

NSCE80-160/220/P26PCC4

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	2 poles motor	Impeller Ø	Max.	inch 6
11	Design	Horizontal		designed	inch 6
12	Operating speed	3555 rpm		Min.	inch 5 11/16
13	Suction nozzle	DN 100 / PN 16 / EN1092-2		Nominal	US g.p.m.
14	Discharge nozzle	DN 80 / PN 16 / EN1092-2	Flow	Max-	US g.p.m. 1252.2
15	Max. casing pressure	psi		Min-	US g.p.m. 273.2
16	Max. working pressure	psi 65.9		Nominal	ft
17	Impeller type	Radial impeller	Head	at Qmax	ft 59.9
18	Head H(Q=0)	ft 150		at Qmin	ft 149
19	Max. shaft power	hp 29.8	Shaft power	hp	
20	Pump weight	kg	Efficiency	%	
21	Total weight	lb 379.2	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
25	Impeller	Cast Iron			BQ7EGG-WA
26	Shaft	Stainless steel			Mechanical seal diameter
27	Wear ring	Stainless steel			1 1/8 inch
28	Impeller lock nut and washer	Stainless steel			1. Rotating ring
29	Impeller key	Stainless steel			Carbon graphite resin impregnated
30	Fill and drain plugs	Stainless steel			2. Stationary ring
31					SiC, silicon carbide, sintered press.less
32					3. Secondary seal
33					Ethylene propylene rubber (EPDM)
34					4. Springs
35					CrNiMo - Steel
36					5. Others
37					EPDM - WRAS
38					Gaskets of the pump
39					Ethylene propylene rubber (EPDM)
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 160 B34 22 kW		
45	Rated power	29.502 hp	Rated current	72.9 A
46	Nominal speed	3555 rpm	Rated voltage	220 V
47	Frame size	160	Service factor	1
48	Weight	lb 257.9	Degree of protection	IP55

Remarks

49	
50	
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52	

Project
Block NSCE80-160/220/P26PCC4

Created by
Created on 1/9/2025

Last update 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

NSCE80-160/220/P26PCC4

Performance curve

Company name
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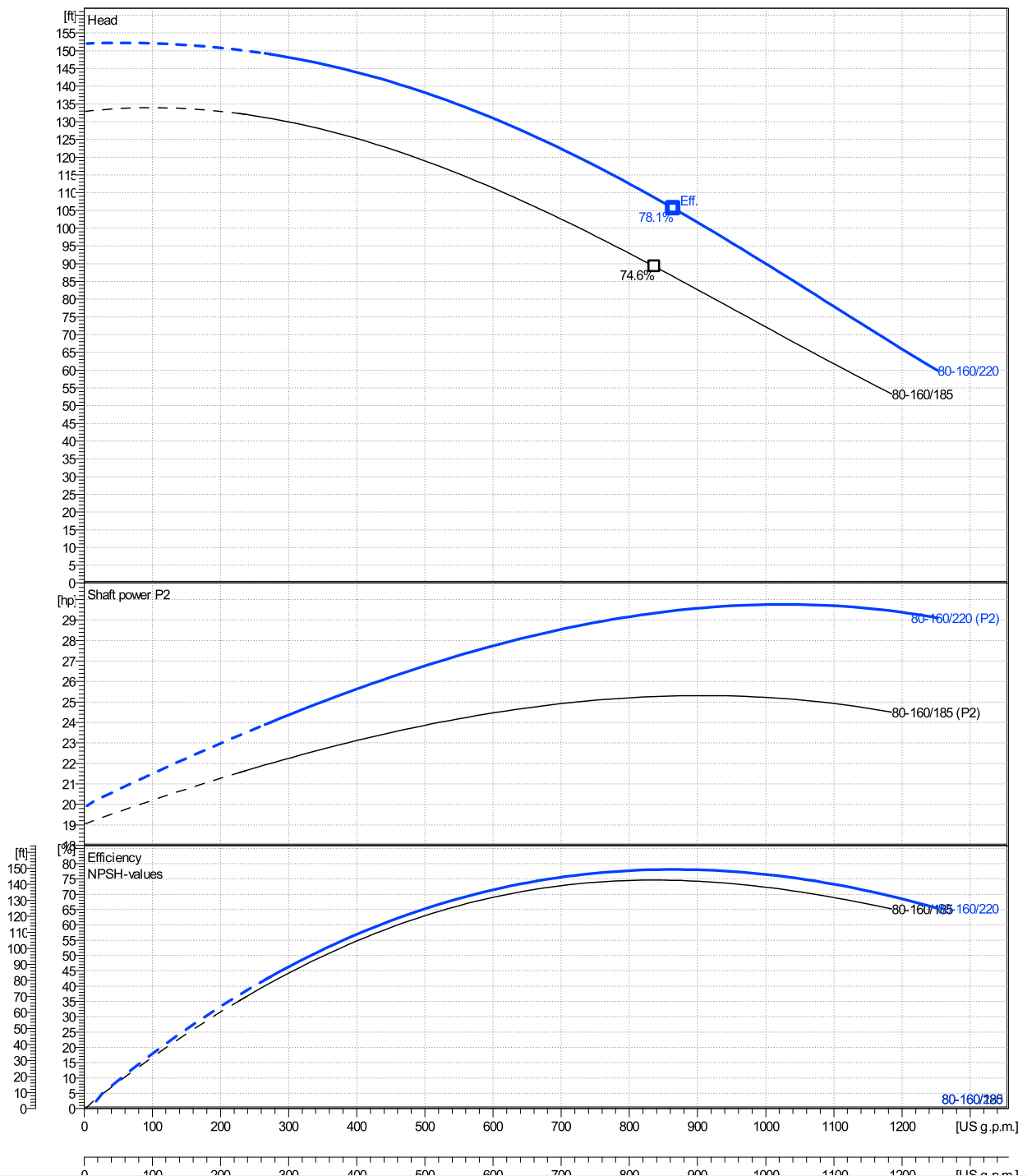
	Ø mm	Pump capacity			Pump head		Shaft power P2			Frequency	Hz	60
		Operating range Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed rpm		3555
actual	6	273	1250	864	152	106		29.8	29.5	Nominal flow	US g.p.m.	0
Min.	0	/	/	837	133	89.2		/	25.3	Nominal head	ft	0
Max.	6	/	/	864	152	106		/	29.5	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



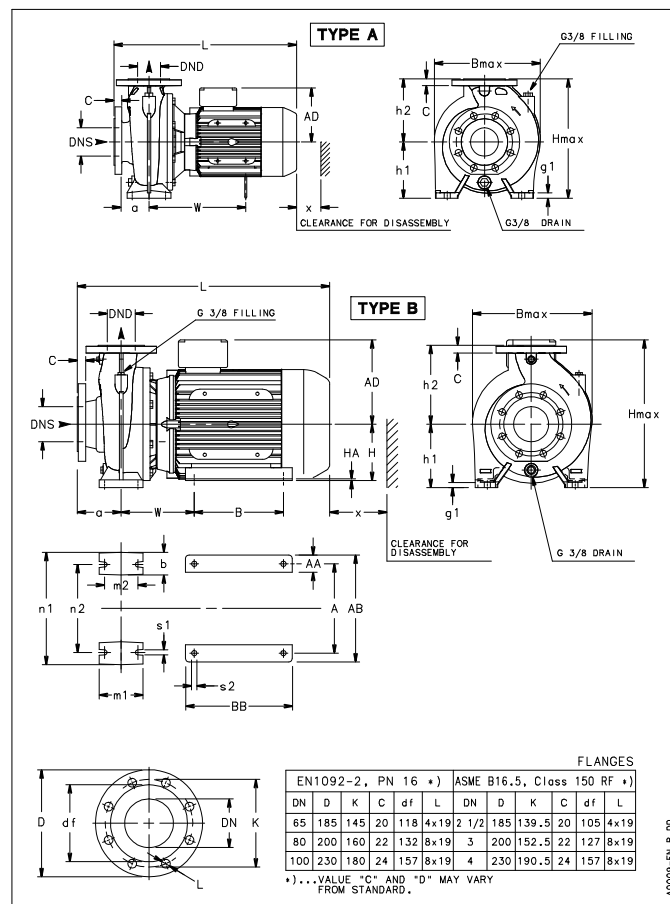
NSCE80-160/220/P26PCC4

Dimensions

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Extended shaft
2 poles motor
PLM 160 B34 22 kW

Electrical and dimensional data refer to IE3 motor



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

Dimensions and weight without obligation

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Dimensions [inch]			
A (Motor)	10	Type	B
a	4 ¹⁵ / ₁₆	W	8 ³ / ₁₆
AA	1 ¹⁵ / ₁₆	x	4 ¹³ / ₁₆
AB	11 ¹⁵ / ₁₆		
AD	9 ⁷ / ₁₆		
B (Motor)	10		
B max	13 ³ / ₈		
b	2 ⁹ / ₁₆		
BB	11 ¹⁵ / ₁₆		
DND	3 ¹ / ₈		
DNS	3 ¹⁵ / ₁₆		
g1	5 ¹ / ₈		
H (Motor)	6 ⁵ / ₁₆		
H max	16 ⁹ / ₁₆		
h1	7 ¹ / ₁₆		
h2	8 ⁷ / ₈		
HA	3 ¹ / ₁₆		
L	28 ⁵ / ₁₆		
m1	4 ¹⁵ / ₁₆		
m2	3 ³ / ₄		
n1	12 ⁵ / ₈		
n2	9 ¹³ / ₁₆		
s1	9 ¹ / ₁₆		
s2	9 ¹ / ₁₆		

Connections			
Suction nozzle		Discharge nozzle	
DN 100		DN 80	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	15 ¹ / ₁₆	C	7 ¹ / ₈
D	9 ¹ / ₁₆	D	7 ¹ / 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

