

NSCE50-200/22/P46PCS4

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	8 1/4			
11	Design	Horizontal					designed	inch	6 5/8			
12	Operating speed		1740 rpm	Stages 1			Min.	inch	6 5/8			
13	Suction nozzle		DN 65	/	PN 16	/	EN1092-2		Flow	Nominal	US g.p.m.	
14	Discharge nozzle		DN 50	/	PN 16	/	EN1092-2			Max-	US g.p.m.	236.4
15	Max. casing pressure		psi							Min-	US g.p.m.	52.5
16	Max. working pressure		psi		18.2				Head	Nominal	ft	
17	Impeller type		Radial impeller				at Qmax	ft		26.2		
18	Head H(Q=0)		ft		42					at Qmin	ft	42.7
19	Max. shaft power		hp		2.7				Shaft power		hp	
20	Pump weight		kg						Efficiency		%	
21	Total weight		lb		136.7				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	Fabricated Stainless Steel	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)
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Motor data

Electrical and dimensional data refer to IE3 motor

42	Manufacturer	Lowara		
43	Specific design	IE3 3ph Flange Motor		
44	Type	PLM 100 B14 2,2 kW		
45	Rated power	2.9502 hp	Rated current	8.19 A
46	Nominal speed	1740 rpm	Rated voltage	220 V
47	Frame size	100	Service factor	1
48	Weight	lb 63.5	Degree of protection	IP55

Remarks

49	
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52	

Project	Created by	Last update	1/9/2025
Block	Created on	1/9/2025	

NSCE50-200/22/P46PCS4

Performance curve

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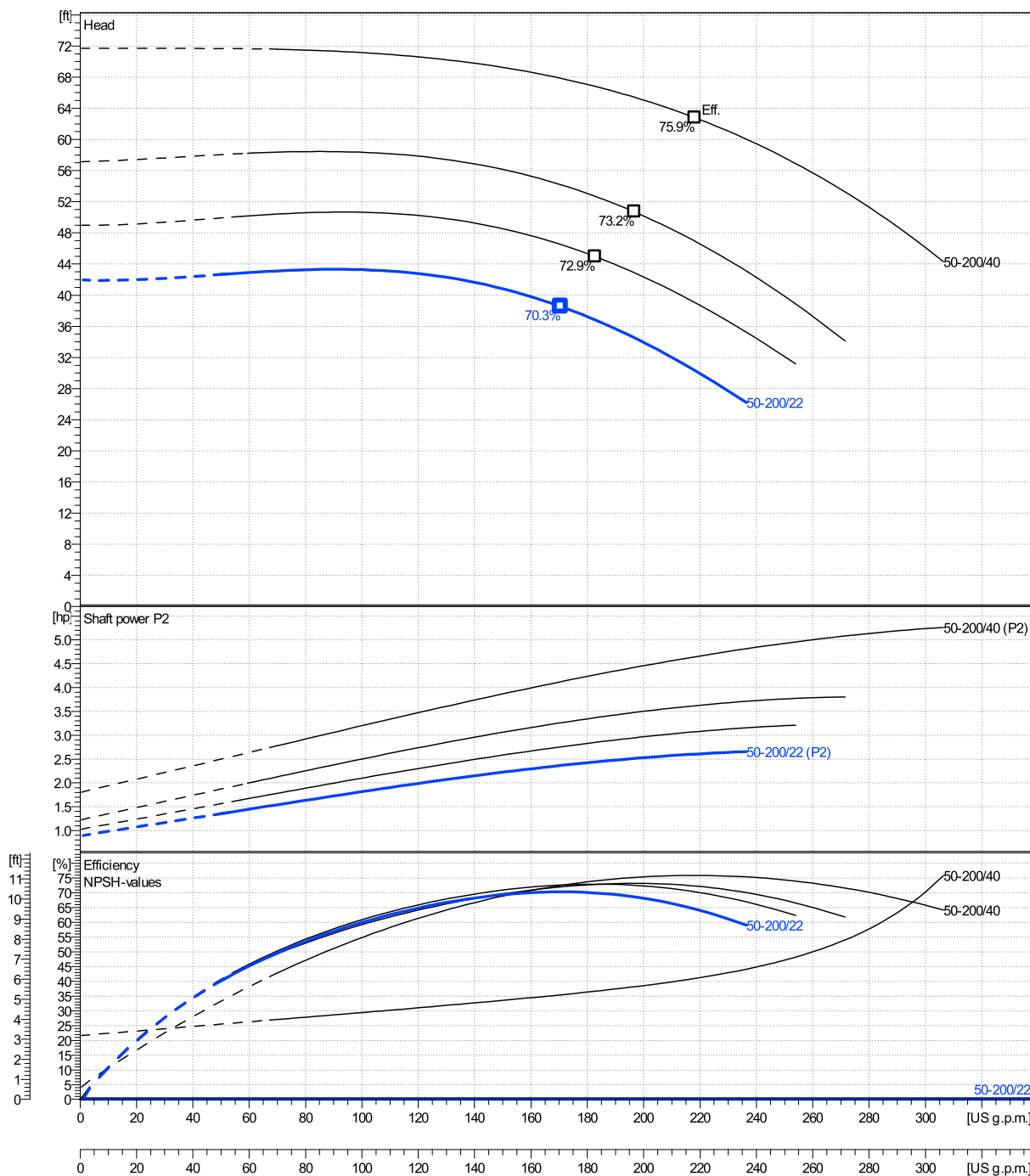
	Ø mm	Pump capacity Operating range			Pump head		Shaft power P2			Frequency	Hz	60
		Min. US g.p.m.	Max. US g.p.m.	Max. US g.p.m.	H(Q=0) ft	η Max. ft	P2(Q=0) hp	Max. hp	η Max. hp	Operating speed rpm		1740
actual	6 5/8	52.5	236	171	42	38.6		2.66	2.36	Nominal flow	US g.p.m.	0
Min.	0	/	/	171	42	38.6		/	2.36	Nominal head	ft	0
Max.	8 1/4	/	/	218	71.7	62.8		/	4.65	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



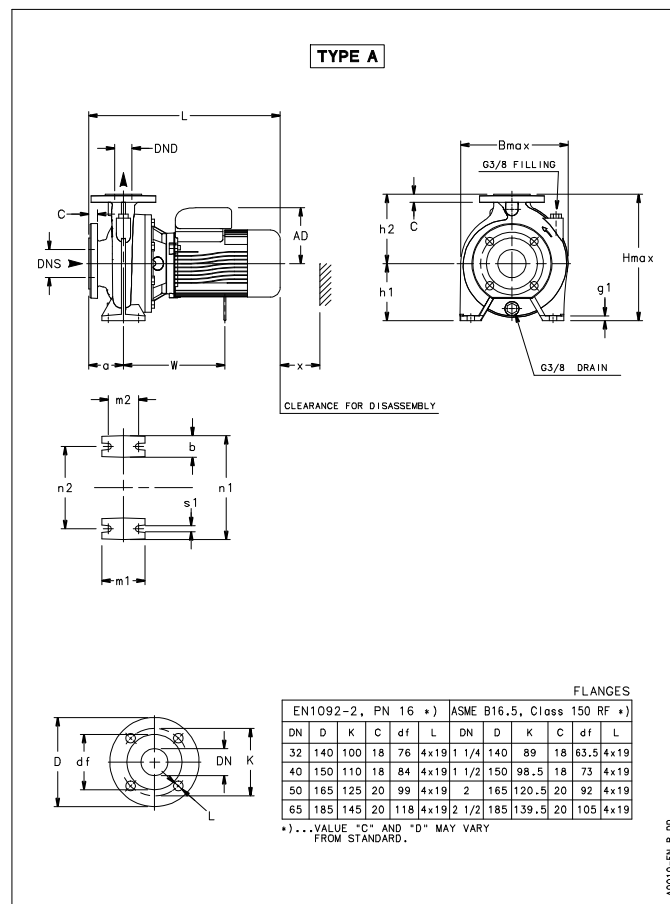
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Dimensions

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Extended shaft
4 poles motor
PLM 100 B14 2,2 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

Project	Block	NSCE50-200/220/P26PCS4	Created by	Created on	1/9/2025	Last update	1/9/2025
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Dimensions [inch]			
a	3 ¹⁵ / ₁₆		
AD	6 ⁵ / ₈		
B max	12 ¹ / ₆₄		
b	1 ¹⁵ / ₁₆		
DND	1 ¹⁵ / ₁₆		
DNS	2 ⁹ / ₁₆		
g1	9/ ₁₆		
H max	14 ³ / ₁₆		
h1	6 ⁵ / ₁₆		
h2	7 ⁷ / ₈		
L	20 ⁹ / ₁₆		
m1	3 ¹⁵ / ₁₆		
m2	2 ³ / ₄		
n1	10 ⁷ / ₁₆		
n2	8 ³ / ₈		
s1	9/ ₁₆		
Type	A		
W	11 ⁵ / ₁₆		
x	3 ⁷ / ₈		

Weight	
Total weight	62 kg

Connections			
Suction nozzle		Discharge nozzle	
DN 65		DN 50	
PN 16		PN 16	
EN1092-2		EN1092-2	
C	13/ ₁₆	C	13/ ₁₆
D	7 ⁵ / ₁₆	D	6 ¹ / ₂
df	4 ⁵ / ₈	df	3 ⁷ / ₈
DN	2 ⁹ / ₁₆	DN	1 ¹⁵ / ₁₆
K	5 ¹¹ / ₁₆	K	4 ¹⁵ / ₁₆
L	4 x 19	L	4 x 19

