

## NSCF80-160/55/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	[F] = 4 poles motor unit with standard cuopling		
11	Design	Horizontal		
12	Operating speed	1750 rpm	Stages	1
13	Suction nozzle	DN 100 /	PN 16 /	EN1092-2
14	Discharge nozzle	DN 80 /	PN 16 /	EN1092-2
15	Max. casing pressure	psi		
16	Max. working pressure	psi	21.8	
17	Impeller type	Radial impeller		
18	Head H(Q=0)	ft	50	
19	Max. shaft power	hp	6.3	
20	Pump weight	kg	145.5	
21	Total weight	lb	364.9	

Materials				
22		Pump		Shaft Seal
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				
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Motor data				Coupling	
42	Manufacturer	Lowara		Manufacturer	Flender
43	Specific design	IE3 3ph Surface Motor - Premium Efficiency		Series	Standard Coupling - N-EUPEX - Type B
44	Type	PLM 132 B3 5,5 kW		Shaft diameter	Pump 15/16 inch Motor 1 1/2 inch
45	Rated power	7.3756 hp	Rated current	11.6 A	Frame size
46	Nominal speed	1758 rpm	Rated voltage	380 V	Spacer length
47	Frame size	132	Service factor	1	Weight
48	Weight	lb 138.4	Degree of protection	IP55	Coupling protection
					COUPLGUARD 175x132PNTD 0.66138 lb

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

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## Performance curve

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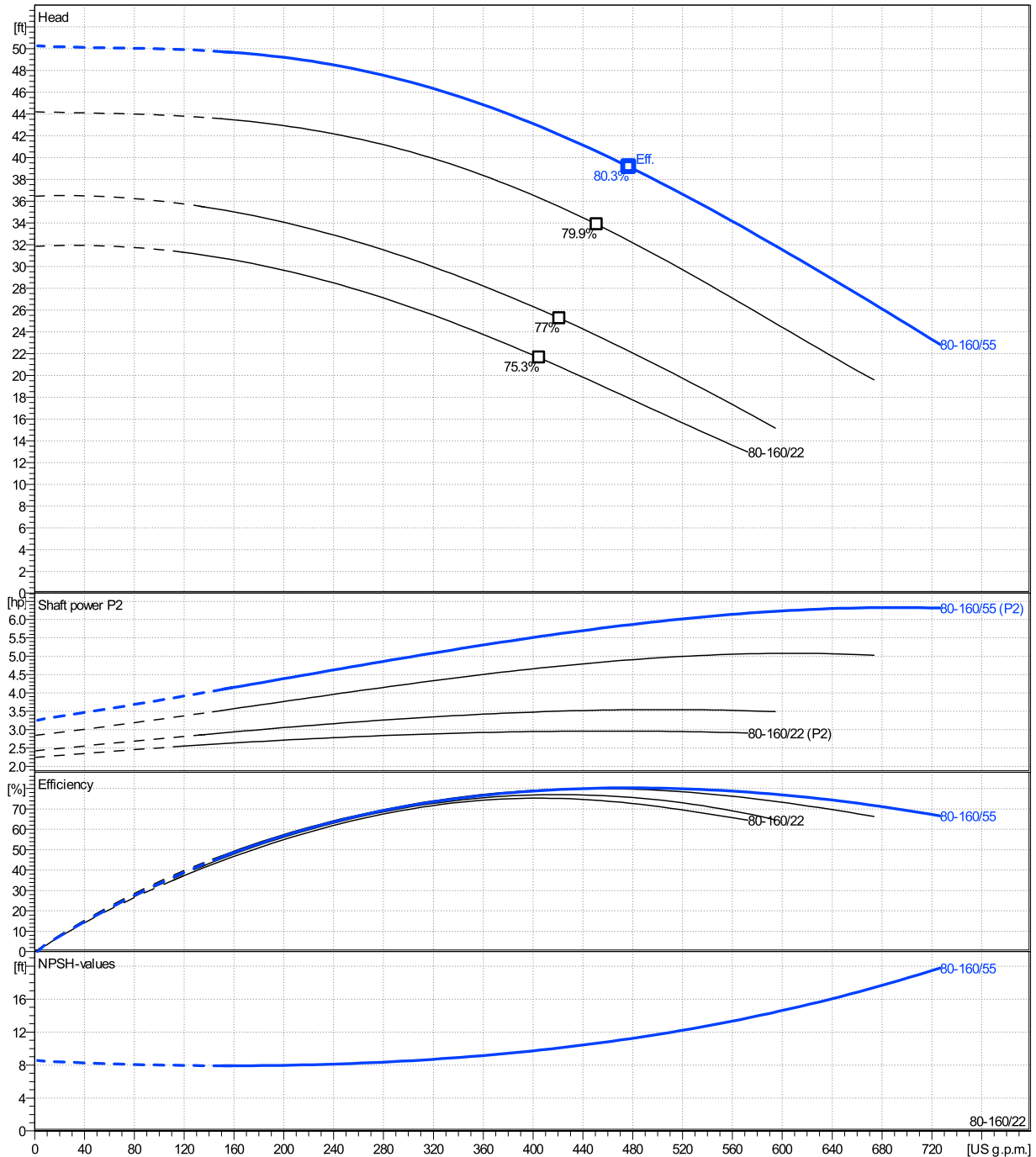
	Ø mm	Pump capacity Operating range η			Pump head H(Q=0) η		Shaft power P2 P2(Q=0) η			Frequency Hz	
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	ft	Max. ft	hp	Max. hp	Max. hp	Operating speed rpm	
actual	6 15/16	159	726	477	50.3	39.1	6.33	5.86	60	1750	
Min.	0	/	/	405	31.8	21.6	/	2.95			0
Max.	6 15/16	/	/	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



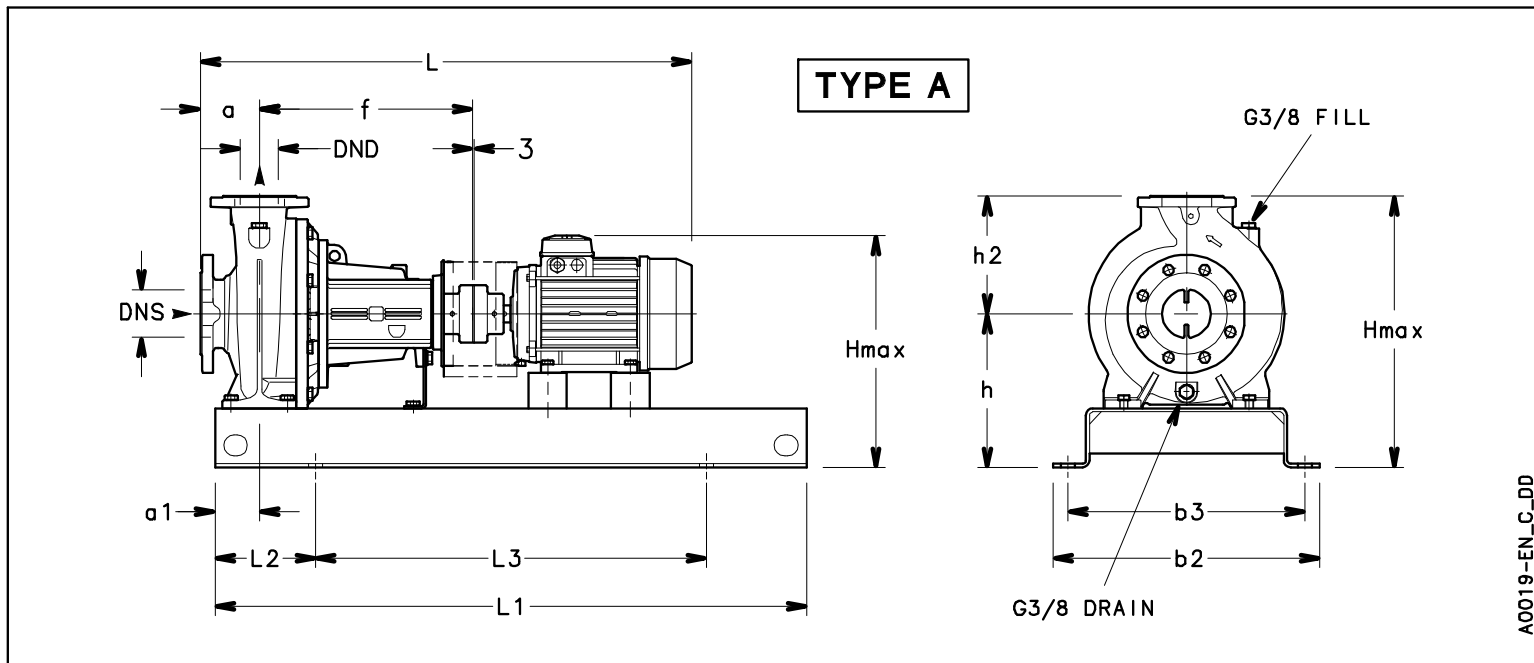
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## Dimensions

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Frame mounted  
[F] = 4 poles motor unit with standard coupling  
PLM 132 B3 5,5 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	7 <sup>1</sup> / <sub>2</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	5 <sup>1</sup> / <sub>4</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	38 <sup>5</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	165.5 kg
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### 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

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Value C, D may vary from Standard