 <sup>15</sup> / <sub>16</sub>		
f	14 <sup>3</sup> / <sub>16</sub>		
Guard	4 <sup>7</sup> / <sub>16</sub>		
h	11 <sup>1</sup> / <sub>32</sub>		
h2	8 <sup>7</sup> / <sub>8</sub>		
Hmax	19 <sup>7</sup> / <sub>8</sub>		
L	35 <sup>15</sup> / <sub>16</sub>		
L1	44 <sup>1</sup> / <sub>8</sub>		
L2	7 <sup>1</sup> / <sub>2</sub>		
L3	29 <sup>1</sup> / <sub>8</sub>		
s	4xØ24		
Type	A		
Volumen	1 <sup>1</sup> / <sub>64</sub>		
x	1 <sup>1</sup> / <sub>8</sub>		

**Weight**

Total weight	141.68 kg
--------------	-----------

**Connections**

<b>Suction nozzle</b>		<b>Discharge nozzle</b>	
DN 100		DN 80	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	1 <sup>5</sup> / <sub>16</sub>	C	7 <sup>7</sup> / <sub>8</sub>
D	9 <sup>1</sup> / <sub>16</sub>	D	7 <sup>7</sup> / <sub>8</sub>
df	6 <sup>3</sup> / <sub>16</sub>	df	5 <sup>3</sup> / <sub>16</sub>
DN	3 <sup>15</sup> / <sub>16</sub>	DN	3 <sup>1</sup> / <sub>8</sub>
K	7 <sup>1</sup> / <sub>16</sub>	K	6 <sup>5</sup> / <sub>16</sub>
L	8 x 19	L	8 x 19

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

**Dimensions and weight without obligation**

Project	Xylect-20182283	Created by		Last update	1/11/2025
Block	NSCF80-160/370/L26UCC4	Created on	1/11/2025		

Value C, D may vary from Standard