

# NSCF65-160/40/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	[F] = 4 poles motor unit with standard cuopling								
11	Design	Horizontal		Impeller Ø	Max.	inch	7 1/16			
12	Operating speed	1750 rpm	Stages		1	designed	inch	7 1/16		
13	Suction nozzle	DN 80	/		PN 16	/	EN1092-2	Min.	inch	5 15/16
14	Discharge nozzle	DN 65	/	PN 16	/	EN1092-2	Flow	Nominal	US g.p.m.	
15	Max. casing pressure	psi						Max-	US g.p.m.	479.9
16	Max. working pressure	psi	22.7				Min-	US g.p.m.	96.9	
17	Impeller type	Radial impeller		Head	Nominal	ft				
18	Head H(Q=0)	ft	52		at Qmax	ft	28.5			
19	Max. shaft power	hp	4.8		at Qmin	ft	51.4			
20	Pump weight	kg	132.3	Shaft power	hp					
21	Total weight	lb	324.5	Efficiency	%					
				NPSH 3%	ft					

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			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				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 112 B3 4 kW		Shaft diameter	Pump 15/16 inch	Motor 1 1/8 inch	
45	Rated power	5.3641 hp	Rated current	8.52 A	Frame size	68	
46	Nominal speed	1740 rpm	Rated voltage	380 V	Spacer length	inch	1/8
47	Frame size	112	Service factor	1	Weight	lb 1.2	
48	Weight	lb 126.8	Degree of protection	IP55	Coupling protection	COUPLGUARD 175x102PNTD	0.5291 lb

Base plate			Remarks		
49	Name	BASE 4A 1000X450 BLU			
50	Weight	lb	63.7		

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## Performance curve

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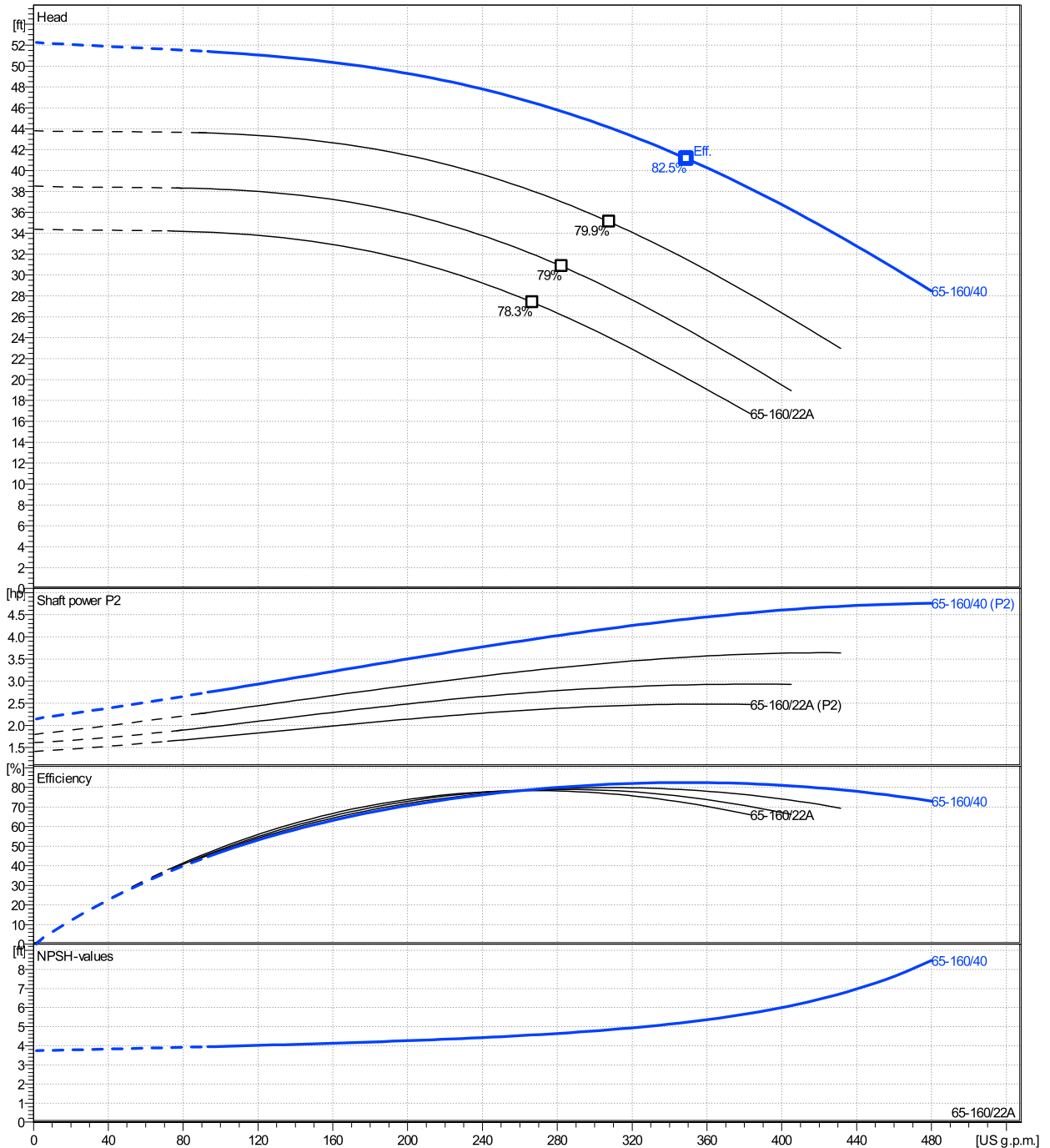
	Ø mm	Pump capacity Operating range η			Pump head η		Shaft power P2 η			Frequency	Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η ft	P2(Q=0) hp	Max. hp	η hp	Operating speed	rpm	
actual	7 1/16	96.9	480	349	52.3	41.1		4.76	4.4	Nominal flow	US g.p.m.	0
Min.	0	/	/	267	34.4	27.4		/	2.35	Nominal head	ft	0
Max.	7 1/16	/	/	349	52.3	41.1		/	4.4	Inlet pressure	psi	0
										Static head	ft	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



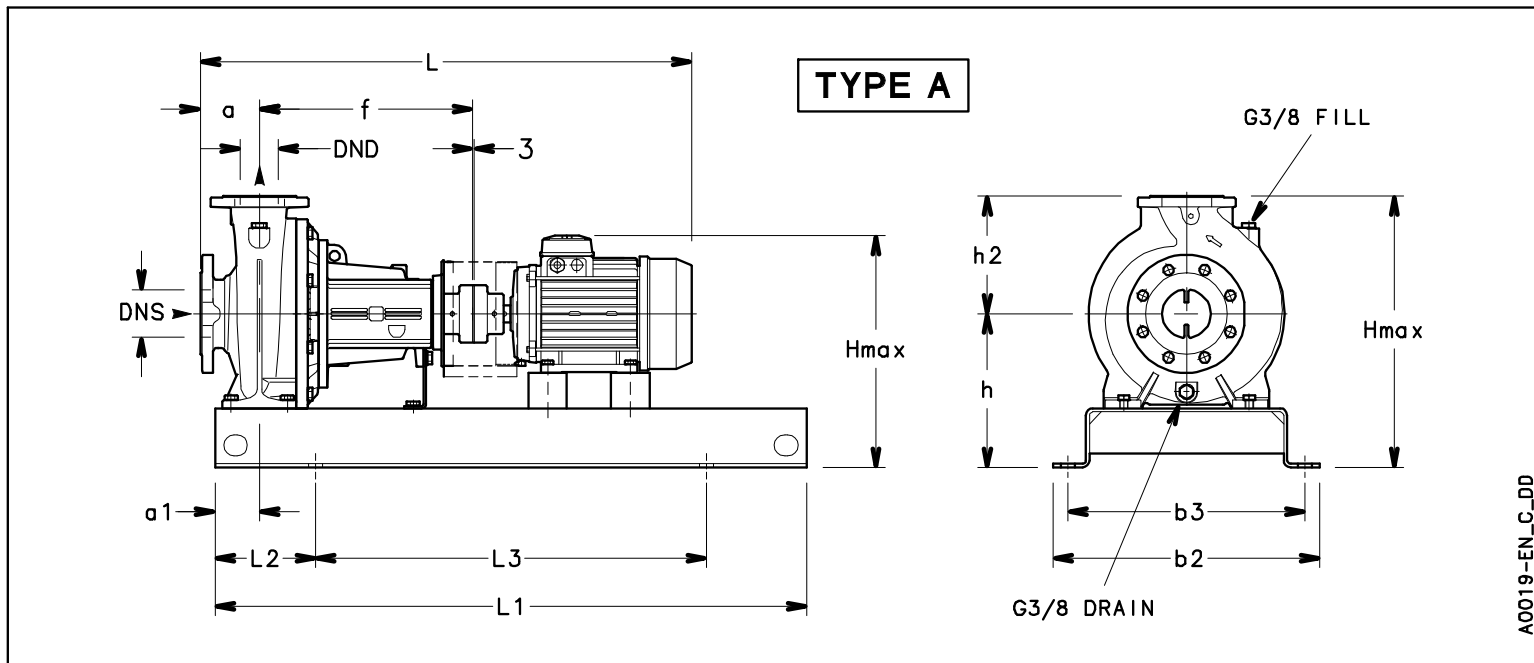
**NSCF65-160/40/P46PCC4**

**Dimensions**

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Frame mounted  
[F] = 4 poles motor unit with standard coupling  
PLM 112 B3 4 kW

Electrical and dimensional data refer to IE3 motor



Dimensions		[ inch ]	
a	3 <sup>15</sup> / <sub>16</sub>		
a1	2 <sup>15</sup> / <sub>16</sub>		
AD	6 <sup>5</sup> / <sub>8</sub>		
b2	17 <sup>11</sup> / <sub>16</sub>		
b3	15 <sup>3</sup> / <sub>4</sub>		
DND	2 <sup>9</sup> / <sub>16</sub>		
DNS	3 <sup>1</sup> / <sub>8</sub>		
f	14 <sup>3</sup> / <sub>16</sub>		
Guard	4 <sup>7</sup> / <sub>16</sub>		
h	10 <sup>1</sup> / <sub>4</sub>		
h2	7 <sup>7</sup> / <sub>8</sub>		
Hmax	18 <sup>1</sup> / <sub>8</sub>		
L	36 <sup>1</sup> / <sub>4</sub>		
L1	39 <sup>3</sup> / <sub>8</sub>		
L2	6 <sup>11</sup> / <sub>16</sub>		
L3	26		
s	4xØ24		
Type	A		
Volumen	1 <sup>1</sup> / <sub>128</sub>		
x	1 <sup>1</sup> / <sub>8</sub>		

Weight	
Total weight	147.18 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 80		DN 65	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	7 <sup>7</sup> / <sub>8</sub>	C	13 <sup>1</sup> / <sub>16</sub>
D	7 <sup>7</sup> / <sub>8</sub>	D	7 <sup>5</sup> / <sub>16</sub>
df	5 <sup>3</sup> / <sub>16</sub>	df	4 <sup>5</sup> / <sub>8</sub>
DN	3 <sup>1</sup> / <sub>8</sub>	DN	2 <sup>9</sup> / <sub>16</sub>
K	6 <sup>5</sup> / <sub>16</sub>	K	5 <sup>11</sup> / <sub>16</sub>
L	8 x 19	L	4 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	NSCF65-160/300/L26UCC4	Created on	1/11/2025		

